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INTERNATIONAL

Appendix A
Air Quality/GHG CalEEMod Input and Output Data

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Paradise Canyon Elementary School Modernization

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	62.47	1000sqft	3.43	62,466.00	0
Other Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total Campus 8.85 acres, approx 1/2 of campus will be disturbed or 4.43 acres. Interim Building 16,800 sq ft + New Building 27,600 + Modernization 18,066 sq ft = 62,466 sq ft

Construction Phase - Construction Schedule Provided by Applicant. Architectural Coating will occur concurrently with last month of Building Construction

Off-road Equipment - 1 450 Hp Crane, 1 Excavator, 1 Grader, 1 Roller, 2 Plate Compactors & 3 Tractor-Loader-Backhoes

Off-road Equipment - 1 450 HP Crane, 1 Excavator, 1 Grader, 1 Roller, 2 Plate Compactors, 3 Tractor-Loader-Backhoe

Off-road Equipment - 1 Concrete Saw, 1 Excavator, 3 Tractor-Loader-Backhoe

Off-road Equipment - 1 Cement Mixer, 1 450 Hp Crane, 1 Excavator, 1 Grader, 1 Roller, 2 Plate Compactor, 3 Tractor-Loader-Backhoes

Off-road Equipment - 1 Air Compressor

Trips and VMT - 32 haul truck trips added to Stages 1 & 6 to account for 16 interim portables delivery and removal

Demolition - Demolition of 20,000 sq ft of Building Space

Grading - Stage 1 - Export of 4,640 cu yds of dirt

Construction Off-road Equipment Mitigation - Water Exposed Area 3x per day selected to account for SCAQMD Rule 403 Minimum requirements

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	18.00	22.00
tblConstructionPhase	NumDays	230.00	566.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	8.00	86.00
tblConstructionPhase	NumDays	5.00	65.00
tblGrading	MaterialExported	0.00	4,640.00
tblLandUse	LandUseSquareFeet	62,470.00	62,466.00
tblLandUse	LotAcreage	1.43	3.43
tblOffRoadEquipment	HorsePower	231.00	450.00
tblOffRoadEquipment	HorsePower	231.00	450.00
tblOffRoadEquipment	HorsePower	231.00	450.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	580.00	612.00
tblTripsAndVMT	HaulingTripNumber	0.00	32.00

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					
2023	2.0264	19.9796	20.7356	0.0443	0.9602	0.8165	1.7654	0.1719	0.7540	0.9187	0.0000	4,302.4731	4,302.4731	1.1417	0.1014	4,352.5488
2024	1.9351	18.5265	20.4211	0.0441	0.6119	0.7457	1.3576	0.1648	0.6889	0.8536	0.0000	4,287.8635	4,287.8635	1.1295	0.0579	4,333.3619

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2025	1.7972	16.6870	19.9963	0.0439	0.6119	0.6483	1.2602	0.1648	0.5993	0.7640	0.0000	4,271.2653	4,271.2653	1.1287	0.0565	4,316.3046
2026	28.8554	17.8350	21.9820	0.0475	0.7939	0.7002	1.4234	0.1914	0.6511	0.8425	0.0000	4,621.9122	4,621.9122	1.1449	0.0568	4,667.4551
Maximum	**28.8554**	**19.9796**	**21.9820**	**0.0475**	**0.9602**	**0.8165**	**1.7654**	**0.1914**	**0.7540**	**0.9187**	**0.0000**	**4,621.9122**	**4,621.9122**	**1.1449**	**0.1014**	**4,667.4551**

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					
2023	2.0264	19.9796	20.7356	0.0443	0.6319	0.8165	1.4370	0.1648	0.7540	0.9187	0.0000	4,302.4731	4,302.4731	1.1417	0.1014	4,352.5488
2024	1.9351	18.5265	20.4211	0.0441	0.6119	0.7457	1.3576	0.1648	0.6889	0.8536	0.0000	4,287.8635	4,287.8635	1.1295	0.0579	4,333.3619
2025	1.7972	16.6870	19.9963	0.0439	0.6119	0.6483	1.2602	0.1648	0.5993	0.7640	0.0000	4,271.2653	4,271.2653	1.1287	0.0565	4,316.3046
2026	28.8554	17.8350	21.9820	0.0475	0.7125	0.7002	1.4127	0.1914	0.6511	0.8425	0.0000	4,621.9122	4,621.9122	1.1449	0.0568	4,667.4551
Maximum	**28.8554**	**19.9796**	**21.9820**	**0.0475**	**0.7125**	**0.8165**	**1.4370**	**0.1914**	**0.7540**	**0.9187**	**0.0000**	**4,621.9122**	**4,621.9122**	**1.1449**	**0.1014**	**4,667.4551**

	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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**13.76**	**0.00**	**5.84**	**1.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

1	Stage 1 Installation of Interim Housing	Site Preparation	7/1/2023	9/30/2023	5	65	
2	Stages 2&3 Demolition	Demolition	10/1/2023	11/30/2023	5	44	
3	Stages 2,3,4&5 Building Construction	Building Construction	12/1/2023	1/31/2026	5	566	
4	Stages 2,3,4&5 Painting	Architectural Coating	1/1/2026	1/31/2026	5	22	
5	Stage 6 Removal of Interim Housing	Grading	2/1/2026	6/1/2026	5	86	

Acres of Grading (Site Preparation Phase): 32.5

Acres of Grading (Grading Phase): 43

Acres of Paving: 1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 93,699; Non-Residential Outdoor: 31,233; Striped Parking Area: 2,614

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Stage 1 Installation of Interim Housing	Cranes	1	8.00	450	0.29
Stage 1 Installation of Interim Housing	Excavators	1	8.00	158	0.38
Stage 1 Installation of Interim Housing	Graders	1	8.00	187	0.41
Stage 1 Installation of Interim Housing	Plate Compactors	2	8.00	8	0.43
Stage 1 Installation of Interim Housing	Rollers	1	8.00	80	0.38
Stage 1 Installation of Interim Housing	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Stages 2&3 Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Stages 2&3 Demolition	Excavators	1	8.00	158	0.38
Stages 2&3 Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Stages 2,3,4&5 Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Stages 2,3,4&5 Building Construction	Cranes	1	8.00	450	0.29
Stages 2,3,4&5 Building Construction	Excavators	1	8.00	158	0.38
Stages 2,3,4&5 Building Construction	Graders	1	8.00	187	0.41
Stages 2,3,4&5 Building Construction	Plate Compactors	2	8.00	8	0.43
Stages 2,3,4&5 Building Construction	Rollers	1	8.00	80	0.38
Stages 2,3,4&5 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Stages 2,3,4&5 Painting	Air Compressors	1	6.00	78	0.48
Stage 6 Removal of Interim Housing	Cranes	1	8.00	450	0.29

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Stage 6 Removal of Interim Housing	Excavators	1	8.00	158	0.38
Stage 6 Removal of Interim Housing	Graders	1	8.00	187	0.41
Stage 6 Removal of Interim Housing	Plate Compactors	2	8.00	8	0.43
Stage 6 Removal of Interim Housing	Rollers	1	8.00	80	0.38
Stage 6 Removal of Interim Housing	Tractors/Loaders/Backhoes	3	8.00	97	0.37

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
Stage 1 Installation of Interim Housing	9	23.00	0.00	612.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Stages 2&3 Demolition	5	13.00	0.00	91.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Stages 2,3,4&5 Building Construction	10	45.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Stages 2,3,4&5 Painting	1	9.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Stage 6 Removal of Interim Housing	9	23.00	0.00	32.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Stage 1 Installation of Interim Housing - 2023

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					0.5383	0.0000	0.5383	0.0585	0.0000	0.0585			0.0000			0.0000
Off-Road	1.8040	18.6996	18.5438	0.0360		0.7958	0.7958		0.7337	0.7337		3,455.8008	3,455.8008	1.1025		3,483.3641
Total	**1.8040**	**18.6996**	**18.5438**	**0.0360**	**0.5383**	**0.7958**	**1.3342**	**0.0585**	**0.7337**	**0.7922**		**3,455.8008**	**3,455.8008**	**1.1025**		**3,483.3641**

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Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0204	1.2286	0.3279	5.5100e-003	0.1648	7.7500e-003	0.1726	0.0452	7.4100e-003	0.0526		605.0892	605.0892	0.0334	0.0961	634.5569
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
Worker	0.0737	0.0514	0.8335	2.2800e-003	0.2571	1.5500e-003	0.2586	0.0682	1.4300e-003	0.0696		232.9009	232.9009	5.8000e-003	5.3100e-003	234.6278
Total	**0.0941**	**1.2800**	**1.1614**	**7.7900e-003**	**0.4219**	**9.3000e-003**	**0.4312**	**0.1134**	**8.8400e-003**	**0.1222**		**837.9902**	**837.9902**	**0.0392**	**0.1014**	**869.1847**

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					0.2100	0.0000	0.2100	0.0228	0.0000	0.0228			0.0000			0.0000
Off-Road	1.8040	18.6996	18.5438	0.0360		0.7958	0.7958		0.7337	0.7337	0.0000	3,455.8008	3,455.8008	1.1025		3,483.3641
Total	**1.8040**	**18.6996**	**18.5438**	**0.0360**	**0.2100**	**0.7958**	**1.0058**	**0.0228**	**0.7337**	**0.7565**	**0.0000**	**3,455.8008**	**3,455.8008**	**1.1025**		**3,483.3641**

Mitigated Construction Off-Site

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Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	0.0204	1.2286	0.3279	5.5100e-003	0.1648	7.7500e-003	0.1726	0.0452	7.4100e-003	0.0526		605.0892	605.0892	0.0334	0.0961	634.5569
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
Worker	0.0737	0.0514	0.8335	2.2800e-003	0.2571	1.5500e-003	0.2586	0.0682	1.4300e-003	0.0696		232.9009	232.9009	5.8000e-003	5.3100e-003	234.6278
Total	**0.0941**	**1.2800**	**1.1614**	**7.7900e-003**	**0.4219**	**9.3000e-003**	**0.4312**	**0.1134**	**8.8400e-003**	**0.1222**		**837.9902**	**837.9902**	**0.0392**	**0.1014**	**869.1847**

3.3 Stages 2&3 Demolition - 2023

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					0.4474	0.0000	0.4474	0.0678	0.0000	0.0678			0.0000			0.0000
Off-Road	0.9765	8.7399	13.6091	0.0208		0.4315	0.4315		0.4073	0.4073		1,997.5008	1,997.5008	0.4836		2,009.5896
Total	**0.9765**	**8.7399**	**13.6091**	**0.0208**	**0.4474**	**0.4315**	**0.8790**	**0.0678**	**0.4073**	**0.4750**		**1,997.5008**	**1,997.5008**	**0.4836**		**2,009.5896**

Unmitigated Construction Off-Site

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Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	4.4900e-003	0.2699	0.0720	1.2100e-003	0.0362	1.7000e-003	0.0379	9.9300e-003	1.6300e-003	0.0116		132.9138	132.9138	7.3300e-003	0.0211	139.3867
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
Worker	0.0416	0.0290	0.4711	1.2900e-003	0.1453	8.8000e-004	0.1462	0.0385	8.1000e-004	0.0393		131.6397	131.6397	3.2800e-003	3.0000e-003	132.6157
Total	**0.0461**	**0.2989**	**0.5431**	**2.5000e-003**	**0.1815**	**2.5800e-003**	**0.1841**	**0.0485**	**2.4400e-003**	**0.0509**		**264.5535**	**264.5535**	**0.0106**	**0.0241**	**272.0024**

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					0.1745	0.0000	0.1745	0.0264	0.0000	0.0264			0.0000			0.0000
Off-Road	0.9765	8.7399	13.6091	0.0208		0.4315	0.4315		0.4073	0.4073	0.0000	1,997.5008	1,997.5008	0.4836		2,009.5896
Total	**0.9765**	**8.7399**	**13.6091**	**0.0208**	**0.1745**	**0.4315**	**0.6060**	**0.0264**	**0.4073**	**0.4337**	**0.0000**	**1,997.5008**	**1,997.5008**	**0.4836**		**2,009.5896**

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

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Category	lb/day											lb/day					
Hauling	4.4900e-003	0.2699	0.0720	1.2100e-003	0.0362	1.7000e-003	0.0379	9.9300e-003	1.6300e-003	0.0116		132.9138	132.9138	7.3300e-003	0.0211	139.3867
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
Worker	0.0416	0.0290	0.4711	1.2900e-003	0.1453	8.8000e-004	0.1462	0.0385	8.1000e-004	0.0393		131.6397	131.6397	3.2800e-003	3.0000e-003	132.6157
Total	**0.0461**	**0.2989**	**0.5431**	**2.5000e-003**	**0.1815**	**2.5800e-003**	**0.1841**	**0.0485**	**2.4400e-003**	**0.0509**		**264.5535**	**264.5535**	**0.0106**	**0.0241**	**272.0024**

3.4 Stages 2,3,4&5 Building Construction - 2023

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	1.8627	19.0678	18.8522	0.0367		0.8101	0.8101		0.7480	0.7480		3,506.3171	3,506.3171	1.1078		3,534.0115
Total	**1.8627**	**19.0678**	**18.8522**	**0.0367**		**0.8101**	**0.8101**		**0.7480**	**0.7480**		**3,506.3171**	**3,506.3171**	**1.1078**		**3,534.0115**

Unmitigated Construction Off-Site

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	0.0000
Vendor	0.0196	0.6525	0.2528	3.1600e-003	0.1089	3.2800e-003	0.1122	0.0314	3.1400e-003	0.0345		340.4802	340.4802	0.0114	0.0490	355.3529
Worker	0.1441	0.1005	1.6307	4.4500e-003	0.5030	3.0400e-003	0.5060	0.1334	2.7900e-003	0.1362		455.6758	455.6758	0.0114	0.0104	459.0544
Total	**0.1637**	**0.7530**	**1.8835**	**7.6100e-003**	**0.6119**	**6.3200e-003**	**0.6182**	**0.1648**	**5.9300e-003**	**0.1707**		**796.1560**	**796.1560**	**0.0228**	**0.0593**	**814.4073**

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	1.8627	19.0678	18.8522	0.0367		0.8101	0.8101		0.7480	0.7480	0.0000	3,506.3171	3,506.3171	1.1078		3,534.0115
Total	**1.8627**	**19.0678**	**18.8522**	**0.0367**		**0.8101**	**0.8101**		**0.7480**	**0.7480**	**0.0000**	**3,506.3171**	**3,506.3171**	**1.1078**		**3,534.0115**

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	0.0000
Vendor	0.0196	0.6525	0.2528	3.1600e-003	0.1089	3.2800e-003	0.1122	0.0314	3.1400e-003	0.0345		340.4802	340.4802	0.0114	0.0490	355.3529
Worker	0.1441	0.1005	1.6307	4.4500e-003	0.5030	3.0400e-003	0.5060	0.1334	2.7900e-003	0.1362		455.6758	455.6758	0.0114	0.0104	459.0544
Total	**0.1637**	**0.7530**	**1.8835**	**7.6100e-003**	**0.6119**	**6.3200e-003**	**0.6182**	**0.1648**	**5.9300e-003**	**0.1707**		**796.1560**	**796.1560**	**0.0228**	**0.0593**	**814.4073**

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Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Stages 2,3,4&5 Building Construction - 2024

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	1.7818	17.7830	18.6559	0.0367		0.7395	0.7395		0.6830	0.6830		3,506.2141	3,506.2141	1.1077		3,533.9077
Total	**1.7818**	**17.7830**	**18.6559**	**0.0367**		**0.7395**	**0.7395**		**0.6830**	**0.6830**		**3,506.2141**	**3,506.2141**	**1.1077**		**3,533.9077**

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	0.0000
Vendor	0.0190	0.6538	0.2474	3.1100e-003	0.1089	3.3000e-003	0.1122	0.0314	3.1600e-003	0.0345		335.3668	335.3668	0.0115	0.0483	350.0368
Worker	0.1343	0.0897	1.5179	4.3300e-003	0.5030	2.9100e-003	0.5059	0.1334	2.6800e-003	0.1361		446.2825	446.2825	0.0103	9.6600e-003	449.4174
Total	**0.1533**	**0.7436**	**1.7653**	**7.4400e-003**	**0.6119**	**6.2100e-003**	**0.6181**	**0.1648**	**5.8400e-003**	**0.1706**		**781.6494**	**781.6494**	**0.0217**	**0.0579**	**799.4542**

Mitigated Construction On-Site

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	1.7818	17.7830	18.6559	0.0367		0.7395	0.7395		0.6830	0.6830	0.0000	3,506.2141	3,506.2141	1.1077		3,533.9077
Total	**1.7818**	**17.7830**	**18.6559**	**0.0367**		**0.7395**	**0.7395**		**0.6830**	**0.6830**	**0.0000**	**3,506.2141**	**3,506.2141**	**1.1077**		**3,533.9077**

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	0.0000
Vendor	0.0190	0.6538	0.2474	3.1100e-003	0.1089	3.3000e-003	0.1122	0.0314	3.1600e-003	0.0345		335.3668	335.3668	0.0115	0.0483	350.0368
Worker	0.1343	0.0897	1.5179	4.3300e-003	0.5030	2.9100e-003	0.5059	0.1334	2.6800e-003	0.1361		446.2825	446.2825	0.0103	9.6600e-003	449.4174
Total	**0.1533**	**0.7436**	**1.7653**	**7.4400e-003**	**0.6119**	**6.2100e-003**	**0.6181**	**0.1648**	**5.8400e-003**	**0.1706**		**781.6494**	**781.6494**	**0.0217**	**0.0579**	**799.4542**

3.4 Stages 2,3,4&5 Building Construction - 2025

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	1.6532	15.9557	18.3388	0.0367		0.6422	0.6422		0.5935	0.5935		3,506.5738	3,506.5738	1.1079		3,534.2703
Total	**1.6532**	**15.9557**	**18.3388**	**0.0367**		**0.6422**	**0.6422**		**0.5935**	**0.5935**		**3,506.5738**	**3,506.5738**	**1.1079**		**3,534.2703**

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Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	0.0184	0.6508	0.2429	3.0500e-003	0.1089	3.3100e-003	0.1122	0.0314	3.1700e-003	0.0345		329.3289	329.3289	0.0115	0.0474	343.7520
Worker	0.1256	0.0806	1.4146	4.1800e-003	0.5030	2.7800e-003	0.5058	0.1334	2.5600e-003	0.1360		435.3627	435.3627	9.2600e-003	9.0200e-003	438.2823
Total	**0.1441**	**0.7314**	**1.6575**	**7.2300e-003**	**0.6119**	**6.0900e-003**	**0.6180**	**0.1648**	**5.7300e-003**	**0.1705**		**764.6916**	**764.6916**	**0.0208**	**0.0565**	**782.0343**

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	1.6532	15.9557	18.3388	0.0367		0.6422	0.6422		0.5935	0.5935	0.0000	3,506.5738	3,506.5738	1.1079		3,534.2703
Total	**1.6532**	**15.9557**	**18.3388**	**0.0367**		**0.6422**	**0.6422**		**0.5935**	**0.5935**	**0.0000**	**3,506.5738**	**3,506.5738**	**1.1079**		**3,534.2703**

Mitigated Construction Off-Site

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	0.0000
Vendor	0.0184	0.6508	0.2429	3.0500e-003	0.1089	3.3100e-003	0.1122	0.0314	3.1700e-003	0.0345		329.3289	329.3289	0.0115	0.0474	343.7520
Worker	0.1256	0.0806	1.4146	4.1800e-003	0.5030	2.7800e-003	0.5058	0.1334	2.5600e-003	0.1360		435.3627	435.3627	9.2600e-003	9.0200e-003	438.2823
Total	**0.1441**	**0.7314**	**1.6575**	**7.2300e-003**	**0.6119**	**6.0900e-003**	**0.6180**	**0.1648**	**5.7300e-003**	**0.1705**		**764.6916**	**764.6916**	**0.0208**	**0.0565**	**782.0343**

3.4 Stages 2,3,4&5 Building Construction - 2026

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	1.6532	15.9557	18.3388	0.0367		0.6422	0.6422		0.5935	0.5935		3,506.5738	3,506.5738	1.1079		3,534.2703
Total	**1.6532**	**15.9557**	**18.3388**	**0.0367**		**0.6422**	**0.6422**		**0.5935**	**0.5935**		**3,506.5738**	**3,506.5738**	**1.1079**		**3,534.2703**

Unmitigated Construction Off-Site

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	0.0000
Vendor	0.0180	0.6460	0.2394	3.0000e-003	0.1089	3.3000e-003	0.1122	0.0314	3.1600e-003	0.0345		323.2166	323.2166	0.0116	0.0466	337.3869
Worker	0.1182	0.0732	1.3289	4.0500e-003	0.5030	2.6400e-003	0.5056	0.1334	2.4300e-003	0.1358		425.5614	425.5614	8.4000e-003	8.5000e-003	428.3051
Total	**0.1362**	**0.7192**	**1.5683**	**7.0500e-003**	**0.6119**	**5.9400e-003**	**0.6178**	**0.1648**	**5.5900e-003**	**0.1703**		**748.7781**	**748.7781**	**0.0200**	**0.0551**	**765.6919**

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	1.6532	15.9557	18.3388	0.0367		0.6422	0.6422		0.5935	0.5935	0.0000	3,506.5738	3,506.5738	1.1079		3,534.2703
Total	**1.6532**	**15.9557**	**18.3388**	**0.0367**		**0.6422**	**0.6422**		**0.5935**	**0.5935**	**0.0000**	**3,506.5738**	**3,506.5738**	**1.1079**		**3,534.2703**

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	0.0000
Vendor	0.0180	0.6460	0.2394	3.0000e-003	0.1089	3.3000e-003	0.1122	0.0314	3.1600e-003	0.0345		323.2166	323.2166	0.0116	0.0466	337.3869
Worker	0.1182	0.0732	1.3289	4.0500e-003	0.5030	2.6400e-003	0.5056	0.1334	2.4300e-003	0.1358		425.5614	425.5614	8.4000e-003	8.5000e-003	428.3051
Total	**0.1362**	**0.7192**	**1.5683**	**7.0500e-003**	**0.6119**	**5.9400e-003**	**0.6178**	**0.1648**	**5.5900e-003**	**0.1703**		**748.7781**	**748.7781**	**0.0200**	**0.0551**	**765.6919**

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Stages 2,3,4&5 Painting - 2026

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	26.8716					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**27.0425**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

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	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
Worker	0.0236	0.0146	0.2658	8.1000e-004	0.1006	5.3000e-004	0.1011	0.0267	4.9000e-004	0.0272		85.1123	85.1123	1.6800e-003	1.7000e-003	85.6610
Total	**0.0236**	**0.0146**	**0.2658**	**8.1000e-004**	**0.1006**	**5.3000e-004**	**0.1011**	**0.0267**	**4.9000e-004**	**0.0272**		**85.1123**	**85.1123**	**1.6800e-003**	**1.7000e-003**	**85.6610**

Mitigated Construction On-Site

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	26.8716					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**27.0425**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

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	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
Worker	0.0236	0.0146	0.2658	8.1000e-004	0.1006	5.3000e-004	0.1011	0.0267	4.9000e-004	0.0272		85.1123	85.1123	1.6800e-003	1.7000e-003	85.6610
Total	**0.0236**	**0.0146**	**0.2658**	**8.1000e-004**	**0.1006**	**5.3000e-004**	**0.1011**	**0.0267**	**4.9000e-004**	**0.0272**		**85.1123**	**85.1123**	**1.6800e-003**	**1.7000e-003**	**85.6610**

3.6 Stage 6 Removal of Interim Housing - 2026

Unmitigated Construction On-Site

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Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.5944	15.5875	18.0305	0.0360		0.6279	0.6279		0.5792	0.5792		3,456.0575	3,456.0575	1.1026		3,483.6228
Total	**1.5944**	**15.5875**	**18.0305**	**0.0360**	**0.5303**	**0.6279**	**1.1581**	**0.0573**	**0.5792**	**0.6365**		**3,456.0575**	**3,456.0575**	**1.1026**		**3,483.6228**

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	7.9000e-004	0.0479	0.0135	2.1000e-004	6.5100e-003	3.1000e-004	6.8200e-003	1.7900e-003	2.9000e-004	2.0800e-003		22.7099	22.7099	1.3600e-003	3.6100e-003	23.8199
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
Worker	0.0604	0.0374	0.6792	2.0700e-003	0.2571	1.3500e-003	0.2584	0.0682	1.2400e-003	0.0694		217.5092	217.5092	4.2900e-003	4.3500e-003	218.9115
Total	**0.0612**	**0.0853**	**0.6927**	**2.2800e-003**	**0.2636**	**1.6600e-003**	**0.2653**	**0.0700**	**1.5300e-003**	**0.0715**		**240.2191**	**240.2191**	**5.6500e-003**	**7.9600e-003**	**242.7313**

Mitigated Construction On-Site

Date: 1/1/2023 2:17 PM

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	1.5944	15.5875	18.0305	0.0360		0.6279	0.6279		0.5792	0.5792	0.0000	3,456.0575	3,456.0575	1.1026		3,483.6228
Total	**1.5944**	**15.5875**	**18.0305**	**0.0360**	**0.2068**	**0.6279**	**0.8347**	**0.0223**	**0.5792**	**0.6016**	**0.0000**	**3,456.0575**	**3,456.0575**	**1.1026**		**3,483.6228**

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	7.9000e-004	0.0479	0.0135	2.1000e-004	6.5100e-003	3.1000e-004	6.8200e-003	1.7900e-003	2.9000e-004	2.0800e-003		22.7099	22.7099	1.3600e-003	3.6100e-003	23.8199
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
Worker	0.0604	0.0374	0.6792	2.0700e-003	0.2571	1.3500e-003	0.2584	0.0682	1.2400e-003	0.0694		217.5092	217.5092	4.2900e-003	4.3500e-003	218.9115
Total	**0.0612**	**0.0853**	**0.6927**	**2.2800e-003**	**0.2636**	**1.6600e-003**	**0.2653**	**0.0700**	**1.5300e-003**	**0.0715**		**240.2191**	**240.2191**	**5.6500e-003**	**7.9600e-003**	**242.7313**

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Paradise Canyon Elementary School Modernization

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	62.47	1000sqft	3.43	62,466.00	0
Other Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total Campus 8.85 acres, approx 1/2 of campus will be disturbed or 4.43 acres. Interim Building 16,800 sq ft + New Building 27,600 + Modernization 18,066 sq ft = 62,466 sq ft

Construction Phase - Construction Schedule Provided by Applicant. Architectural Coating will occur concurrently with last month of Building Construction

Off-road Equipment - 1 450 Hp Crane, 1 Excavator, 1 Grader, 1 Roller, 2 Plate Compactors & 3 Tractor-Loader-Backhoes

Off-road Equipment - 1 450 HP Crane, 1 Excavator, 1 Grader, 1 Roller, 2 Plate Compactors, 3 Tractor-Loader-Backhoe

Off-road Equipment - 1 Concrete Saw, 1 Excavator, 3 Tractor-Loader-Backhoe

Off-road Equipment - 1 Cement Mixer, 1 450 Hp Crane, 1 Excavator, 1 Grader, 1 Roller, 2 Plate Compactor, 3 Tractor-Loader-Backhoes

Off-road Equipment - 1 Air Compressor

Trips and VMT - 32 haul truck trips added to Stages 1 & 6 to account for 16 interim portables delivery and removal

Demolition - Demolition of 20,000 sq ft of Building Space

Grading - Stage 1 - Export of 4,640 cu yds of dirt

Construction Off-road Equipment Mitigation - Water Exposed Area 3x per day selected to account for SCAQMD Rule 403 Minimum requirements

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	18.00	22.00
tblConstructionPhase	NumDays	230.00	566.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	8.00	86.00
tblConstructionPhase	NumDays	5.00	65.00
tblGrading	MaterialExported	0.00	4,640.00
tblLandUse	LandUseSquareFeet	62,470.00	62,466.00
tblLandUse	LotAcreage	1.43	3.43
tblOffRoadEquipment	HorsePower	231.00	450.00
tblOffRoadEquipment	HorsePower	231.00	450.00
tblOffRoadEquipment	HorsePower	231.00	450.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	580.00	612.00
tblTripsAndVMT	HaulingTripNumber	0.00	32.00

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					
2023	2.0365	20.0391	20.6118	0.0441	0.9602	0.8165	1.7654	0.1719	0.7540	0.9187	0.0000	4,282.1499	4,282.1499	1.1417	0.1019	4,341.0468
2024	1.9449	18.5666	20.3075	0.0439	0.6119	0.7457	1.3576	0.1648	0.6889	0.8536	0.0000	4,264.9514	4,264.9514	1.1296	0.0587	4,310.6853

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2025	1.8068	16.7261	19.8919	0.0437	0.6119	0.6483	1.2602	0.1648	0.5993	0.7640	0.0000	4,248.9773	4,248.9773	1.1288	0.0572	4,294.2372
2026	28.8668	17.8746	21.8641	0.0473	0.7939	0.7002	1.4234	0.1914	0.6511	0.8426	0.0000	4,595.7102	4,595.7102	1.1450	0.0576	4,641.4964
Maximum	**28.8668**	**20.0391**	**21.8641**	**0.0473**	**0.9602**	**0.8165**	**1.7654**	**0.1914**	**0.7540**	**0.9187**	**0.0000**	**4,595.7102**	**4,595.7102**	**1.1450**	**0.1019**	**4,641.4964**

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					
2023	2.0365	20.0391	20.6118	0.0441	0.6319	0.8165	1.4370	0.1648	0.7540	0.9187	0.0000	4,282.1499	4,282.1499	1.1417	0.1019	4,341.0468
2024	1.9449	18.5666	20.3075	0.0439	0.6119	0.7457	1.3576	0.1648	0.6889	0.8536	0.0000	4,264.9514	4,264.9514	1.1296	0.0587	4,310.6853
2025	1.8068	16.7261	19.8919	0.0437	0.6119	0.6483	1.2602	0.1648	0.5993	0.7640	0.0000	4,248.9773	4,248.9773	1.1288	0.0572	4,294.2372
2026	28.8668	17.8746	21.8641	0.0473	0.7125	0.7002	1.4127	0.1914	0.6511	0.8426	0.0000	4,595.7102	4,595.7102	1.1450	0.0576	4,641.4964
Maximum	**28.8668**	**20.0391**	**21.8641**	**0.0473**	**0.7125**	**0.8165**	**1.4370**	**0.1914**	**0.7540**	**0.9187**	**0.0000**	**4,595.7102**	**4,595.7102**	**1.1450**	**0.1019**	**4,641.4964**

	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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**13.76**	**0.00**	**5.84**	**1.02**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

1	Stage 1 Installation of Interim Housing	Site Preparation	7/1/2023	9/30/2023	5	65	
2	Stages 2&3 Demolition	Demolition	10/1/2023	11/30/2023	5	44	
3	Stages 2,3,4&5 Building Construction	Building Construction	12/1/2023	1/31/2026	5	566	
4	Stages 2,3,4&5 Painting	Architectural Coating	1/1/2026	1/31/2026	5	22	
5	Stage 6 Removal of Interim Housing	Grading	2/1/2026	6/1/2026	5	86	

Acres of Grading (Site Preparation Phase): 32.5

Acres of Grading (Grading Phase): 43

Acres of Paving: 1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 93,699; Non-Residential Outdoor: 31,233; Striped Parking Area: 2,614

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Stage 1 Installation of Interim Housing	Cranes	1	8.00	450	0.29
Stage 1 Installation of Interim Housing	Excavators	1	8.00	158	0.38
Stage 1 Installation of Interim Housing	Graders	1	8.00	187	0.41
Stage 1 Installation of Interim Housing	Plate Compactors	2	8.00	8	0.43
Stage 1 Installation of Interim Housing	Rollers	1	8.00	80	0.38
Stage 1 Installation of Interim Housing	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Stages 2&3 Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Stages 2&3 Demolition	Excavators	1	8.00	158	0.38
Stages 2&3 Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Stages 2,3,4&5 Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Stages 2,3,4&5 Building Construction	Cranes	1	8.00	450	0.29
Stages 2,3,4&5 Building Construction	Excavators	1	8.00	158	0.38
Stages 2,3,4&5 Building Construction	Graders	1	8.00	187	0.41
Stages 2,3,4&5 Building Construction	Plate Compactors	2	8.00	8	0.43
Stages 2,3,4&5 Building Construction	Rollers	1	8.00	80	0.38
Stages 2,3,4&5 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Stages 2,3,4&5 Painting	Air Compressors	1	6.00	78	0.48
Stage 6 Removal of Interim Housing	Cranes	1	8.00	450	0.29

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Stage 6 Removal of Interim Housing	Excavators	1	8.00	158	0.38
Stage 6 Removal of Interim Housing	Graders	1	8.00	187	0.41
Stage 6 Removal of Interim Housing	Plate Compactors	2	8.00	8	0.43
Stage 6 Removal of Interim Housing	Rollers	1	8.00	80	0.38
Stage 6 Removal of Interim Housing	Tractors/Loaders/Backhoes	3	8.00	97	0.37

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
Stage 1 Installation of Interim Housing	9	23.00	0.00	612.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Stages 2&3 Demolition	5	13.00	0.00	91.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Stages 2,3,4&5 Building Construction	10	45.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Stages 2,3,4&5 Painting	1	9.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Stage 6 Removal of Interim Housing	9	23.00	0.00	32.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Stage 1 Installation of Interim Housing - 2023

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					0.5383	0.0000	0.5383	0.0585	0.0000	0.0585			0.0000			0.0000
Off-Road	1.8040	18.6996	18.5438	0.0360		0.7958	0.7958		0.7337	0.7337		3,455.8008	3,455.8008	1.1025		3,483.3641
Total	**1.8040**	**18.6996**	**18.5438**	**0.0360**	**0.5383**	**0.7958**	**1.3342**	**0.0585**	**0.7337**	**0.7922**		**3,455.8008**	**3,455.8008**	**1.1025**		**3,483.3641**

Date: 1/1/2023 2:19 PM

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0191	1.2828	0.3324	5.5100e-003	0.1648	7.7700e-003	0.1726	0.0452	7.4300e-003	0.0526		605.7270	605.7270	0.0333	0.0962	635.2239
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
Worker	0.0791	0.0567	0.7661	2.1600e-003	0.2571	1.5500e-003	0.2586	0.0682	1.4300e-003	0.0696		220.6221	220.6221	5.8800e-003	5.6700e-003	222.4588
Total	**0.0982**	**1.3395**	**1.0985**	**7.6700e-003**	**0.4219**	**9.3200e-003**	**0.4312**	**0.1134**	**8.8600e-003**	**0.1222**		**826.3491**	**826.3491**	**0.0392**	**0.1019**	**857.6827**

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					0.2100	0.0000	0.2100	0.0228	0.0000	0.0228			0.0000			0.0000
Off-Road	1.8040	18.6996	18.5438	0.0360		0.7958	0.7958		0.7337	0.7337	0.0000	3,455.8008	3,455.8008	1.1025		3,483.3641
Total	**1.8040**	**18.6996**	**18.5438**	**0.0360**	**0.2100**	**0.7958**	**1.0058**	**0.0228**	**0.7337**	**0.7565**	**0.0000**	**3,455.8008**	**3,455.8008**	**1.1025**		**3,483.3641**

Mitigated Construction Off-Site

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	0.0191	1.2828	0.3324	5.5100e-003	0.1648	7.7700e-003	0.1726	0.0452	7.4300e-003	0.0526		605.7270	605.7270	0.0333	0.0962	635.2239
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
Worker	0.0791	0.0567	0.7661	2.1600e-003	0.2571	1.5500e-003	0.2586	0.0682	1.4300e-003	0.0696		220.6221	220.6221	5.8800e-003	5.6700e-003	222.4588
Total	**0.0982**	**1.3395**	**1.0985**	**7.6700e-003**	**0.4219**	**9.3200e-003**	**0.4312**	**0.1134**	**8.8600e-003**	**0.1222**		**826.3491**	**826.3491**	**0.0392**	**0.1019**	**857.6827**

3.3 Stages 2&3 Demolition - 2023

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					0.4474	0.0000	0.4474	0.0678	0.0000	0.0678			0.0000			0.0000
Off-Road	0.9765	8.7399	13.6091	0.0208		0.4315	0.4315		0.4073	0.4073		1,997.5008	1,997.5008	0.4836		2,009.5896
Total	**0.9765**	**8.7399**	**13.6091**	**0.0208**	**0.4474**	**0.4315**	**0.8790**	**0.0678**	**0.4073**	**0.4750**		**1,997.5008**	**1,997.5008**	**0.4836**		**2,009.5896**

Unmitigated Construction Off-Site

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	4.2000e-003	0.2818	0.0730	1.2100e-003	0.0362	1.7100e-003	0.0379	9.9300e-003	1.6300e-003	0.0116		133.0539	133.0539	7.3100e-003	0.0211	139.5332
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
Worker	0.0447	0.0321	0.4330	1.2200e-003	0.1453	8.8000e-004	0.1462	0.0385	8.1000e-004	0.0393		124.6995	124.6995	3.3200e-003	3.2000e-003	125.7376
Total	**0.0489**	**0.3138**	**0.5060**	**2.4300e-003**	**0.1815**	**2.5900e-003**	**0.1841**	**0.0485**	**2.4400e-003**	**0.0509**		**257.7534**	**257.7534**	**0.0106**	**0.0243**	**265.2708**

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					0.1745	0.0000	0.1745	0.0264	0.0000	0.0264			0.0000			0.0000
Off-Road	0.9765	8.7399	13.6091	0.0208		0.4315	0.4315		0.4073	0.4073	0.0000	1,997.5008	1,997.5008	0.4836		2,009.5896
Total	**0.9765**	**8.7399**	**13.6091**	**0.0208**	**0.1745**	**0.4315**	**0.6060**	**0.0264**	**0.4073**	**0.4337**	**0.0000**	**1,997.5008**	**1,997.5008**	**0.4836**		**2,009.5896**

Mitigated Construction Off-Site

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	4.2000e-003	0.2818	0.0730	1.2100e-003	0.0362	1.7100e-003	0.0379	9.9300e-003	1.6300e-003	0.0116		133.0539	133.0539	7.3100e-003	0.0211	139.5332
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
Worker	0.0447	0.0321	0.4330	1.2200e-003	0.1453	8.8000e-004	0.1462	0.0385	8.1000e-004	0.0393		124.6995	124.6995	3.3200e-003	3.2000e-003	125.7376
Total	**0.0489**	**0.3138**	**0.5060**	**2.4300e-003**	**0.1815**	**2.5900e-003**	**0.1841**	**0.0485**	**2.4400e-003**	**0.0509**		**257.7534**	**257.7534**	**0.0106**	**0.0243**	**265.2708**

3.4 Stages 2,3,4&5 Building Construction - 2023

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	1.8627	19.0678	18.8522	0.0367		0.8101	0.8101		0.7480	0.7480		3,506.3171	3,506.3171	1.1078		3,534.0115
Total	**1.8627**	**19.0678**	**18.8522**	**0.0367**		**0.8101**	**0.8101**		**0.7480**	**0.7480**		**3,506.3171**	**3,506.3171**	**1.1078**		**3,534.0115**

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	0.0000
Vendor	0.0189	0.6832	0.2607	3.1700e-003	0.1089	3.3000e-003	0.1122	0.0314	3.1600e-003	0.0345		341.0545	341.0545	0.0114	0.0491	355.9649
Worker	0.1548	0.1110	1.4989	4.2200e-003	0.5030	3.0400e-003	0.5060	0.1334	2.7900e-003	0.1362		431.6520	431.6520	0.0115	0.0111	435.2455
Total	**0.1737**	**0.7942**	**1.7596**	**7.3900e-003**	**0.6119**	**6.3400e-003**	**0.6182**	**0.1648**	**5.9500e-003**	**0.1707**		**772.7065**	**772.7065**	**0.0229**	**0.0602**	**791.2103**

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Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1.8627	19.0678	18.8522	0.0367		0.8101	0.8101		0.7480	0.7480	0.0000	3,506.3171	3,506.3171	1.1078		3,534.0115
Total	**1.8627**	**19.0678**	**18.8522**	**0.0367**		**0.8101**	**0.8101**		**0.7480**	**0.7480**	**0.0000**	**3,506.3171**	**3,506.3171**	**1.1078**		**3,534.0115**

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	0.0000
Vendor	0.0189	0.6832	0.2607	3.1700e-003	0.1089	3.3000e-003	0.1122	0.0314	3.1600e-003	0.0345		341.0545	341.0545	0.0114	0.0491	355.9649
Worker	0.1548	0.1110	1.4989	4.2200e-003	0.5030	3.0400e-003	0.5060	0.1334	2.7900e-003	0.1362		431.6520	431.6520	0.0115	0.0111	435.2455
Total	**0.1737**	**0.7942**	**1.7596**	**7.3900e-003**	**0.6119**	**6.3400e-003**	**0.6182**	**0.1648**	**5.9500e-003**	**0.1707**		**772.7065**	**772.7065**	**0.0229**	**0.0602**	**791.2103**

3.4 Stages 2,3,4&5 Building Construction - 2024

Unmitigated Construction On-Site

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Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	1.7818	17.7830	18.6559	0.0367		0.7395	0.7395		0.6830	0.6830		3,506.2141	3,506.2141	1.1077		3,533.9077
Total	**1.7818**	**17.7830**	**18.6559**	**0.0367**		**0.7395**	**0.7395**		**0.6830**	**0.6830**		**3,506.2141**	**3,506.2141**	**1.1077**		**3,533.9077**

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	0.0000
Vendor	0.0183	0.6846	0.2553	3.1200e-003	0.1089	3.3200e-003	0.1122	0.0314	3.1800e-003	0.0345		335.9444	335.9444	0.0114	0.0484	350.6509
Worker	0.1448	0.0991	1.3964	4.1000e-003	0.5030	2.9100e-003	0.5059	0.1334	2.6800e-003	0.1361		422.7929	422.7929	0.0104	0.0103	426.1267
Total	**0.1631**	**0.7837**	**1.6516**	**7.2200e-003**	**0.6119**	**6.2300e-003**	**0.6181**	**0.1648**	**5.8600e-003**	**0.1706**		**758.7373**	**758.7373**	**0.0218**	**0.0587**	**776.7776**

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	1.7818	17.7830	18.6559	0.0367		0.7395	0.7395		0.6830	0.6830	0.0000	3,506.2141	3,506.2141	1.1077		3,533.9077
Total	**1.7818**	**17.7830**	**18.6559**	**0.0367**		**0.7395**	**0.7395**		**0.6830**	**0.6830**	**0.0000**	**3,506.2141**	**3,506.2141**	**1.1077**		**3,533.9077**

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0000
Vendor	0.0183	0.6846	0.2553	3.1200e-003	0.1089	3.3200e-003	0.1122	0.0314	3.1800e-003	0.0345		335.9444	335.9444	0.0114	0.0484	350.6509
Worker	0.1448	0.0991	1.3964	4.1000e-003	0.5030	2.9100e-003	0.5059	0.1334	2.6800e-003	0.1361		422.7929	422.7929	0.0104	0.0103	426.1267
Total	**0.1631**	**0.7837**	**1.6516**	**7.2200e-003**	**0.6119**	**6.2300e-003**	**0.6181**	**0.1648**	**5.8600e-003**	**0.1706**		**758.7373**	**758.7373**	**0.0218**	**0.0587**	**776.7776**

3.4 Stages 2,3,4&5 Building Construction - 2025

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	1.6532	15.9557	18.3388	0.0367		0.6422	0.6422		0.5935	0.5935		3,506.5738	3,506.5738	1.1079		3,534.2703
Total	**1.6532**	**15.9557**	**18.3388**	**0.0367**		**0.6422**	**0.6422**		**0.5935**	**0.5935**		**3,506.5738**	**3,506.5738**	**1.1079**		**3,534.2703**

Unmitigated Construction Off-Site

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Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	0.0000
Vendor	0.0177	0.6814	0.2506	3.0600e-003	0.1089	3.3300e-003	0.1122	0.0314	3.1900e-003	0.0345		329.9062	329.9062	0.0115	0.0476	344.3648
Worker	0.1359	0.0890	1.3024	3.9600e-003	0.5030	2.7800e-003	0.5058	0.1334	2.5600e-003	0.1360		412.4973	412.4973	9.4100e-003	9.6300e-003	415.6021
Total	**0.1536**	**0.7704**	**1.5530**	**7.0200e-003**	**0.6119**	**6.1100e-003**	**0.6180**	**0.1648**	**5.7500e-003**	**0.1705**		**742.4035**	**742.4035**	**0.0209**	**0.0572**	**759.9669**

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	1.6532	15.9557	18.3388	0.0367		0.6422	0.6422		0.5935	0.5935	0.0000	3,506.5738	3,506.5738	1.1079		3,534.2703
Total	**1.6532**	**15.9557**	**18.3388**	**0.0367**		**0.6422**	**0.6422**		**0.5935**	**0.5935**	**0.0000**	**3,506.5738**	**3,506.5738**	**1.1079**		**3,534.2703**

Mitigated Construction Off-Site

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	0.0000
Vendor	0.0177	0.6814	0.2506	3.0600e-003	0.1089	3.3300e-003	0.1122	0.0314	3.1900e-003	0.0345		329.9062	329.9062	0.0115	0.0476	344.3648
Worker	0.1359	0.0890	1.3024	3.9600e-003	0.5030	2.7800e-003	0.5058	0.1334	2.5600e-003	0.1360		412.4973	412.4973	9.4100e-003	9.6300e-003	415.6021
Total	**0.1536**	**0.7704**	**1.5530**	**7.0200e-003**	**0.6119**	**6.1100e-003**	**0.6180**	**0.1648**	**5.7500e-003**	**0.1705**		**742.4035**	**742.4035**	**0.0209**	**0.0572**	**759.9669**

3.4 Stages 2,3,4&5 Building Construction - 2026

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	1.6532	15.9557	18.3388	0.0367		0.6422	0.6422		0.5935	0.5935		3,506.5738	3,506.5738	1.1079		3,534.2703
Total	**1.6532**	**15.9557**	**18.3388**	**0.0367**		**0.6422**	**0.6422**		**0.5935**	**0.5935**		**3,506.5738**	**3,506.5738**	**1.1079**		**3,534.2703**

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	0.0000
Vendor	0.0172	0.6765	0.2471	3.0000e-003	0.1089	3.3200e-003	0.1122	0.0314	3.1800e-003	0.0345		323.7923	323.7923	0.0116	0.0467	337.9972
Worker	0.1283	0.0808	1.2242	3.8400e-003	0.5030	2.6400e-003	0.5056	0.1334	2.4300e-003	0.1358		403.2467	403.2467	8.5500e-003	9.0700e-003	406.1642
Total	**0.1455**	**0.7573**	**1.4713**	**6.8400e-003**	**0.6119**	**5.9600e-003**	**0.6179**	**0.1648**	**5.6100e-003**	**0.1704**		**727.0390**	**727.0390**	**0.0201**	**0.0558**	**744.1614**

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Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1.6532	15.9557	18.3388	0.0367		0.6422	0.6422		0.5935	0.5935	0.0000	3,506.5738	3,506.5738	1.1079		3,534.2703
Total	**1.6532**	**15.9557**	**18.3388**	**0.0367**		**0.6422**	**0.6422**		**0.5935**	**0.5935**	**0.0000**	**3,506.5738**	**3,506.5738**	**1.1079**		**3,534.2703**

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	0.0000
Vendor	0.0172	0.6765	0.2471	3.0000e-003	0.1089	3.3200e-003	0.1122	0.0314	3.1800e-003	0.0345		323.7923	323.7923	0.0116	0.0467	337.9972
Worker	0.1283	0.0808	1.2242	3.8400e-003	0.5030	2.6400e-003	0.5056	0.1334	2.4300e-003	0.1358		403.2467	403.2467	8.5500e-003	9.0700e-003	406.1642
Total	**0.1455**	**0.7573**	**1.4713**	**6.8400e-003**	**0.6119**	**5.9600e-003**	**0.6179**	**0.1648**	**5.6100e-003**	**0.1704**		**727.0390**	**727.0390**	**0.0201**	**0.0558**	**744.1614**

3.5 Stages 2,3,4&5 Painting - 2026

Unmitigated Construction On-Site

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Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	26.8716					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**27.0425**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

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	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
Worker	0.0257	0.0162	0.2448	7.7000e-004	0.1006	5.3000e-004	0.1011	0.0267	4.9000e-004	0.0272		80.6494	80.6494	1.7100e-003	1.8100e-003	81.2328
Total	**0.0257**	**0.0162**	**0.2448**	**7.7000e-004**	**0.1006**	**5.3000e-004**	**0.1011**	**0.0267**	**4.9000e-004**	**0.0272**		**80.6494**	**80.6494**	**1.7100e-003**	**1.8100e-003**	**81.2328**

Mitigated Construction On-Site

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	26.8716					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**27.0425**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

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	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
Worker	0.0257	0.0162	0.2448	7.7000e-004	0.1006	5.3000e-004	0.1011	0.0267	4.9000e-004	0.0272		80.6494	80.6494	1.7100e-003	1.8100e-003	81.2328
Total	**0.0257**	**0.0162**	**0.2448**	**7.7000e-004**	**0.1006**	**5.3000e-004**	**0.1011**	**0.0267**	**4.9000e-004**	**0.0272**		**80.6494**	**80.6494**	**1.7100e-003**	**1.8100e-003**	**81.2328**

3.6 Stage 6 Removal of Interim Housing - 2026

Unmitigated Construction On-Site

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.5944	15.5875	18.0305	0.0360		0.6279	0.6279		0.5792	0.5792		3,456.0575	3,456.0575	1.1026		3,483.6228
Total	**1.5944**	**15.5875**	**18.0305**	**0.0360**	**0.5303**	**0.6279**	**1.1581**	**0.0573**	**0.5792**	**0.6365**		**3,456.0575**	**3,456.0575**	**1.1026**		**3,483.6228**

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	7.3000e-004	0.0500	0.0137	2.1000e-004	6.5100e-003	3.1000e-004	6.8200e-003	1.7900e-003	3.0000e-004	2.0800e-003		22.7348	22.7348	1.3600e-003	3.6100e-003	23.8459
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
Worker	0.0656	0.0413	0.6257	1.9600e-003	0.2571	1.3500e-003	0.2584	0.0682	1.2400e-003	0.0694		206.1039	206.1039	4.3700e-003	4.6400e-003	207.5950
Total	**0.0663**	**0.0913**	**0.6394**	**2.1700e-003**	**0.2636**	**1.6600e-003**	**0.2653**	**0.0700**	**1.5400e-003**	**0.0715**		**228.8387**	**228.8387**	**5.7300e-003**	**8.2500e-003**	**231.4409**

Mitigated Construction On-Site

Date: 1/1/2023 2:19 PM

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	1.5944	15.5875	18.0305	0.0360		0.6279	0.6279		0.5792	0.5792	0.0000	3,456.0575	3,456.0575	1.1026		3,483.6228
Total	**1.5944**	**15.5875**	**18.0305**	**0.0360**	**0.2068**	**0.6279**	**0.8347**	**0.0223**	**0.5792**	**0.6016**	**0.0000**	**3,456.0575**	**3,456.0575**	**1.1026**		**3,483.6228**

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	7.3000e-004	0.0500	0.0137	2.1000e-004	6.5100e-003	3.1000e-004	6.8200e-003	1.7900e-003	3.0000e-004	2.0800e-003		22.7348	22.7348	1.3600e-003	3.6100e-003	23.8459
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
Worker	0.0656	0.0413	0.6257	1.9600e-003	0.2571	1.3500e-003	0.2584	0.0682	1.2400e-003	0.0694		206.1039	206.1039	4.3700e-003	4.6400e-003	207.5950
Total	**0.0663**	**0.0913**	**0.6394**	**2.1700e-003**	**0.2636**	**1.6600e-003**	**0.2653**	**0.0700**	**1.5400e-003**	**0.0715**		**228.8387**	**228.8387**	**5.7300e-003**	**8.2500e-003**	**231.4409**

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Paradise Canyon Elementary School Modernization

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	62.47	1000sqft	3.43	62,466.00	0
Other Asphalt Surfaces	1.00	Acre	1.00	43,560.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2026
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total Campus 8.85 acres, approx 1/2 of campus will be disturbed or 4.43 acres. Interim Building 16,800 sq ft + New Building 27,600 + Modernization 18,066 sq ft = 62,466 sq ft

Construction Phase - Construction Schedule Provided by Applicant. Architectural Coating will occur concurrently with last month of Building Construction

Off-road Equipment - 1 450 Hp Crane, 1 Excavator, 1 Grader, 1 Roller, 2 Plate Compactors & 3 Tractor-Loader-Backhoes

Off-road Equipment - 1 450 HP Crane, 1 Excavator, 1 Grader, 1 Roller, 2 Plate Compactors, 3 Tractor-Loader-Backhoe

Off-road Equipment - 1 Concrete Saw, 1 Excavator, 3 Tractor-Loader-Backhoe

Off-road Equipment - 1 Cement Mixer, 1 450 Hp Crane, 1 Excavator, 1 Grader, 1 Roller, 2 Plate Compactor, 3 Tractor-Loader-Backhoes

Off-road Equipment - 1 Air Compressor

Trips and VMT - 32 haul truck trips added to Stages 1 & 6 to account for 16 interim portables delivery and removal

Demolition - Demolition of 20,000 sq ft of Building Space

Grading - Stage 1 - Export of 4,640 cu yds of dirt

Construction Off-road Equipment Mitigation - Water Exposed Area 3x per day selected to account for SCAQMD Rule 403 Minimum requirements

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	18.00	22.00
tblConstructionPhase	NumDays	230.00	566.00
tblConstructionPhase	NumDays	20.00	44.00
tblConstructionPhase	NumDays	8.00	86.00
tblConstructionPhase	NumDays	5.00	65.00
tblGrading	MaterialExported	0.00	4,640.00
tblLandUse	LandUseSquareFeet	62,470.00	62,466.00
tblLandUse	LotAcreage	1.43	3.43
tblOffRoadEquipment	HorsePower	231.00	450.00
tblOffRoadEquipment	HorsePower	231.00	450.00
tblOffRoadEquipment	HorsePower	231.00	450.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblTripsAndVMT	HaulingTripNumber	580.00	612.00
tblTripsAndVMT	HaulingTripNumber	0.00	32.00

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					
2023	0.1054	1.0596	1.1665	2.3900e-003	0.0510	0.0443	0.0953	9.7600e-003	0.0411	0.0508	0.0000	212.2027	212.2027	0.0543	4.0600e-003	214.7714
2024	0.2533	2.4328	2.6644	5.7600e-003	0.0786	0.0977	0.1763	0.0212	0.0902	0.1115	0.0000	507.5605	507.5605	0.1342	6.9900e-003	512.9995

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2025	0.2344	2.1832	2.5996	5.7100e-003	0.0783	0.0846	0.1629	0.0211	0.0782	0.0993	0.0000	503.7123	503.7123	0.1336	6.7800e-003	509.0740
2026	0.3886	0.8709	1.0443	2.1600e-003	0.0416	0.0348	0.0764	7.4800e-003	0.0321	0.0396	0.0000	189.7916	189.7916	0.0547	9.0000e-004	191.4265
Maximum	**0.3886**	**2.4328**	**2.6644**	**5.7600e-003**	**0.0786**	**0.0977**	**0.1763**	**0.0212**	**0.0902**	**0.1115**	**0.0000**	**507.5605**	**507.5605**	**0.1342**	**6.9900e-003**	**512.9995**

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					
2023	0.1054	1.0596	1.1665	2.3900e-003	0.0343	0.0443	0.0786	7.6900e-003	0.0411	0.0488	0.0000	212.2025	212.2025	0.0543	4.0600e-003	214.7712
2024	0.2533	2.4328	2.6644	5.7600e-003	0.0786	0.0977	0.1763	0.0212	0.0902	0.1115	0.0000	507.5600	507.5600	0.1342	6.9900e-003	512.9990
2025	0.2344	2.1832	2.5996	5.7100e-003	0.0783	0.0846	0.1629	0.0211	0.0782	0.0993	0.0000	503.7118	503.7118	0.1336	6.7800e-003	509.0735
2026	0.3886	0.8709	1.0443	2.1600e-003	0.0277	0.0348	0.0625	5.9800e-003	0.0321	0.0381	0.0000	189.7914	189.7914	0.0547	9.0000e-004	191.4263
Maximum	**0.3886**	**2.4328**	**2.6644**	**5.7600e-003**	**0.0786**	**0.0977**	**0.1763**	**0.0212**	**0.0902**	**0.1115**	**0.0000**	**507.5600**	**507.5600**	**0.1342**	**6.9900e-003**	**512.9990**

	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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**12.25**	**0.00**	**5.99**	**5.99**	**0.00**	**1.18**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2023	9-30-2023	0.7188	0.7188
2	10-1-2023	12-31-2023	0.4620	0.4620
3	1-1-2024	3-31-2024	0.6666	0.6666
4	4-1-2024	6-30-2024	0.6650	0.6650

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5	**7-1-2024**	**9-30-2024**	0.6723	0.6723
6	**10-1-2024**	**12-31-2024**	0.6739	0.6739
7	**1-1-2025**	**3-31-2025**	0.5957	0.5957
8	**4-1-2025**	**6-30-2025**	0.6007	0.6007
9	**7-1-2025**	**9-30-2025**	0.6073	0.6073
10	**10-1-2025**	**12-31-2025**	0.6089	0.6089
11	**1-1-2026**	**3-31-2026**	0.8829	0.8829
12	**4-1-2026**	**6-30-2026**	0.3837	0.3837
		Highest	0.8829	0.8829

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Stage 1 Installation of Interim Housing	Site Preparation	7/1/2023	9/30/2023	5	65	
2	Stages 2&3 Demolition	Demolition	10/1/2023	11/30/2023	5	44	
3	Stages 2,3,4&5 Building Construction	Building Construction	12/1/2023	1/31/2026	5	566	
4	Stages 2,3,4&5 Painting	Architectural Coating	1/1/2026	1/31/2026	5	22	
5	Stage 6 Removal of Interim Housing	Grading	2/1/2026	6/1/2026	5	86	

Acres of Grading (Site Preparation Phase): 32.5

Acres of Grading (Grading Phase): 43

Acres of Paving: 1

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 93,699; Non-Residential Outdoor: 31,233; Striped Parking Area: 2,614

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Stage 1 Installation of Interim Housing	Cranes	1	8.00	450	0.29
Stage 1 Installation of Interim Housing	Excavators	1	8.00	158	0.38
Stage 1 Installation of Interim Housing	Graders	1	8.00	187	0.41

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Stage 1 Installation of Interim Housing	Plate Compactors	2	8.00	8	0.43
Stage 1 Installation of Interim Housing	Rollers	1	8.00	80	0.38
Stage 1 Installation of Interim Housing	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Stages 2&3 Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Stages 2&3 Demolition	Excavators	1	8.00	158	0.38
Stages 2&3 Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Stages 2,3,4&5 Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Stages 2,3,4&5 Building Construction	Cranes	1	8.00	450	0.29
Stages 2,3,4&5 Building Construction	Excavators	1	8.00	158	0.38
Stages 2,3,4&5 Building Construction	Graders	1	8.00	187	0.41
Stages 2,3,4&5 Building Construction	Plate Compactors	2	8.00	8	0.43
Stages 2,3,4&5 Building Construction	Rollers	1	8.00	80	0.38
Stages 2,3,4&5 Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Stages 2,3,4&5 Painting	Air Compressors	1	6.00	78	0.48
Stage 6 Removal of Interim Housing	Cranes	1	8.00	450	0.29
Stage 6 Removal of Interim Housing	Excavators	1	8.00	158	0.38
Stage 6 Removal of Interim Housing	Graders	1	8.00	187	0.41
Stage 6 Removal of Interim Housing	Plate Compactors	2	8.00	8	0.43
Stage 6 Removal of Interim Housing	Rollers	1	8.00	80	0.38
Stage 6 Removal of Interim Housing	Tractors/Loaders/Backhoes	3	8.00	97	0.37

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
Stage 1 Installation of Interim Housing	9	23.00	0.00	612.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Stages 2&3 Demolition	5	13.00	0.00	91.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Stages 2,3,4&5 Building Construction	10	45.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Stages 2,3,4&5 Painting	1	9.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Stage 6 Removal of Interim Housing	9	23.00	0.00	32.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Water Exposed Area

3.2 Stage 1 Installation of Interim Housing - 2023

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					0.0175	0.0000	0.0175	1.9000e-003	0.0000	1.9000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0586	0.6077	0.6027	1.1700e-003		0.0259	0.0259		0.0239	0.0239	0.0000	101.8891	101.8891	0.0325	0.0000	102.7018
Total	**0.0586**	**0.6077**	**0.6027**	**1.1700e-003**	**0.0175**	**0.0259**	**0.0434**	**1.9000e-003**	**0.0239**	**0.0258**	**0.0000**	**101.8891**	**101.8891**	**0.0325**	**0.0000**	**102.7018**

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	6.5000e-004	0.0421	0.0107	1.8000e-004	5.2600e-003	2.5000e-004	5.5200e-003	1.4500e-003	2.4000e-004	1.6900e-003	0.0000	17.8480	17.8480	9.8000e-004	2.8300e-003	18.7172
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	2.3700e-003	1.8800e-003	0.0255	7.0000e-005	8.1900e-003	5.0000e-005	8.2400e-003	2.1800e-003	5.0000e-005	2.2200e-003	0.0000	6.6017	6.6017	1.7000e-004	1.7000e-004	6.6567
Total	**3.0200e-003**	**0.0440**	**0.0363**	**2.5000e-004**	**0.0135**	**3.0000e-004**	**0.0138**	**3.6300e-003**	**2.9000e-004**	**3.9100e-003**	**0.0000**	**24.4498**	**24.4498**	**1.1500e-003**	**3.0000e-003**	**25.3739**

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					6.8200e-003	0.0000	6.8200e-003	7.4000e-004	0.0000	7.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0586	0.6077	0.6027	1.1700e-003		0.0259	0.0259		0.0239	0.0239	0.0000	101.8890	101.8890	0.0325	0.0000	102.7017
Total	**0.0586**	**0.6077**	**0.6027**	**1.1700e-003**	**6.8200e-003**	**0.0259**	**0.0327**	**7.4000e-004**	**0.0239**	**0.0246**	**0.0000**	**101.8890**	**101.8890**	**0.0325**	**0.0000**	**102.7017**

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	6.5000e-004	0.0421	0.0107	1.8000e-004	5.2600e-003	2.5000e-004	5.5200e-003	1.4500e-003	2.4000e-004	1.6900e-003	0.0000	17.8480	17.8480	9.8000e-004	2.8300e-003	18.7172
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	2.3700e-003	1.8800e-003	0.0255	7.0000e-005	8.1900e-003	5.0000e-005	8.2400e-003	2.1800e-003	5.0000e-005	2.2200e-003	0.0000	6.6017	6.6017	1.7000e-004	1.7000e-004	6.6567
Total	**3.0200e-003**	**0.0440**	**0.0363**	**2.5000e-004**	**0.0135**	**3.0000e-004**	**0.0138**	**3.6300e-003**	**2.9000e-004**	**3.9100e-003**	**0.0000**	**24.4498**	**24.4498**	**1.1500e-003**	**3.0000e-003**	**25.3739**

3.3 Stages 2&3 Demolition - 2023

Unmitigated Construction On-Site

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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					9.8400e-003	0.0000	9.8400e-003	1.4900e-003	0.0000	1.4900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0215	0.1923	0.2994	4.6000e-004		9.4900e-003	9.4900e-003		8.9600e-003	8.9600e-003	0.0000	39.8663	39.8663	9.6500e-003	0.0000	40.1075
Total	**0.0215**	**0.1923**	**0.2994**	**4.6000e-004**	**9.8400e-003**	**9.4900e-003**	**0.0193**	**1.4900e-003**	**8.9600e-003**	**0.0105**	**0.0000**	**39.8663**	**39.8663**	**9.6500e-003**	**0.0000**	**40.1075**

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	1.0000e-004	6.2600e-003	1.5900e-003	3.0000e-005	7.8000e-004	4.0000e-005	8.2000e-004	2.2000e-004	4.0000e-005	2.5000e-004	0.0000	2.6539	2.6539	1.5000e-004	4.2000e-004	2.7831
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	9.1000e-004	7.2000e-004	9.7700e-003	3.0000e-005	3.1300e-003	2.0000e-005	3.1500e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.5259	2.5259	7.0000e-005	6.0000e-005	2.5469
Total	**1.0100e-003**	**6.9800e-003**	**0.0114**	**6.0000e-005**	**3.9100e-003**	**6.0000e-005**	**3.9700e-003**	**1.0500e-003**	**6.0000e-005**	**1.1000e-003**	**0.0000**	**5.1798**	**5.1798**	**2.2000e-004**	**4.8000e-004**	**5.3300**

Mitigated Construction On-Site

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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					3.8400e-003	0.0000	3.8400e-003	5.8000e-004	0.0000	5.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0215	0.1923	0.2994	4.6000e-004		9.4900e-003	9.4900e-003		8.9600e-003	8.9600e-003	0.0000	39.8662	39.8662	9.6500e-003	0.0000	40.1075
Total	**0.0215**	**0.1923**	**0.2994**	**4.6000e-004**	**3.8400e-003**	**9.4900e-003**	**0.0133**	**5.8000e-004**	**8.9600e-003**	**9.5400e-003**	**0.0000**	**39.8662**	**39.8662**	**9.6500e-003**	**0.0000**	**40.1075**

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	1.0000e-004	6.2600e-003	1.5900e-003	3.0000e-005	7.8000e-004	4.0000e-005	8.2000e-004	2.2000e-004	4.0000e-005	2.5000e-004	0.0000	2.6539	2.6539	1.5000e-004	4.2000e-004	2.7831
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	9.1000e-004	7.2000e-004	9.7700e-003	3.0000e-005	3.1300e-003	2.0000e-005	3.1500e-003	8.3000e-004	2.0000e-005	8.5000e-004	0.0000	2.5259	2.5259	7.0000e-005	6.0000e-005	2.5469
Total	**1.0100e-003**	**6.9800e-003**	**0.0114**	**6.0000e-005**	**3.9100e-003**	**6.0000e-005**	**3.9700e-003**	**1.0500e-003**	**6.0000e-005**	**1.1000e-003**	**0.0000**	**5.1798**	**5.1798**	**2.2000e-004**	**4.8000e-004**	**5.3300**

3.4 Stages 2,3,4&5 Building Construction - 2023

Unmitigated Construction On-Site

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	0.0196	0.2002	0.1980	3.8000e-004		8.5100e-003	8.5100e-003		7.8500e-003	7.8500e-003	0.0000	33.3992	33.3992	0.0106	0.0000	33.6630
Total	**0.0196**	**0.2002**	**0.1980**	**3.8000e-004**		**8.5100e-003**	**8.5100e-003**		**7.8500e-003**	**7.8500e-003**	**0.0000**	**33.3992**	**33.3992**	**0.0106**	**0.0000**	**33.6630**

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
Vendor	2.0000e-004	7.1900e-003	2.6900e-003	3.0000e-005	1.1200e-003	3.0000e-005	1.1600e-003	3.2000e-004	3.0000e-005	3.6000e-004	0.0000	3.2455	3.2455	1.1000e-004	4.7000e-004	3.3874
Worker	1.5000e-003	1.1900e-003	0.0161	4.0000e-005	5.1800e-003	3.0000e-005	5.2100e-003	1.3800e-003	3.0000e-005	1.4000e-003	0.0000	4.1730	4.1730	1.1000e-004	1.1000e-004	4.2077
Total	**1.7000e-003**	**8.3800e-003**	**0.0188**	**7.0000e-005**	**6.3000e-003**	**6.0000e-005**	**6.3700e-003**	**1.7000e-003**	**6.0000e-005**	**1.7600e-003**	**0.0000**	**7.4185**	**7.4185**	**2.2000e-004**	**5.8000e-004**	**7.5952**

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	0.0196	0.2002	0.1980	3.8000e-004		8.5100e-003	8.5100e-003		7.8500e-003	7.8500e-003	0.0000	33.3992	33.3992	0.0106	0.0000	33.6630
Total	**0.0196**	**0.2002**	**0.1980**	**3.8000e-004**		**8.5100e-003**	**8.5100e-003**		**7.8500e-003**	**7.8500e-003**	**0.0000**	**33.3992**	**33.3992**	**0.0106**	**0.0000**	**33.6630**

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	2.0000e-004	7.1900e-003	2.6900e-003	3.0000e-005	1.1200e-003	3.0000e-005	1.1600e-003	3.2000e-004	3.0000e-005	3.6000e-004	0.0000	3.2455	3.2455	1.1000e-004	4.7000e-004	3.3874
Worker	1.5000e-003	1.1900e-003	0.0161	4.0000e-005	5.1800e-003	3.0000e-005	5.2100e-003	1.3800e-003	3.0000e-005	1.4000e-003	0.0000	4.1730	4.1730	1.1000e-004	1.1000e-004	4.2077
Total	**1.7000e-003**	**8.3800e-003**	**0.0188**	**7.0000e-005**	**6.3000e-003**	**6.0000e-005**	**6.3700e-003**	**1.7000e-003**	**6.0000e-005**	**1.7600e-003**	**0.0000**	**7.4185**	**7.4185**	**2.2000e-004**	**5.8000e-004**	**7.5952**

3.4 Stages 2,3,4&5 Building Construction - 2024

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	0.2334	2.3296	2.4439	4.8000e-003		0.0969	0.0969		0.0895	0.0895	0.0000	416.6827	416.6827	0.1317	0.0000	419.9738
Total	**0.2334**	**2.3296**	**2.4439**	**4.8000e-003**		**0.0969**	**0.0969**		**0.0895**	**0.0895**	**0.0000**	**416.6827**	**416.6827**	**0.1317**	**0.0000**	**419.9738**

Unmitigated Construction Off-Site

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	2.4400e-003	0.0899	0.0329	4.1000e-004	0.0140	4.3000e-004	0.0145	4.0500e-003	4.1000e-004	4.4700e-003	0.0000	39.8843	39.8843	1.3600e-003	5.7500e-003	41.6304
Worker	0.0175	0.0133	0.1876	5.4000e-004	0.0646	3.8000e-004	0.0650	0.0172	3.5000e-004	0.0175	0.0000	50.9935	50.9935	1.2400e-003	1.2400e-003	51.3952
Total	**0.0199**	**0.1032**	**0.2205**	**9.5000e-004**	**0.0786**	**8.1000e-004**	**0.0795**	**0.0212**	**7.6000e-004**	**0.0220**	**0.0000**	**90.8778**	**90.8778**	**2.6000e-003**	**6.9900e-003**	**93.0256**

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	0.2334	2.3296	2.4439	4.8000e-003		0.0969	0.0969		0.0895	0.0895	0.0000	416.6822	416.6822	0.1317	0.0000	419.9733
Total	**0.2334**	**2.3296**	**2.4439**	**4.8000e-003**		**0.0969**	**0.0969**		**0.0895**	**0.0895**	**0.0000**	**416.6822**	**416.6822**	**0.1317**	**0.0000**	**419.9733**

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	2.4400e-003	0.0899	0.0329	4.1000e-004	0.0140	4.3000e-004	0.0145	4.0500e-003	4.1000e-004	4.4700e-003	0.0000	39.8843	39.8843	1.3600e-003	5.7500e-003	41.6304
Worker	0.0175	0.0133	0.1876	5.4000e-004	0.0646	3.8000e-004	0.0650	0.0172	3.5000e-004	0.0175	0.0000	50.9935	50.9935	1.2400e-003	1.2400e-003	51.3952
Total	**0.0199**	**0.1032**	**0.2205**	**9.5000e-004**	**0.0786**	**8.1000e-004**	**0.0795**	**0.0212**	**7.6000e-004**	**0.0220**	**0.0000**	**90.8778**	**90.8778**	**2.6000e-003**	**6.9900e-003**	**93.0256**

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Stages 2,3,4&5 Building Construction - 2025

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	0.2157	2.0822	2.3932	4.7900e-003		0.0838	0.0838		0.0775	0.0775	0.0000	415.1349	415.1349	0.1312	0.0000	418.4138
Total	**0.2157**	**2.0822**	**2.3932**	**4.7900e-003**		**0.0838**	**0.0838**		**0.0775**	**0.0775**	**0.0000**	**415.1349**	**415.1349**	**0.1312**	**0.0000**	**418.4138**

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
Vendor	2.3600e-003	0.0892	0.0322	4.0000e-004	0.0140	4.3000e-004	0.0144	4.0400e-003	4.1000e-004	4.4500e-003	0.0000	39.0172	39.0172	1.3600e-003	5.6200e-003	40.7273
Worker	0.0163	0.0119	0.1743	5.2000e-004	0.0644	3.6000e-004	0.0647	0.0171	3.3000e-004	0.0174	0.0000	49.5602	49.5602	1.1100e-003	1.1600e-003	49.9328
Total	**0.0187**	**0.1010**	**0.2064**	**9.2000e-004**	**0.0783**	**7.9000e-004**	**0.0791**	**0.0211**	**7.4000e-004**	**0.0219**	**0.0000**	**88.5774**	**88.5774**	**2.4700e-003**	**6.7800e-003**	**90.6602**

Mitigated Construction On-Site

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	0.2157	2.0822	2.3932	4.7900e-003		0.0838	0.0838		0.0775	0.0775	0.0000	415.1344	415.1344	0.1312	0.0000	418.4133
Total	**0.2157**	**2.0822**	**2.3932**	**4.7900e-003**		**0.0838**	**0.0838**		**0.0775**	**0.0775**	**0.0000**	**415.1344**	**415.1344**	**0.1312**	**0.0000**	**418.4133**

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	2.3600e-003	0.0892	0.0322	4.0000e-004	0.0140	4.3000e-004	0.0144	4.0400e-003	4.1000e-004	4.4500e-003	0.0000	39.0172	39.0172	1.3600e-003	5.6200e-003	40.7273
Worker	0.0163	0.0119	0.1743	5.2000e-004	0.0644	3.6000e-004	0.0647	0.0171	3.3000e-004	0.0174	0.0000	49.5602	49.5602	1.1100e-003	1.1600e-003	49.9328
Total	**0.0187**	**0.1010**	**0.2064**	**9.2000e-004**	**0.0783**	**7.9000e-004**	**0.0791**	**0.0211**	**7.4000e-004**	**0.0219**	**0.0000**	**88.5774**	**88.5774**	**2.4700e-003**	**6.7800e-003**	**90.6602**

3.4 Stages 2,3,4&5 Building Construction - 2026

Unmitigated Construction On-Site

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Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	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	0.0182	0.1755	0.2017	4.0000e-004		7.0600e-003	7.0600e-003		6.5300e-003	6.5300e-003	0.0000	34.9922	34.9922	0.0111	0.0000	35.2686
Total	**0.0182**	**0.1755**	**0.2017**	**4.0000e-004**		**7.0600e-003**	**7.0600e-003**		**6.5300e-003**	**6.5300e-003**	**0.0000**	**34.9922**	**34.9922**	**0.0111**	**0.0000**	**35.2686**

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
Vendor	1.9000e-004	7.4600e-003	2.6700e-003	3.0000e-005	1.1800e-003	4.0000e-005	1.2100e-003	3.4000e-004	3.0000e-005	3.8000e-004	0.0000	3.2278	3.2278	1.2000e-004	4.7000e-004	3.3694
Worker	1.2900e-003	9.1000e-004	0.0138	4.0000e-005	5.4200e-003	3.0000e-005	5.4500e-003	1.4400e-003	3.0000e-005	1.4700e-003	0.0000	4.0837	4.0837	9.0000e-005	9.0000e-005	4.1132
Total	**1.4800e-003**	**8.3700e-003**	**0.0165**	**7.0000e-005**	**6.6000e-003**	**7.0000e-005**	**6.6600e-003**	**1.7800e-003**	**6.0000e-005**	**1.8500e-003**	**0.0000**	**7.3115**	**7.3115**	**2.1000e-004**	**5.6000e-004**	**7.4826**

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	0.0182	0.1755	0.2017	4.0000e-004		7.0600e-003	7.0600e-003		6.5300e-003	6.5300e-003	0.0000	34.9922	34.9922	0.0111	0.0000	35.2686
Total	**0.0182**	**0.1755**	**0.2017**	**4.0000e-004**		**7.0600e-003**	**7.0600e-003**		**6.5300e-003**	**6.5300e-003**	**0.0000**	**34.9922**	**34.9922**	**0.0111**	**0.0000**	**35.2686**

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	1.9000e-004	7.4600e-003	2.6700e-003	3.0000e-005	1.1800e-003	4.0000e-005	1.2100e-003	3.4000e-004	3.0000e-005	3.8000e-004	0.0000	3.2278	3.2278	1.2000e-004	4.7000e-004	3.3694
Worker	1.2900e-003	9.1000e-004	0.0138	4.0000e-005	5.4200e-003	3.0000e-005	5.4500e-003	1.4400e-003	3.0000e-005	1.4700e-003	0.0000	4.0837	4.0837	9.0000e-005	9.0000e-005	4.1132
Total	**1.4800e-003**	**8.3700e-003**	**0.0165**	**7.0000e-005**	**6.6000e-003**	**7.0000e-005**	**6.6600e-003**	**1.7800e-003**	**6.0000e-005**	**1.8500e-003**	**0.0000**	**7.3115**	**7.3115**	**2.1000e-004**	**5.6000e-004**	**7.4826**

3.5 Stages 2,3,4&5 Painting - 2026

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	0.2956					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8800e-003	0.0126	0.0199	3.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	2.8086	2.8086	1.5000e-004	0.0000	2.8124
Total	**0.2975**	**0.0126**	**0.0199**	**3.0000e-005**		**5.7000e-004**	**5.7000e-004**		**5.7000e-004**	**5.7000e-004**	**0.0000**	**2.8086**	**2.8086**	**1.5000e-004**	**0.0000**	**2.8124**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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
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	2.6000e-004	1.8000e-004	2.7600e-003	1.0000e-005	1.0800e-003	1.0000e-005	1.0900e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	0.8167	0.8167	2.0000e-005	2.0000e-005	0.8226
Total	**2.6000e-004**	**1.8000e-004**	**2.7600e-003**	**1.0000e-005**	**1.0800e-003**	**1.0000e-005**	**1.0900e-003**	**2.9000e-004**	**1.0000e-005**	**2.9000e-004**	**0.0000**	**0.8167**	**0.8167**	**2.0000e-005**	**2.0000e-005**	**0.8226**

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	0.2956					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8800e-003	0.0126	0.0199	3.0000e-005		5.7000e-004	5.7000e-004		5.7000e-004	5.7000e-004	0.0000	2.8086	2.8086	1.5000e-004	0.0000	2.8124
Total	**0.2975**	**0.0126**	**0.0199**	**3.0000e-005**		**5.7000e-004**	**5.7000e-004**		**5.7000e-004**	**5.7000e-004**	**0.0000**	**2.8086**	**2.8086**	**1.5000e-004**	**0.0000**	**2.8124**

Paradise Canyon Elementary School Modernization - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	2.6000e-004	1.8000e-004	2.7600e-003	1.0000e-005	1.0800e-003	1.0000e-005	1.0900e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	0.8167	0.8167	2.0000e-005	2.0000e-005	0.8226
Total	**2.6000e-004**	**1.8000e-004**	**2.7600e-003**	**1.0000e-005**	**1.0800e-003**	**1.0000e-005**	**1.0900e-003**	**2.9000e-004**	**1.0000e-005**	**2.9000e-004**	**0.0000**	**0.8167**	**0.8167**	**2.0000e-005**	**2.0000e-005**	**0.8226**

3.6 Stage 6 Removal of Interim Housing - 2026

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					0.0228	0.0000	0.0228	2.4600e-003	0.0000	2.4600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0686	0.6703	0.7753	1.5500e-003		0.0270	0.0270		0.0249	0.0249	0.0000	134.8172	134.8172	0.0430	0.0000	135.8925
Total	**0.0686**	**0.6703**	**0.7753**	**1.5500e-003**	**0.0228**	**0.0270**	**0.0498**	**2.4600e-003**	**0.0249**	**0.0274**	**0.0000**	**134.8172**	**134.8172**	**0.0430**	**0.0000**	**135.8925**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	3.0000e-005	2.1700e-003	5.8000e-004	1.0000e-005	2.8000e-004	1.0000e-005	2.9000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.8863	0.8863	5.0000e-005	1.4000e-004	0.9296
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	2.5800e-003	1.8100e-003	0.0276	9.0000e-005	0.0108	6.0000e-005	0.0109	2.8800e-003	5.0000e-005	2.9300e-003	0.0000	8.1592	8.1592	1.7000e-004	1.8000e-004	8.2181
Total	**2.6100e-003**	**3.9800e-003**	**0.0282**	**1.0000e-004**	**0.0111**	**7.0000e-005**	**0.0112**	**2.9600e-003**	**6.0000e-005**	**3.0200e-003**	**0.0000**	**9.0455**	**9.0455**	**2.2000e-004**	**3.2000e-004**	**9.1477**

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					8.8900e-003	0.0000	8.8900e-003	9.6000e-004	0.0000	9.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0686	0.6703	0.7753	1.5500e-003		0.0270	0.0270		0.0249	0.0249	0.0000	134.8170	134.8170	0.0430	0.0000	135.8923
Total	**0.0686**	**0.6703**	**0.7753**	**1.5500e-003**	**8.8900e-003**	**0.0270**	**0.0359**	**9.6000e-004**	**0.0249**	**0.0259**	**0.0000**	**134.8170**	**134.8170**	**0.0430**	**0.0000**	**135.8923**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	3.0000e-005	2.1700e-003	5.8000e-004	1.0000e-005	2.8000e-004	1.0000e-005	2.9000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	0.8863	0.8863	5.0000e-005	1.4000e-004	0.9296
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	2.5800e-003	1.8100e-003	0.0276	9.0000e-005	0.0108	6.0000e-005	0.0109	2.8800e-003	5.0000e-005	2.9300e-003	0.0000	8.1592	8.1592	1.7000e-004	1.8000e-004	8.2181
Total	**2.6100e-003**	**3.9800e-003**	**0.0282**	**1.0000e-004**	**0.0111**	**7.0000e-005**	**0.0112**	**2.9600e-003**	**6.0000e-005**	**3.0200e-003**	**0.0000**	**9.0455**	**9.0455**	**2.2000e-004**	**3.2000e-004**	**9.1477**

Michael Baker
INTERNATIONAL

Appendix B
Arborist
Tree Inventory

ARBORIST REPORT

FOR THE

PARADISE CANYON ELEMENTARY SCHOOL MODERNIZATION PROJECT

CITY OF LA CAÑADA FLINTRIDGE, LOS ANGELES COUNTY, CALIFORNIA



Prepared for:	*In Support of the CEQA Analysis Prepared for:*
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UEI Project No. 7166

MARCH 29, 2022

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ATTACHMENTS

Attachment 1 Arborist Tree Inventory Sheet
Attachment 2 Arborist Tree Inventory Photo Appendix

1.0 PURPOSE AND BACKGROUND

Project Description: The project proposes the movement of several existing portable classrooms from the northern and western sections of the property to the southeastern section and the construction of a new modular one-story building in the northern area and a two-story building in the western section of Paradise Canyon Elementary School (project site). In addition to the relocation and construction activities, there will be extensive grading and landscaping modifications to the northern western and central areas of the project site for the Paradise Canyon Elementary School Modernization (project). This school is part of La Cañada Unified School District (LCUSD) and is located in the City of La Cañada Flintridge (City), in the County of Los Angeles, California.

To accommodate the construction and project operations, some of the existing trees onsite may be removed during project construction. The project proponent wants an assessment of tree health for all of the trees within the project site. There is a particular focus on assessing trees in areas near proposed demolition and renovation activities in order to determine whether any trees are severely diseased or parasitized. The project proponent also wants to determine the proper root pruning procedures and the minimum area of drip zone to protect for any trees in project areas that may require root pruning. This Arborist Report (report) was prepared to survey all trees on the property following the scope of work presented in the proposal dated March 4, 2022.

Purpose: In line with the scope of work and with the City's Tree Preservation and Protection Guidelines and Section 4.24 of the La Canada Flintridge Municipal Code (LCF Municipal Code), a tree survey was conducted and the results of that survey are reported in this report. The purpose of this survey is to present the tree species, physical characteristics, health rating, mapped locations, and recommended mitigation measures for trees that pose risks to public safety or diseased trees that could spread disease to other trees or for protected trees that may be impacted by development of the project. The tree quantities and related project impacts have been analyzed and are reported in the following sections.

2.0 REGULATORY CONTEXT

Tree Preservation and Protection Guidelines

The City's Tree Preservation and Protection Guidelines (hereafter, Guidelines) provides protections for certain trees growing in R-1 Single Family Residential Zones, or in non-R-1 Single Family Residential Zone, for Deodar cedar growing in the Historic Deodar District or any tree occurring in areas zoned as public right-of-way. Section 4.24 of the LCF Municipal Code states that trees occurring on public property within the public right-of-way are protected. All of the surveyed trees occur on a property that is zoned as public/semi-public property and only one of the trees occur within the public right-of-way. None of the surveyed trees occur in any of the other aforementioned zoning areas.

Other Protections

There are state and federal protections for plant species that are listed by the United States Fish and Wildlife Service under the Endangered Species Act or by the California Department of Fish and Wildlife Service under the California Endangered Species Act. There are also protections for plant species listed on the California Native Plant Society's Inventory of Rare Plants.

3.0 METHODOLOGY

A tree survey was conducted at the project site from March 8 to March 11, 2022 by UltraSystems Environmental, Inc. (UltraSystems) International Society of Arboriculture (ISA) certified arborist Matthew Sutton (WE-12790-A). During the survey visit, Mr. Sutton performed various tasks associated with surveying, mapping, photographing, inventorying, and evaluating the condition of the property's trees, as described in the following sections.

In addition to mapping onsite trees, Mr. Sutton gathered tree characteristics data, which included identification to species (or genus in some instances), number of trunks per tree, trunk diameter, height, canopy diameter, and general health and vigor. Trunk diameter measurements were collected at fifty-four inches above the ground at the base of the tree, or diameter at breast height (DBH), using a tree diameter tape. Tree height measurements were performed using a rangefinder hypsometer with clinometer feature or by estimating the tree height based on a visual estimate. Tree canopy circumference was determined using a Trimble Geo 7x unit and collecting data while walking the perimeter of the canopy. The tree canopy diameter was determined in post-processing by deriving the diameter based on the circumference using the formula diameter equals two times the square root of the tree canopy's area divided by pi (i.e., $d = 2 \times \sqrt{(a \div \pi)}$). The tree canopy's area was determined during post-processing based on the area within the tree canopy's circumference measured with the GPS unit,. Only living tree parts were measured. The Trimble unit was also used to collect point data of each tree's location by placing the unit at the north side of the trunk and collecting satellite data for at least 20 seconds. All tree attribute data is recorded in **Attachment 1**, *Arborist Tree Inventory Sheet*.

It should be noted that the health of a tree is generally dependent on a host of physical and biotic factors including climatic and soil conditions, physical or mechanical damage of a non-biotic origin, such as fire, and/or biotic stressors such as infestation of various pests including, but not limited to, ants, termites, wood-boring beetles, cambium-eating beetles, fungus of various types. While the aesthetic value of a tree is subjective, a tree is usually considered highly aesthetic if it has generally dense foliage, a relatively uniform or spectacular irregular shape and large size.

Assessments of aesthetic and health factors for each tree, as well as an overall vigor rating, were documented (see **Attachment 1**, *Arborist Tree Inventory Sheet*). Surveyed trees were evaluated for overall health. Health was rated as excellent, very good, average, poor, very poor or dead, with ratings defined below. Photographs of both the surveyed trees and the non-surveyed trees are included in the photo appendix (**Attachment 2**, *Arborist Tree Inventory Photo Appendix*).

The following rating system and respective criteria were used to establish each overall health grade:

1. **Excellent:** A healthy and vigorous tree characteristic of its species and reasonably free of any visible signs of stress, disease or pest infestation.

2. **Good:** A healthy and vigorous tree with less than 25% of the tree affected by visible signs of stress, disease and/or pest infestation.

3. **Average:** Semi-healthy in overall appearance, with 25% - 75% of the tree showing evidence of stress, disease and/or pest infestation.

4. **Poor:** Greater than 75% of this tree shows evidence of stress, disease and/or pest infestation and appears to be in a state of rapid decline. The degree of decline may vary greatly.

5. **Dead:** The tree is either dead or shows little sign of survival**.**

Pursuant to the ISA's *Guide for Plant Appraisal* (CTLA & ISA, 2000), tree health and structure were evaluated with respect to five distinct tree components; roots, trunk(s), scaffold branches, small branches, and foliage. Each component of the tree was assessed with regard to health factors such as insect, fungal, or pathogen damage; fire damage; mechanical damage; presence of decay; presence of wilted or dead leaves; and wound closure. Components were graded as excellent, good, average, poor, and dead. This method of tree condition rating is comprehensive and results in ratings that are useful for determining the status of trees based on common standards. Trees in natural settings have important habitat value, as evidenced by numerous cavity nesters and insects that thrive on and within oak trees, even when they are considered in poor structural or health condition. However, this assessment focuses on tree condition with regard to health and structure for purposes of analyzing potential project impacts and where necessary, providing recommendations for mitigating potential tree hazards, such as trees with weak limb attachments, cavities and rot, or excessive lean.

Upon completion of field data collection and mapping, raw GPS data was post-processed using GPS Pathfinder Office (version 3.10), and individual tree location data were compiled and updated in a geographic information system (GIS). The digital tree locations were linked to individual tree identification numbers and associated tree attribute data. This dataset was then evaluated using ArcGIS (version 10.1) software to determine the position of individual trees related to the proposed project development areas. Data resulting from this analysis was used to evaluate the individual tree impact totals presented in this report.

4.0 RESULTS

UEI arborist Mr. Sutton surveyed 133 trees, none of which are protected under the City's Guidelines and many of which may need to be removed as part of development of the project (see **Exhibit 1**, *Tree Inventory Map*, **Attachment 1**, *Arborist Tree Inventory Sheet*, **Attachment 2**, *Arborist Tree Inventory Photo Appendix*, and **Table 4.0-1**). Of the 133 onsite trees, 128 are within the project site and 5 are located just outside of the project side near the intersection of Knight Way and Gould Avenue but are still maintained by La Cañada Unified School District. The five offsite trees are the following: Tree 31, black locust (*Robinia pseudoacacia*), Tree 32, olive (*Olea europea*), Tree 33, black locust, Tree 34, western sycamore (*Platanus racemosa*), and Tree 87, olive. Only Tree 34 is located within the City's right-of-way. Any plans to remove Tree 34 would need to go through the City's application process described in Section 4.24 of the LCF Municipal Code.

In total there 35 tree species identified during the survey and 3 individual trees that were unidentified, one of which, Tree T15, was dead (see **Table 4.0-1**). Four species have a limited ranking and one has a moderate ranking on the California Invasive Plant Council Inventory, an inventory of invasive plant species in California (Cal-IPC, 2006). There was evidence of insect boring on the bark of insect boring on nine tree species, and coast live oak (*Quercus agrifolia*) had the most frequent sign of boring with 6 of 28 individuals displaying boring sign. The coast live oak trees that showed insect boring damage include the following trees: T6, T8, T23, T28, T47, and T90. The other non-oak trees showing bark boring insect sign included trees T12, T26, T33, T56, T65, T80, T83, and T86. Some of the trees displaying prominent health symptoms are described below.

Table 4.0-1
SUMMARY OF SURVEYED TREE COUNTS BY SPECIES & OTHER ATTRIBUTES

4-Letter Species Code	Common Name	Botanical Name	# of Surveyed Trees	Cal-IPC Ranking [1]	# With Insect Boring Sign [2]
PICA	lodgepole pine	*Pinus contorta*	1		
CICA	camphor tree	*Cinnamomum camphora**	6		1
ULPA	Chinese elm	*Ulmus parvifolia**	1		
QUAG	coast live oak	*Quercus agrifolia*	28		6
FIBE	weeping fig	*Ficus benjamina**	2		
PRCE	cherry plum	*Prunus cerasifera**	5		1
LIST	sweetgum	*Liquidambar styraciflua**	4		
BAVA	mountain ebony	*Bauhinia variegata**	2		
PYCA	Callery pear	*Pyrus calleryana**	2	watch	
CESP	silk floss tree	*Ceiba speciosa**	1		
PLHI	London plane tree	*Platanus 'x hispanica'**	11		
OLEU	olive	*Olea europea**	12	limited	1
ROPS	black locust	*Robinia pseudoacacia**	2	limited	1
PLRA	western sycamore	*Platanus racemosa*	4		1
PLOC	American sycamore	*Platanus occidentalis**	1		
QUWI	interior live oak	*Quercus wislizeni*	1		
RHIL	hollyleaf redberry	*Rhamnus ilicifolia*	1		1
SANI	blue elderberry	*Sambucus nigra* subsp. *caerulea*	1		
ARUN	strawberry tree	*Arbutus unedo**	2		
JUSP	juniper species	*Juniperus sp.**	1		
MECI	crimson bottlebrush	*Melaleuca citrina**	4		
AFFA	African fern pine	*Afrocarpus falcatus**	1		
JAMI	blue jacaranda	*Jacaranda mimosifolia**	10		1
LAIN	crapemyrtle	*Lagerstroemia indica**	1		
MOAL	white mulberry	*Morus alba**	4		1
ALJU	silk tree	*Albizia julibrissin**	4		
EUCL	sugar gum	*Eucalyptus cladocalyx**	4	watch	
PIHA	Aleppo pine	*Pinus halepensis**	1		
CEDE	Deodar cedar	*Cedrus deodara**	1		
QUIL	holly oak	*Quercus ilex**	1		
FRAM	American ash	*Fraxinus americanus**	2		
SCTE	Brazilian pepper tree	*Schinus terebinthifolius**	1	moderate	
LILU	Chinese privet	*Ligustrum lucidum**	2	limited	
EUGL	blue gum	*Eucalyptus globulus**	5	limited	

4-Letter Species Code	Common Name	Botanical Name	# of Surveyed Trees	Cal-IPC Ranking [1]	# With Insect Boring Sign [2]
GRRO	silkoak	*Grevillea robusta**	1	watch	
UN	unknown species	n/a	3		
		Total	**133**	**-**	**14**

*non-native species

1. Rankings are based on the California Invasive Plant Council's (Cal-IPC's) Inventory (Cal-IPC, 2006). **Watch**: a watch ranking represents plants that are at a high risk for becoming invasive in the future. **Limited**: A limited ranking represents non-native plant species that cause minor harm to native ecosystems. **Moderate**: a moderate ranking represents plants that cause moderate harm to native ecosystems.

2. Insect boring sign was evidenced by multiple holes penetrating the bark from 1/16" to 1/4" in diameter, multiple holes from 1/4" to 1/2" inch indicating woodpecker foraging on bark boring insects, the presence of frass, the presence of larvae or adult forms of bark boring insect species.

As mentioned above, several coast live oak trees had evidence of insect boring. Tree T90 showed the most extensive insect boring and woodpecker damage of all of the coast live oak. There was visible frass and extensive holes throughout the trunk bark. Part of a bark beetle was excavated from a boring hole and it resembled a Western oak bark beetle (*Pseudopityophthorus pubipennis*) or an oak ambrosia beetle (*Monarthrum* sp.) [Eskalen et al., 2018, Dreistadt et al., 2004; Swiecke and Bernhardt, 2006]. However, it is more likely that it was a Western oak bark beetle due to the red frass that was visible in some of the larger holes. These beetles can spread pathogens such as a fungus named *Geosmithia pallida* that causes foamy bark canker. There was no evidence of that canker, however, there was a lot of staining associated with emergence holes which suggests that the oak tree is infected with some disease. The canopy of all of the coast live oak with insect boring sign appear healthy and there is no immediate threat to survivorship.

There are several individuals of London plane tree (*Platanus* 'X *acerifolia*')in the northwestern area of the project site, adjacent to a playground, that are exhibiting possible infestation of sycamore scale (*Stomacoccus platani*). On some of the trees, small whitish insects were visible on the bark when viewed with a hand lens. These insects appear to be sycamore scale in the late instar stage (Dreistadt, 2010). There is sap ooze and staining associated with this insect, particularly on Tree T110. Asian lady beetle (*Harmonia axyridis*) were observed ovipositing on three of the London plane tree, trees T104, T105, and T110. Most of the London plane tree in this row of trees had bowing upper branches which likely indicates the trees are under stress.

There are several trees outside of areas proposed for grading, construction and other project operations that are diseased or are exhibiting symptoms of stress. As mentioned earlier, several coast live oak trees in non-project areas exhibit sign of boring insects. In particular, trees T6 and T28 have extensive boring holes and bark staining, which indicates a disease associated with the boring. In addition there are two olive trees, T26 and T27, both of which occur on an ornamental lawn in front of the school office building, that have dieback at the top of the canopy. One of these trees has evidence of boring insects on one of its larger branches. There are also two camphor (*Cinnamomum camphora*), trees T7 and T10, both of which occur along a parking strip north of Knight Way, that have dieback at the end of branches. Tree T7 has a canker with bark stain at a pruning wound of a large branch.

5.0 MITIGATION AND RECOMMENDATIONS

Because there was only one surveyed tree, Tree T34, that is protected by the City's Municipal Code, and because none of them are protected by other regulatory agencies such as CDFW or USFWS, there is no need to mitigate for the removal of trees within the project site. That said, there are some trees that are exhibiting stress due to insect parasitism or other maladies that warrant monitoring and may need to be removed if they pose a hazard of limb failure or possibly infecting nearby trees with disease or pest infestation. It is recommended that the following problematic trees be considered for removal in the areas where grading changes and construction are planned.

- The coast live oak Tree T90 appears to be infested with a bark boring insect, possibly Western oak bark beetle (*Pseudopityophthorus pubipennis*) Avoid pruning this tree or other parasitized oak trees when egg laying adult borers are active (March through October). Remove and dispose of dead and dying trees to prevent boring insects from emerging and attacking other hosts.

- There is evidence of parasitism by sycamore scale or another insect on London plane trees growing in a row by the playground in the northwestern area of the project site. The presence of Asian lady beetle is promising because this species predates upon sycamore scale and may serve as an effective biological control of this parasite. Another recommended measure is the application of a spray to control scale if symptoms of this infestation are observed and if the symptoms are not abating. Plan spray application for when bud break occurs, typically between mid-December to February. Observe leaves for sign of scale which include distorted, curled, and spotty leaves.

It is recommended that a protection zone be established for trees which may need to have extensive branch or root pruning in areas subject to construction and grading changes.

- Use the drip line of the tree's canopy as the dimensions of the protection zone.

- If it is necessary to encroach within the drip line then make sure roots are protected and proper pruning techniques and sanitation practices are implemented. Some basic root pruning principles to implement include the following:

    - Due not prune roots within the tree's drip line (i.e., within the perimeter of the tree's canopy. If project plans require encroaching within the drip line, then the next protection zone should be set at a radius around the trunk of at least six times the tree's diameter at breast height (DBH). Research indicates that most trees are not harmed with disturbance limited to that radius (personal communication, Jim Clark, Bartlett Consulting). Tree stability is substantially reduced when root disturbances occur within a radius of three times the tree's DBH.

    - For larger roots that need to be exposed during excavation near trees, the exposed tap root, main roots and any surface-feeding roots exceeding one inch in diameter shall be wrapped in protective moistened burlap. The roots zone (under dripline) should be excavated with a mini-excavator and/or hand tools, using a probe (metal rod or stick) to locate and unearth roots, leaving them in their natural orientation. Work will be done as quickly as possible to expose the roots for as little time as possible and the roots will be reburied with clean fill as soon as is feasible (no longer

than a day or so, if possible). The burlap will be kept moist. If roots are cut, they will be cut with sharpened, clean, disinfected tools (10% bleach solution) with every effort to avoid tearing the root and to avoid tearing the root surface. A minimum distance of eight feet should be maintained of the root (distance from the root crown to terminal end of root), where possible.

Consider removing or taking action to improve tree health of trees exhibiting stress in areas outside of construction and grading activities.

Sincerely,

ULTRASYSTEMS ENVIRONMENTAL INC.



Matthew Sutton
ISA-Certified Arborist (WE-12790-A)

6.0 REFERENCES

Cal-IPC (California Invasive Plant Council), 2006. California Invasive Plant Inventory. Accessed online at: https://www.cal-ipc.org/plants/inventory/ Accessed on March 21, 2022.

City of La Cañada Flintridge, 2014. La Cañada Flintridge Municipal Code. Title 4, Public Welfare, Chapter 4.24, Trees in the Public Right-of-Way (Ord. 424 § 1, 2014). Available at http://qcode.us/codes/lacanadaflintridge/view.php?topic=4-4_24&showAll=1&frames=on Accessed on March 7, 2022.

CTLA & ISA (Council of Tree and Landscape Appraisers, & International Society of Arboriculture. 2000. *Guide for Plant Appraisal*. Champaign, IL: International Society of Arboriculture.

Dreistadt, S. H., 2010. *Pest Notes: Sycamore Scale.* Davis: University of California Agriculture and Natural Resources. Publication 7409. University of California Statewide Invasive Pest Management Program. July, 2010. Available at www.ipm.ucdavis.edu.

Dreistadt S. H., et al., 2004. *Pests of Landscape Trees and Shrubs: An Integrated Pest Management Guide. 2nd ed.* Oakland: University of California Agriculture and Natural Resources Publication 3359.

Eskalen et al., 2018. *Invasive Shot-Hole Borer and Fusarium Dieback Field Guide: Identifying Polyphagous and Kuroshio Shot-Hole Borer in California*. University of California Agriculture and Natural Resources Publication 8590.

SelecTree, 2022. California Polytechnic State University, San Luis Obispo. Urban Forest Ecosystem Institute. Available at http://selectree.calpoly.edu/. Accessed on March 7, 2022.

Swiecki, T. J., and Bernhardt, E. A., 2006. *A Field Guide to Insects and Diseases of California Oaks.* General Technical Report PSW-GTR-197. Albany, CA: Pacific Southwest Research Station, Forest Service, U.S. Department of Agriculture.

Exhibit 1
TREE INVENTORY MA



Paradise Canyon Elementary School Modernization Project

Legend

- Project Boundary
- Tree Canopy
- Trees

Key Map

0 37.5 75 Feet

0 10 20 Meters

N

Scale: 1:900

Tree Inventory

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Disclaimer: Representations on this map or illustration are intended only to indicate locations of project parameters reported in the legend. Project parameter information supplied by others (see layer credits) may not have been independently verified for accuracy by UltraSystems Environmental, Inc. This map or illustration should not be used for, and does not replace, final grading plans or other documents that should be professionally certified for development purposes.

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Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors; UltraSystems Environmental, Inc., 2022

March 28, 2022

Attachment 1
Arborist Tree Inventory Sheet

Tree #	Common Name	Scientific Name	Latitude	Longitude	Number of Trunks	DBH (in)	Height (ft)	Canopy Diameter (ft)	Health Rating 1=Excellent; 5=Dead	Comments
1	lodgepole pine	*Pinus contorta*	34.208359	-118.2180704	1	56.0	76	85.3	1	Good crown balance and taper although lowest branch has 45 degree lean.
2	camphor tree	*Cinnamomum camphora**	34.208366	-118.186244	1	9.0	14	41.7	3	Tree has been heavily pruned. Poor taper. Pruning wounds. No insect boring sign.
3	Chinese elm	*Ulmus parvifolia**	34.208351	-118.186258	2	20.9	60	29.4	2	Good crown balance and taper. Minor canopy dieback.
4	coast live oak	*Quercus agrifolia*	34.208337	-118.186251	2	23.4	25	36.0	3	Poor taper. Some cracking bark on branches and pruning wounds at large branches. Tree shaded by elm. Root crown is buried. Minor canopy dieback. Poor crown balance. No insect boring sign.
5	camphor tree	*Cinnamomum camphora**	34.208339	-118.186396	1	25.7	35	32.6	3	Canker with staining. Possible wound rot. Multiple shoots emerging from pruning cuts on main branch. 5% canopy dieback. Peeling bark near base. Minor sap ooze on trunk at canker. No insect boring sign.
6	coast live oak	*Quercus agrifolia*	34.208302	-118.186554	9	58.7	30	37.9	3	Several insect boring holes on trunk of 1/8" to 1/4" as well as larger holes possibly produced by woodpeckers next to boring holes. No frass visible. Extensive cracking and holes on trunks associated with staining and some sap ooze. Healthy branch structure and canopy.
7	camphor tree	*Cinnamomum camphora**	34.208323	-118.186647	1	16.9	37	34.6	2	Some pruning wounds with sunken wood rot. Healthy branch structure and foliage. Some canopy dieback at branch tips.
8	coast live oak	*Quercus agrifolia*	34.208362	-118.186796	1	13.8	30	25.2	2	Healthy branch structure. Good taper. Healthy canopy foliage. Insect boring sign with 1/4" holes on trunk. No frass.
9	coast live oak	*Quercus agrifolia*	34.208364	-118.186853	1	10.4	38	24.9	2	Deep crack with staining on trunk. Whitish hue to bark color of lower 6 feet of trunk. Healthy branch structure and canopy foliage. No insect boring sign.
10	camphor tree	*Cinnamomum camphora**	34.208318	-118.186879	1	14.9	27	26.1	3	Some bark is brittle and flaking off. Appears to be larvae and fungus colonizing surface of exposed bark. Substantial dieback at branch tips (approximately 5% of canopy). Healthy branch structure. No sign of insect boring.
11	Unknown 1	*n/a*	34.208353	-118.186946	1	4.6	20	10.9	3	Deciduous small tree with initial stage of leaf bud. Some fungus, yellow at base of trunk. Only partial budding, many branches not producing visible buds. No boring sign. .
12	camphor tree	*Cinnamomum camphora**	34.208325	-118.187047	1	16.2	30	37.1	1	Healthy branch structure, foliage, and canopy. Some flaking bark. Sign of boring, 1/8" holes, no frass
13	weeping fig	*Ficus benjamina**	34.208318	-118.187317	9	22.6	17	13.4	1	Healthy
14	weeping fig	*Ficus benjamina**	34.208345	-118.187372	5	13.9	17	12.2	1	Healthy
15	Unknown 2	*n/a*	34.208428	-118.187527	1	3.9	15	23.9	5	No evidence of leaf bud. Significant bark peel. Trunk has split to center I several places due to torque of twisting trunk. Several boring holes of 1/16" diameter indicate possible parasitism by boring insects.
16	cherry plum	*Prunus cerasifera**	34.208436	-118.187624	7	14.4	15	17.7	1	healthy
17	sweetgum	*Liquidambar styraciflua**	34.208575	-118.187752	1	8.0	35	15.0	1	healthy; leaf buds developing

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18	sweetgum	*Liquidambar styraciflua**	34.208521	-118.187756	1	7.7	25	19.8	1	healthy leaf buds developing, pruning scar with sunken tissue
19	mountain ebony	*Bauhinia variegata**	34.208478	-118.187769	2	11.6	20	22.2	2	some staining on bark, poor branch structure, new leaf buds forming
20	Callery pear	*Pyrus calleryana**	34.208518	-118.187825	1	10.1	20	31.7	1	healthy branch structure and canopy, flowering, leaf buds
21	mountain ebony	*Bauhinia variegata**	34.208553	-118.187899	1	27.0	40	21.7	1	healthy taper and branch structure, multiple shoots at one pruning cut,
22	Unknown 3	*n/a*	34.208514	-118.188125	5	17.6	22	18.2	1	deciduous state, full leaf budding on branches, healthy branch structure
23	coast live oak	*Quercus agrifolia*	34.208511	-118.188352	1	35.9	45	55.6	1	good branch structure and taper, healthy foliage, evidence of insect boring and/or woodpecker activity with 1/4" holes on trunk
24	silk floss tree	*Ceiba speciosa**	34.208429	-118.188469	1	18.9	35	23.5	2	inclusion at branch attachment of two primary branches, minor canopy dieback (<5%), leaf and flower buds developing
25	London plane tree	*Platanus 'x hispanica'**	34.208396	-118.188562	1	14.9	50	37.0	1	good taper and branch structure, full leaf bud and fruit development in canopy
26	olive	*Olea europea**	34.208349	-118.187742	1	28.8	37	29.1	3	boring or pecking holes on upper branches (approximately 1/4" inch), bark stripped where holes are. Substantial dieback associated with these branches. approximately 10% canopy dieback on tree overall. Water from irrigation puddled in root collar openings.
27	olive	*Olea europea**	34.208249	-118.187969	2	24.7	32	30.0	2	co-dominant trunk, good taper and branch structure, sunken wound on trunk covered with black paint, minor canopy dieback
28	coast live oak	*Quercus agrifolia*	34.208297	-118.188336	1	10.0	30	20.0	2	good branch structure and taper, evidence of insect boring with holes on trunk (1/4" to 1/2") and staining around holes. Whitish color on lower 4' of trunk
29	coast live oak	*Quercus agrifolia*	34.208311	-118.188825	1	5.9	17	17.3	1	good taper and branch structure
30	coast live oak	*Quercus agrifolia*	34.208414	-118.188941	1	33.4	47	51.8	2	good taper; nearly 45 degree lean
31	black locust	*Robinia pseudoacacia**	34.208412	-118.189083	1	13.6	52	22.6	3	healthy branch structure and taper; new leaves emerging; flowering
32	olive	*Olea europea**	34.20838	-118.18913	1	11.7	36	26.4	3	large wound where main branch sheared off of trunk. Wound covered with soil. Foliage appears to be healthy
33	black locust	*Robinia pseudoacacia**	34.208455	-118.189103	1	24.0	57	34.5	1	inclusion where primary branches separate from trunk. Some dieback

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Arborist Tree Inventory Sheet

Tree #	Common Name	Scientific Name	Latitude	Longitude	Number of Trunks	DBH (in)	Height (ft)	Canopy Diameter (ft)	Health Rating 1=Excellent; 5=Dead	Comments
34	western sycamore	*Platanus racemosa*	34.208579	-118.18915	1	28.0	85	42.1	2	healthy branch structure and taper., swollen pruning wound and sheared-off branch.
35	olive	*Olea europea**	34.208849	-118.189121	1	18.3	30	21.3	2	healthy branch structure and taper, black paint seems to have been applied to pruning scars and areas with wounds.
36	olive	*Olea europea**	34.208848	-118.189121	1	13.2	30	19.5	2	same as above, but with fewer scars. Some lean due to shade effect of surrounding trees.
37	olive	*Olea europea**	34.208901	-118.189137	2	26.0	30	25.5	2	sheared-off branch near base of trunk; some stain at wounds; competing for light with surrounding trees.
38	olive	*Olea europea**	34.209	-118.189129	2	28.6	35	32.8	1	stains from black paint and sap ooze at wounds, good taper and branch structure
39	London plane tree	*Platanus 'x hispanica'**	34.209118	-118.189116	1	5.4	20	15.9	1	good taper and branch structure; new leaves and fruit budding
40	London plane tree	*Platanus 'x hispanica'**	34.209201	-118.18912	2	7.8	20	17.2	2	healthy; some dieback (approximately 5%)
41	olive	*Olea europea**	34.209285	-118.189123	1	20.5	30	31.7	1	good taper and branch structure
42	olive	*Olea europea**	34.209327	-118.189125	4	21.8	25	19.1	2	shaded by other trees, several sunken wounds or cankers
43	western sycamore	*Platanus racemosa*	34.208767	-118.187372	3	37.8	65.7	15.1	2	Some graffiti and staining on bark. Good taper and branch structure. Heavy compaction by foot.
44	coast live oak	*Quercus agrifolia*	34.208906	-118.187353	1	13.8	28.5	33.4	2	good taper and branch structure, several small burls on trunk; graffiti; heavy compaction at base, some galls
45	American sycamore	*Platanus occidentalis**	34.208958	-118.187353	1	5.6	14	11.9	4	bowing branches, poor branch structure, staining and/or sap ooze at canker/wound
46	coast live oak	*Quercus agrifolia*	34.20905	-118.187355	1	20.3	42.7	48.8	2	good taper and branch structure, few burls on trunk, heavy compaction at base
47	coast live oak	*Quercus agrifolia*	34.209085	-118.187353	1	11.0	27	26.3	2	good taper, one branch sheared off, some damage to bark of trunk, evidence of insect boring with 1/8" boring holes on trunk and no frass
48	interior live oak	*Quercus wislizeni*	34.208773	-118.187418	3	28.1	45	26.7	1	good taper and structure, good vigor
49	coast live oak	*Quercus agrifolia*	34.208738	-118.187402	1	3.9	35	21.9	1	
50	coast live oak	*Quercus agrifolia*	34.208734	-118.187405	1	5.2	35	64.9	1	
51	coast live oak	*Quercus agrifolia*	34.208735	-118.187408	1	2.6	15	33.8	2	some staining on trunk

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Tree #	Common Name	Scientific Name	Latitude	Longitude	Number of Trunks	DBH (in)	Height (ft)	Canopy Diameter (ft)	Health Rating 1=Excellent; 5=Dead	Comments
52	coast live oak	*Quercus agrifolia*	34.208732	-118.187413	1	3.5	32	16.8	2	some damage to bark of trunk
53	coast live oak	*Quercus agrifolia*	34.20873	-118.187412	1	14.5	35	32.2	2	some staining on bark, wounds on trunk
54	coast live oak	*Quercus agrifolia*	34.208719	-118.187424	1	9.4	42	25.8	1	
55	coast live oak	*Quercus agrifolia*	34.2087	-118.187405	1	5.2	20	26.4	2	Some staining on bark of trunk.
56	hollyleaf redberry	*Rhamnus ilicifolia*	34.208687	-118.187465	3		18	14.5	3	sap ooze near boring holes, holes 1/8" and no frass
57	blue elderberry	*Sambucus nigra* subsp. *caerulea*	34.208708	-118.187515	6	21.6	17	13.0	1	healthy growth habit for this species
58	strawberry tree	*Arbutus unedo**	34.208744	-118.187521	3	19.2	17	13.8	1	Cucumber vine growing on trunk; thinning canopy in top 1/3
59	strawberry tree	*Arbutus unedo**	34.208781	-118.187517	5	25.7	17	11.2	1	
60	cherry plum	*Prunus cerasifera**	34.208873	-118.187952	4	8.5	15	14.0	1	
61	juniper species	*Juniperus sp.**	34.208873	-118.187902	1	14.7	27	12.7	1	
62	crimson bottlebrush	*Melaleuca citrina**	34.208872	-118.187856	2	20.7	22	9.5	1	
63	cherry plum	*Prunus cerasifera**	34.208869	-118.187779	9	16.5	16	7.2	1	
64	cherry plum	*Prunus cerasifera**	34.208891	-118.187755	10	20.6	16	6.9	1	
65	cherry plum	*Prunus cerasifera**	34.208906	-118.187756	9	19.7	18	8.6	1	evidence of boring insects, 1/8" boring holes on trunk
66	crimson bottlebrush	*Melaleuca citrina**	34.208991	-118.187769	2	8.2	15	5.4	1	
67	crimson bottlebrush	*Melaleuca citrina**	34.208994	-118.187819	2	5.6	15	7.8	1	
68	crimson bottlebrush	*Melaleuca citrina**	34.208991	-118.187864	2	6.8	13	16.4	1	
69	African fern pine	*Afrocarpus falcatus*	34.208994	-118.187891	2	11.6	22	5.1	1	

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Arborist Tree Inventory Sheet

Tree #	Common Name	Scientific Name	Latitude	Longitude	Number of Trunks	DBH (in)	Height (ft)	Canopy Diameter (ft)	Health Rating 1=Excellent; 5=Dead	Comments
70	blue jacaranda	*Jacaranda mimosifolia**	34.209219	-118.187938	2	34.5	42	45.5	2	co-dominant trunk, good taper. Moderate wounding to bark of trunk
71	camphor tree	*Cinnamomum camphora**	34.209473	-118.187856	1	17.1	40	35.8	2	good taper and crown balance, <5% canopy dieback
72	crapemyrtle	*Lagerstroemia indica**	34.208831	-118.187958	1	9.4	32	24.6	2	last season's fruit calyxes still visible on branches; no leaf buds visible; good taper and crown balance;graffiti
73	blue jacaranda	*Jacaranda mimosifolia**	34.208823	-118.188018	1	12.5	44	26.7	2	minor bark injury, 45 degree lean
74	blue jacaranda	*Jacaranda mimosifolia**	34.208813	-118.188113	1	11.2	39	26.9	2	
75	blue jacaranda	*Jacaranda mimosifolia**	34.20881	-118.18818	1	13.1	39	32.7	1	minor bark injury, good taper and branch structure
76	blue jacaranda	*Jacaranda mimosifolia**	34.208825	-118.188227	1	7.4	32	18.1	1	
77	sweetgum	*Liquidambar styraciflua**	34.208835	-118.18828	1	15.1	47	21.8	2	some roots appear pruned at intersection with walkway, minor root girdling at root collar
78	blue jacaranda	*Jacaranda mimosifolia**	34.208727	-118.188287	1	13.1	35	23.1	1	some roots cut off at concrete, good taper and branch structure.
79	blue jacaranda	*Jacaranda mimosifolia**	34.208724	-118.188237	1	11.5	36	29.2	1	minor bark injury, good taper and branch structure
80	blue jacaranda	*Jacaranda mimosifolia**	34.208729	-118.18816	1	2.7	14	11.5	3	pruning cut wound with holes; could be infected. Sheared branch. Evidence of insect boring with 1/8" holes on trunk. No frass.
81	blue jacaranda	*Jacaranda mimosifolia**	34.208718	-118.188098	1	9.0	25	14.7	3	moderate wound to trunk bark, one large branch sheared off, 45 degree lean
82	blue jacaranda	*Jacaranda mimosifolia**	34.208727	-118.188025	1	13.3	35	26.6	2	moderate wound to trunk bark, good taper and brach tructure
83	white mulberry	*Morus alba**	34.208586	-118.188402	1	22.8	35	34.4	3	good taper and branch structure, bore holes and woodpecker holes on dead trunk that had been secondary trunk, boring holes are approximately 1/4" in diameter, dead trunk is rotted, good canopy vigor
84	western sycamore	*Platanus racemosa*	34.208522	-118.188535	2	7.3	15	13.9	2	co-dominant trunk, good taper; leafing out with the exception of the topmost branches
85	white mulberry	*Morus alba**	34.208476	-118.188561	1	7.3	27	31.5	2	tree is flowering with new leaves emerging; one lower branch sheared off; some sap stain from wound, good taper, some roots partially exposed
86	western sycamore	*Platanus racemosa*	34.208608	-118.188659	2	19.1	45	30.7	2	some staining on bark, evidence of insect boring with 1/4" boring holes on trunk, co-dominant trunks, good taper, high levels of compaction around base of trunk; graffiti

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Tree #	Common Name	Scientific Name	Latitude	Longitude	Number of Trunks	DBH (in)	Height (ft)	Canopy Diameter (ft)	Health Rating 1=Excellent; 5=Dead	Comments
87	olive	*Olea europea**	34.208426	-118.189031	1	15.4	40	22.5	2	20% lean from vertical. Sunken wound on trunk bark, <5% dieback, good taper
88	coast live oak	*Quercus agrifolia*	34.208651	-118.189094	1	6.4	12	20.5	1	
89	coast live oak	*Quercus agrifolia*	34.208775	-118.189112	1	10.6	25	22.5	1	good taper and branch structure
90	coast live oak	*Quercus agrifolia*	34.208854	-118.189084	1	10.7	32	33.0	3	several insect boring holes (approximately 1/8") and nearby woodpecker holes (approximately 1/2") near base of trunk, with high level of staining. Frass present, Good taper and branch structure
91	coast live oak	*Quercus agrifolia*	34.208851	-118.189075	1	4.5	18	29.7	2	good taper, shaded by surrounding trees, roots exposed due to disturbance of soft soil
92	olive	*Olea europea**	34.208919	-118.189069	3	38.0	30	29.8	2	minor canopy dieback at the tip of some branches, good branch structure
93	white mulberry	*Morus alba**	34.208895	-118.188371	1	9.3	20	19.1	2	main root partially exposed, some branches have bark damage at nexus of branches and trunk
94	silk tree	*Albizia julibrissin**	34.208947	-118.18839	1	16.2	52	21.8	2	multiple shoots emerging from main branches at pruning cuts may indicate overpruning, moderate branch structure, overpruning
95	silk tree	*Albizia julibrissin**	34.209068	-118.188295	1	10.2	28	25.0	2	multiple shoots emerging from main branches at former pruning cuts, moderately sound branch structure, lack of a leader may indicate crown topping or overpruning
96	silk tree	*Albizia julibrissin**	34.209007	-118.18839	1	6.2	22	26.4	3	multiple shoots, some branches sheared, blackish color on trunk and branches
97	silk tree	*Albizia julibrissin**	34.209068	-118.188295	1	7.4	25	26.2	2	multiple shoots, co-dominant main branches
98	white mulberry	*Morus alba**	34.209007	-118.1884	1	5.2	15	26.9	1	good taper and branch structure
99	sweetgum	*Liquidambar styraciflua**	34.209065	-118.188446	1	16.5	50	29.3	1	good taper and branch structure; pruning scar on main branch.
100	sugar gum	*Eucalyptus cladocalyx**	34.209034	-118.188527	1	22.0	110	33.7	2	large branch sheared, co-dominant trunks, some staining
101	sugar gum	*Eucalyptus cladocalyx**	34.209068	-118.188103	1	18.7	105	30.4	2	minor canopy dieback, 30 degree lean, good taper/branch structure
102	sugar gum	*Eucalyptus cladocalyx**	34.209112	-118.188184	1	21.3	120	24.4	1	good taper and branch structure
103	sugar gum	*Eucalyptus cladocalyx**	34.209105	-118.18824	1	28.4	133	39.2	1	minor bark damage, minor canopy dieback, good taper and branch structure

Attachment 1
Arborist Tree Inventory Sheet

Tree #	Common Name	Scientific Name	Latitude	Longitude	Number of Trunks	DBH (in)	Height (ft)	Canopy Diameter (ft)	Health Rating 1=Excellent; 5=Dead	Comments
104	London plane tree	*Platanus 'x hispanica'**	34.209102	-118.18836	1	5.0	20	13.5	2	Asian lady beetle (*Harmonia axyridis*) ovipositing on trunk, bowing at top 10 ft of canopy
105	London plane tree	*Platanus 'x hispanica'**	34.209106	-118.188554	1	3.7	16	10.7	2	Asian lady beetle ovipositing on trunk. Bowing at top 5 ft of canopy.
106	London plane tree	*Platanus 'x hispanica'**	34.2091	-118.188665	1	7.0	22	16.8	1	good taper and branch strucure, minor bowing at top of canopy.
107	London plane tree	*Platanus 'x hispanica'**	34.209099	-118.188698	1	7.9	21	19.5	1	good taper. Minor bowing at top of canopy.
108	London plane tree	*Platanus 'x hispanica'**	34.209092	-118.188751	1	7.1	28	19.2	1	good taper and branch structure
109	London plane tree	*Platanus 'x hispanica'**	34.209093	-118.188832	1	9.0	33	20.4	2	Insect boring, good taper and branch structure, high number of insect larvae parasitizing bark, less than 1/8" in length and may be sycamore scale (*Stomacoccus platani*) instar, minor bowing of canopy, adult Harmonia axyridis ovipositing on bark, good taper and branch structure
110	London plane tree	*Platanus 'x hispanica'**	34.209092	-118.188293	1	6.5	33	16.7	3	large number of larvae (possibly sycamore scale instar) parasitizing bark, substantial staining on bark where larvae occur, canopy dieback (<5%), canopy bowing
111	London plane tree	*Platanus 'x hispanica'**	34.209093	-118.188969	1	6.4	30	21.9	1	good taper and branch structure, larvae parasitizing bark
112	olive	*Olea europea**	34.209104	-118.189021	2	31.4	35	26.5	1	good branch structure
113	Deodar cedar	*Cedrus deodara**	34.209306	-118.188985	1	15.1	45	28.9	3	dieback at the top of canopy
114	holly oak	*Quercus ilex**	34.209314	-118.188684	1	5.1	22	16.0	1	
115	coast live oak	*Quercus agrifolia*	34.20934	-118.188624	1	7.1	15	19.7	1	
116	white ash	*Fraxinus americana**	34.209422	-118.188549	9	21.3	50	19.9	1	
117	coast live oak	*Quercus agrifolia*	34.209526	-118.188361	1	2.8	12	18.5	2	
118	white ash	*Fraxinus americana**	34.209531	-118.188328	1	7.9	58	18.0	1	
119	Brazilian pepper tree	*Schinus terebinthifolius**	34.209544	-118.188273	2	16.2	19	20.3	1	
120	coast live oak	*Quercus agrifolia*	34.209526	-118.188198	1	2.8	13	10.6	1	
121	Chinese privet	*Ligustrum lucidum**	34.209527	-118.188139	1	11.6	38	16.8	1	

Attachment 1
Arborist Tree Inventory Sheet

Tree #	Common Name	Scientific Name	Latitude	Longitude	Number of Trunks	DBH (in)	Height (ft)	Canopy Diameter (ft)	Health Rating 1=Excellent; 5=Dead	Comments
122	Aleppo pine	*Pinus halepensis**	34.209533	-118.188034	1	25.6	55	17.5	1	
123	Chinese privet	*Ligustrum lucidum**	34.209526	-118.187995	3	17.3	31	18.2	1	
124	blue gum	*Eucalyptus globulus**	34.209395	-118.188123	1	43.9	77	33.1	1	Some sap ooze at wound.
125	blue gum	*Eucalyptus globulus**	34.20935	-118.18813	2	32.3	62	26.6	2	
126	blue gum	*Eucalyptus globulus**	34.209244	-118.188119	1	30.2	63	25.5	2	Graffiti, rotting weed at wound
127	blue gum	*Eucalyptus globulus**	34.20918	-118.188131	1	26.8	68	33.4	2	Heavily pruned
128	blue gum	*Eucalyptus globulus**	34.209161	-118.188101	1	9.8	60	24.1	2	
129	coast live oak	*Quercus agrifolia*	34.209325	-118.188833	1	3.4	15	19.0	1	
130	coast live oak	*Quercus agrifolia*	34.20932	-118.188777	1	4.0	15	15.9	1	
131	coast live oak	*Quercus agrifolia*	34.209525	-118.188197	6	3.6	9	17.2	2	
132	silkoak	*Grevillea robusta**	34.208629	-118.187752	1	15.6	70	17.0	1	minimal canopy dieback (<1%), good taper and branch structure
133	Callery pear	*Pyrus calleryana**	34.208627	-118.187719	1	6.2	18	18.6	1	

In assessment of the tree health, the following conditions were considered during the tree survey:

- unbalanced crown
- weak or yellowing foliage
- defoliation
- dead or broken branches
- poor branch attachment
- lean
- pruning scars
- basal/trunk scars
- conks
- rot/cavity
- insect damage
- cracks
- girdling roots
- exposed surface roots
- trenching/grade change

The following criteria were used to evaluate the overall health conditions:
5= The tree is either dead or shows little sign of survival.
4 = More than 75% of the tree shows evidence of stress, disease, pest infestations with decline.
3 = Semi-healthy but display 25%-75% signs of visible stress, disease or pest infestations.
2 = Healthy tree with less than 25% signs of visible stress, disease or pest infestations.
1 = Healthy tree that shows no visible signs of stress, disease or pest infestations.

Arborist Tree Inventory

PHOTO APPENDIX

Arborist Report
Paradise Canyon Elementary School Modernization Project
City of La Canada Flintridge, Los Angeles County, California

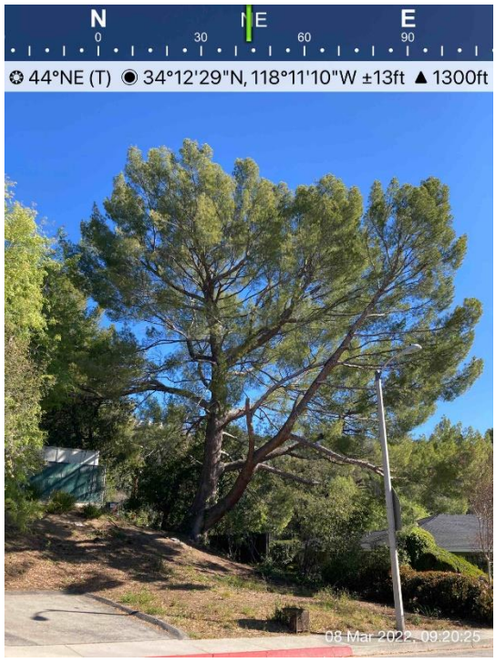


PHOTO 1: Northeast facing view of Tree #1, a lodgepole pine. Date: March 8, 2022.

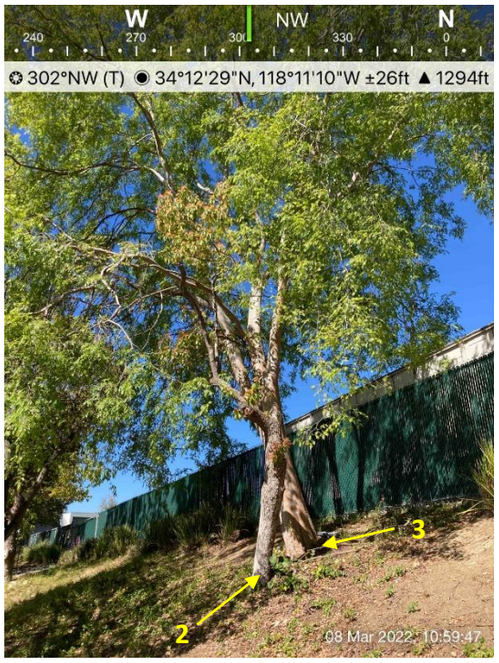


PHOTO 2: Northwest facing view of Tree #2, a camphor tree and Tree #3, a Chinese elm. Date: March 8, 2022.

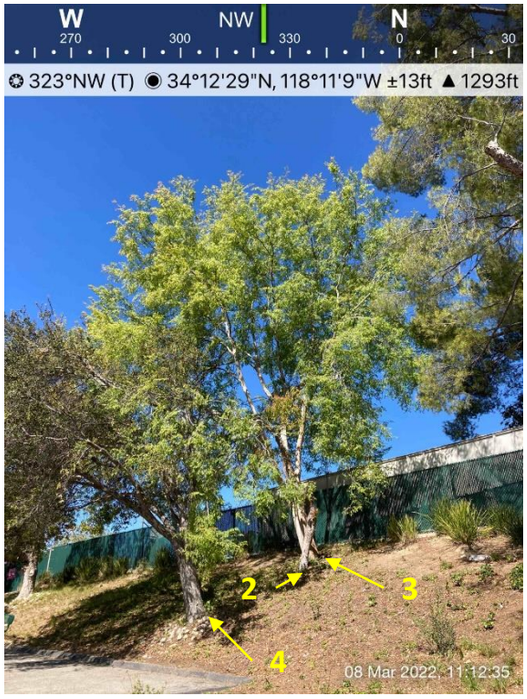


PHOTO 3: Northwest facing view of Trees #2 (camphor tree), Tree #3 (Chinese elm), and Tree #4 (coast live oak). Date: March 8, 2022.

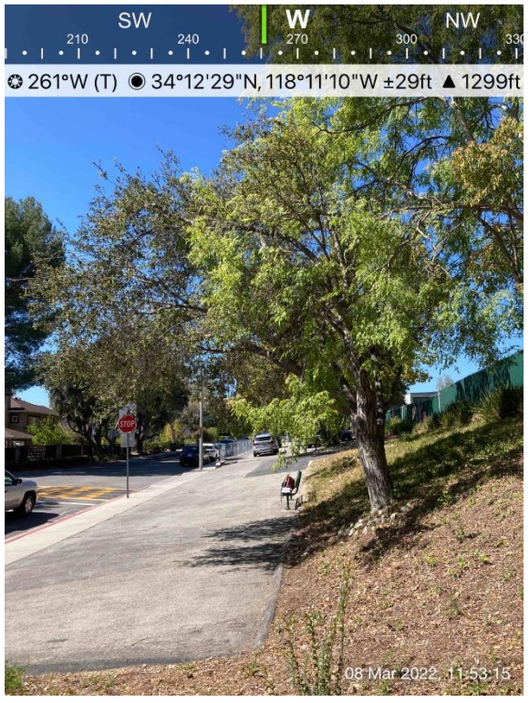


PHOTO 4: West facing view of Tree #4, a coast live oak. Date: March 8, 2022.



PHOTO 5: Wound from improper pruning of Tree #4,. Date: March 8, 2022.



PHOTO 6: Canker/wound present on Tree #4. Date: March 8, 2022.



PHOTO 7: Northeast facing view of Tree #5, a camphor tree. Date: March 8 2022.

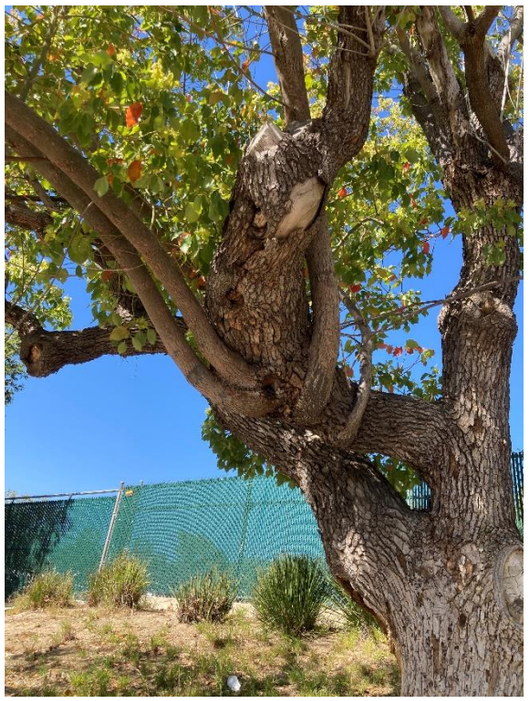


PHOTO 8: Multiple shoots originating from the pruning cuts on the main branch of Tree #5.. Date: March 8, 2022.



PHOTO 9: Canker with staining on Tree #5. Date: March 8 2022.



PHOTO 10: Northwest facing view of Tree #6, a coast live oak. Date: March 8, 2022.



PHOTO 11: Boring and/or woodpecker holes and cracked bark are present on the trunk of Tree #6. Date: March 8, 2022.

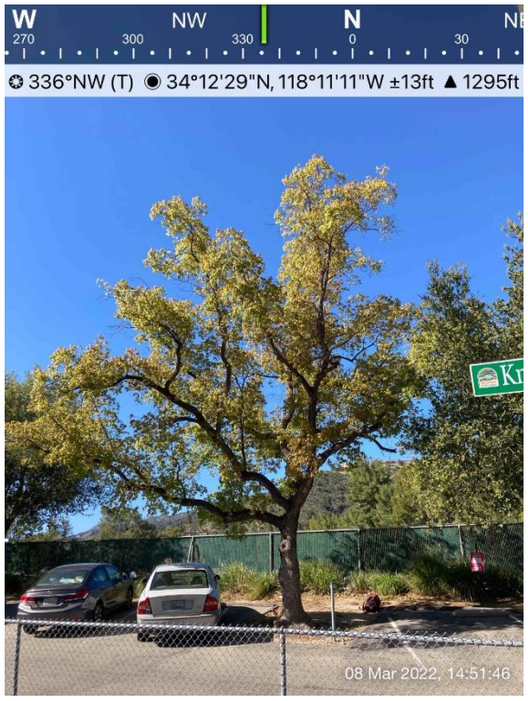


PHOTO 12: Northwest facing view of Tree #7, a camphor tree. Date: March 8, 2022.

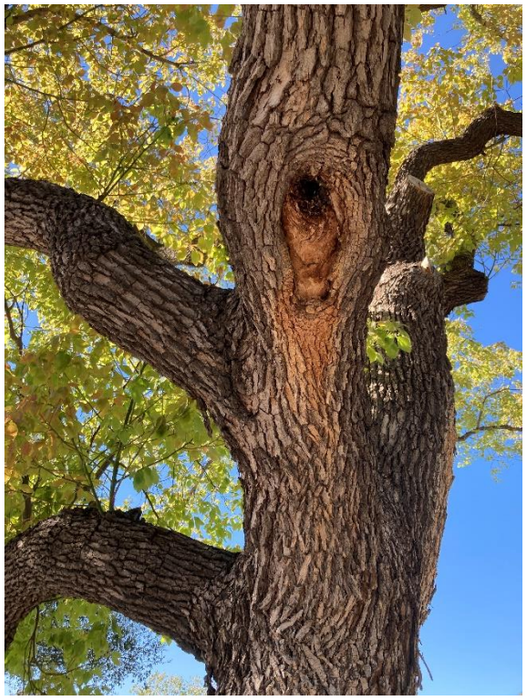


PHOTO 13: Pruning wound present on Tree #7. Date: March 8, 2022.

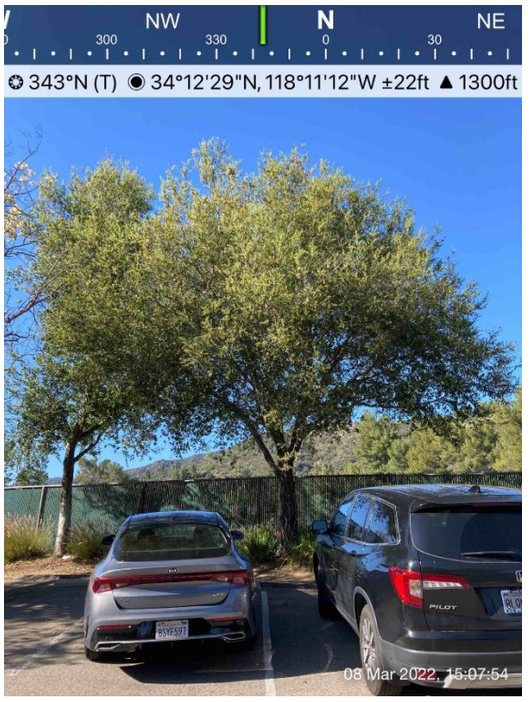


PHOTO 14: Northwest facing view of Tree #8, a coast live oak. Date: March 8, 2022.



PHOTO 15: Cracked bark with staining on Tree #8. Date: March 8 2022.

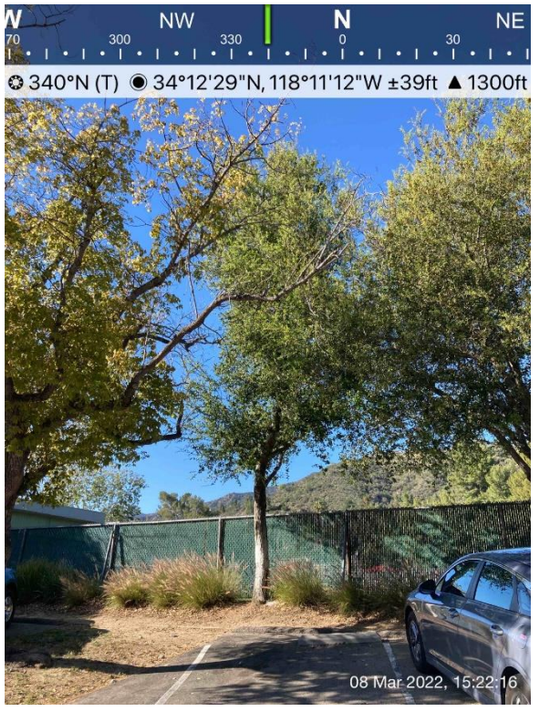


PHOTO 16: Northwest facing view of Tree #9, a coast live oak. Date: March 8, 2022.

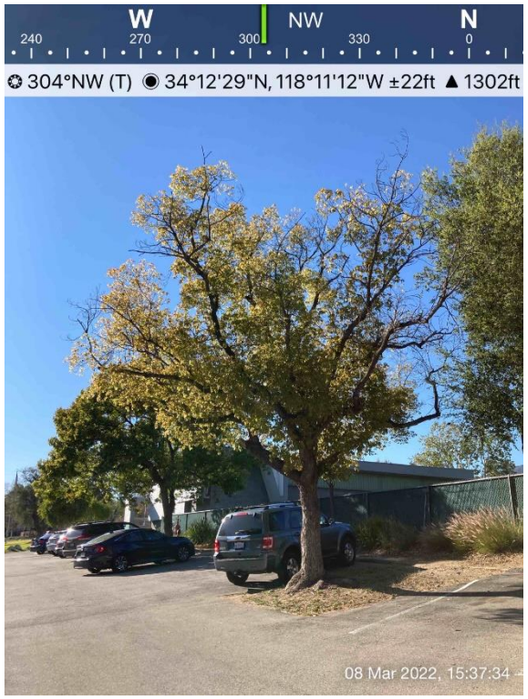


PHOTO 17: Northwest-facing view of Tree #10., a camphor tree. There is substantial dieback (approximately 5%) at the branch tips.. Date: March 8, 2022.

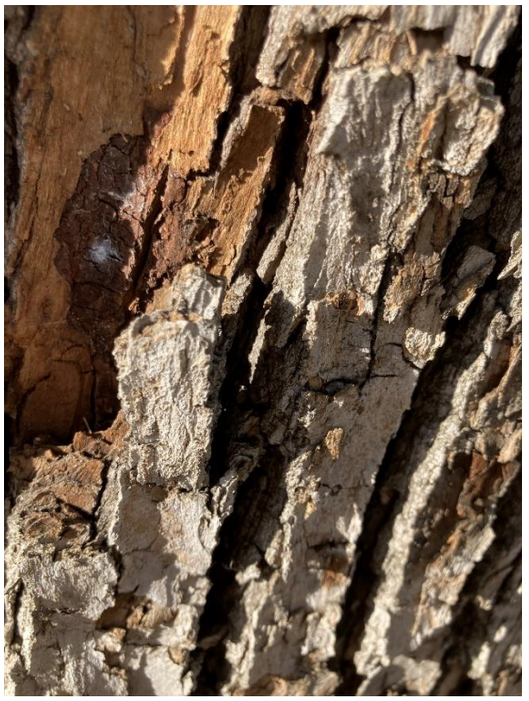


PHOTO 18: Brittle bark is flaking off; there appears to be larvae and a fungus species colonizing trunk of Tree #10. Date: March 8, 2022.

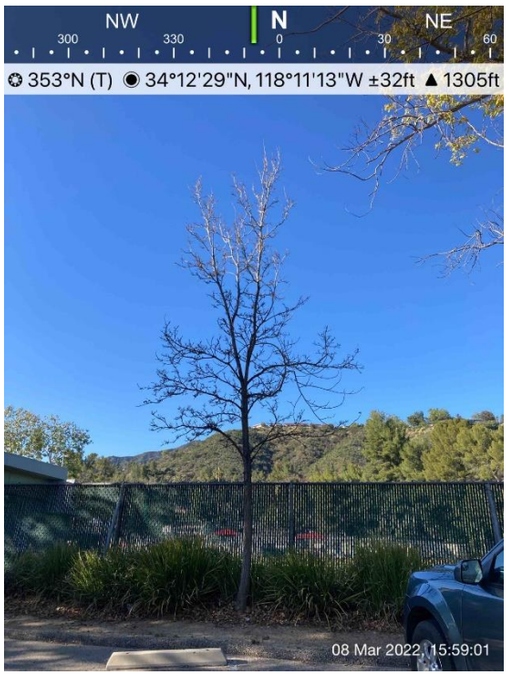


PHOTO 19: North-facing view of Tree #11, an unknown species. Date: March 8 2022.



PHOTO 20: Some fungus or lichen is present at the base of trunk on Tree #11.. Date: March 8, 2022.

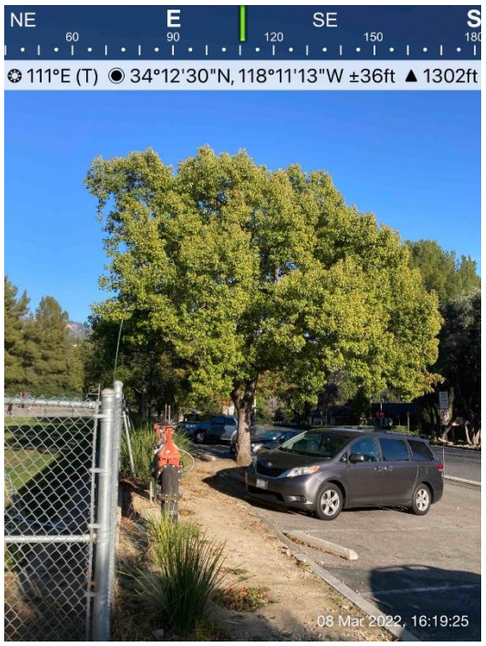


PHOTO 21: Southeast-facing view of Tree #12, a camphor tree. Date: March 8, 2022.



PHOTO 22: Some flaking and signs of boring present on the trunk of Tree #12.. Date: March 8, 2022.

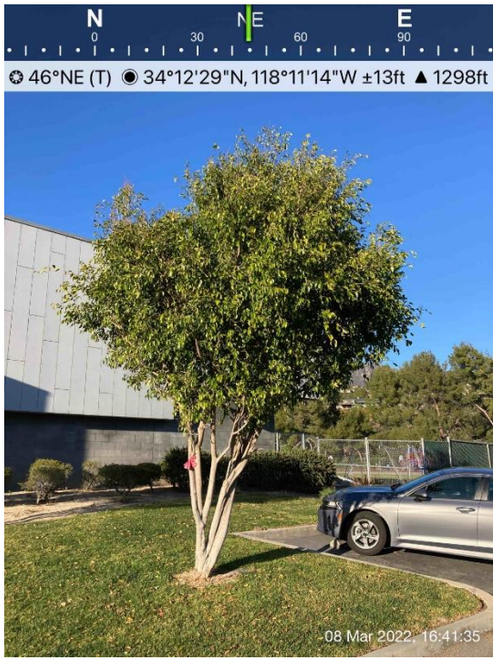


PHOTO 23: Northeast-facing view of Tree #13, a weeping fig. Date: March 8 2022.

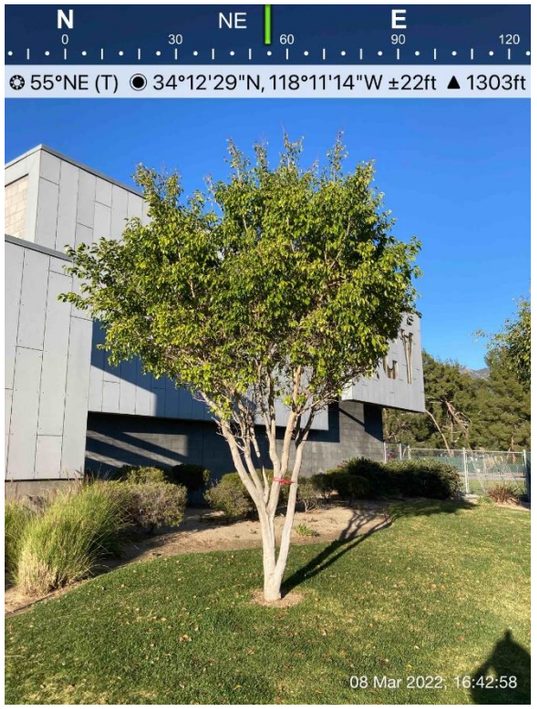


PHOTO 24: Northwest facing view of Tree #14, a weeping fig. Date: March 8, 2022.

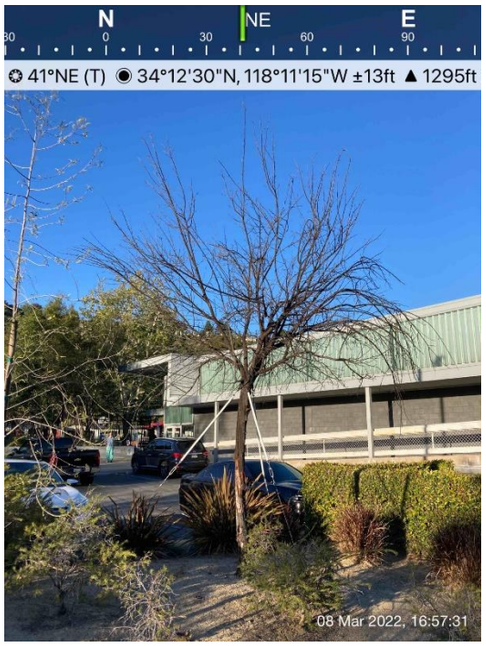


PHOTO 25: Northeast-facing view of Tree #15, an unknown species. Date: March 8, 2022.



PHOTO 26: Splitting trunk and flaking bark of Tree #15. Date: March 8, 2022.

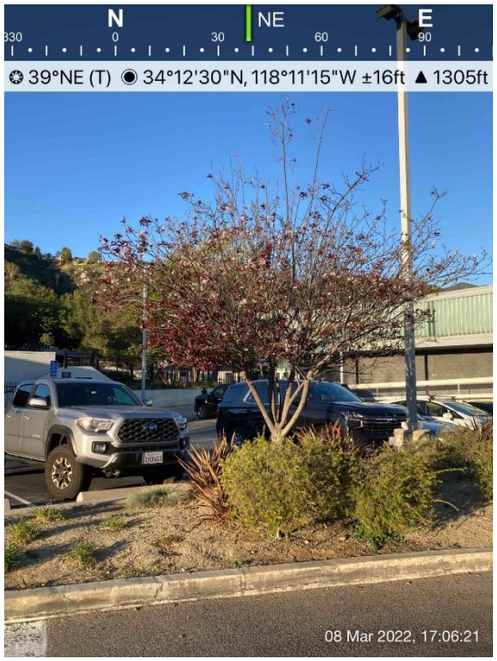


PHOTO 27: Northeast-facing view of Tree #16, a cherry plum. Date: March 8 2022.



PHOTO 28: Northwest facing view of Tree #17, a sweetgum. Date: March 8, 2022.



PHOTO 29: Northwest-facing view of Tree #18, a sweetgum. Date: March 8, 2022.

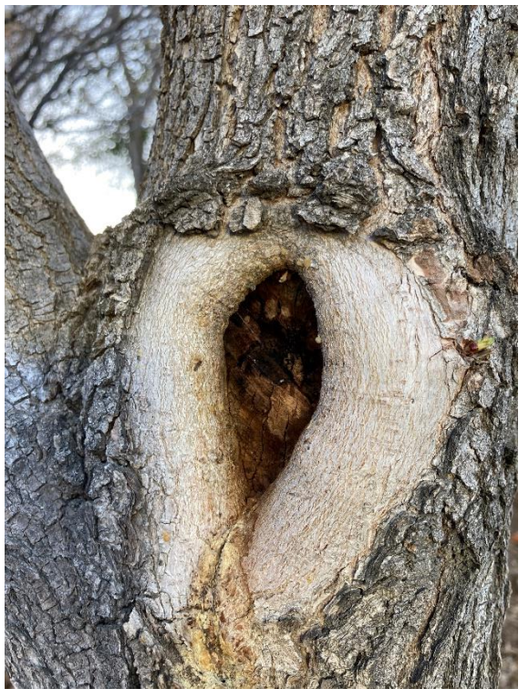


PHOTO 30: Pruning scar and sunken tissue of Tree #18. Date: March 8, 2022.

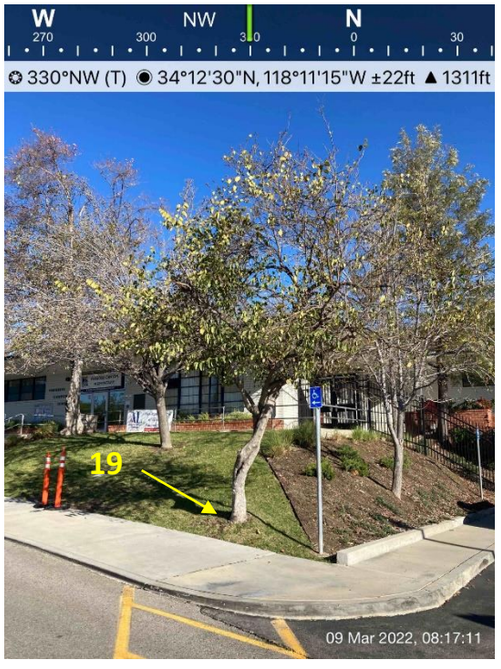


PHOTO 31: Northwest-facing view of Tree #19, a mountain ebony. Date: March 9, 2022.



PHOTO 32: Some staining on bark of Tree #19. Date: March 9, 2022.

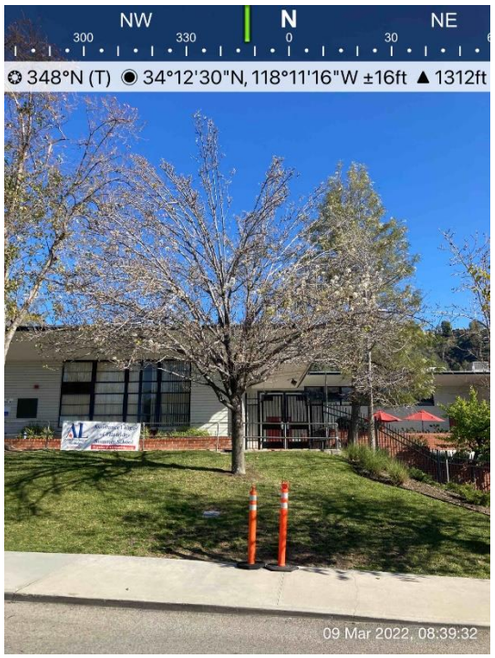


PHOTO 33: Northwest-facing view of Tree #20, a Callery pear. Date: March 9, 2022.

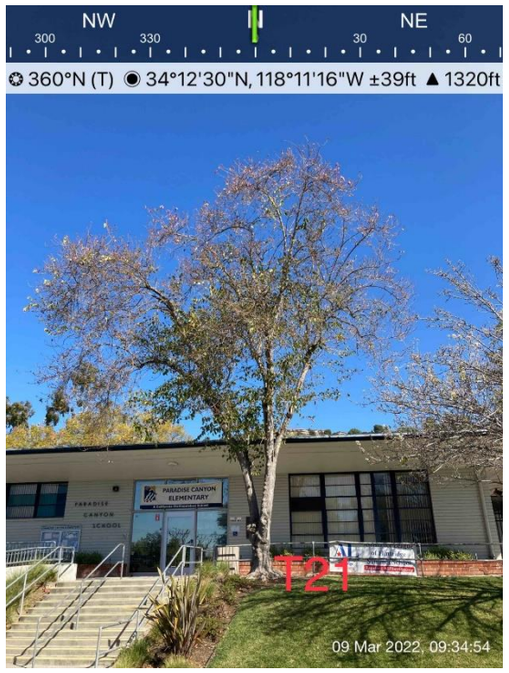


PHOTO 34: North-facing view of Tree #21, a mountain ebony. Date: March 9, 2022.

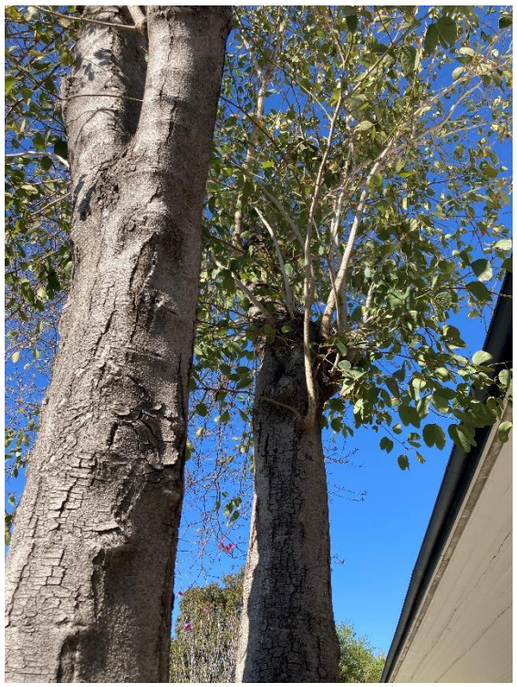


PHOTO 35: Multiple shoots at pruning cut on Tree #21. Date: March 9, 2022.

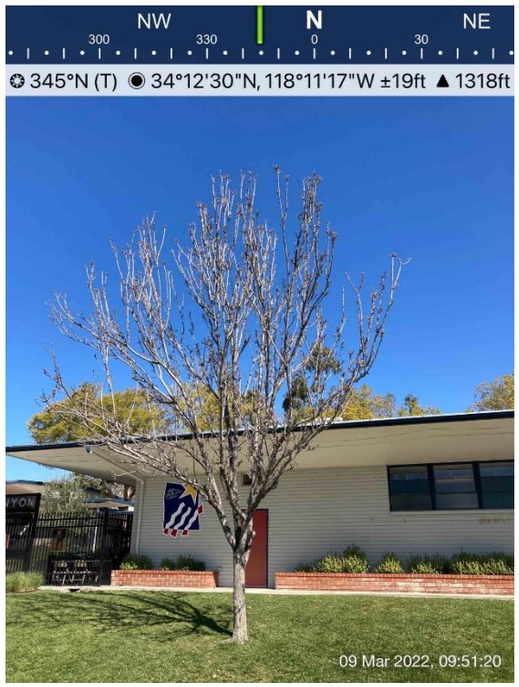


PHOTO 36: Northwest-facing view of Tree #22. Date: March 9, 2022.



PHOTO 37: Northwest-facing view of Tree #23, a coast live oak. Date: March 9, 2022.



PHOTO 38: Northwest-facing view of Tree #24, a silk floss tree. Date: March 9, 2022.



PHOTO 39: Inclusion at branch attachment on Tree #24. Date: March 9, 2022.

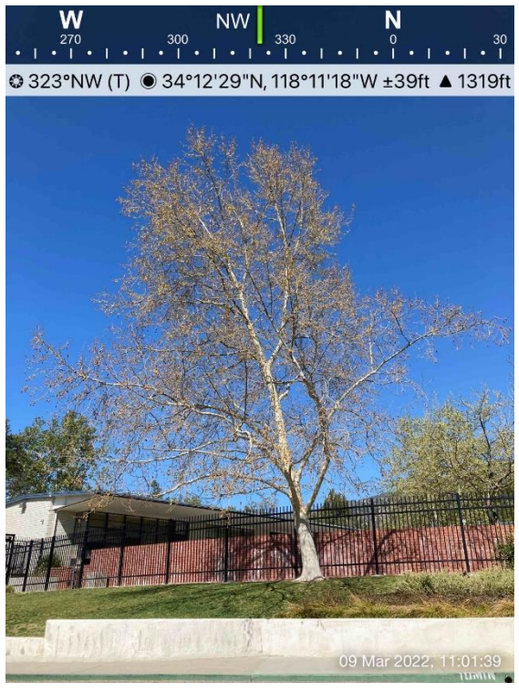


PHOTO 40: Northwest-facing view of Tree #25, a London plane tree. Date: March 9, 2022.

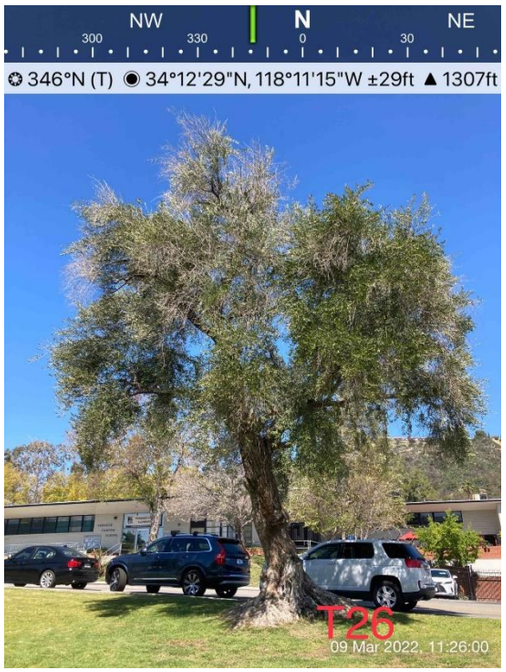


PHOTO 41: Northwest-facing view of Tree #26, an olive tree. Date: March 9, 2022.



PHOTO 42: Ponding of water in he root collar of Tree #26. Date: March 9, 2022.

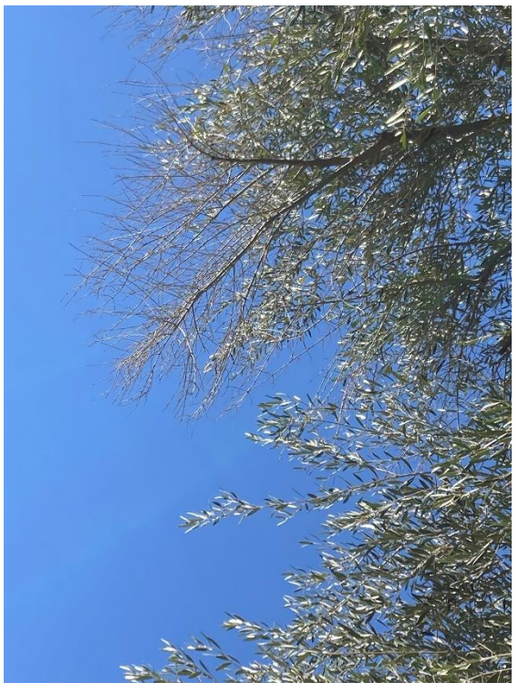


PHOTO 43: Substantial dieback (approximately 10%) of the canopy of Tree #26. Date: March 9, 2022.

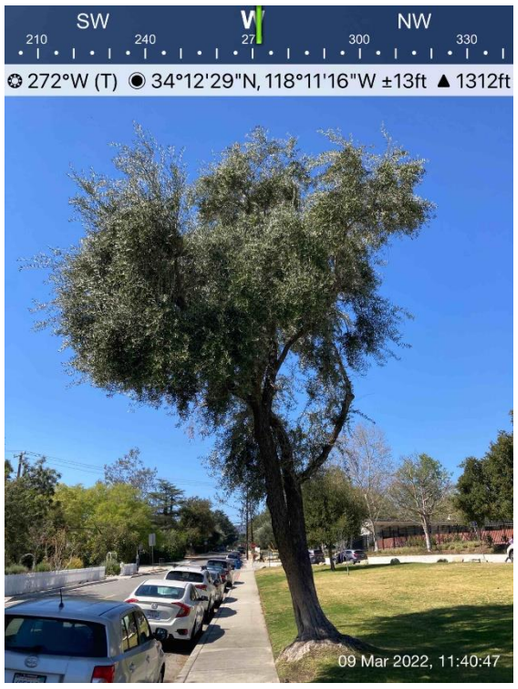


PHOTO 44: West-facing view of Tree #27, an olive tree. Date: March 9, 2022.



PHOTO 45: Co-dominant trunk on Tree #27, an olive tree. Date: March 9, 2022.



PHOTO 46: Sunken wound on Tree #27. Date: March 9, 2022.

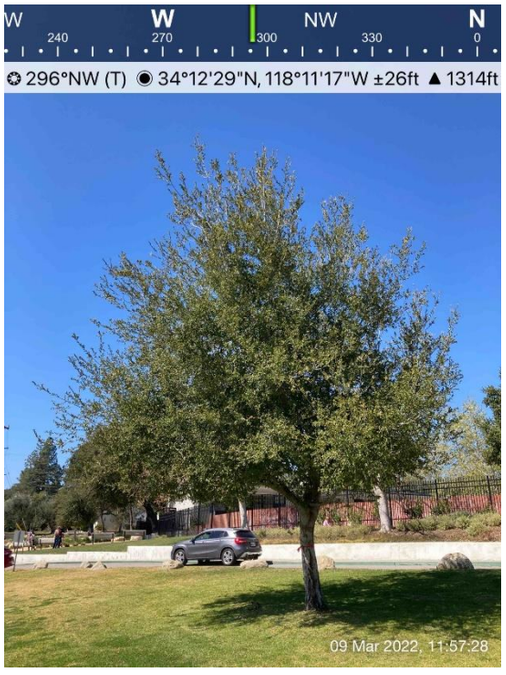


PHOTO 47: Northwest-facing view of Tree #28, a coast live oak. Date: March 9, 2022.



PHOTO 48: Holes and staining on the trunk of Tree #28. Date: March 9, 2022.



PHOTO 49: North-facing view of Tree #29, a coast live oak. Date: March 9, 2022.

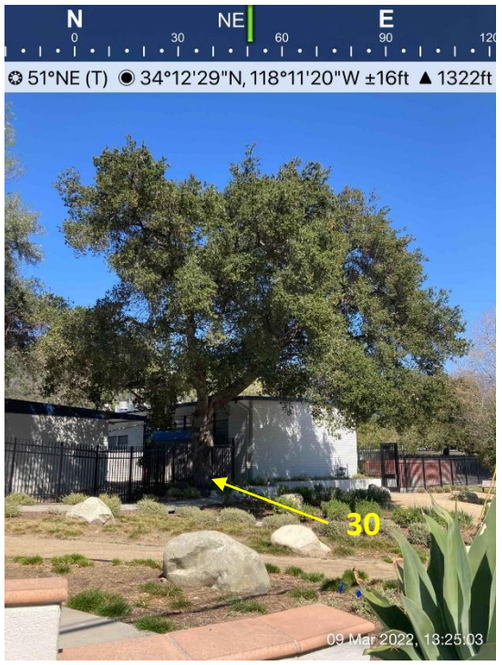


PHOTO 50: Northeast-facing view of Tree #30, a coast live oak. Date: March 9, 2022.

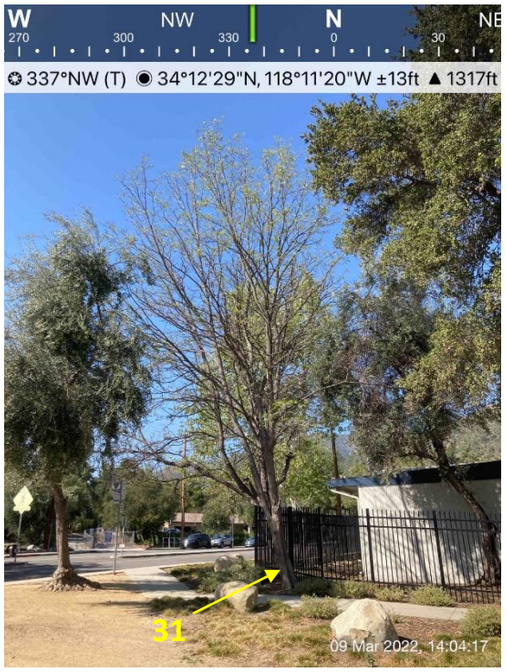


PHOTO 51: Northwest-facing view of Tree #31, a black locust. Date: March 9, 2022.

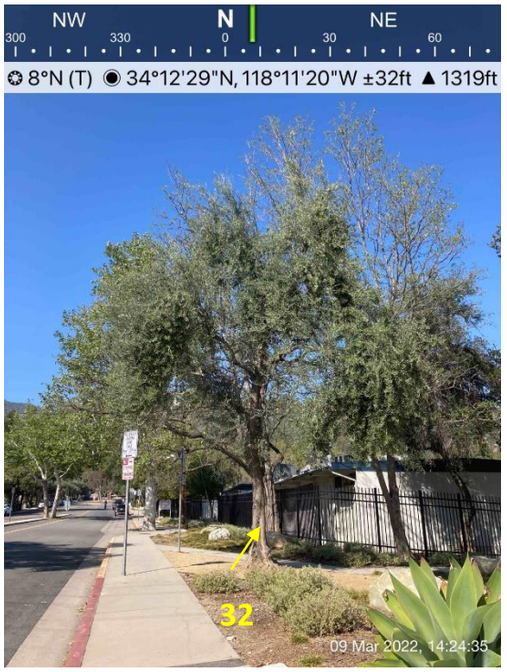


PHOTO 52: North-facing view of Tree #32, an olive tree. Date: March 9, 2022.



PHOTO 49: Large wound where branch was sheared off of main trunk. Wound covered with mud. Tree #32. Date: March 9, 2022.

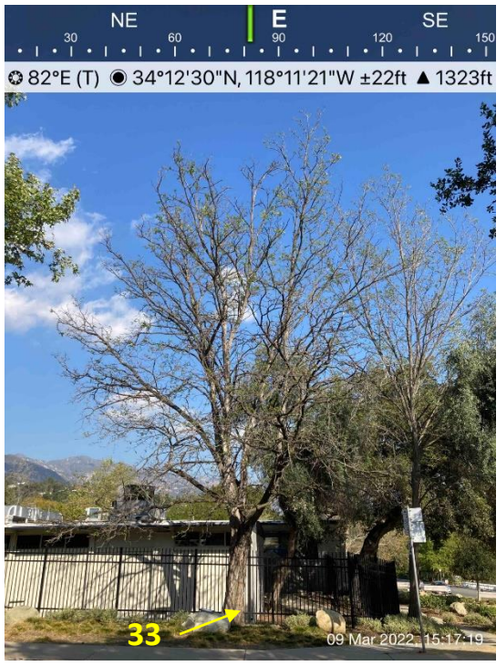


PHOTO 50: East-facing view of Tree #33, a black locust. Date: March 9, 2022.

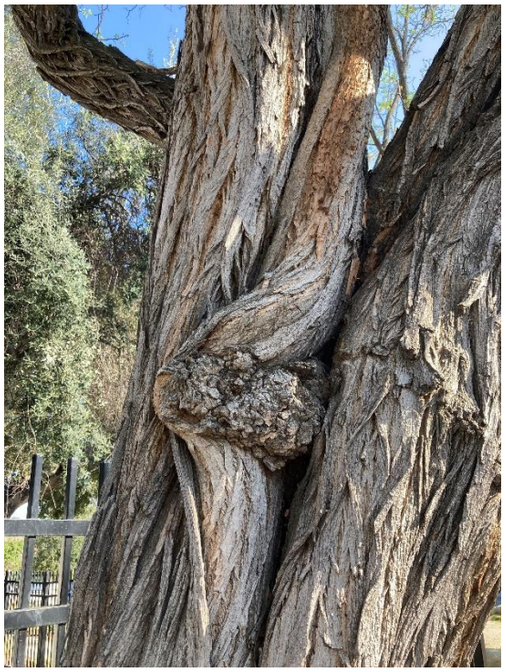


PHOTO 51: Inclusion where primary branches separate from bark of Tree #33. Date: March 9, 2022.



PHOTO 52: Southeast-facing view of Tree #34, a western sycamore. Date: March 9, 2022.



PHOTO 53: Pruning wound on Tree #34. Date: March 9, 2022.

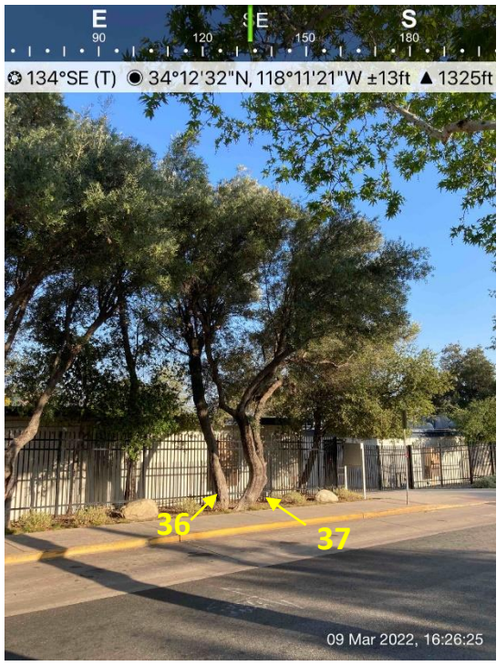


PHOTO 54: Southeast-facing view of Tree #35 and Tree #36, two olive trees. Date: March 9, 2022.

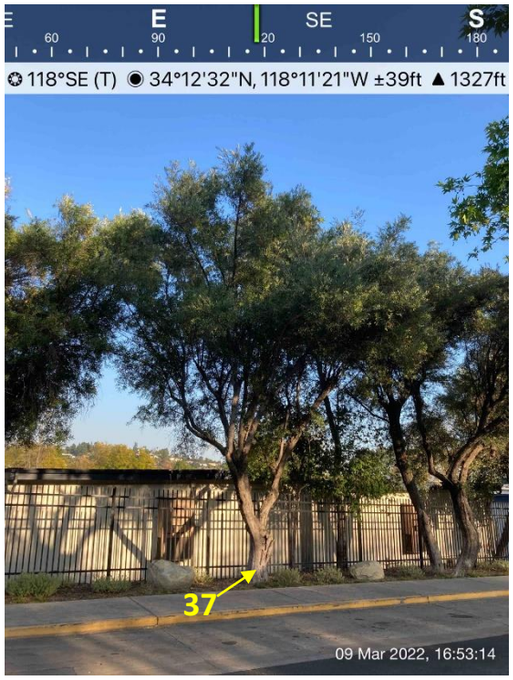


PHOTO 55: Southeast-facing view of Tree #37, an olive tree. Date: March 9, 2022.

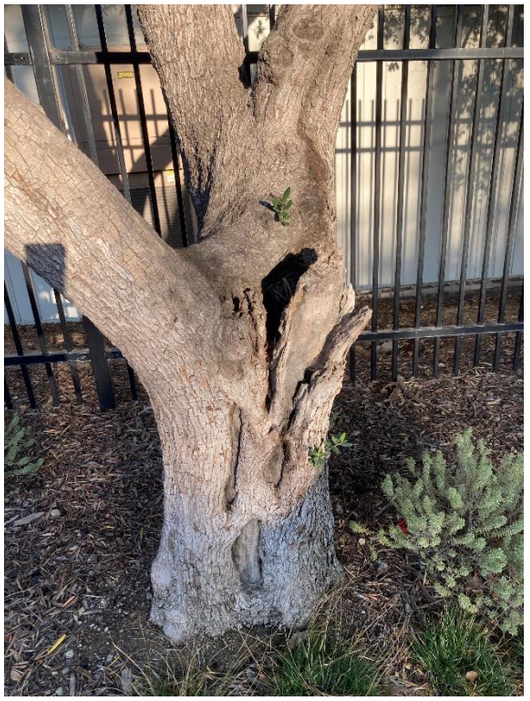


PHOTO 56: Sheared-off branch, Tree #37. Date: March 9, 2022.

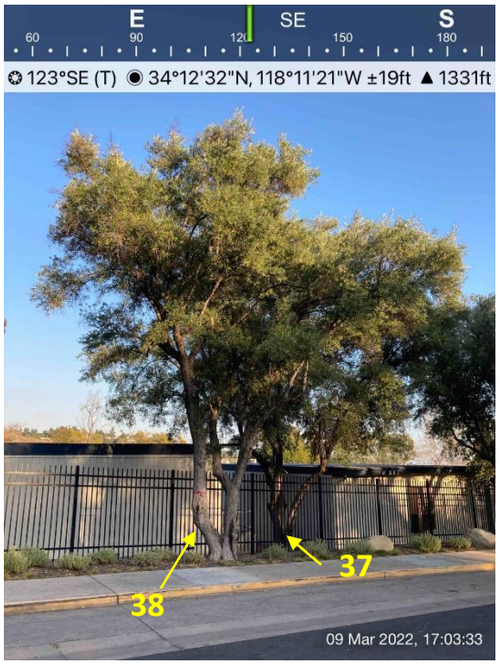


PHOTO 57: Southeast-facing view of Tree #37 and Tree #38, two olive trees. Date: March 9, 2022.



PHOTO 58: Stain from black paint and sap ooze at wounds of Tree #38. Date: March 9, 2022.

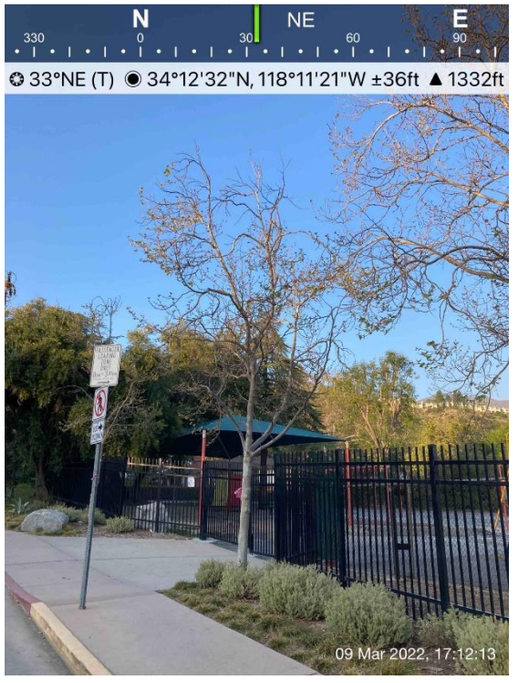


PHOTO 59: Northeast-facing view of Tree #39, a London plane tree. Date: March 9, 2022.

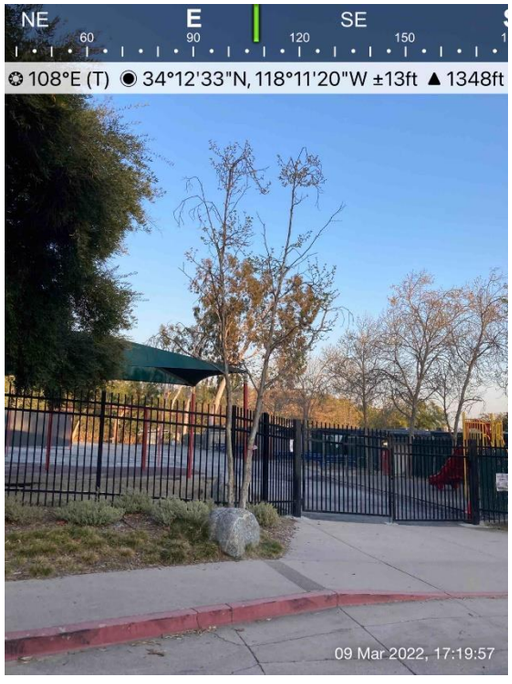


PHOTO 60: East-facing view of Tree #40, a London plane tree. Date: March 9, 2022.



PHOTO 61: Some dieback (approximately 5%) of canopy of Tree #40. Date: March 9, 2022.

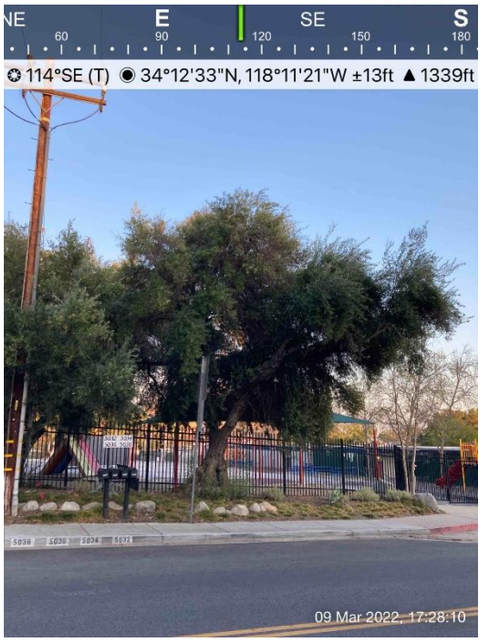


PHOTO 62: Southeast-facing view of Tree #41, an olive tree. Date: March 9, 2022.

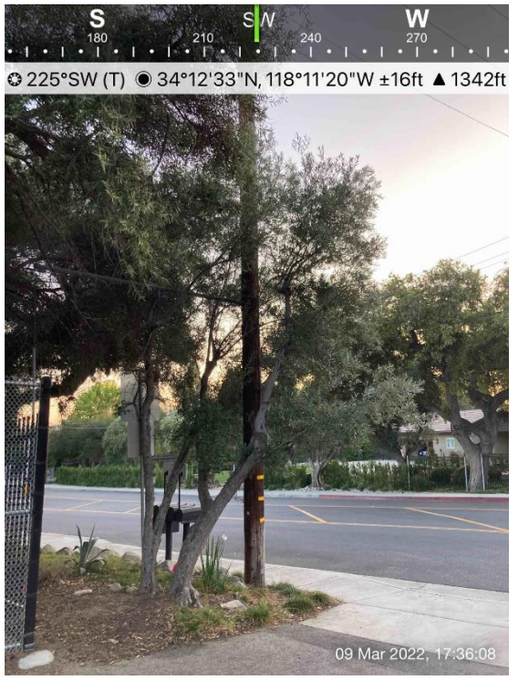


PHOTO 63: Southwest-facing view of Tree #42, an olive tree. Date: March 9, 2022.



PHOTO 64: Southwest-facing view of Tree #43, a western sycamore. Date: March 10, 2022.



PHOTO 65: Stain and graffiti on bark of Tree #43. Date: March 10, 2022.



PHOTO 66: Southwest-facing view of Tree #44, a coast live oak. Date: March 10, 2022.



PHOTO 67: Several small burls on the trunk of Tree #44. Date: March 10, 2022.

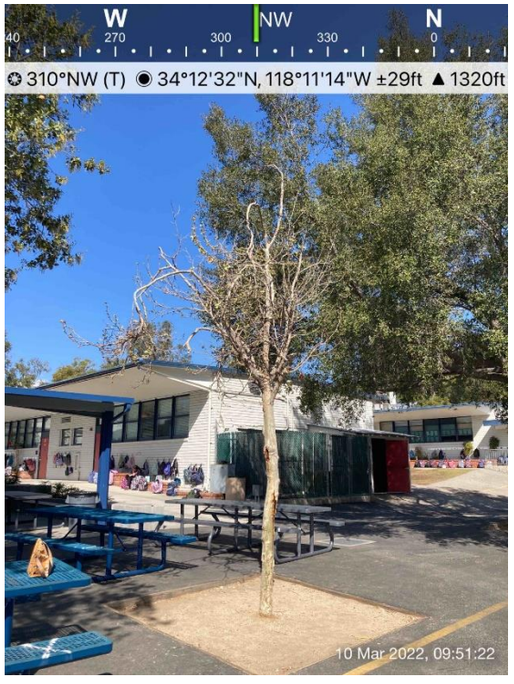


PHOTO 68: Northwest-facing view of Tree #45, an American sycamore. Date: March 10, 2022.



PHOTO 69: Staining and/or sap ooze at canker of Tree #45. Date: March 10, 2022.



PHOTO 70: Bowing of branches on Tree #45. Date: March 10, 2022.

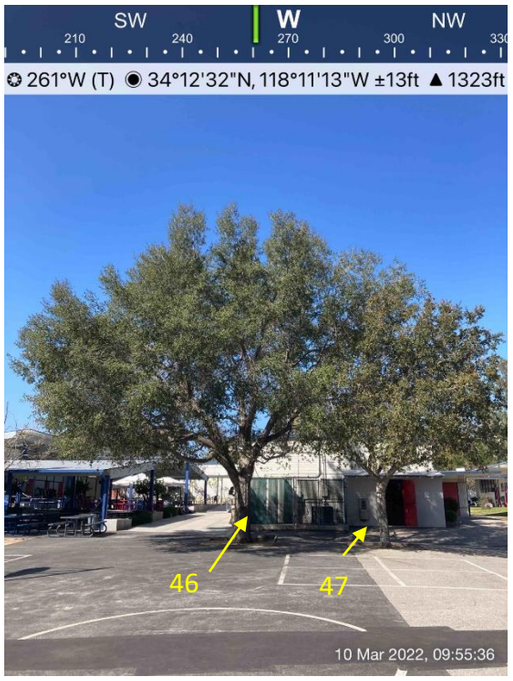


PHOTO 71: West-facing view of Tree #46 and Tree #47, two coast live oak trees. Date: March 10, 2022.



PHOTO 72: Woodpecker holes and staining on Tree #47. Date: March 10, 2022.

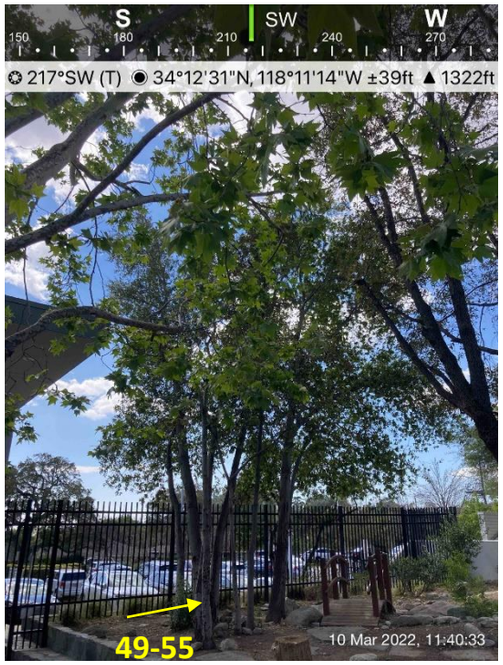


PHOTO 73: Southwest-facing view of Trees #49-55, coast live oak trees. Date: March 10, 2022.



PHOTO 74: Some staining on the trunk of Tree #49. Date: March 10, 2022.



PHOTO 75:Stained bark on Tree #52, Date: March 10, 2022.



PHOTO 76: Staining on Tree #53.. Date: March 10, 2022.



PHOTO 77:West-facing view of Trees 57, a blue elderberry trees. Date: March 10, 2022.



PHOTO 78: Tree #58 and Tree #59, two strawberry trees Date: March 10, 2022.

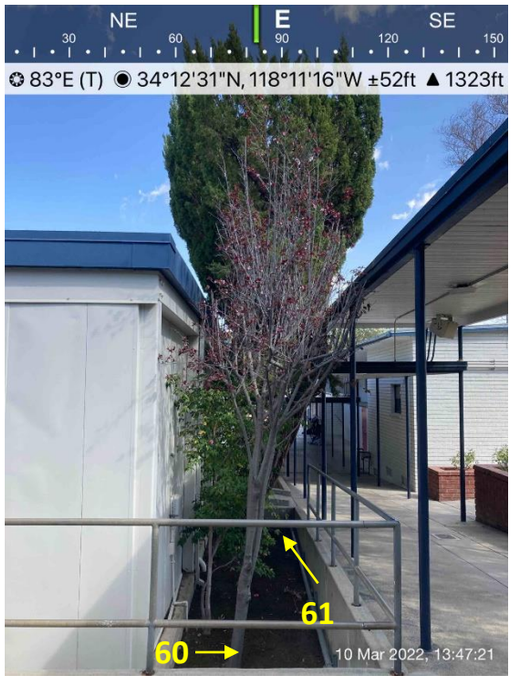


PHOTO 79: East-facing view of Tree #60; cherry plum, and Tree #61; juniper species. Date: March 10, 2022.

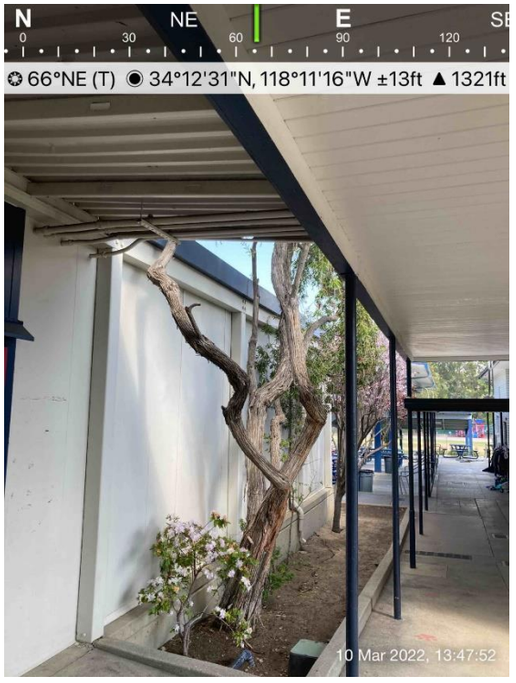


PHOTO 80: Northeast-facing view of Tree #62, a crimson bottlebrush.. Date: March 10, 2022.

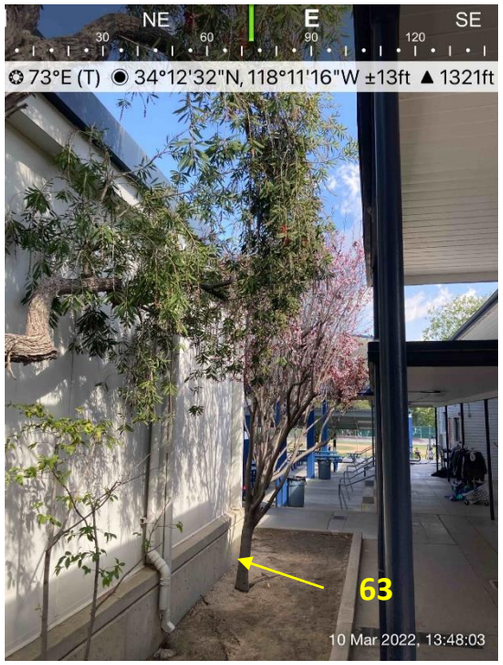


PHOTO 81:Northeast-facing view of Tree #63, a cherry plum tree. Date: March 10, 2022.

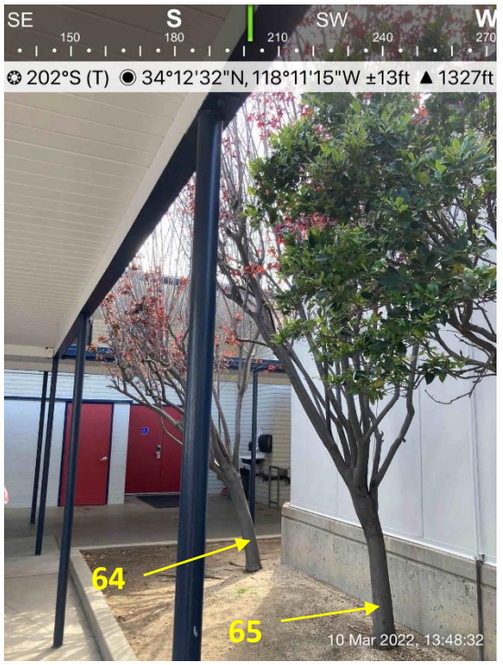


PHOTO 82: Southwest-facing view of Tree #64 and Tree #65 , two cherry plum trees. Date: March 10, 2022.

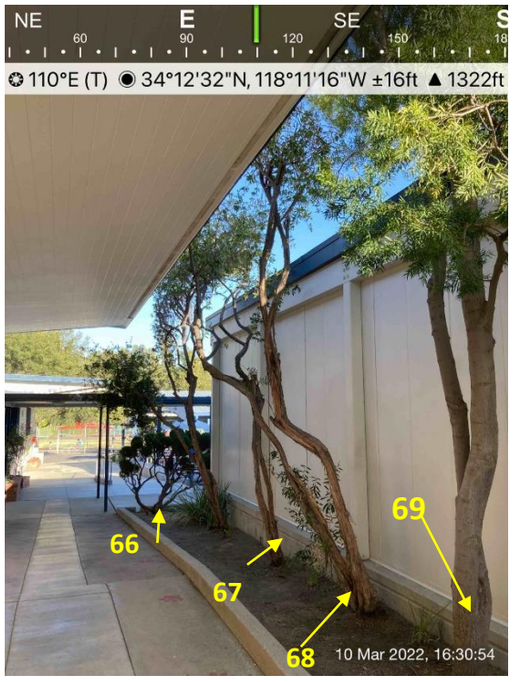


PHOTO 83: Southeast-facing view of Tree #66, #67, #68, three crimson bottlebrush, and #69, an African fern pine. Date: March 10, 2022.



PHOTO 84: East-facing view of Tree #69, an African fern pine.. Date: March 10, 2022.



PHOTO 85:Wast-facing view of Tree #70, a blue jacaranda. Date: March 10, 2022.



PHOTO 86: Co-dominant trunks of Tree #70. Exposed roots and soil compaction are also pictured. Date: March 10, 2022.

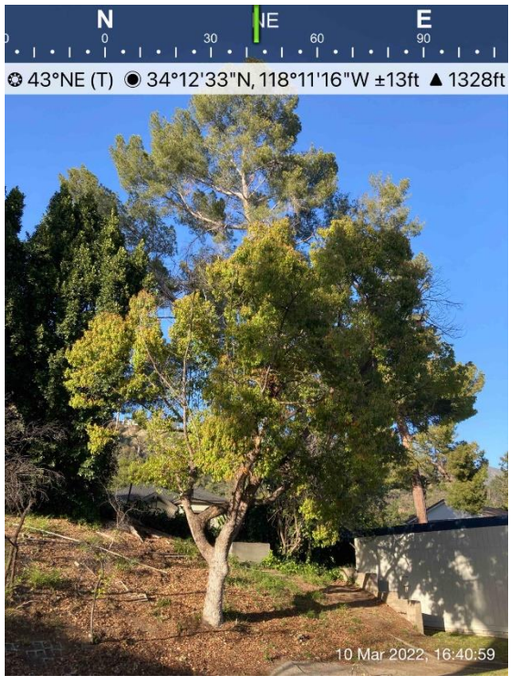


PHOTO 87: Northeast-facing view of Tree #71, a camphor tree. Date: March 10, 2022.

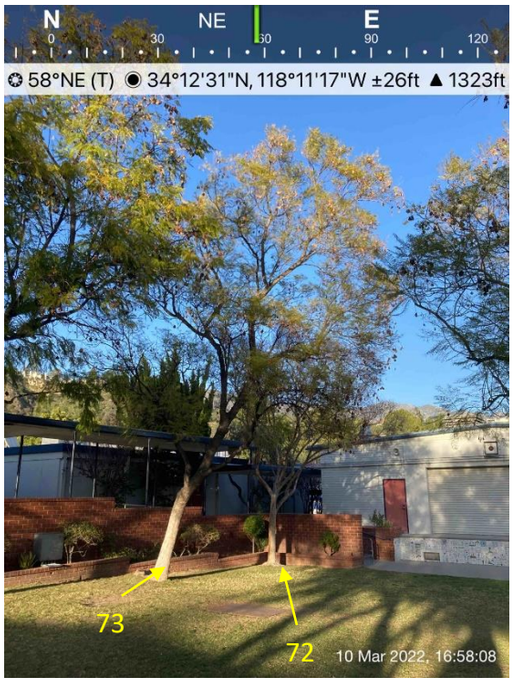


PHOTO 88: Northeast-facing view of Trees #72, a crapemyrtle (right) and #73, a blue jacaranda (left). Date: March 10, 2022

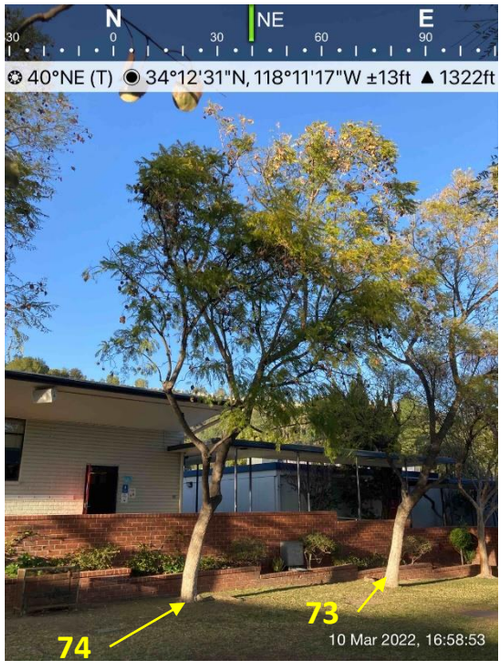


PHOTO 89: Northeast-facing view of Trees #73, and #74, two blue jacaranda. Date: March 10, 2022

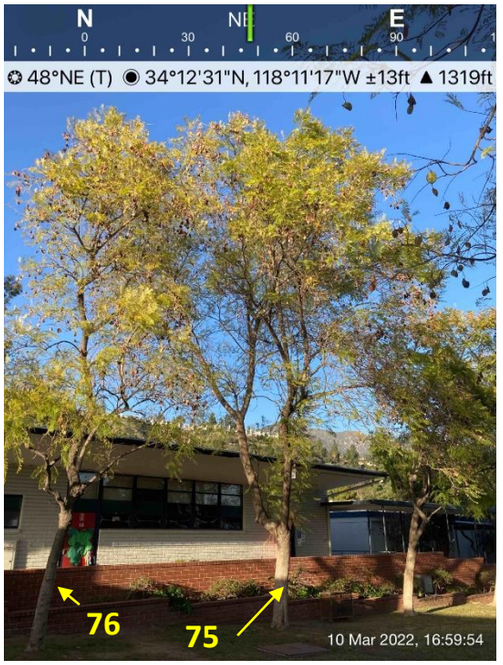


PHOTO 90: North-facing view of Trees #75 and #76, two blue jacaranda. Date: March 10, 2022.

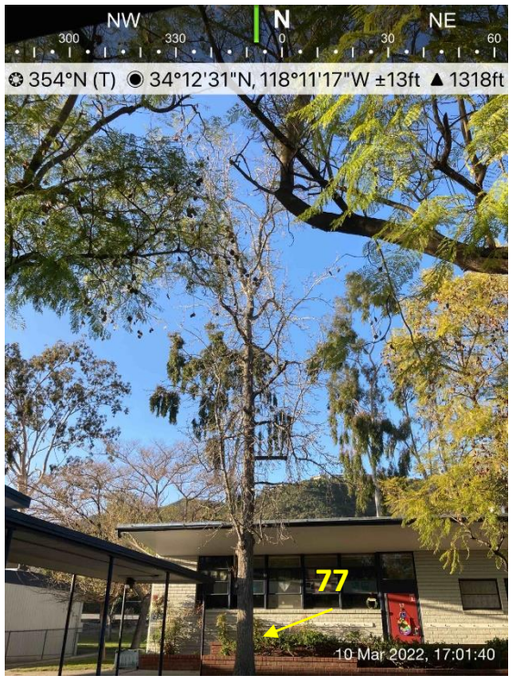


PHOTO 91: North-facing view of Tree #77, a sweetgum. Date: March 10, 2022.

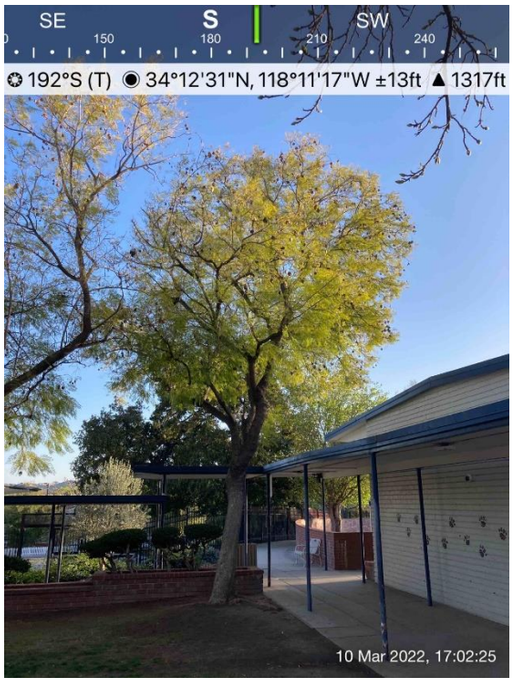


PHOTO 92: South-facing view of Tree #78, a blue jacaranda. Date: March 10, 2022

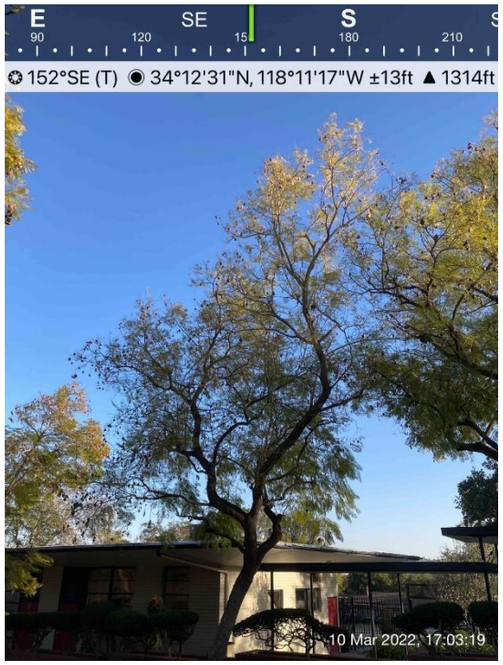


PHOTO 93: Southeast-facing view of Tree #79, a blue jacaranda . Date: March 10, 2022

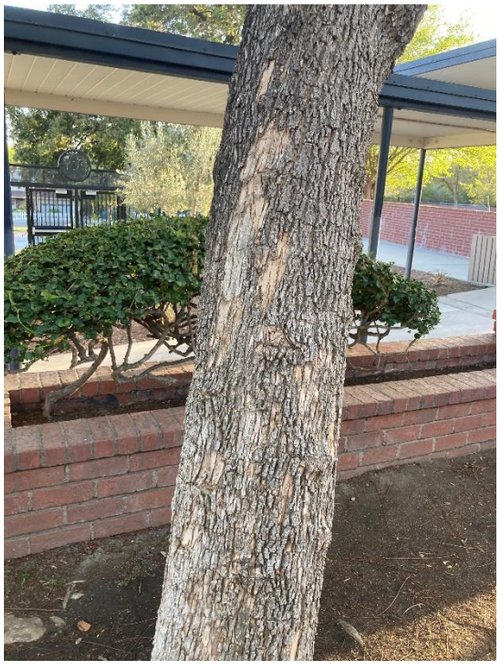


PHOTO 94: Minor bark injury on Tree #79. Date: March 10, 2022.



PHOTO 95: Southeast-facing view of Tree #80, a blue jacaranda. Date: March 10, 2022.



PHOTO 96: Southeast-facing view of Trees #80 and #81, two blue jacaranda. Date: March 10, 2022



PHOTO 93: Moderate bark injury to Tree #81. Date: March 10, 2022

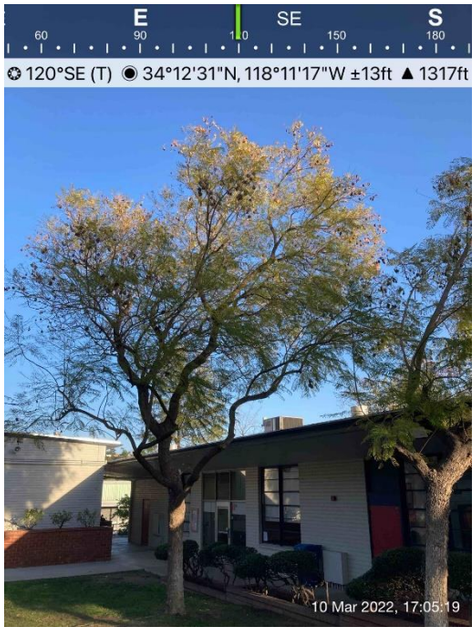


PHOTO 94: Southeast-facing view of Tree #82, a blue jacaranda. Date: March 10, 2022.



PHOTO 95: Bark injury on Tree #82. Date: March 10, 2022.

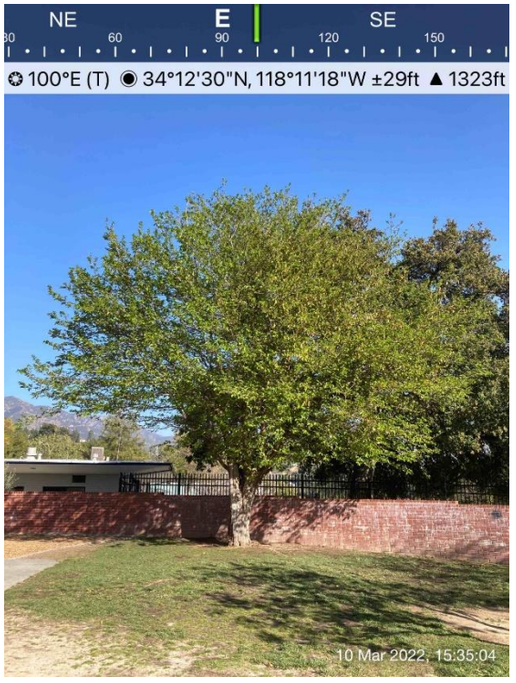


PHOTO 96: East-facing view of Tree #83, a white mulberry. Date: March 10, 2022



PHOTO 97: Rotting cut stump with woodpecker and/or bore holes on Tree #83. Date: March 10, 2022

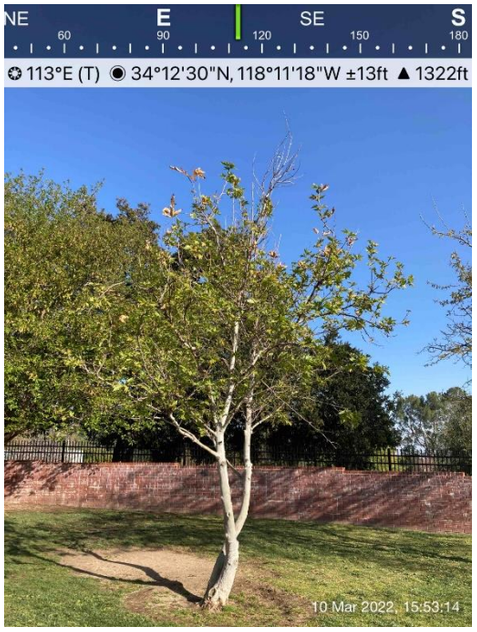


PHOTO 98: Southeast-facing view of Tree #84, a western sycamore. Date: March 10, 2022.

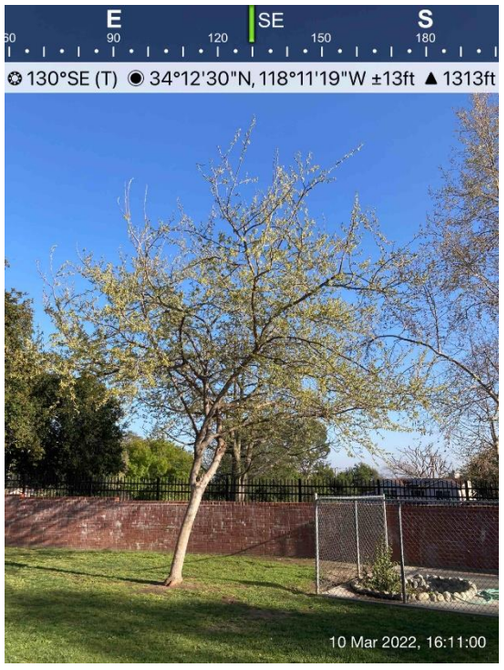


PHOTO 99: Southeast-facing view of Tree #85, a white mulberry. Date: March 10, 2022.

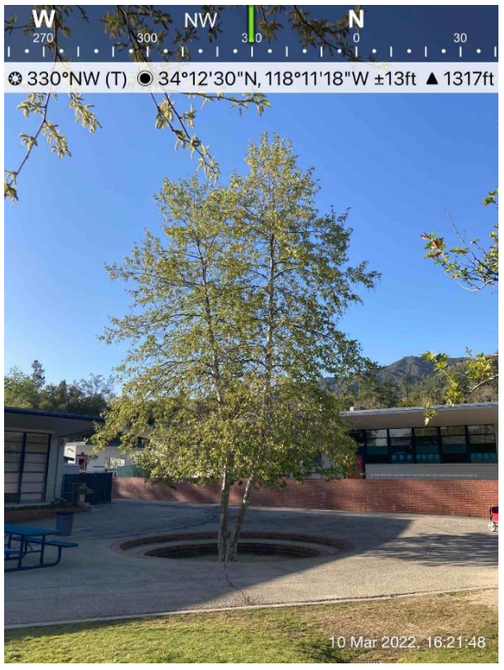


PHOTO 100: Northwest-facing view of Tree #86, a western sycamore. Date: March 10, 2022

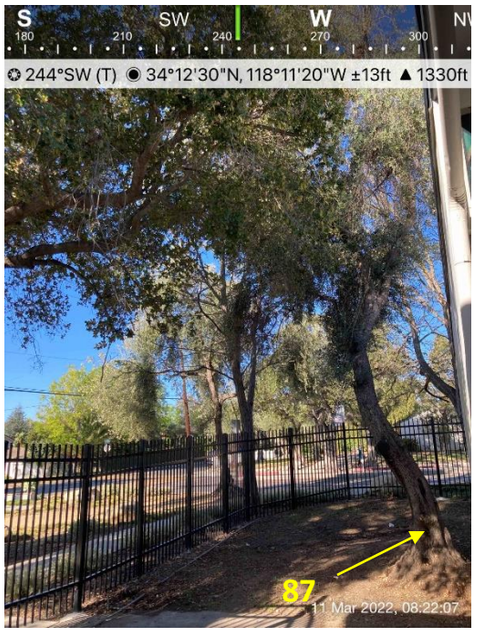


PHOTO 101: Southwest-facing view of Tree #87, an olive tree. Date: March 11, 2022



PHOTO 102: Sunken wound on Tree #87. Date: March 11, 2022.

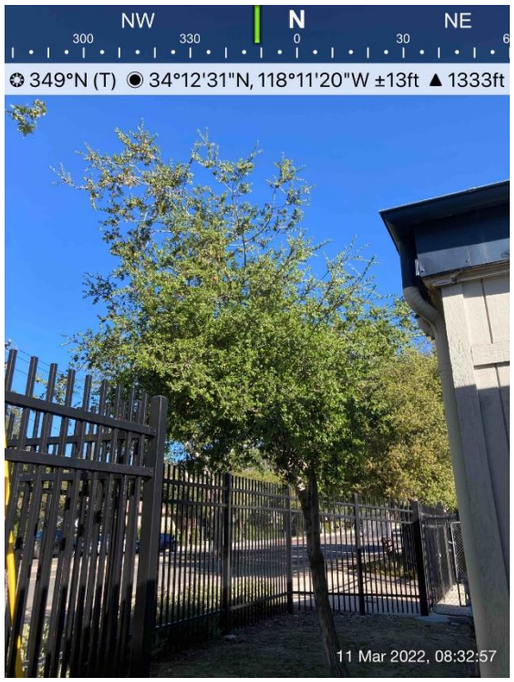


PHOTO 103: North-facing view of Tree #88, a coast live oak. Date: March 11, 2022.



PHOTO 104: North-facing view of Tree #89, a coast live oak. Date: March 11, 2022

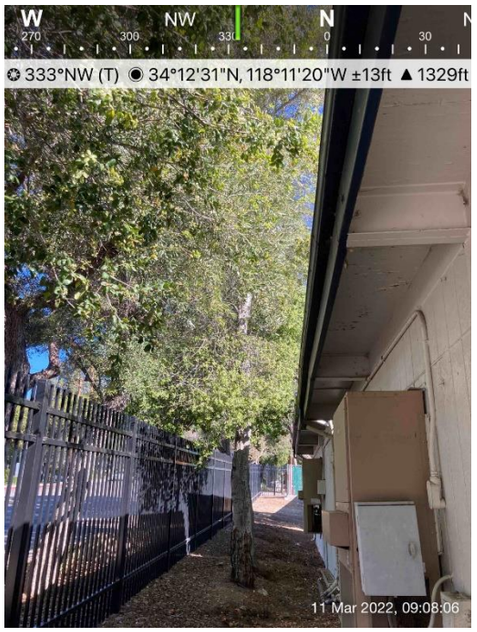


PHOTO 105: Northwest-facing view of Tree #90, a coast live oak. Date: March 11, 2022



PHOTO 106: Boring and/or woodpecker holes on Tree #90. Date: March 11, 2022.

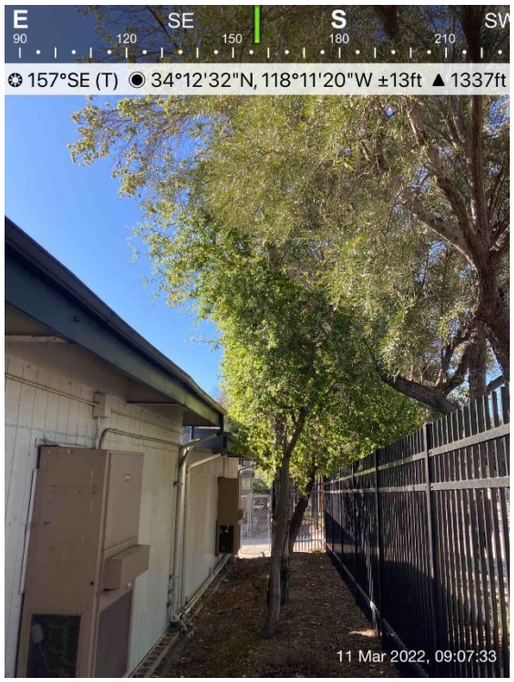


PHOTO 107: Southeast-facing view of Tree #91, a coast live oak. Date: March 11, 2022.



PHOTO 108: Partially-exposed roots of Tree #91. Date: March 11, 2022

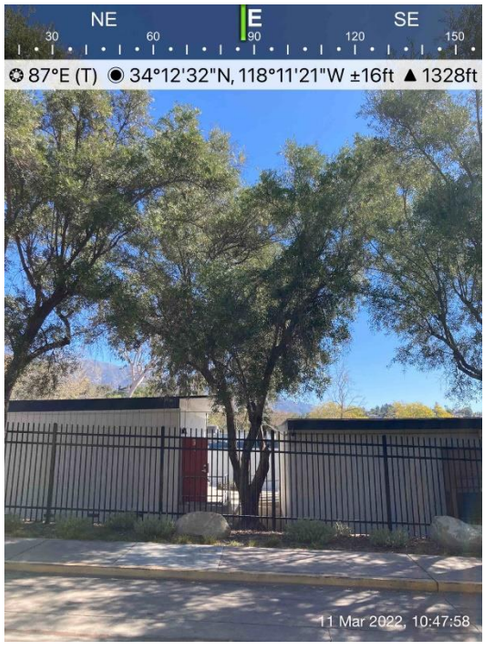


PHOTO 109: East-facing view of Tree #92, an olive tree. Date: March 11, 2022



PHOTO 110: Sunken wound/canker on Tree #92. Date: March 11, 2022.



PHOTO 111: North-facing view of Tree #93, a white mulberry. Date: March 11, 2022.



PHOTO 112: Some bark damage to Tree #93. Date: March 11, 2022

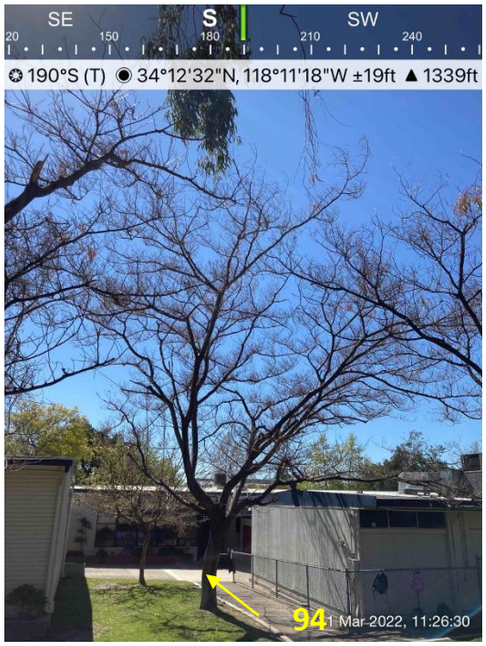


PHOTO 113: South-facing view of Tree #94, a silk tree. Date: March 11, 2022

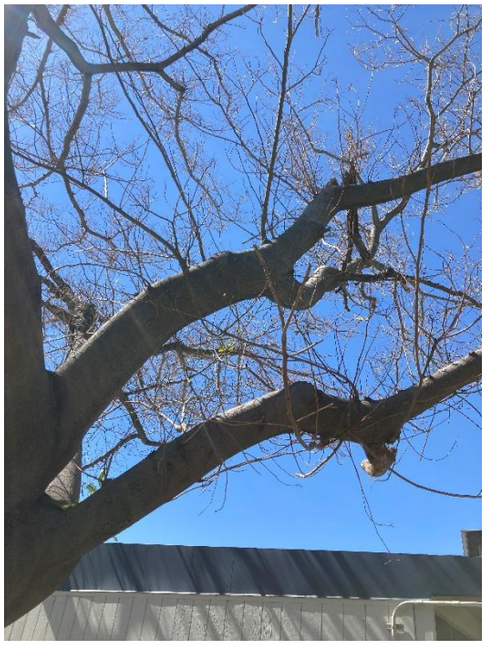


PHOTO 114: Multiple shoots emerging from pruning cuts on Tree #94. Date: March 11, 2022.



PHOTO 115: Northwest-facing view of Tree #95, Tree #96, and Tree #97, three silk trees. Tree #102, a eucalyptus, is also pictured. Date: March 11, 2022.

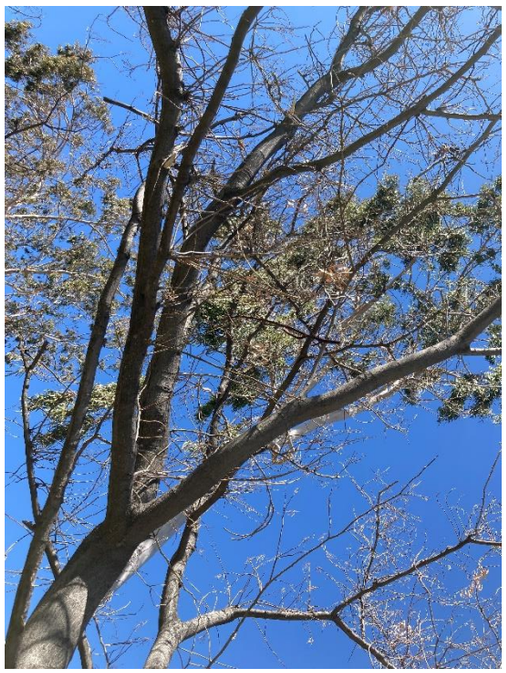


PHOTO 116: Multiple shoots emerging from pruning cuts on Tree #95. Date: March 11, 2022



PHOTO 117: West-facing view of Tree #98, a white mulberry. Date: March 11, 2022

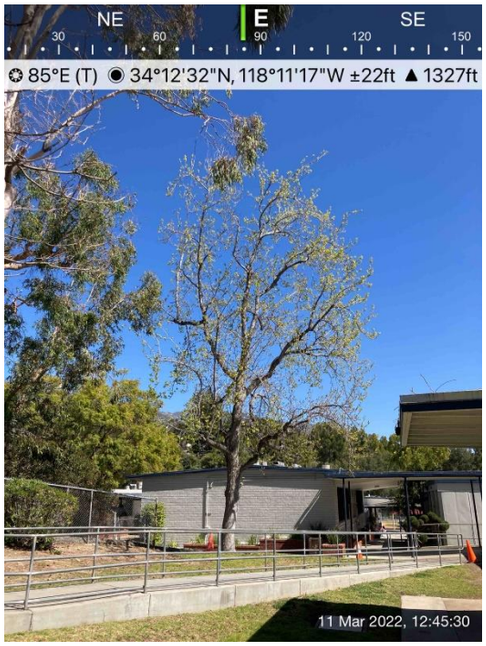


PHOTO 118: East-facing view of Tree #99, a sweetgum. Date: March 11, 2022.



PHOTO 119: North-facing view of Trees #100 (left), #101 (center), and #102 (right), three sugar gum trees. Date: March 11, 2022.



PHOTO 120: Staining on Tree #100. Date: March 11, 2022



PHOTO 121: Southeast-facing view of Tree #104 (left) and #105 (right), two London plane trees. Date: March 11, 2022



PHOTO 122: Insect boring into trunk of Tree #104. Insect is multi-colored Asian lady beetle (*Harmonia axyridis*). Date: March 11, 2022.

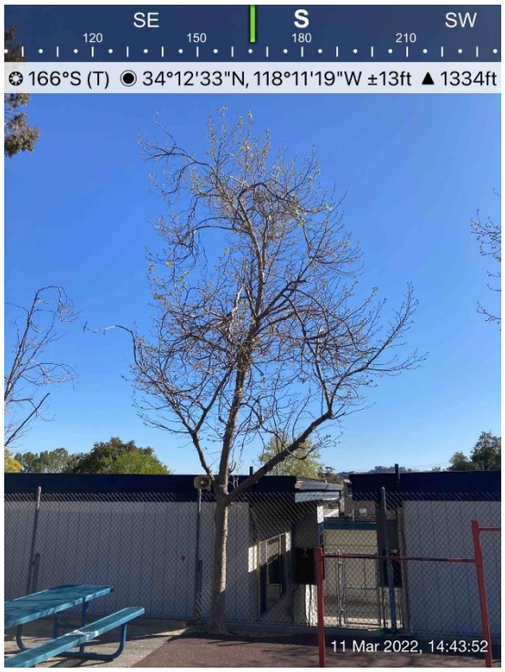


PHOTO 123: Southeast-facing view of Tree #106, a London plane tree. Date: March 11, 2022.

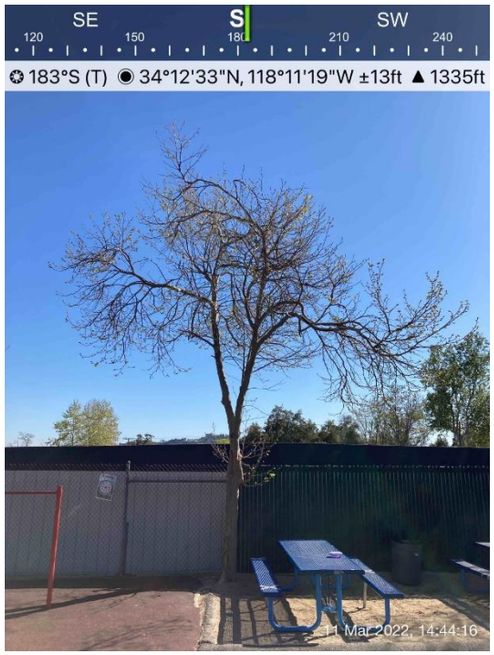


PHOTO 124: South-facing view of Tree #107, a London plane tree. Date: March 11, 2022

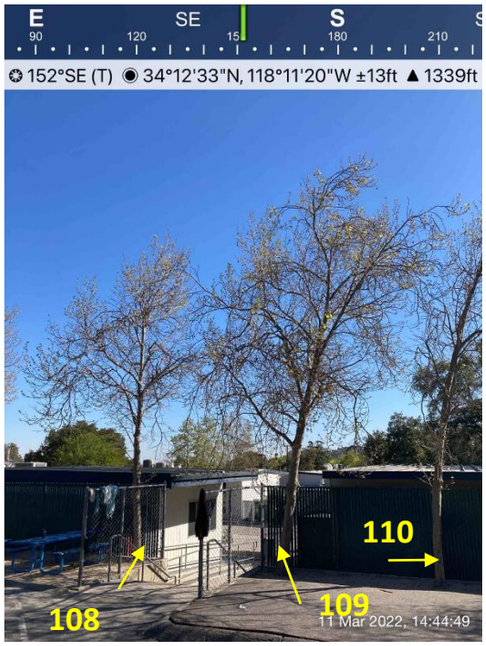


PHOTO 125: Southeast-facing view of Tree #108, #109, and #110, three London plane trees. Date: March 11, 2022

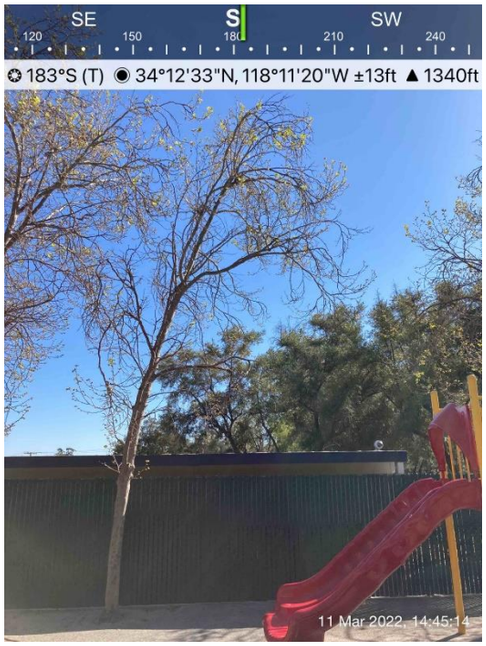


PHOTO 126: South-facing view of Tree #110, a London plane tree. Date: March 11, 2022.



PHOTO 127: Larvae and staining on branch of Tree #110. Date: March 11, 2022.



PHOTO 128: Northwest-facing view of Tree #112, an olive tree. Date: March 11, 2022

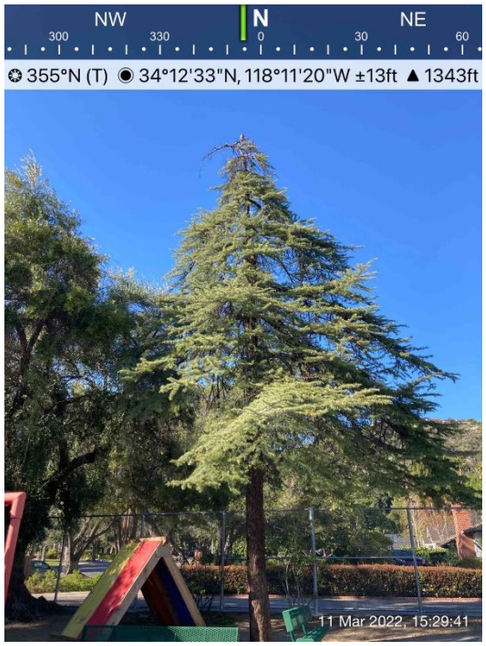


PHOTO 129: North-facing view of Tree #113, a Deodar cedar.
Date: March 11, 2022

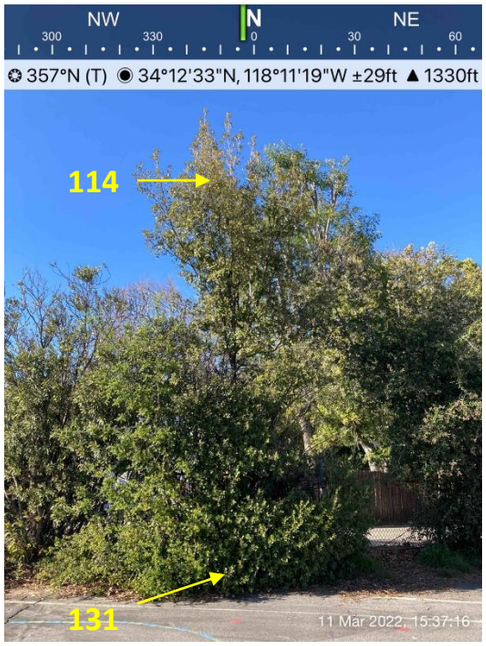


PHOTO 130: North-facing view of Tree #114 (holly oak) and Tree #131 (coast live oak). Date: March 11, 2022.

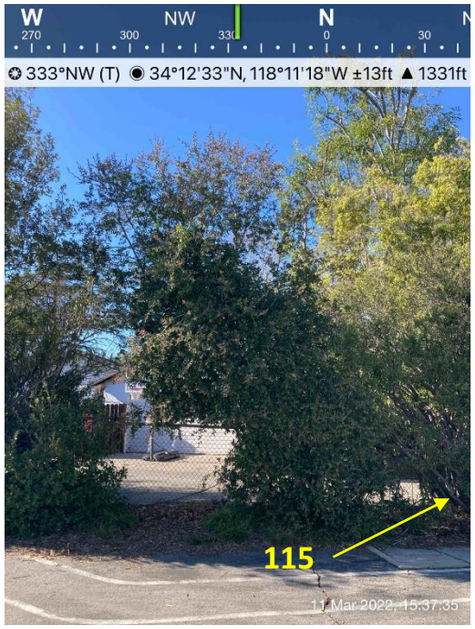


PHOTO 131: Northwest-facing view of Tree #115, a coast live oak.
Date: March 11, 2022.

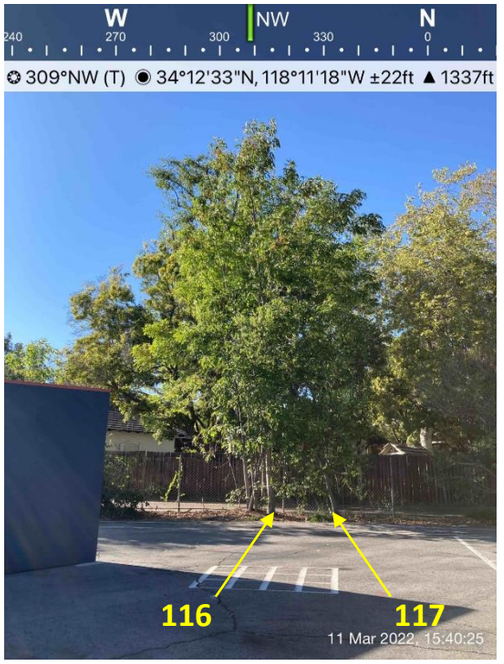


PHOTO 132: Northwest-facing view of Tree #116 (white ash) and Tree #17 (coast live oak). Date: March 11, 2022



PHOTO 133: Northeast-facing view of Tree #18 (white ash) and Tree #119 (Brazilian pepper tree). Date: March 11, 2022

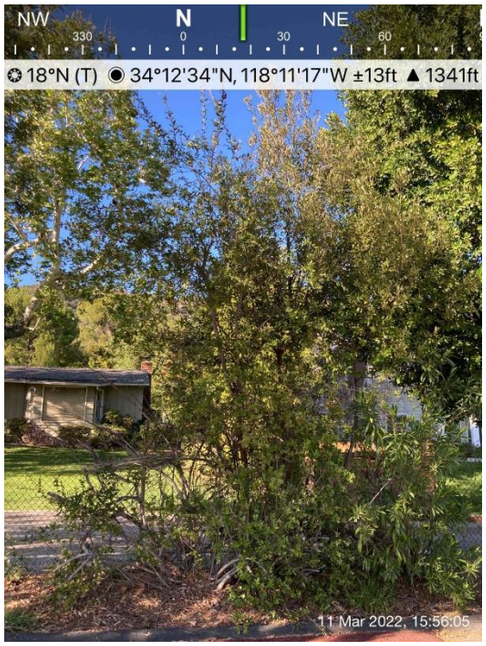


PHOTO 134: Northeast-facing view of Tree #120, a coast ilve oak. Date: March 11, 2022.

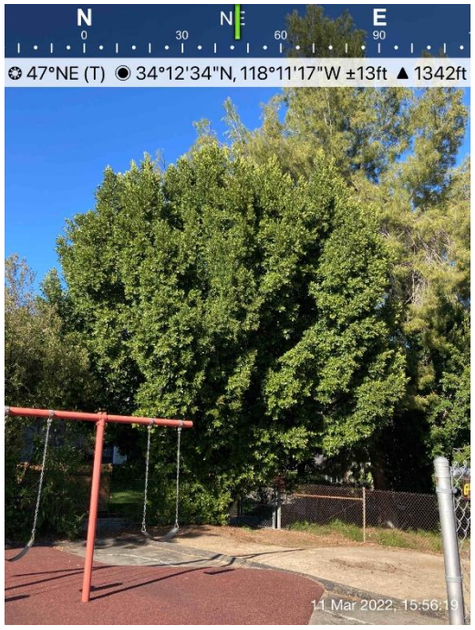


PHOTO 135: North-facing view of Tree #121, a Chinese privet. Date: March 11, 2022.

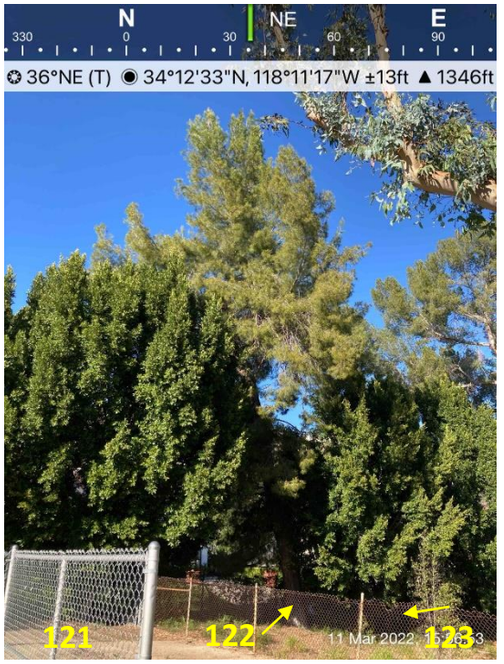


PHOTO 136: Northwest-facing view of Trees #121 (Chinese privet), #122 (Aleppo pine), and #123 (Chinese privet) . Date: March 11, 2022



PHOTO 137: East-facing view of Tree #124 (left) and #125 (right), two blue gums. Date: March 11, 2022

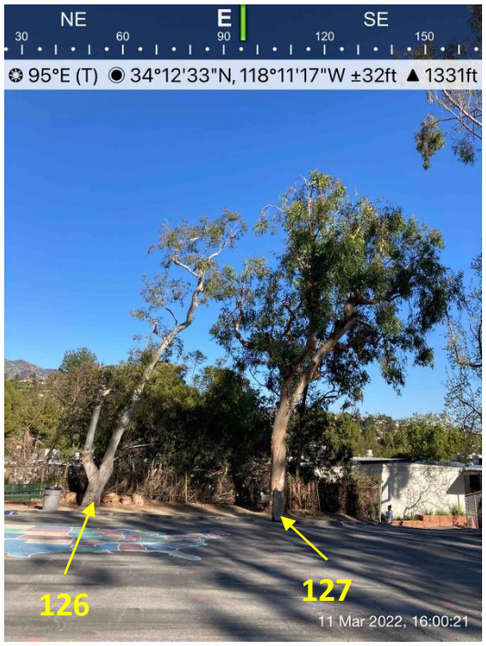


PHOTO 138: East-facing view of Trees #126 and #127, two blue gums. Date: March 11, 2022.

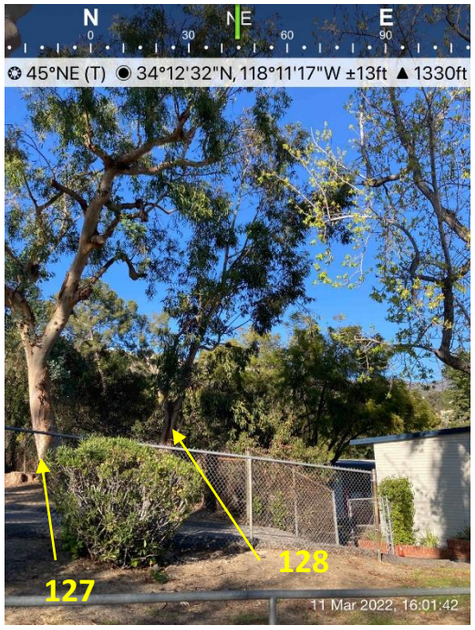


PHOTO 139: Northeast-facing view of Tree #127 and #128, two blue gums. Date: March 11, 2022.

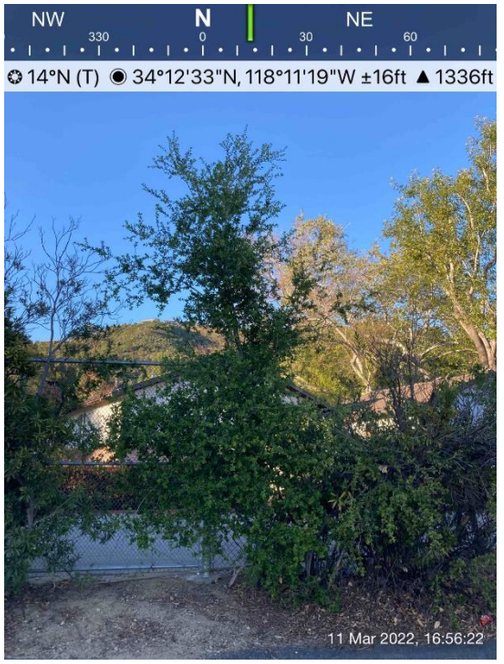


PHOTO 140: North-facing view of Tree #129, a coast live oak. Date: March 11, 2022

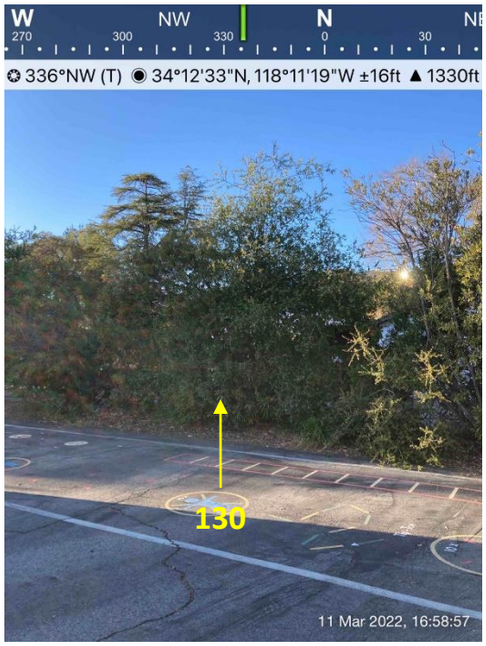


PHOTO 141: Northwest-facing view of Tree #130, a coast live oak. Date: March 11, 2022

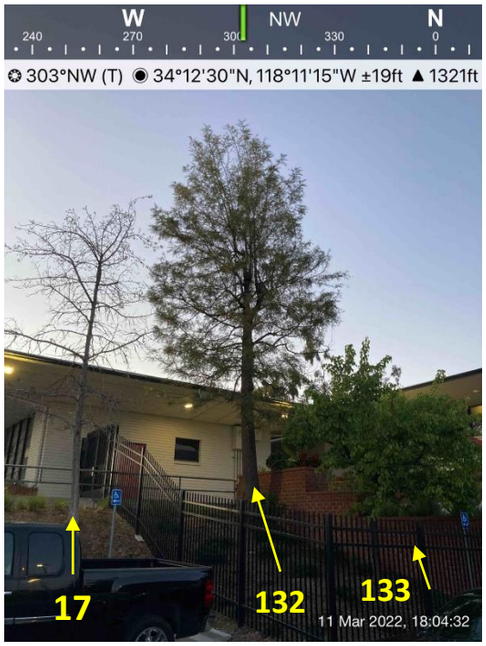


PHOTO 142: Northwest-facing view of Trees #17 (sweetgum), #132 (silk oak) and #133 (Callery pear). Date: March 11, 2022.

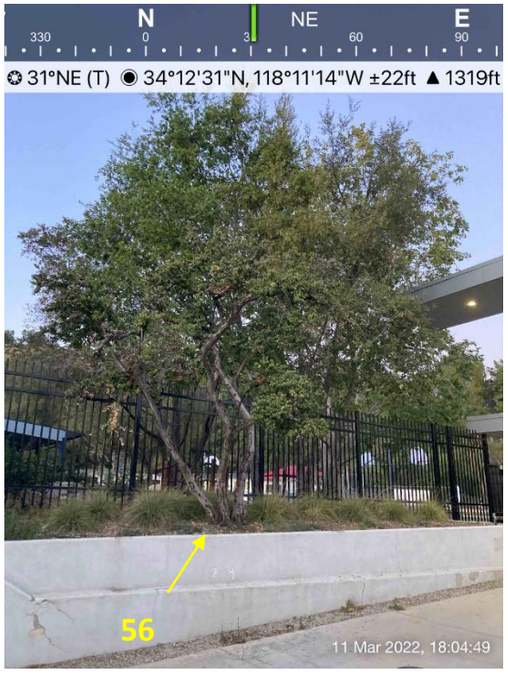


PHOTO 143: Northeast-facing view of Tree #56, a hollyleaf redberry. Date: March 11, 2022.



PHOTO 144: Sap ooze near bore holes on Tree #56

Michael Baker
INTERNATIONAL

Appendix C
Cultural, Historic, and Paleontological Resources Assessment

February 27, 2022

Harold Pierre, P.E., Measure LCF Bond Project Manager
La Cañada Unified School District
4490 Cornishon Avenue
La Cañada, CA 91011

RE: CULTURAL AND PALEONTOLOGICAL RESOURCES IDENTIFICATION AND EVALUATION MEMORANDUM FOR THE PARADISE CANYON ELEMENTARY SCHOOL MODERNIZATION PROJECT, LA CAÑADA FLINTRIDGE, LOS ANGELES COUNTY, CALIFORNIA

Dear Mr. Pierre:

In support of the Paradise Canyon Elementary School Modernization Project (project), Michael Baker International completed a records search at the South Central Coastal Information Center (SCCIC), a literature and historical map review, historical society consultation, Native American Heritage Commission (NAHC) Sacred Land File search, a buried archaeological site sensitivity analysis, built environment survey, and California Register of Historical Resources evaluation of the Paradise Canyon Elementary School. These efforts were completed to determine whether the project could result in significant impacts to historical resources and/or archaeological resources as defined by the California Environmental Quality Act (CEQA) Section 15064.5. Additionally, a search of the Natural History Museum of Los Angeles County (NHMLAC) paleontological records and other online and published databases was completed to assess the paleontological sensitivity of the project area. Methods, results, and recommendations are summarized below.

PROJECT DESCRIPTION

The proposed project involves the construction and use of one approximately 22,000-square-foot, two-story classroom building (containing 20 classrooms, restrooms, a conference room, and storage) and one approximately 5,600-square-foot, single-story classroom building (containing five classrooms, restrooms, and storage) to replace 18 portable classroom buildings and one site-built classroom building; renovation of 14 existing classrooms; installation of temporary portable classrooms to serve as interim/temporary classrooms during project construction; removal and replanting of on-site trees; and repairs and improvements to site utilities, landscaping, and pedestrian walkways. The maximum depth of ground disturbance associated with project construction is expected to reach 6 feet below ground surface (bgs) for utility work.

PROJECT AREA

The project area is located on the existing Paradise Canyon Elementary School campus at 471 Knight Way, La Cañada Flintridge, California, and is depicted on the *Pasadena, California*, 7.5-minute US Geological Survey (USGS) topographic quadrangle. The project area is bound by Knight

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Way to the south, Gould Avenue to the west, and a multiple-family residential development fronted by a tree line to the north and east (**Attachment 1**).

GEOLOGIC SETTING

California is divided into 11 geomorphic provinces, each defined by unique geologic and geomorphic characteristics. The project is in the central portion of the Transverse Ranges geomorphic province, which is marked by east-west trending mountain ranges and valleys in contrast to the northwest trend on coastal California (CGS 2002). This geomorphic province also extends offshore to include physiogeographic features such as the northern members of the Channel Islands, including Santa Cruz, Santa Rosa, and San Miguel Islands (CGS 2002). The Transverse Ranges province crosses several counties and is bound by the Pacific Ocean to the west, the Coast Ranges and Sierra Nevada geomorphic provinces to the north, the Mojave Desert geomorphic province to the east, and the Peninsular Ranges and Colorado Desert geomorphic provinces to the south.

The geology of the La Cañada Flintridge area was mapped by Yerkes and Campbell (2005) and Campbell et al. (2016) at a scale of 1:100,000, and by Dibblee and Ehrenspeck (1989) at a scale of 1:24,000. The project area is located northwest of the San Gabriel River within the western portion of the Sierra Madre Fault Zone, which is bound by the Verdugo fault to the south and the San Gabriel Mountains to the north (Crook et al. 1987; Yeats 2004). Geologic units underlying the project area are mapped as alluvial fan gravel and sand (Qof and Qog of Dibblee and Ehrenspeck 1989; Qyf and Qof of Campbell et al. 2016). Quaternary deposits within and near the project area were deposited during the late Pleistocene to Holocene, between 2.58 million years ago to present (Campbell et al. 2016). Deposits from the Holocene epoch (less than 11,700 years ago) can contain remains of animals and plants; however, only those from the early to middle Holocene (older than about 5,000 radiocarbon years) are considered scientifically important or significant (SVP 2010).

The project area is within the Los Angeles Plain ecoregion of California (Griffith et al. 2016). Ecoregions denote general similarity in ecosystems and environmental resources. This region consists of gently sloping alluvial fans (including the San Fernando and San Gabriel Valleys) and nearly level floodplains. The climate in this region is influenced by the Pacific Ocean with thermic soil temperatures and xeric soil moisture. Although much of this ecoregion has been modified by urban and residential development, vegetation in undisturbed areas would include California sagebrush, California buckwheat, coast live oak, chamise chapparal, and annual grasslands.

The soil in the project area has been mapped as Urban Land-Soboba-Tujunga complex, 5 to 15 percent slopes, comprising the entirety of the project (NRCS 2022a). Urban Land found on soil maps indicates an area is predominantly covered by urban development features, such as streets, parking lots, buildings, and other structures (NRCS 2022b). The Soboba and Tujunga series consist of well-drained soils that formed on alluvial fans and floodplains from granitic sources (USDA 1975, 2017).

CULTURAL AND HISTORICAL RESOURCES IDENTIFICATION METHODS

The results of the SCCIC records search, literature and historical map and aerial photograph review, NAHC Sacred Land File results, buried archaeological site sensitivity analysis, historical society consultation, built environment survey, and California Register evaluation are presented below.

SOUTH CENTRAL COASTAL INFORMATION CENTER RECORD SEARCH

Michael Baker International staff conducted a records search within a half-mile radius of the project area at the SCCIC on October 6, 2022 (**Attachment 2**). The SCCIC, as part of the California Historical Resources Information System, California State University, Fullerton, an affiliate of the California Office of Historic Preservation (OHP), is the official state repository of cultural resources records and reports for Los Angeles County. As part of the records search, the following federal and California inventories were reviewed:

- California Inventory of Historic Resources (OHP 2022a).
- California Points of Historical Interest (OHP 2022b).
- California Historical Landmarks (OHP 2022c).
- Archaeological Determinations of Eligibility (OHP 2022d). The directory includes determinations for eligibility for archaeological resources in Los Angeles County.

Results

No cultural resources were identified within the project area, and two cultural resources were identified within the half-mile search radius, as summarized below (**Table 1**). The resources include a historic tree landscaping and the Angeles National Forest Historical Landmark No. 717. No archaeological resources were identified.

Table 1: Previously Recorded Cultural Resources Within 0.5 Miles of the Project Area

Resource Name/#	Description	OHP Status Code	Distance from Project
19-150321	Historic landscape (trees planted in 1890s)	Unevaluated	0.09 miles south

Resource Name/#	Description	OHP Status Code	Distance from Project
19-186535	Angeles National Forest Historic Landmark No. 717	7L: State Historical Landmarks 1-769 and Points of Historical Interest designated prior to January 1998 – Needs to be reevaluated using current standards	0.49 miles northeast

Eleven cultural resource studies have occurred within a half-mile radius of the project area and none within project area (**Table 2**). None of the project area has been previously surveyed.

Table 2: Previous Cultural Resources Studies Within 0.5 Miles of the Project Area

Report No.	Author (s)	Date	Report Title	Within Project Area?
LA-00205	Hector, Susan M.	1976	*Engineer Report for District 28 Water Reclamation Plant Access Road and Miscellaneous Improvements*	No
LA-01312	Bridgewater, John W.	1976	*Archaeological Reconnaissance Report: Fuel Break System for the Crest-Millard Fuel Management Unit*	No
LA-02513	Crabtree, Robert H.	1965	*Highway Construction Survey Foothill Freeway Ucas-082-d*	No
LA-02638	Singer, Clay A., John E. Atwood, and Shelley M. Gomes	1992	*Cultural Resources Survey and Impact Assessment for the La Canada Water Reclamation Plant Outfall and Football Boulevard Main Projects, Los Angeles County, California*	No

Report No.	Author (s)	Date	Report Title	Within Project Area?
LA-03619	McKenna, Jeanette A. and Richard S. Shepard	1997	*Phase 1 Cultural Resources Investigations for the Proposed La Canada-Flintridge Sewer Collection System, La Canada-Flintridge, Los Angeles County, California*	No
LA-04468	McKenna, Jeanette A.	1999	*Archaeological Monitoring Program, La Canada/Flintridge Sewer Collection System*	No
LA-05154	McKenna, Jeanette A.	1999	*Phase I Cultural Resources Investigations of Area 2-proposed Sanitary Sewer Improvements Project in the City of La Canada-Flintridge, Los Angeles County, Ca 2006 La Canada-Flintridge Update*	No
LA-05233	McKenna, Jeanette A.	2000	*Phase I Cultural Resources Investigations for the Proposed Sanitary Sewer Improvements Project in the City of La Canada-Flintridge, Los Angeles County, Ca*	No
LA-05249	Smith, Philomene C.	2000	*Negative Archaeological Survey Report: Route 210:kp30.3/40.2-170-129971*	No
LA-05640	Sylvia, Barbara	2001	*Negative Archaeological Survey Report*	No
LA-09899	Antonina Delu	2009	*Results of the Cultural Resources Assessment for the Ravine New Circuit and Reconductoring Distribution Substation Plan Project, Los Angeles County, California*	No

LITERATURE AND HISTORICAL MAP AND AERIAL PHOTOGRAPH REVIEW

Michael Baker International staff reviewed literature and historical maps for historical information regarding the project area and the vicinity. Below is a list of resources reviewed, followed by a narrative description of the results for the project area.

Historical Maps and Aerial Photography

- Township 2 North, Range 13 West, San Bernardino Meridian Plat map (BLM 1876)
- Township 2 North, Range 13 West, San Bernardino Meridian Plat map (BLM 1936)
- Township 2 North, Range 13 West, San Bernardino Meridian Plat map (BLM 1881)
- • Township 2 North, Range 13 West, San Bernardino Meridian Plat map (BLM 1938)
- Pasadena, Calif. 1:24,000 scale topographic quadrangle (USGS 1953)
- Pasadena, Calif. 1:24,000 scale topographic quadrangle (USGS 1966)

- Mt. Lowe, Calif. 1:24,000 scale topographic quadrangle (USGS 1939)
- Historic aerials 1952-1998 (NETR 1952, 1954, 1964, 1972, 1988, 1992, 1998)
- Single-frame aerial photograph: C-3758, Frame 1 (UCSB 1935)

Databases

- National Register of Historic Places (NPS 2022)
- Built Environmental Resource Database (BERD) (OHP 2022e). The directory includes resources evaluated for listing and listed in the National Register of Historical Places (National Register), National Historic Landmarks, California Register, California Historical Landmarks, and California Points of Historical Interest in Los Angeles County.

Literature Sources

- "Gabrielino" (Bean and Smith 1978)
- "One If by Land, Two If by Sea: Who Were the First Californians?" (Erlandson et al. 2007)
- "A Suggested Chronology for Southern California Coastal Archaeology" (Wallace 1955)
- "Cultural Tradition and Ecological Adaptation on the Southern California Coast" (Warren 1968)
- "The Del Rey Tradition and Its Place in the Prehistory of Southern California" (Sutton 2010)
- *The First Angelinos: The Gabrielino Indians of Los Angeles* (McCawley 1996)
- "Reconceptualizing the Encinitas Tradition of Southern California (Sutton and Gardner 2010)
- *California Archaeology* (Moratto 1984)
- *The California Indians: A Sourcebook* (Heizer and Whipple 1971)

Literature and Map Review Results

The division of prehistory into temporal periods provides a framework for understanding culture change in years before present (BP). The earliest inhabitants to the Los Angeles Basin occurred in the Paleocoastal period, which is generally dated to between about 13,000 and 8,500 BP (Moratto 1984; Erlandson et al. 2007). These earliest inhabitants were highly mobile hunter gathers. This was followed by the Millingstone Horizon or the Encinitas Tradition, which dates to between about 8,500 and 3,500 BP. Encinitas is a widespread cultural phenomenon distinguished by an abundance of manos and metates and a dearth of vertebrate faunal remains, projectile points, and mortar and pestle groundstone tools (Sutton and Gardner 2010; Warren 1968). Definitions of the Intermediate period and Late Prehistoric period continue to be employed as temporal periods as Wallace (1955) defined them, although understanding of cultural practices, technology, and migrations among other aspects have been thoroughly deepened (as summarized by Sutton 2010).

The project area is within the boundaries of Gabrielino territory (Heizer and Whipple 1971; NAHC 2022). The name "Gabrielino" was given by the Spanish to the Indians that lived within the boundaries of the Mission San Gabriel Arcángel. Generally, their territory included all the Los

Angeles Basin, parts of the Santa Ana and Santa Monica Mountains, along the coast from Aliso Creek in the south to Topanga Canyon in the north, and San Clemente, San Nicolas, and Santa Catalina Islands. The Gabrielino spoke a dialect of the Cupan group of the Takic language family. The Gabrielino lived in autonomous villages often connected by trails, utilizing drainages such as the Los Angeles and San Gabriel Rivers. Each village had access to hunting, collecting, and fishing areas (Bean and Smith 1978). The project area is located approximately 3 miles south of the *Aluupkenga* and the *Akuuronga* Gabrielino place names (McCawley 1996).

The closest recorded Gabrielino village, *Hahamongna*, is located approximately 6.1 miles southwest of the project (McCawley 1996).

Project Area Development History

The project area is first depicted within the boundaries of the La Cañada Rancho Land Grant on late nineteenth century Bureau of Land Management (BLM) General Land Office survey maps (BLM 1876, 1881).

By 1935, while no development of the project area is apparent, aerial imagery shows that a road immediately south of the project area had been constructed, as well as a house south of the road (UCSB 1935). The 1939 Mt. Lowe, CA 1:24,000 USGS topographic map confirms the presence of the road and the house, and both are represented outside the project area (USGS 1939). Additionally, in 1936, no changes to the western portion of the project area have occurred according to a 1936 BLM survey map. However, a 1938 BLM map detailing the eastern portion of the project area shows the Southern California Edison Gould Station at the northwestern edge of Section 31, and a telephone line along the southern edge of Section 31, although both features are located outside of the project footprint (BLM 1938).

Between 1940 and 1951, no detailed maps of the project area are available. Aerial imagery from 1952 shows the completed construction of the Paradise Canyon Elementary School (NETR 1952). The 1953 Pasadena, CA 1:24,000 topographic map also depicts Paradise Canyon Elementary School and its location firmly outside the bounds of the Angeles National Forest (USGS 1953). The National Forest boundary is immediately east and adjacent to the school. No changes are depicted in the 1966 version of the Pasadena, CA topographic map (USGS 1966). Aerial imagery shows no significant changes to the school, except for the development of a baseball field in the eastern portion of the school in 1988, and additional structures at the northern portion of the school between 1992 and 1998 (NETR 1954, 1964, 1972, 1988, 1992, 1998).

BURIED SITE SENSITIVITY ANALYSIS

The SCCIC records search results and the field survey identified no archaeological resources within the project area or a half-mile search area. The soils of the project area have been heavily impacted by modern development upon the surface and in the near-surface sediments. Soils within the project area are mapped as Urban Land of varying complexes, including the Tujunga and Soboba series. Urban Land is heavily modified through the creation of fills, soil import, and construction, and is typically of low sensitivity for significant prehistoric resources. Additionally, the soil sits

upon Pleistocene-age sediment with low potential for containing archaeological materials because it predates human activities. Lastly, the project area has low sensitivity for significant or potentially significant historic-period archaeology sites as a result of modern development, since the project area and the surrounding areas are completely built out.

NATIVE AMERICAN CONSULTATION

A Sacred Land File search request was sent to the NAHC on September 30, 2022. The Sacred Land File search generated positive results, which were received on November 9, 2022. The NAHC recommended contacting the Gabrieleño Band of Mission Indians – Kizh Nation for further information on the positive results (see **Attachment 3**). Native American outreach is being conducted by the La Cañada School District under California Assembly Bill 52, and the findings will be incorporated into the environmental document.

HISTORICAL SOCIETY CONSULTATION

On September 28, 2022, Michael Baker International staff emailed letters and figures depicting the project area to the Lanterman House Historical Society of La Cañada (**Attachment 4**). The correspondence requested any information or concerns regarding historical resources within the project area. On October 4, 2022, Laura Verlaque, Executive Director of the Lanterman Historical Museum Foundation, replied by email indicating that her foundation did not have "any concern about this project, which appears to be contained within existing boundaries of the current school."

CULTURAL RESOURCES SURVEY

Michael Baker International conducted an archaeological and built environment field survey on October 17, 2022. The archaeological survey identified no exposed natural soils due to hard scaping and landscaped turf. No archaeological resources were identified. An intensive-level, built environment survey of the project area was conducted. Photographs and notes were taken during the survey. Notes consisted of observations of exposed building elevations, architectural design, materials, and alterations. Photographs are presented in a DPR 523 form set in **Attachment 5**.

CALIFORNIA REGISTER OF HISTORICAL RESOURCES EVALUATION

The eligibility criteria for listing resources in the California Register are outlined in Title 14 California Code of Regulations Section 4852(b). The California Register criteria are consistent with the eligibility criteria that are used to list properties in the National Register of Historic Places but have been modified for state use in order to include a range of historical resources that better reflect the history of California. To be eligible for listing in the California Register, a resource must be significant at the local, state, or national level under one or more of the following four criteria:

(1) It is associated with events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States.

(2) It is associated with the lives of persons important to local, California, or national history.
(3) It embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of a master or possesses high artistic values.
(4) It has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

The following includes an evaluation of the Paradise Canyon Elementary School for its eligibility for listing in the California Register (OHP 2001) in accordance with Section 15064.5(a)(2)-(3) of the CEQA Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code. The historic context is located in **Attachment 5**.

Criterion 1 – Paradise Canyon Elementary School was built in 1949 as the second of three elementary schools in the La Cañada Elementary School District and in response to the postwar baby boom. However, newspaper and contextual research failed to indicate that it was singularly important within this broad pattern of postwar elementary school construction. Paradise Canyon Elementary School was constructed to address the anticipated educational needs of the community, similar to other contemporaneous educational facilities in other growing communities throughout California in the mid-century. Furthermore, built as the second elementary school in the former elementary school district, it does not have significant association with the establishment of the La Cañada Elementary School District, which was founded in 1885 and absorbed into the La Cañada Unified School District formed in 1961. Therefore, the property is recommended not eligible for listing in the California Register under Criterion 1.

Criterion 2 – Research failed to indicate that Paradise Canyon Elementary School is directly associated with the lives of persons who significantly contributed to local, state, or national culture and history. Historical records reviewed revealed that the first superintendent of the school, Paul C. Butler, was heading the expansion of the school in 1949 and appears to have been a very involved educator and school administrator. However, there is no demonstrable evidence that Butler or any subsequent administrators or teaching staff made significant contributions within the broader context of educational advancement in La Cañada or California. Therefore, this property is recommended not eligible under California Register Criterion 2.

Criterion 3 – The original school buildings were constructed in 1949 in the finger plan design. Pioneered in the late 1930s by Ernest Kump, a master architect of school architecture, the finger plan became ubiquitous in the 1940s as the most common school plan constructed in the United States. Kump's first finger plan school, Acalanes High School in Lafayette (1939), was highly influential as the prototype for public schools in the 1940s (Sapphos 2014; Gellner 2020). The distinctive characteristics of the plan were the building wings with wide overhangs in line with an outdoor covered corridor radiating outward in a finger-like plan, providing ample opportunities for outdoor access. Its modular design allowed for easy expansion and became popular for a variety of school sites to address the growing postwar baby boom population. Paradise Canyon Elementary School is typical of the finger plan in its use of classroom buildings radiating outward from a connecting outdoor corridor and in its use of bilateral daylighting and cross-ventilation in the large metal-frame, full-length windows facing south and the high clerestory

under a wide hallway roof facing south. The original plan buildings A through H retain the original design and typify the finger plan design; however, as a ubiquitous plan constructed throughout the nation in the 1940s in response to the postwar population boom, it is not an exceptionally significant example of the typology within the school districts of the greater Los Angeles area. Paradise Canyon Elementary School is a relatively simple example of a finger plan school when compared against more noted Los Angeles area schools such as the Kester Avenue Elementary in Sherman Oaks by Richard Neutra (1951) and the Baldwin Hills Elementary School in Los Angeles by Neutra & Alexander (1949) (Sapphos 2014).

Furthermore, the school does not appear to be significant under Criterion 3 for its association with the architectural firm Flewelling and Moody. While Flewelling and Moody appear to have designed several schools in Southern California during their partnership in the 1940s–1950s, some of which received accolades, Flewelling and Moody do not appear to have been eminent masters in the field of architecture or campus planning. Research failed to indicate that their firm played a demonstrably important role in steering postwar school design. Rather, like many of their contemporaries, Flewelling and Moody appear to have designed schools to reflect the prevailing trends of the time. Therefore, the subject property is recommended not eligible for listing in the California Register under Criterion 3.

Criterion 4 – The built environment of the subject property is not likely to yield valuable information which will contribute to our understanding of human history because the property is not and never was the principal source of important information pertaining to significant events, people, or architectural style. Therefore, this property is recommended not eligible for listing in the California Register under Criterion 4.

Conclusion – Lacking historical significance, Paradise Canyon Elementary School is recommended not eligible for listing in the California Register. To be eligible for listing, a resource must first meet one or more of the significance criteria outlined above before a determination can be made as to whether the resource retains its historic integrity and is able to convey its significance. In the specific case of the subject property, an integrity analysis was considered immaterial because the evaluation found that the property lacked the necessary significance to warrant further analysis of its physical and historic integrity. As such, Paradise Canyon Elementary School is not a historical resource as defined under Section 15064.5(a) of the CEQA Guidelines.

PALEONTOLOGICAL RESOURCES IDENTIFICATION METHODS

The records search results, literature review, and sensitivity analysis are presented below.

PALEONTOLOGICAL RECORDS SEARCHES AND LITERATURE REVIEW

Michael Baker International staff requested and received a fossil locality records search through the NHMLAC on October 9, 2022 (**Attachment 6**). The records search did not find any previously known fossil localities within the project area. However, NHMLAC staff identified four localities bearing vertebrate fossils from similar sedimentary deposits as those found in the project area (**Table 3**).

Table 3: Previously Recorded Paleontological Resources from NHMLAC Records Search

Collection Number	Taxa	Formation	Depth	Distance to Project Site
LACM VP 2027	Mammoths	Unknown Formation (Pleistocene)	Unknown	~5 miles SE
LACM VP CIT342	Mammoths, bison	Unrecorded (Pleistocene)	14 feet bgs	~6 miles S
LACM VP 6970	Ground sloths, camels, bison	Old alluvium (pebble – gravel; sand; silt & clay)	60–80 feet bgs (tunnel for Metrorail Redline)	~11 miles SW
LACM VP 1146	Horses	Unknown Formation (Pleistocene)	160–170 feet bgs	~11 miles W

VP, Vertebrate Paleontology; IP, Invertebrate Paleontology; bgs, below ground surface

Michael Baker International conducted supplemental paleontological records searches within 5 miles of the project area using the following databases:

- University of California Museum of Paleontology Locality Search (UCMP 2022)
- San Diego Natural History Museum Collection Database (SDNHM 2022)
- The Paleobiology Database (PBDB 2022)
- FAUNMAP (FAUNMAP 2022)

No additional fossil localities were identified within 5 miles of the project area.

PALEONTOLOGICAL RESOURCES SENSITIVITY ANALYSIS

The NHMLAC paleontological records search, fossil locality searches in online databases (PBDB, SDNHM, UCMP, FAUNMAP), and literature review did not identify any paleontological resources within the project area but did indicate that the geologic formations present in the project area are known to contain paleontological localities with rare, well-preserved fossil materials. A geotechnical report prepared for the project identified fill soils from 0 to 5-9 feet bgs and underlain by older alluvial fan deposits (Allan E. Seward Engineering Geology, Inc. 2022). This suggests low sensitivity for fill soils and high sensitivity for the older alluvial fan deposits at depths 5 feet or greater.

Per mitigation impact guidelines set forth by the Society of Vertebrate Paleontology (SVP 2010), due to the fossil sensitivity of the rock formations present within the project area (alluvial fan deposits of Pleistocene age), the project has a high potential to disturb paleontological resources within undisturbed bedrock. However, project excavations are anticipated to be limited to disturbed soils and artificial fill. Artificial fill has no sensitivity for significant paleontological resources.

FINDINGS AND RECOMMENDATIONS

The SCCIC records search, literature and historical map review, historical society consultation, NAHC Sacred Lands File search, archaeological and built environment field survey, and California Register evaluation of the Paradise Canyon Elementary School identified no historical resources, archaeological resources within the project area. The Paradise Canyon Elementary School buildings within the project area were evaluated as part of this study and recommended not eligible for listing in the California Register.

Sensitivity for buried archaeological resources is low due to the historical and modern development of the project, lack of previously identified resources within the vicinity of the project area, and presence of low-sensitivity Urban complex fill soils and Pleistocene-age sediment predating human activity.

The NHMLAC records search and paleontological literature review identified a high potential to disturb paleontological resources within undisturbed bedrock. However, all project excavations are anticipated to take place in artificial fill, which has no sensitivity for significant paleontological resources.

Nonetheless, there is a potential for disturbing previously unknown archaeological or paleontological resources during project excavations, if these excavations unexpectedly extend into native soil. Impacts may be avoided through implementation of the following recommendations:

Archaeological Resources Inadvertent Discovery. In the event that any subsurface cultural resources are encountered during earth-moving activities, all work within 50 feet shall be halted until an archaeologist can evaluate the findings and make recommendations. Prehistoric materials can include flaked-stone tools (e.g., projectile points, knives, choppers) or obsidian, chert, or quartzite toolmaking debris; culturally darkened soil (i.e., midden soil often containing heat-affected rock, ash, and charcoal, shellfish remains, and cultural materials); and stone milling equipment (e.g., mortars, pestles, handstones). Historical materials might include wood, stone, or concrete footings, walls, and other structural remains; debris-filled wells or privies; and deposits of wood, metal, glass, ceramics, and other refuse. The archaeologist may evaluate the find in accordance with federal, state, and local guidelines, including those set forth in the California Public Resources Code Section 21083.2, to assess the significance of the find and identify avoidance or other measures as appropriate. If suspected prehistoric or historical archaeological deposits are discovered during construction, all work within the immediate area of the discovery shall be redirected and the find must be evaluated by a qualified archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology.

Human Remains Inadvertent Discovery. If human remains are found, those remains would require proper treatment in accordance with State of California Health and Safety Code Sections 7050.5-7055. Specifically, Health and Safety Code Section 7050.5 describes the requirements if

any human remains are discovered during excavation of a site. As required by state law, the requirements and procedures set forth in Section 5097.98 of the California Public Resources Code would be implemented, including notification of the County coroner, notification of the Native American Heritage Commission, and consultation with the individual identified by the Native American Heritage Commission to be the "most likely descendant." If human remains are found during excavation, excavation must stop in the vicinity of the find and any area that is reasonably suspected to overlie adjacent remains until the County coroner has been called out, and the remains have been investigated and appropriate recommendations have been made for the treatment and disposition of the remains.

Paleontological Resources Inadvertent Discovery. If paleontological resources are encountered during construction or the course of any ground-disturbance activities, all such activities within 50 feet of the find shall halt immediately. La Cañada Unified School District shall consult with a qualified paleontologist to determine the significance of the find. The assessment will follow SVP standards as delineated in the *Standard Procedures for the Assessment and Mitigation of Adverse Impacts to Paleontological Resources* (2010). If any find is determined to be significant, appropriate avoidance measures recommended by the consultant and approved by the La Cañada Unified School District must be followed unless avoidance is determined to be infeasible by the District. If avoidance is infeasible, other appropriate measures (e.g., data recovery, excavation) shall be instituted.

If the fossils are determined to be significant, then the SVP-qualified paleontologist shall prepare and implement a data recovery plan. The plan shall include, but not be limited to, the following measures:

- The paleontologist shall ensure that all significant fossils collected are cleaned, identified, catalogued, and permanently curated with an appropriate institution with a research interest in the materials (which may include the Natural History Museum of Los Angeles County);
- The paleontologist shall ensure that specialty studies are completed, as appropriate, for any significant fossil collected; and
- The paleontologist shall ensure that curation of fossils is completed in consultation with the City. A letter of acceptance from the curation institution shall be submitted to La Cañada Unified School District.

PREPARER QUALIFICATIONS

This memorandum was prepared by Michael Baker International Senior Architectural Historian Monte Kim, Architectural Historian Aisha Fike, Senior Paleontologist Peter Kloess, and Archaeologist Maximilian van Rensselaer. The memo was reviewed for quality assurance by Senior Cultural Resources Manager Margo Nayyar.

Monte Kim, PhD, Senior Architectural Historian Monte has over 20 years of professional experience inventorying, evaluating, and assessing effects on resources within the historic built environment. Monte meets the Secretary of the Interior's Professional Qualification Standards in history and architectural history and has experience in all phases of regulatory compliance under Section 106 of the National Historic Preservation Act (NHPA), Section 4(f) of the Department of Transportation Act, National Environmental Policy Act (NEPA), and CEQA.

Aisha Fike, MA, Architectural Historian Aisha is an architectural historian with 12 years of experience in cultural resource management and is skilled in conducting historical research and completing field inventories and site assessments. Aisha has completed numerous documents in support of a range of projects requiring compliance with CEQA. As the lead architectural historian on multiple California-based development, redevelopment, and transportation projects, she has acquired expertise in assessing both direct and indirect impacts to historic resources and in preparing Historic Resource Inventory and Evaluation Reports, California DPR 523 forms, cultural resources sections of environmental documents, finding of effects documents, and Secretary of the Interior analysis. Aisha meets the Secretary of the Interior's Professional Qualifications Standards for history and architectural history.

Maximilian van Rensselaer, RA, Archaeologist Maximilian has worked as an archaeologist in cultural resource management since 2013. He has more than 9 years of experience recording, excavating, and evaluating historic properties. He has worked in Nevada, California, Arizona, Texas, Louisiana, Oklahoma, Indiana, and Kentucky. Maximilian specializes in applying Section 106 of the NHPA. His other skills include geographic information systems (GIS) and NEPA desktop analysis. He is currently pursuing a master of professional studies degree in cultural and heritage resource management at the University of Maryland.

Peter Kloess, MS, Principal Investigator/ Senior Paleontologist Peter is a principal investigator and paleontologist with over 20 years of experience in paleontology, with 7 years in paleontology mitigation. His experience includes private and public consultation, field monitoring, excavation, and laboratory research on projects across the western United States, predominantly in California. He has consulting experience with a range of projects, including construction, transportation, utility, transmission, monitoring, and surveys, as well as expertise recovering a diversity of fossils from project sites, such as marine invertebrates, microfossils, plants, small mammals, and birds, large marine and terrestrial mammals, and dinosaurs. He also has extensive experience in paleontological museum collections and lab settings. He has worked on and co-led scientific excavations of large mammals and dinosaurs in California, Utah, New Mexico, and Montana. Peter has served as a lab preparator and assistant curator for paleontology museums in California and Montana, where his duties included manual preparation of specimens, casting, jacketing, public outreach, cataloging, and curation. He meets the SVP's standards for paleontological Principal Investigator.

Margo Nayyar, MA, Senior Cultural Resources Manager Margo is a senior architectural historian with 12 years of cultural management experience in California, Nevada, Arizona, Idaho, Texas, and Mississippi. Her experience includes built environment surveys, evaluation of historic-

era resources using guidelines outlined in the National and California Registers, and preparation of cultural resources technical studies pursuant to CEQA and Section 106 of the NHPA, including identification studies, finding of effect documents, memorandum of agreements, programmatic agreements, and Historic American Buildings Survey/Historic American Engineering Record/Historic American Landscapes Survey mitigation documentation. She prepares cultural resources sections for CEQA environmental documents, including infill checklists, initial studies, and environmental impact reports, as well as NEPA environmental documents, including environmental impact statements and environmental assessments. She also specializes in municipal preservation planning, historic preservation ordinance updates, Native American consultation, and provision of Certified Local Government training to interested local governments. She develops Survey 123 and Esri Collector applications for large-scale historic resources surveys, and authors National Register nomination packets. Margo meets the Secretary of the Interior's Professional Qualification Standards for history and architectural history.

Sincerely,

Monte Kim, PhD
Senior Architectural Historian
Architectural Historian

Maximillian van Rensselaer, RA
Archaeologist

Peter Kloess, MS
Principal Investigator, Paleontology

Aisha Fike, MA
Senior Architectural Historian

Attachments:

Attachment 1 – Figures
Attachment 2 – SCCIC Records Search Results
Attachment 3 – NAHC Sacred Lands File Search
Attachment 4 – Historical Society Consultation
Attachment 5 – DPR 523 Form Set
Attachment 6 – NHMLAC Search Results

REFERENCES

Allan E. Seward Engineering Geology, Inc. 2022. "GEOTECHNICAL REPORT, Review of Site Plan: New Building Addition and Site Improvements Paradise Canyon Elementary School 471 Knight Way, La Cañada, Los Angeles County, California." Prepared for La Cañada Unified School District.

Bean, Lowell J., and Charles R. Smith. 1978. "Gabrielino." In Heizer 1978.

BLM (Bureau of Land Management). 1876. Township 2 North, Range 13 West, San Bernardino Meridian Plat map. Accessed November 2022. https://glorecords.blm.gov/details/survey/default.aspx?dm_id=286216&sid=xv5a0qvh.iqm.

———. 1881. Township 2 North, Range 13 West, San Bernardino Meridian Plat map. Accessed November 2022. https://glorecords.blm.gov/details/survey/default.aspx?dm_id=286358&sid=3hqdh0rd.zag.

———. 1936. Township 2 North, Range 13 West, San Bernardino Meridian Plat map. Accessed November 2022. https://glorecords.blm.gov/details/survey/default.aspx?dm_id=286234&sid=xv5a0qvh.iqm.

———. 1938. Township 2 North, Range 13 West, San Bernardino Meridian Plat map. Accessed November 2022. https://glorecords.blm.gov/details/survey/default.aspx?dm_id=286368&sid=3hqdh0rd.zag.

Campbell, R. H., C. J. Willis, P. J. Irvine, and B. J. Swanson. 2014. *Preliminary Geologic Map of the Los Angeles 30′ X 60′ Quadrangle*: version 2.1, 1:100,000 scale. California Geological Survey.

CGS (California Geological Society). 2002. California Geomorphic Provinces Note 36. https://www.conservation.ca.gov/cgs/Documents/Publications/CGS-Notes/CGS-Note-36.pdf.

Crook Jr., R., C. R. Allen, B. Kamb, C. M. Payne, and R. J. Proctor. 1987. Quaternary geology and seismic hazard of the Sierra Madre and associated faults, western San Gabriel Mountains, in *Recent reverse faulting in the Transverse Ranges, California*: U.S. Geological Survey Professional Paper 1339, 27–63.

Dibblee, T. W. and H. E. Ehrenspeck. 1989. Geologic map of the Pasadena quadrangle, Los Angeles County, California. Dibblee Foundation Map DF-23, 1:24,000 scale. Accessed November 2022. https://ngmdb.usgs.gov/Prodesc/proddesc_210.htm.

Erlandson, Jon M., Rick C. Torben, Terry L. Jones, and Judith F. Porcasi. 2007. "One If by Land, Two If by Sea: Who Were the First Californians?" In *California Prehistory: Colonization, Culture, and Complexity*, edited by Terry L. Jones and Kathryn A. Klar. Lanham, MD: AltaMira Press.

FAUNMAP (FAUNMAP Database). 2022. Paleontological Database. Accessed November 2022. https://ucmp.berkeley.edu/faunmap/about/index.html.

Gellner, Arrol. 2020. "The California Finger Plan School: Incubator for the Baby Boom." April 7. http://arrolgellner.blogspot.com/2020/04/the-california-finger-plan-school.html.

Griffith, Glenn, James Omernik, David Smith, Terry Cook, Ed Tallyn, Kendra Moseley, and Colleen Johnson. 2016. Ecoregions of California. U.S. Geological Survey Open-File Report 2016-1021. Accessed November 2022. https://pubs.er.usgs.gov/publication/ofr20161021.

Heizer, Robert F., ed. 1978. *California*. Vol. 8 of *Handbook of North American Indians*. William C. Sturtevant, general editor. Washington DC: Smithsonian Institution.

Heizer, R. F. and M. A. Whipple. 1971. *The California Indians: A Source Book*. Berkeley: University of California Press.

McCawley, William. 1996. *The First Angelinos: The Gabrielino Indians of Los Angeles*. Banning, CA: Malki-Ballena Press Books.

Moratto, Michael J. 1984. *California Archaeology*. San Diego, CA: Academic Press.

NAHC (Native American Heritage Commission). 2022. NAHC Digital Atlas ethnographic territory search of the project area. Accessed November 2022. https://www.arcgis.com/apps/View/index.html?appid=03512d83d12b4c3389281e3a0c25a78f&extent=-130.0858,31.7873,-109.6622,42.6447

NETR (National Environmental Title Research). 1952. "La Cañada Flintridge, CA." Aerial photograph. Accessed November 2022. https://www.historicaerials.com/.

———. 1954. "La Cañada Flintridge, CA." Aerial photograph. Accessed November 2022. https://www.historicaerials.com/.

———. 1964. "La Cañada Flintridge, CA." Aerial photograph. Accessed November 2022. https://www.historicaerials.com/.

———. 1972. "La Cañada Flintridge, CA." Aerial photograph. Accessed November 2022. https://www.historicaerials.com/.

———. 1988. "La Cañada Flintridge, CA." Aerial photograph. Accessed November 2022. https://www.historicaerials.com/.

———. 1992. "La Cañada Flintridge, CA." Aerial photograph. Accessed November 2022. https://www.historicaerials.com/.

———. 1998. "La Cañada Flintridge, CA." Aerial photograph. Accessed November 2022. https://www.historicaerials.com/.

NPS (National Park Service, Department of Interior). 2022. National Register of Historic Places database and map. Accessed September 2022. https://www.nps.gov/maps/full.html?mapId=7ad17cc9-b808-4ff8-a2f9-a99909164466.

NRCS (Natural Resources Conservation Service). 2022a. Web-based soil mapping interface. Accessed November 2022. https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx.

———. 2022b. "SSM – Ch. 4. Soil Mapping Concepts." Accessed November 2022. https://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/ref/?cid=nrcs142p2_054254.

OHP (California Office of Historic Preservation). 2001. *Technical Assistance Series #7: How to Nominate a Resource to the California Register of Historical Resources*. Sacramento, CA: California Department of Parks and Recreation.

———. 2022a. California Inventory of Historic Resources. Sacramento: California Department of Parks and Recreation. Electronic database. Accessed November 2022. https://ohp.parks.ca.gov/ListedResources/?view=county&criteria=30.

———. 2022b. California Points of Historical Interest. Sacramento: California Department of Parks and Recreation. Electronic database. Accessed November 2022. https://ohp.parks.ca.gov/ListedResources/?view=county&criteria=30.

———. 2022c. California Historical Landmarks. Sacramento: California Department of Parks and Recreation. Electronic database. Accessed November 2022. https://ohp.parks.ca.gov/ListedResources/?view=county&criteria=30.

———. 2022d. Archaeological Determinations of Eligibility for Los Angeles County. Sacramento: California Department of Parks and Recreation. Electronic database. On file at the South Central Coastal Information Center.

———. 2022e. Built Environment Resource Directory for Los Angeles County. Electronic database. Accessed November 2022. https://ohp.parks.ca.gov/?page_id=30338.

PBDB (Paleobiology Database). 2022. PBDB Navigator, search of project area within 5-mile radius. Web-based paleontological resource mapping interface. Accessed November 2022. https://paleobiodb.org/navigator/.

Sapphos Environmental, Inc. 2014. "Los Angeles Unified School District Historic Context Statement, 1870 to 1969." Prepared for the Los Angeles Unified School District, Office of Environmental Health and Safety. https://planning.lacity.org/odocument/5a14c032-614e-4cd2-b58a-9507df31fbd1/Los%20Angeles%20Unified%20School%20District%20Historic%20Context%2C%201870-1969.pdf.

SDNHM (San Diego Natural History Museum). 2022. Paleontology Collections Database. Accessed November 2022. https://www.sdnhm.org/science/paleontology/resources/collection-database.

Sutton, Mark Q. 2010. "The Del Rey Tradition and Its Place in the Prehistory of Southern California." *Pacific Coast Archaeological Society Quarterly* 44 (2): 1-54.

Sutton, Mark Q., and Jill K. Gardner. 2010. "Reconceptualizing the Encinitas Tradition of Southern California." *Pacific Coast Archaeological Society Quarterly* 42 (4): 1-64.

SVP (Society of Vertebrate Paleontology). 2010. Standard Procedures for the Assessment and Mitigation of Adverse Impacts to Paleontological Resources. https://vertpaleo.org/wp-content/uploads/2021/01/SVP_Impact_Mitigation_Guidelines-1.pdf.

UCMP (University of California Museum of Paleontology). 2022. Locality search. Accessed November 2022. https://ucmpdb.berkeley.edu/loc.html.

UCSB (University of California, Santa Barbara). 1935. "Flight C-3758, Frame 1, November 8, 1935." Aerial photography by Fairchild Aerial Surveys. Accessed November 2022. https://mil.library.ucsb.edu/apcatalog/report/report.php?filed_by=C-3758.

USDA (United States Department of Agriculture). 1975. Soboba Series. https://soilseries.sc.egov.usda.gov/OSD_Docs/S/SOBOBA.html.

———. 2017. Tujunga Series. https://soilseries.sc.egov.usda.gov/OSD_Docs/T/TUJUNGA.html.

USGS (United States Geological Survey). 1939. *Mt. Lowe, California*. 1:24,000. Accessed November 2022. https://ngmdb.usgs.gov/topoview/viewer/#.

———. 1953. *Pasadena, California*. 1:24,000. Accessed November 2022. https://ngmdb.usgs.gov/topoview/viewer/#.

———. 1966. *Pasadena, California*. 1:24,000. Accessed November 2022. https://ngmdb.usgs.gov/topoview/viewer/#.

Wallace, William J. 1955. "A Suggested Chronology for Southern California Coastal Archaeology." *Southwestern Journal of Anthropology* 11 (3): 214-230.

Warren, Claude N. 1968. "Cultural Tradition and Ecological Adaptation on the Southern California Coast." *Archaic Prehistory in the Western United States*. Portales, NM: Eastern New Mexico University.

Yeats, Robert S. 2004. "Tectonics of the San Gabriel Basin and surroundings, southern California." *GSA Bulletin* 116(9-10):1158-1182.

Yerkes, R. F., R. H. Campbell, Rachel Alvarez, and Kelly Bovard. 2005. Preliminary geologic map of the Los Angeles 30' x 60' quadrangle, southern California. U.S. Geological Survey Open-File Report 2005-1019, 1:100,000 scale. Accessed November 2022. https://ngmdb.usgs.gov/Prodesc/proddesc_70332.htm.

Attachment 1

Figures



PN: 191477

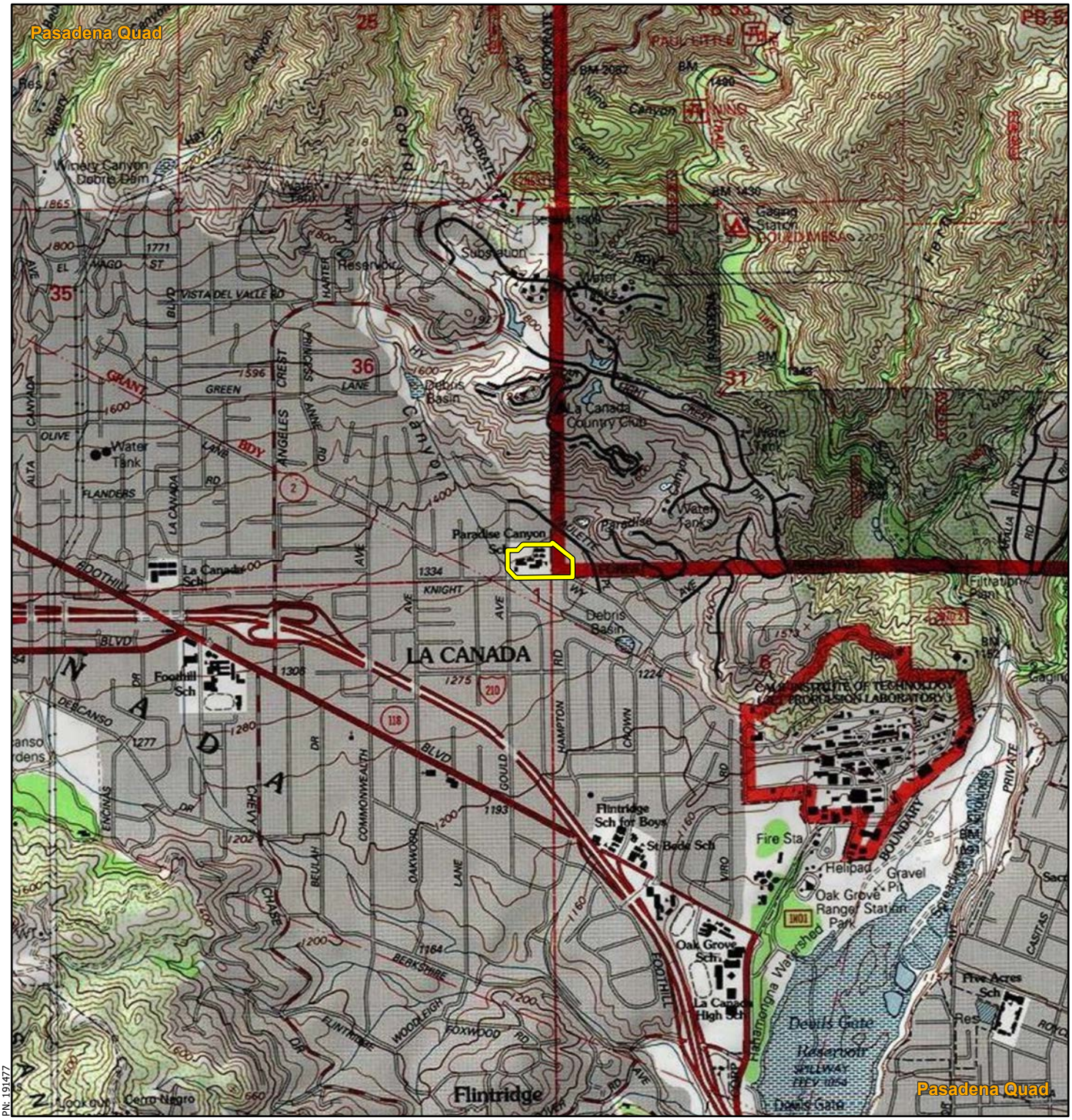
Source: Esri, ArcGIS Online, National Geographic World Map: *La Cañada Flintridge, California*

Michael Baker INTERNATIONAL

PARADISE CANYON ELEMENTARY SCHOOL
MODERNIZATION PROJECT

Regional Vicinity

Figure 1



PN: 191477

Michael Baker INTERNATIONAL

N

0 0.13 0.25 0.5 Miles

Source: Esri, ArcGIS Online, USGS 7.5-Minute topographic quadrangle maps: *La Cañada Flintridge, California*

PARADISE CANYON ELEMENTARY SCHOOL
MODERNIZATION PROJECT

Project Vicinity

Figure 2



PN: 191477

Project Area
Plan 1949
Land Addition 1957
Portables

Michael Baker INTERNATIONAL

N

0 125 250 500 Feet

Source: Esri, ArcGIS Online, 2021 Nearmap Imagery: *La Cañada Flintridge, California*

PARADISE CANYON ELEMENTARY SCHOOL
MODERNIZATION PROJECT

Project Area

Figure 3

Attachment 2

SCCIC Records Search Results

Reports within 0.5-mile radius

ReportNum	Authors	CitYear	CitTitle
LA-00205	Hector, Susan M.	1976	Engineer Report for District 28 Water Reclamation Plant Access Road and Miscellaneous Improvements
LA-01312	Bridgewater, John W.	1976	Archaeological Reconnaissance Report: Fuel Break System for the Crest-millard Fuel Management Unit
LA-02513	Crabtree, Robert H.	1965	Highway Construction Survey Foothill Freeway Ucas-082-d
LA-02638	Singer, Clay A., John E. Atwood, and Shelley M. Gomes	1992	Cultural Resources Survey and Impact Assessment for the La Canada Water Reclamation Plant Outfall and Football Boulevard Main Projects, Los Angeles County, California.
LA-03619	McKenna, Jeanette A. and Richard S. Shepard	1997	Phase 1 Cultural Resources Investigations for the Proposed La Canada-flintridge Sewer Collection System, La Canada-flintridge, Los Angeles County, California
LA-04468	McKenna, Jeanette A.	1999	Archaeological Monitoring Program, La Canada/flintridge Sewer Collection System
LA-05154	McKenna, Jeanette A.	1999	Phase I Cultural Resources Investigations of Area 2-proposed Sanitary Sewer Improvements Project in the City of La Canada-flintridge, Los Angeles County, Ca 2006 La Canada-flintridge Update
LA-05233	McKenna, Jeanette A.	2000	Phase I Cultural Resources Investigations for the Proposed Sanitary Sewer Improvements Project in the City of La Canada-flintridge, Los Angeles County, Ca
LA-05249	Smith, Philomene C.	2000	Negative Archaeological Survey Report: Route 210:kp30.3/40.2-170-129971
LA-05640	Sylvia, Barbara	2001	Negative Archaeological Survey Report
LA-09899	Antonina Delu	2009	Results of the Cultural Resources Assessment for the Ravine New Circuit and Reconductoring Distribution Substation Plan Project, Los Angeles County, California

Resources within 0.5-mile radius

P-19-150321

P-19-186535

Attachment 3

NAHC Sacred Lands File Search

From: Green, Andrew@NAHC
To: hpierre@linikcorp.com
Cc: admin@gabrielenoindians.org; Kim, Monte
Subject: EXTERNAL: Paradise Canyon Elementary School Modernization Project
Date: Wednesday, November 9, 2022 10:42:51 AM
Attachments: AB52 Yes Paradise Canyon Elementary School Modernization Project 11.9.2022.pdf
Paradise Canyon Elementary School Modernization Project 11.9.2022.pdf

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Good Morning,

Attached is the response to the project referenced above. If you have any additional questions, please feel free to contact our office email at nahc@nahc.ca.gov.

Regards,

Andrew Green
Native American Heritage Commission
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Andrew.Green@nahc.ca.gov
Direct Line: (916) 573-1072
Office: (916) 373-3710

NATIVE AMERICAN HERITAGE COMMISSION

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Kumeyaay

COMMISSIONER
[Vacant]

COMMISSIONER
[**Vacant**]

EXECUTIVE SECRETARY
Raymond C. Hitchcock
Miwok/Nisenan

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

November 9, 2022

Harold Pierre
La Canada Unified School District

Via Email to: hpierre@linikcorp.com

Re: Native American Tribal Consultation, Pursuant to the Assembly Bill 52 (AB 52), Amendments to the California Environmental Quality Act (CEQA) (Chapter 532, Statutes of 2014), Public Resources Code Sections 5097.94 (m), 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2 and 21084.3, Paradise Canyon Elementary School Modernization Project, Los Angeles County

Dear Mr. Pierre

Pursuant to Public Resources Code section 21080.3.1 (c), attached is a consultation list of tribes that are traditionally and culturally affiliated with the geographic area of the above-listed project. Please note that the intent of the AB 52 amendments to CEQA is to avoid and/or mitigate impacts to tribal cultural resources, (Pub. Resources Code §21084.3 (a)) ("Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource.")

Public Resources Code sections 21080.3.1 and 21084.3(c) require CEQA lead agencies to consult with California Native American tribes that have requested notice from such agencies of proposed projects in the geographic area that are traditionally and culturally affiliated with the tribes on projects for which a Notice of Preparation or Notice of Negative Declaration or Mitigated Negative Declaration has been filed on or after July 1, 2015. Specifically, Public Resources Code section 21080.3.1 (d) provides:

Within 14 days of determining that an application for a project is complete or a decision by a public agency to undertake a project, the lead agency shall provide formal notification to the designated contact of, or a tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, which shall be accomplished by means of at least one written notification that includes a brief description of the proposed project and its location, the lead agency contact information, and a notification that the California Native American tribe has 30 days to request consultation pursuant to this section.

The AB 52 amendments to CEQA law does not preclude initiating consultation with the tribes that are culturally and traditionally affiliated within your jurisdiction prior to receiving requests for notification of projects in the tribe's areas of traditional and cultural affiliation. The Native American Heritage Commission (NAHC) recommends, but does not require, early consultation as a best practice to ensure that lead agencies receive sufficient information about cultural resources in a project area to avoid damaging effects to tribal cultural resources.

The NAHC also recommends, but does not require that agencies should also include with their notification letters, information regarding any cultural resources assessment that has been completed on the area of potential effect (APE), such as:

1. The results of any record search that may have been conducted at an Information Center of the California Historical Resources Information System (CHRIS), including, but not limited to:

- A listing of any and all known cultural resources that have already been recorded on or adjacent to the APE, such as known archaeological sites;
- Copies of any and all cultural resource records and study reports that may have been provided by the Information Center as part of the records search response;
- Whether the records search indicates a low, moderate, or high probability that unrecorded cultural resources are located in the APE; and
- If a survey is recommended by the Information Center to determine whether previously unrecorded cultural resources are present.

2. The results of any archaeological inventory survey that was conducted, including:

    - Any report that may contain site forms, site significance, and suggested mitigation measures.

      All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for public disclosure in accordance with Government Code section 6254.10.

3. The result of any Sacred Lands File (SLF) check conducted through the Native American Heritage Commission was positive. Please contact the Gabrieleno Band of Mission Indians – Kizh Nation on the attached list for more information.

4. Any ethnographic studies conducted for any area including all or part of the APE; and

5. Any geotechnical reports regarding all or part of the APE.

Lead agencies should be aware that records maintained by the NAHC and CHRIS are not exhaustive and a negative response to these searches does not preclude the existence of a tribal cultural resource. A tribe may be the only source of information regarding the existence of a tribal cultural resource.

This information will aid tribes in determining whether to request formal consultation. In the event that they do, having the information beforehand will help to facilitate the consultation process.

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

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

Sincerely,

Andrew Green

Andrew Green
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Tribal Consultation List
Los Angeles County
11/9/2022

Fernandeno Tataviam Band of Mission Indians
Rudy Ortega, Tribal President
1019 Second Street, Suite 1
San Fernando, CA, 91340
Phone: (818) 837 - 0794
Fax: (818) 837-0796
thcp@tataviam-nsn.us
Tataviam

Gabrieleno Band of Mission Indians - Kizh Nation
Andrew Salas, Chairperson
P.O. Box 393
Covina, CA, 91723
Phone: (626) 926 - 4131
admin@gabrielenoindians.org
Gabrieleno

Gabrieleno/Tongva San Gabriel Band of Mission Indians
Anthony Morales, Chairperson
P.O. Box 693
San Gabriel, CA, 91778
Phone: (626) 483 - 3564
Fax: (626) 286-1262
GTTribalcouncil@aol.com
Gabrieleno

Gabrielino /Tongva Nation
Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St., #231
Los Angeles, CA, 90012
Phone: (951) 807 - 0479
sgoad@gabrielino-tongva.com
Gabrielino

Gabrielino Tongva Indians of California Tribal Council
Robert Dorame, Chairperson
P.O. Box 490
Bellflower, CA, 90707
Phone: (562) 761 - 6417
Fax: (562) 761-6417
gtongva@gmail.com
Gabrielino

Gabrielino Tongva Indians of California Tribal Council
Christina Conley, Tribal Consultant and Administrator
P.O. Box 941078
Simi Valley, CA, 93094
Phone: (626) 407 - 8761
christina.marsden@alumni.usc.edu
Gabrielino

Gabrielino-Tongva Tribe
Charles Alvarez,
23454 Vanowen Street
West Hills, CA, 91307
Phone: (310) 403 - 6048
roadkingcharles@aol.com
Gabrielino

San Fernando Band of Mission Indians
Donna Yocum, Chairperson
P.O. Box 221838
Newhall, CA, 91322
Phone: (503) 539 - 0933
Fax: (503) 574-3308
ddyocum@comcast.net
Kitanemuk
Vanyume
Tataviam

Santa Rosa Band of Cahuilla Indians
Lovina Redner, Tribal Chair
P.O. Box 391820
Anza, CA, 92539
Phone: (951) 659 - 2700
Fax: (951) 659-2228
lsaul@santarosa-nsn.gov
Cahuilla

Soboba Band of Luiseno Indians
Isaiah Vivanco, Chairperson
P. O. Box 487
San Jacinto, CA, 92581
Phone: (951) 654 - 5544
Fax: (951) 654-4198
ivivanco@soboba-nsn.gov
Cahuilla
Luiseno

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

This list is only applicable for consultation with Native American tribes under Public Resources Code Sections 21080.3.1 for the proposed Paradise Canyon Elementary School Modernization Project, Los Angeles County.

Soboba Band of Luiseno Indians
Joseph Ontiveros, Cultural Resource Department
P.O. BOX 487
San Jacinto, CA, 92581
Phone: (951) 663 - 5279
Fax: (951) 654-4198
jontiveros@soboba-nsn.gov

Cahuilla
Luiseno

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

This list is only applicable for consultation with Native American tribes under Public Resources Code Sections 21080.3.1 for the proposed Paradise Canyon Elementary School Modernization Project, Los Angeles County.

Attachment 4

Historical Society Consultation

From:	Kim, Monte
To:	lantermanhouse@gmail.com
Subject:	Paradise Canyon Elementary School Project
Date:	Wednesday, September 28, 2022 5:08:00 PM
Attachments:	Lanterman House Historical Society Letter_20220928.pdf Figures 01,02,03_stacked.pdf

Good afternoon Ms. Verlaque,

Michael Baker International is conducting a cultural resources investigation for the Paradise Canyon Elementary School Project in La Canada Flintridge, CA. Please see the attached letter and maps for additional details about the project We are conducting outreach to ask you if you have any information or concerns regarding cultural resources in the project area. Should you have any questions or comments, please fell free to contact me.

Thank you very much,

Monte Kim, PhD | Technical Manager - Cultural Resources I Pronouns: he/him
3100 Zinfandel Drive, Suite 125 | Rancho Cordova, CA 95670 | [O] 916-517-4416 | [M] 916-201-9451
monte.kim@mbakerintl.com | www.mbakerintl.com

Michael Baker
INTERNATIONAL

We Make a Difference

September 28, 2022

LAURA VERLAQUE, EXECUTIVE DIRECTOR
LANTERMAN HISTORICAL MUSEUM FOUNDATION
P.O. BOX 1621
LA CAÑADA FLINTRIDGE, CA 91011
VIA EMAIL: LANTERMANHOUSE@GMAIL.COM

RE: PARADISE CANYON ELEMENTARY SCHOOL MODERNIZATION PROJECT

Dear Ms. Verlaque:

Michael Baker International is conducting a cultural resources study in support of the Paradise Canyon Elementary School Project (project) in La Cañada Flintridge, California. The proposed Project involves the construction and use of one approximately 22,000-square-foot, two-story classroom building (containing 20 classrooms, restrooms, a conference room, and storage) and one approximately 5,600-square-foot, single-story classroom building (containing five classrooms, restrooms, and storage) to replace 18 portable classroom buildings and one site-built classroom building; renovation of 14 existing classrooms; installation of temporary portable classrooms to serve as interim/temporary classrooms during Project construction; removal and replanting of onsite trees; and repairs and improvements to site utilities, landscaping, and pedestrian walkways. The project site is located approximately 0.4 miles northeast of Highway 210 (I-210) at Knight Way, between Gould Avenue to the west and Paulette Place to the east. The project is subject to the California Environmental Quality Act (CEQA).

We are contacting you in an effort to identify cultural resources that may be adversely impacted by the proposed project. Please notify us if your organization has any information or concerns about historical resources on the project site. This is not a request for research; it is solely a request for public input related to any concerns that the Lanterman Historical Museum Foundation may have. If you have any questions or comments, please contact me at your earliest convenience at monte.kim@mbakerintl.com or 916-517-4416. Thank you for your time and assistance.

Sincerely,

Monte Kim

Monte Kim, PhD
Senior Architectural Historian

Attachments:
Attachment 1 - Figures



★ Project Location

Michael Baker INTERNATIONAL

N

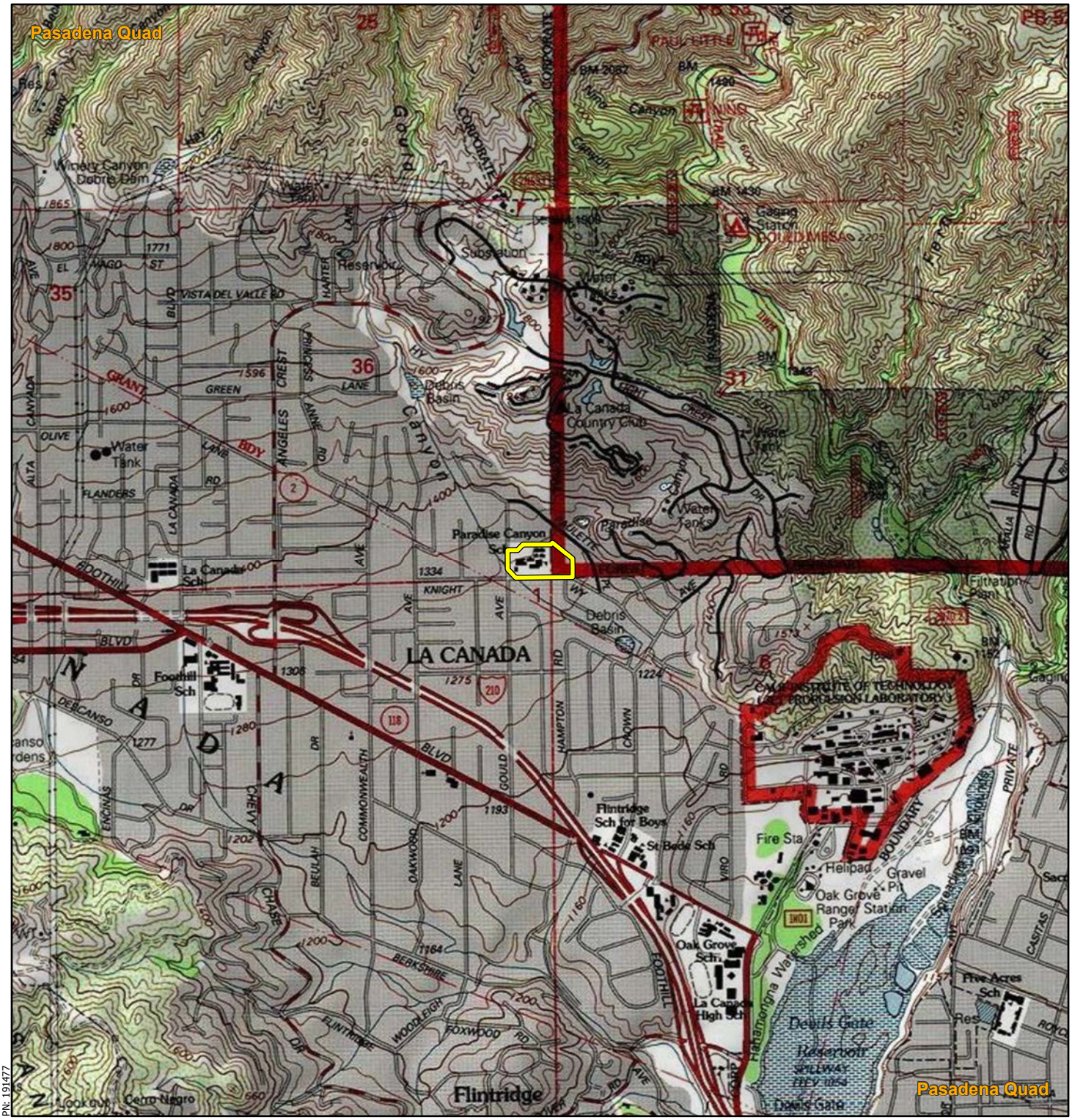
0 2.5 5 10 Miles

Source: Esri, ArcGIS Online, National Geographic World Map: *La Cañada Flintridge, California*

PARADISE CANYON ELEMENTARY SCHOOL
MODERNIZATION PROJECT

Regional Vicinity

Figure 1



PN: 191477

Michael Baker INTERNATIONAL

N

0 0.13 0.25 0.5 Miles

Source: Esri, ArcGIS Online, USGS 7.5-Minute topographic quadrangle maps: *La Cañada Flintridge, California*

PARADISE CANYON ELEMENTARY SCHOOL
MODERNIZATION PROJECT

Project Vicinity

Figure 2



PN: 191477

Project Area

Michael Baker INTERNATIONAL

N

0 50 100 200

Feet

Source: Esri, ArcGIS Online, 2021 Nearmap Imagery: *La Cañada Flintridge, California*

PARADISE CANYON ELEMENTARY SCHOOL
MODERNIZATION PROJECT

Project Area

Figure 3

From: Lanterman House
To: Kim, Monte
Subject: EXTERNAL: Re: Paradise Canyon Elementary School Project
Date: Tuesday, October 4, 2022 3:32:52 PM

Dear Mr. Kim,
We don't have any cause for concern about this project, which appears to be contained within existing boundaries of the current school.

Thank you for your outreach.

Sincerely,

Laura Verlaque
Executive Director
Lanterman Historical Museum Foundation
(818) 790-1421
lantermanhouse@gmail.com

On Wed, Sep 28, 2022 at 5:08 PM Kim, Monte <Monte.Kim@mbakerintl.com> wrote:

> Good afternoon Ms. Verlaque,
>
> Michael Baker International is conducting a cultural resources investigation for the Paradise Canyon Elementary School Project in La Canada Flintridge, CA. Please see the attached letter and maps for additional details about the project We are conducting outreach to ask you if you have any information or concerns regarding cultural resources in the project area. Should you have any questions or comments, please fell free to contact me.
>
> Thank you very much,
>
> **Monte Kim, PhD** | Technical Manager - Cultural Resources I Pronouns: he/him
>
> 3100 Zinfandel Drive, Suite 125 | Rancho Cordova, CA 95670 | [O] 916-517-4416 | [M] 916-201-9451
> monte.kim@mbakerintl.com | www.mbakerintl.com

Attachment 5

DPR 523 Form Set

P1. Other Identifier: N/A
***P2. Location:** ☒ **Unrestricted**
***a. County** Los Angeles **and**
***b. USGS 7.5' Quad** *Pasadena, Calif.* **Date** 1995 (ed. 1999) **T** 2N; **R** 12W, 13W; **Sec** 31, 36 S.B.B.M
c. Address: 471 Knight Way **City:** La Cañada Flintridge **Zip:** 91011
d. UTM: Zone 11S, 390450mE/3785947mN east edge; 390725mE/3785931mN west edge
e. Other Locational Data: APN 5817-007-902

***P3a. Description:**
Paradise Canyon Elementary School is located at 471 Knight Way in La Cañada Flintridge, California. The approximately 8.5-acre parcel is bound by Knight Way to the south, Gould Avenue to the west, and residential development to the north and east sides. A canal follows along the southwest end of the boundary. The site is in a suburban area featuring predominantly residential and recreational uses. The complex is entered from the south main entrance facing Knight Way through a circular driveway. From the entry, concrete steps lead to the administrative office (Building A) (**Photograph 1**) and into the rest of the campus through tall metal gated doors to the west and east of the building. The administrative office (Building A), art classroom (Building B), and other connected classrooms and educational facilities (Building C through Building H are part of the original 1949 plan, while other buildings are later additions) occupy most of the western two-thirds of the parcel (see **Figure 1** for locations and **Table 1** for dates and uses). The eastern third of the property consists of a sandy and grassy baseball field and asphalt-paved hardscapes and the northwest corner consists of asphalt-paved basketball and wall ball courts (see Continuation Sheets).

***P3b. Resource Attributes:** HP15. Education Building
***P4. Resources Present:** ☒ Building

P5a. Photo or Drawing (Photo required for buildings, structures, and objects.)



Photograph 1: See P5b for caption.

P5b. Description of Photo:
Photograph 1: Paradise Canyon Elementary School, Building A main administration building. Camera facing north, 10/17/22.

P6. Date Constructed/Age and Source:
☒ Historic
1949
(*Los Angeles Mirror* 1949; NETR 2022: 1952)

***P7. Owner and Address:**
La Cañada Unified School District
4490 Cornishon Ave.
La Cañada, CA 91011

***P8. Recorded by:**
Marcel Young
Michael Baker International
3100 Zinfandel Drive, #125
Rancho Cordova, CA 95670

***P9. Date Recorded:** October 17, 2022

***P10. Survey Type:** Intensive Pedestrian

***P11. Report Citation:** Kim, Monte, Aisha Fike, Peter Kloess, and Max Van Rensselaer. 2022. "Cultural and Paleontological Resources Identification and Evaluation Memorandum for the Paradise Canyon Elementary School Modernization Project, La Cañada Flintridge, Los Angeles County, California." Rancho Cordova, CA: Michael Baker International.

***Attachments:** ☒Building, Structure, and Object Record ☒Location Map ☒Continuation Sheet

B1. Historic Name: Knight Way Elementary School (1949) Paradise Canyon Elementary School (1949)
B2. Common Name: Paradise Canyon Elementary School
B3. Original Use: Education **B4. Present Use:** Education
***B5. Architectural Style:** Finger-Plan School
***B6. Construction History:**

Buildings A through H and the lunch shelter were completed by September 1949; this original plan is visible on the 1950s aerial images (see **Figure 1** for location, **Table 1** construction dates, and **Figure 2** for the original footprint) (*Los Angeles Mirror* 1949; NETR 2022: 1952; UCSB 1956). The property was expanded in 1957 to include the land to the northwest as shown in **Figure 1** and used as a playing field converted to paved hardscape ca. 1985 (*Los Angeles Times* 1949a, *Metropolitan Pasadena Star-News* 1949b; NETR 2022: 1982, 1987). Circa 1970, three buildings were added to the campus: the library and two other portable classroom buildings west and north of Building H (NETR 2022: 1964, 1972; LCUSD 2017). In 1985, 1990, and 1997, additional portable buildings were added facing Gould Avenue to the west and at the northeast end of the site, north of the baseball field (NETR 2022: 1982, 1987, 1997).

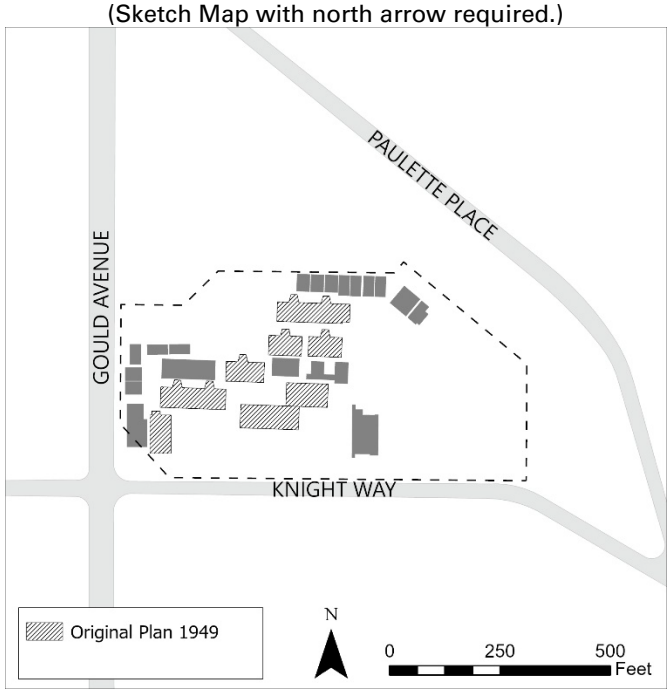
The grassy baseball field was part of the original 1949 plan and a review of historical aerials show the current dugout and sand field were added in 1988 (NETR 2022: 1952, 1987, 1988). The original 1949 covered lunch shelter area was reconfigured in 1998 with a new shelter; at this time, a bathroom extension was added to the east wall of Building E. The large multipurpose building east of Building A was built in 2005 (NETR 2022: 1998, 2005, 2009; LCUSD 2017). An extension to the lunch shelter with a covered corridor was added ca. 2019 (NETR 2022: 2018, 2020). Additionally, interior modernizations to the buildings were undertaken in 1997 and to the portable buildings in 2001 (LCUSD 2017).

***B7. Moved?** ☒**No** **Date:** N/A **Original Location:** N/A
***B8. Related Features:** N/A
B9a. Architect: Flewelling and Moody, Architects (Ralph Carlin Flewelling and Walter Leland Moody) **b. Builder:** Unknown
***B10. Significance: Theme:** Postwar Development; Architecture; Education **Area:** La Cañada, California
Period of Significance: 1949 **Property Type:** School **Applicable Criteria:** N/A

Early History

Nestled in the foothills of the San Gabriel Mountains and west of the bustling city of Pasadena, La Cañada during the turn of the twentieth century was characterized by sparse development of roads and isolated farms. The center of La Cañada was a six-block area south of Foothill Boulevard along La Cañada Boulevard (USGS 1900). It was founded and developed by the Lanterman family. Dr. Jacob Lanterman along with his partner Colonel Adolphus Williams, two health seekers from Michigan, purchased the 5,830-acre Rancho La Cañada in 1875. Hoping to sell lots for development on their vast lands, they drew a subdivision map of 46 lots of approximately 100 acres each. However, the area grappled with a lack of good water source and few lots were sold. By 1893, La Cañada had a total of 53 houses. When electricity was brought to the San Gabriel Valley in 1910, deep well pumping was made possible which, along with increased vehicle use and paved roads, contributed to a growing population in the 1920s, reaching approximately 1,500 people and 500 houses by 1930 (City of La Cañada Flintridge 2022; Dougherty n.d.).

(Sketch Map with north arrow required.)



B11. Additional Resource Attributes: N/A

***B12. References:** (See Continuation Sheets)
B13. Remarks: N/A

***B14. Evaluator:**
Aisha Fike, Architectural Historian
Michael Baker International
3100 Zinfandel Drive, #125
Rancho Cordova, CA 95670

***Date of Evaluation:** October 14, 2022

(This space reserved for official comments.)

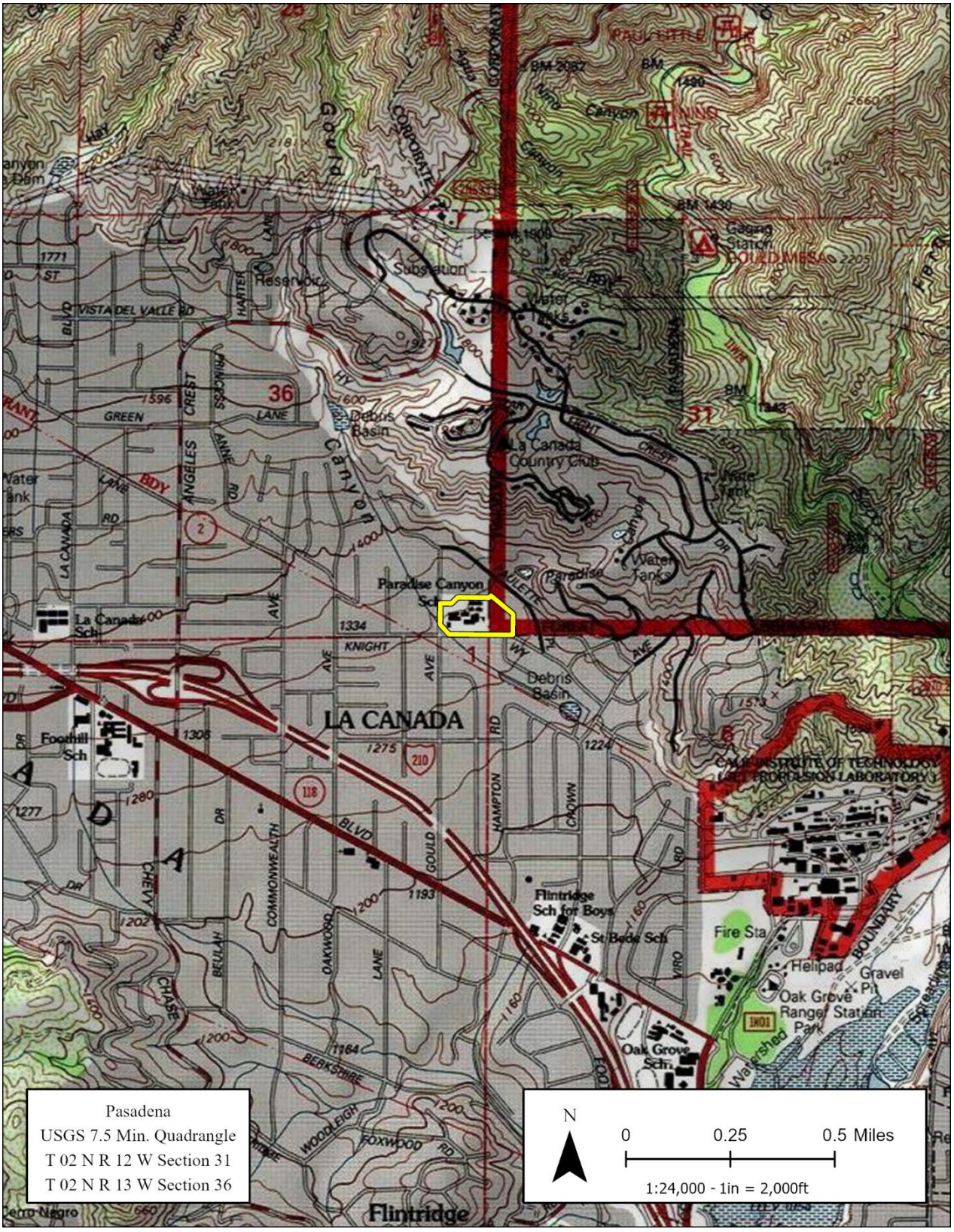
State of California - The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI#
Trinomial

***Resource Name or #** Paradise Canyon Elementary School

***Map Name:** *Pasadena, Calif.* ***Scale:** 1:24,000 ***Date of map:** 1995, ed. 1999



B6. Construction History (continued):

Table 1: Building Dates

Building ID*	Use(s)	Construction Date	Sources(s)
A	Administration Building	1949	*Los Angeles Mirror* 1949; *Metropolitan Pasadena Star-News* 1949c
B	Art, Stage (former Kitchen and Library)	1949	*Los Angeles Mirror* 1949; NETR 2022: 1952; LCUSD 2017
C	Classrooms	1949	*Los Angeles Mirror* 1949; NETR 2022: 1952;
D	Classrooms	1949	*Los Angeles Mirror* 1949; NETR 2022: 1952
E	Classrooms	1949	*Los Angeles Mirror* 1949; NETR 2022: 1952
F	Classrooms	1949	*Los Angeles Mirror* 1949; NETR 2022: 1952
G	Classrooms	1949	*Los Angeles Mirror* 1949; NETR 2022: 1952
H	Classrooms	1949	*Los Angeles Mirror* 1949; NETR 2022: 1952
1	Library	c. 1970	NETR 2022: 1964, 1972
2	Multipurpose Building	2005	LCUSD 2017; NETR 2022: 2004, 2005
N/A	Lunch Shelter	1998	NETR 2022: 1964, 1972; 1985-1999
N/A	Portables	c. 1970; 1990s	NETR 2022: 1964, 1972; 1985-1999
N/A	Grass and Baseball Field; Dugout	1949; 1988	NETR 2022: 1952, 1987, 1988
N/A	Land Addition (northwest hardcourts)	1957	*Los Angeles Times* 1957

* 1949 plan buildings identified by letters, later addition buildings identified by numbers, and portables are denoted in Figure 1 below.

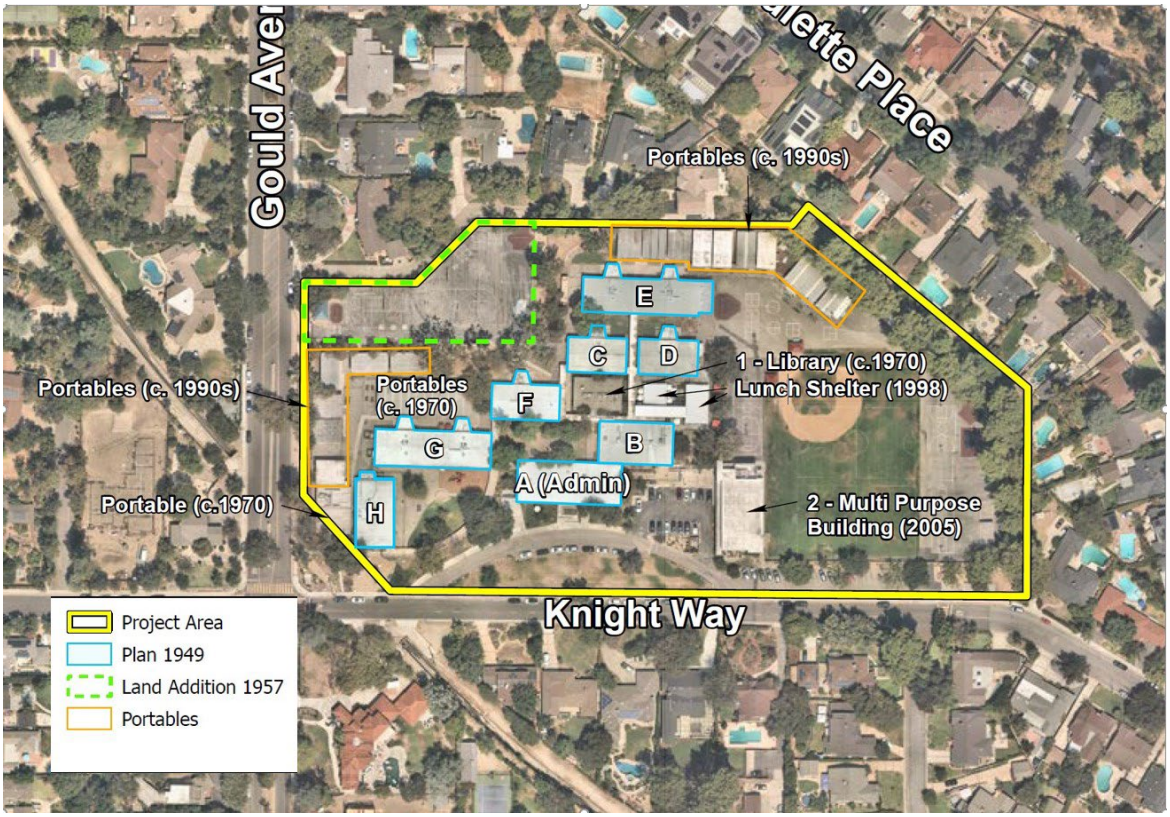


Figure 1: Aerial view of the subject property with the original 1949 plan buildings (blue) and additions denoted with dates (Google Earth 2022).



Figure 2: 1956 aerial photograph showing the original school buildings and school plan of 1949; note the original lunch shelter size compared to the current one in Figure 1 (UCSB 1956).

P3a. Description (continued):

1949 Plan

For documentation purposes, this study assigned alphabetic identifiers to each building built during the original phase of construction in 1949 (see **Figure 1** and **Table 1** for location and construction dates and **Figure 2** for the original footprint). The eight one-story buildings (Buildings A–H) that comprise the original Paradise Canyon Elementary facility of 1949 were planned in the finger plan design and share similar designs and materials. All but Building H sit horizontally on the site and the buildings fan out from connecting covered walkways. All feature a rectangular footprint, are of brick construction, rise from a concrete slab foundation, and are capped by a roof with a slight gable pitch and wide eaves at the south walls. Except for Buildings A, B and H, all feature trapezoidal extensions at the north wall used as storage. The north façade features full-length steel-frame windows between the extensions and the south walls feature narrower half-length steel-frame bands with the lower half of the south elevation fronted by a redbrick site wall (**Photograph 3** through **Photograph 10**). The administrative building (Building A) at the main façade facing the school driveway at Knight Way features the typical south-facing design and configuration consisting of a wide eave overhang, narrow band, and full-length metal-frame windows. Large metal-frame glazed doors are at the east bay of the façade as the main school entrance, which is the slight difference from the other south-facing facades of the buildings and east façade of building H (**Photograph 1** and **Photograph 2**).



Photograph 2: Overview of buildings at main entrance from Knight Way; original 1949 Building B to the right of photo, Building A at the center, and Building H at the far left of image with the circular driveway fronting the buildings. Camera facing northwest, 10/17/22.



Photograph 3: Building F south wall, representative of the south-facing façade of original 1949 buildings, narrower band of steel-frame windows fronting a redbrick site wall and planter, and exterior covered corridor to the right of photo. Camera facing northwest, 10/17/22.



Photograph 4: Building F north wall, representative north-facing wall of original 1949 buildings with trapezoidal-shaped storage extensions at the center of façade flanked by full-length, steel-frame windows. Camera facing southeast, 10/17/22.



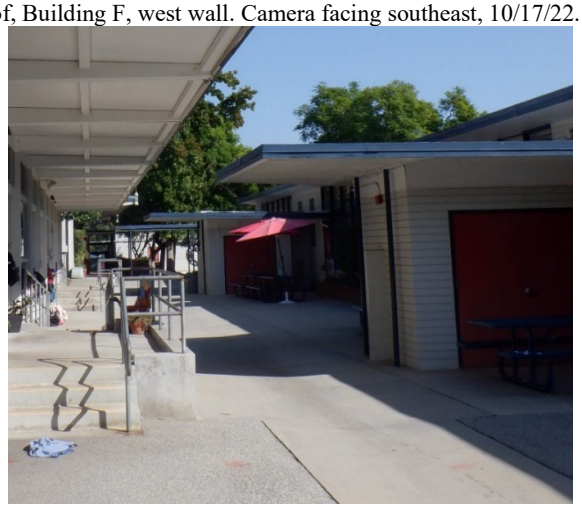
Photograph 5: Building F north wall, east bay. Camera facing southwest, 10/17/22.



Photograph 6: Close up view of brick wall and slight gable-pitched roof, Building F, west wall. Camera facing southeast, 10/17/22.



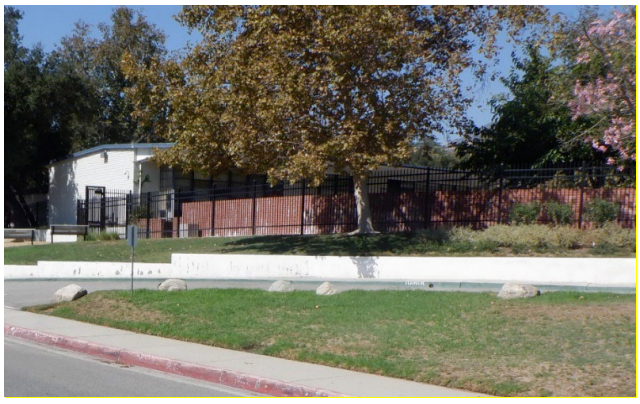
Photograph 7: Building F, east wall showing typical outdoor covered corridor alongside Building 1 library (left of photo) and leading to south wall of Building C (background). Camera facing north, 10/17/22.



Photograph 8: Building G, north wall showing storage extensions, Building 2 (ca. 1970 portable) to right of photo. Camera facing east, 10/17/22.



Photograph 9: Building E, north-facing wall from upper hardcourts. Camera facing southeast, 10/17/22.



Photograph 10: Building H, south and east wall facing Knight Way. Camera facing northwest, 10/17/22.

Additions

The northwest area was added to the school property in 1957 (see **Figure 1** and **Table 1** for location and construction dates). Over the next few decades, several wood-frame portable buildings were built. A new library (Building 1) was added at the center of the buildings in the empty space created between Building B, F, C, D and the lunch shelter. This building sits at a lower grade and is capped by a flat roof with wood board siding (**Photograph 7**, west wall of library building). The two portable buildings constructed ca. 1970 are north of Building G and west of Building H, and also each have a wide eave overhang at the wall facing south and east. The wide eave walls contain the main entry doors, and the façade is separated with a band of aluminum-frame clerestory windows with aluminum-frame windows, wood siding, and metal-frame doors alternating below (**Photograph 11** and **Photograph 12**). The portable buildings built in the 1990s line the property boundary at the west and north. These buildings are on concrete steps and have wide eaves and T1-11 composite siding (**Photograph 13**). A large two-story multipurpose building was constructed in 2005 east of the admin building and the on-site parking lot (**Photograph 14**).



Photograph 11: Ca. 1970 portable classroom building north of Building G. Camera facing northwest, 10/17/22.



Photograph 12: Portable ca. 1970, west of Building H. Portable, south and east wall facing Knight Way. Camera facing southwest, 10/17/22.



Photograph 13: Portable buildings (ca. 1997), north of Building E, typical of portables added to property during the 1990s. Camera facing northwest, 10/17/22.



Photograph 14: Building 3, multipurpose building (2005), south wall facing Knight Way, east of Building A. Camera facing north, 10/17/22.

***B10. Significance (continued):**

Early History (continued).

During the first couple decades of the twentieth century, La Cañada began to shift from agriculture to suburbs. The former grain fields, vineyards, and citrus groves gave way to small ranches and home sites for Los Angeles commuters. In 1913, the State of California paved current Foothill Boulevard, and a streetcar line down to Glendale was built, making it possible for La Cañada residents to work in Los Angeles. During this time, 1,700 acres south of Foothill Boulevard were subdivided into large lots for homes by U.S. Senator and developer Frank Flint, who named the development "Flintridge." La Cañada experienced little to no development during the Depression years of the 1930s. The notable development at the end of the Depression era was the Jet Propulsion Laboratory. Built in 1936 in La Cañada, it would go on to become the leading U.S. center for robotic exploration of the solar system (City of La Cañada Flintridge 2022; Dougherty n.d.).

Mid-Twentieth Century in La Cañada

During the war years of the 1940s, ranching died out almost entirely and as in elsewhere in the nation, soldiers and others arrived in La Cañada to work for the defense industries. In 1950, Frank Lanterman (grandson to Dr. Lanterman of the founding pioneer family in the area) successfully petitioned to bring water from the Colorado River to La Cañada, and in addition to the post-war influx of residents this encouraged growth in La Cañada. The last vestiges of the scattered ranches and farms in La Cañada that had endured through the 1950s disappeared by the mid-1960s as the landscape shifted completely to residential bedroom communities. The other major change in the physical landscape of La Cañada occurred with the construction of the east- and westbound Foothill Freeway (I-210) in 1972, cutting the city in two and reducing access within the city. In November 1976, La Cañada residents voted to join Flintridge as the city of La Cañada Flintridge and elected a five-member city council and a city manager (Dougherty n.d.; City of La Cañada Flintridge 2022; NETER 2022: 1952, 1964; UCSB 1956; USGS 1953).

La Cañada Elementary School District Paradise Canyon Elementary School History

In 1885, the school population of La Cañada reached the required fifteen students, leading to the creation of the La Cañada Elementary School District for students through eighth grade. The first schoolhouse was lost to a fire. The site of the current Memorial Park was the previous location of La Cañada Elementary School before its move and new construction in 1968 to just north of Memorial Park at Foothill Boulevard, in anticipation of the construction of Foothill Freeway (City of La Cañada Flintridge 2022; Dougherty n.d.; LCUSD 2017; NETR 2022: 1964, 1972).

Paradise Canyon Elementary School (originally intended to be named Knight Way Elementary School) was built in 1949 as the second elementary school of the school district to address the growing postwar population. The newspaper articles about the new school from April to June of 1949 stressed the importance of the bond measure to support the construction of the new school to ensure the city could support the education of the rapidly growing population (*Metropolitan Pasadena Star-News* 1949a, 1949b, 1949c; *Los Angeles Mirror* 1949). The original 1949 buildings were designed in the finger plan arrangement with eight buildings connected to outdoor corridors fanning outward to provide ample outdoor space and fresh air (see **Figure 2** and **Figure 3**).


THE MIRROR OF
BUSINESS
INDUSTRY ⌣⌣ AUTOMOBILES ⌣⌣ REAL ESTATE

KEEPING AHEAD: Building schools to keep pace with the birth rate and California's postwar immigration has become a full-time job. Contractors Roy and Joseph G. Klapper, left, study blueprints with Mrs. Mary Wood, La Canada school board member, and school superintendent Paul C. Butler, on the grounds of the nearly completed Paradise Valley School.

TAXPAYERS VS. THE BIRD

Stork's Production Booms School Biz

DESIGN, ECONOMY ARE PARAMOUNT: To lighten the taxpayers' burden and at the same time eliminate teaching obstacles, architects today are incorporating features designed toward both goals. The La Canada project has no interior corridors, but outside corridors are covered by wide overhanging roofs.

NEW YORK STOCKS

Figure 3: Photograph of school officials and construction of Paradise Canyon Elementary School in the August 29, 1949, issue of the *Los Angeles Mirror*. The school was used as an example of the recent education and population boom in the region. Shown above are La Cañada Elementary School District officials, including superintendent Paul Butler, discussing the plans for the school with the contractors (left photo), and a view of one of the buildings with the covered walkway under construction (right photo) (*Los Angeles Mirror* 1949).

Similarly, the third and final elementary school of the La Cañada Elementary School District opened in 1956 to address the continued community growth. The La Cañada Unified School District was formed in 1961, providing junior high and high school education to the La Cañada residents with a new middle/high school in 1962 (LCUSD 2017; GUSD 2022).

People

Paul C. Butler (**Figure 4**) (1917-1977) served as the superintendent of the La Cañada Elementary School District during the 1949 expansion of the district and was heavily involved in the construction of Paradise Canyon Elementary School (**Figure 3** and **Figure 4**) (US Death Index 1977). Born in 1917, Butler began his career as an educator at an elementary school in La Habra, Orange County, California (US Census 1940). He was hired as the superintendent for the district in 1949 and served in that capacity until January 1951, at which time he was appointed to assistant business manager of Paramount Elementary School District (*Metropolitan Pasadena Star-News* 1949c*; South Gate Daily Press-Tribune* 1951). A 1949 article featuring the "youthful La Canada School Head" highlighted his efforts of working successfully with the school board, parents, and teachers. In fact, he was selected out of 29 applicants for the job of superintendent at La Cañada Elementary School District for his prior extensive experience in school expansions (*Metropolitan Pasadena Star-News* 1949c). While working as the superintendent for the La Cañada Elementary School District, Butler resided in Burbank, Los Angeles County, with his wife Violet and three daughters (US Census 1950).



Figure 4: Portrait of Paul C. Butler, superintendent of La Cañada Elementary School District during the 1949 expansion, featured in the *Metropolitan Star-News* in June 1949 (*Metropolitan Pasadena Star-News* 1949c).

Property Type and Architectural Style

"Finger" Plan

In terms of its spatial organization, Paradise Canyon Elementary School is reflective of the finger plan school or "California School" property type. This plan type arose in the late 1930s, evolving from the previous Mission-style schools and gaining momentum in popularity in the late 1940s as an ideal plan to address the growing postwar baby boom. It became ubiquitous of school design during the postwar period of the 1940s and early 1950s. Thousands of primary schools were constructed in the plan statewide and then nationwide. The style was most popular in California and other tropical and Mediterranean climates, which made it possible to use outdoor spaces and outdoor corridors year-round. As the plan gained popularity, its basic form changed to accommodate other climate variations in the nation with the use of double-loaded hallways to provide the same level of ventilation and outdoor use. The finger-plan design is characterized by rectangular wings about 30-40 feet apart containing classrooms in line with an open exterior corridor on one side, making it possible to use bilateral daylighting and cross-ventilation (see **Figure 5**) (Gellner 2020; California Department of Education 2000). The design was pioneered by modern architect Ernest Kump (1912-1999), and his first finger plan school, Acalanes High School (1939) in Lafayette, California (see **Figure 6**), was extremely influential as the national prototype for public schools of all levels in the 1940s especially and continued to be an influential design into the 1960s (Gellner 2020).

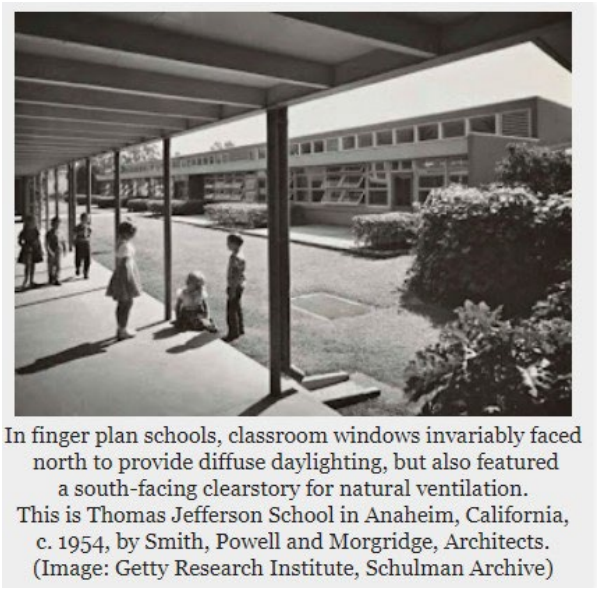


Figure 5: Image of a finger plan school (Thomas Jefferson School ca. 1954) showcasing the north-facing wall of full windows and exterior covered walkways (Gellner 2020).



Figure 6: Birds-eye view 1958 photograph of an expanded "finger-plan" Acalanes Union High School, Lafayette, California (Sapphos Environmental 2014).

Architect

Paradise Canyon Elementary School was designed by the architecture firm of Flewelling and Moody in 1949. The firm was founded in 1947 by established local Los Angeles area architects, Ralph Carlin Flewelling and Walter Leland Moody. The partnership emerged during the postwar boom years as one of six firms in Southern California specializing in architectural design for public school and higher education facilities. Their first collaboration together was the design for the new campus of the Santa Ana College in 1947. Together they designed four more school campuses, including the subject property, Paradise Canyon Elementary School (1949), Morningside High School in Inglewood (1953), Center Street Elementary School in El Segundo (1954), and Hawthorn High School in Hawthorn (1955). After this it appears both men semi-retired and collaborated for the last time in 1970 for the design of the Seeley W. Mudd Library for Claremont College in Claremont. Flewelling's only son, Ralph Hunter Flewelling, ran the company during the late 1950s and officially took leadership of the firm in 1965 until 1995. The firm of Flewelling and Moody continues to offer architectural services, specializing in educational facilities, with offices in Los Angeles and Sacramento, California (Flewelling and Moody 2022: *ArchInForm* 2022; PCAD 2022a, 2022b).

Ralph Carlin Flewelling (1894-1975) was born on May 4 in St. Louis, Michigan. His father, Ralph Tyler Flewelling, was a noted academic philosopher as the leading figure in the "personalist" approach. Flewelling received a master's degree in 1917 from the Massachusetts Institute of Technology in Cambridge, Massachusetts. After only four years of working as a draftsman (1921-1925), Flewelling opened an architectural practice for which he was principal until his partnership with Moody in 1947, and continued as Ralph C. Flewelling and Associates from 1948 to 1953. Flewelling's most noted designs during his solo years include the Hawthorn School in Beverly Hills (1928), the University of Southern California's Seeley W. Mudd Memorial Hall of Philosophy (1930), and the Beverly Hills Post Office (1932). Flewelling became a Fellow of the American Institute of Architects in 1941 and his partnership with Moody was most active from 1947 to 1955 (*ArchInForm* 2022; PCAD 2022c; Flewelling and Moody 2022).

Walter Leland Moody (1897-2000) was born on August 28 in Santa Monica, California, and received a bachelor degree of architecture from University of California, Berkeley, in 1920. He began his career as a draftsman for Davis and Davis, Architects in 1921 and established his own practice in 1928 designing primarily residences until his partnership with Flewelling in the mid-1940s. Moody lived to be 102 and died in 2000 in Glendale, California (PCAD 2022d; Flewelling and Moody 2022).

Research through targeted searches on Ancestry.com, Newspapers.com, Internet Archive, HathiTrust, and other online databases did not reveal the builder of any of the extant buildings on the subject property. No building permits issued for this property have been digitized for online public access by La Cañada Flintridge.

California Register of Historical Resources Evaluation

The following includes an evaluation of Paradise Canyon Elementary School for its eligibility for listing on the California Register of Historic Resources (OHP 2001). This property has not previously been evaluated for the California Register (OHP 2022). It has been evaluated herein in accordance with Section 15064.5(a)(2)-(3) of the California Environmental Quality Act (CEQA) Guidelines, using the criteria outlined in Section 5024.1 of the California Public Resources Code.

Criterion 1 – Paradise Canyon Elementary School was built in 1949 as the second of three elementary schools in the La Cañada Elementary School District and in response to the postwar baby boom. However, newspaper and contextual research failed to indicate that it was singularly important within this broad pattern of postwar elementary school construction. Paradise Canyon Elementary School was constructed to address the anticipated educational needs of the community, similar to other contemporaneous educational facilities in other growing communities throughout California in the mid-century. Furthermore, built as the second elementary school in the former elementary school district, it does not have significant association with the establishment of the La Cañada Elementary School District, which was founded in 1885 and absorbed into the La Cañada Unified School District formed in 1961. Therefore, the property is recommended not eligible for listing in the California Register under Criterion 1.

Criterion 2 – Research failed to indicate that Paradise Canyon Elementary School is directly associated with the lives of persons who significantly contributed to local, state, or national culture and history. Historical records reviewed revealed that the first superintendent of the school, Paul C. Butler, was heading the expansion of the school in 1949 and appears to have been a very involved educator and school administrator. However, there is no demonstrable evidence that Butler or any subsequent administrators or teaching staff made significant contributions within the broader context of educational advancement in La Cañada or California. Therefore, this property is recommended not eligible under California Register Criterion 2.

Criterion 3 – The original school buildings were constructed in 1949 in the finger plan design. Pioneered in the late 1930s by Ernest Kump, a master architect of school architecture, the finger plan became ubiquitous in the 1940s as the most common school plan constructed in the United States. Kump's first finger plan school, Acalanes High School in Lafayette (1939), was highly influential as the prototype for public schools in the 1940s (Sapphos 2014; Gellner 2020). The distinctive characteristics of the plan were the building wings with wide overhangs in line with an outdoor covered corridor radiating outward in a finger-like plan, providing ample opportunities for outdoor access. Its modular design allowed for easy expansion and became popular for a variety of school sites to address the growing postwar baby boom population. Paradise Canyon Elementary School is typical of the finger plan in its use of classroom buildings radiating outward from a connecting outdoor corridor and in its use of bilateral daylighting and cross-ventilation in the large metal-frame, full-length windows facing south and the high clerestory under a wide hallway roof facing south. The original plan buildings A through H retain the original design and typify the finger plan design; however, as a ubiquitous plan constructed throughout the nation in the 1940s in response to the postwar population boom, it is not an exceptionally significant example of the typology within the school districts of the greater Los Angeles area. Paradise Canyon Elementary School is a relatively simple example of a finger plan school when compared against more noted Los Angeles area schools such as the Kester Avenue Elementary in Sherman Oaks by Richard Neutra (1951) and the Baldwin Hills Elementary School in Los Angeles by Neutra & Alexander (1949) (Sapphos 2014).

Furthermore, the school does not appear to be significant under Criterion 3 for its association with the architectural firm Flewelling and Moody. While Flewelling and Moody appear to have designed several schools in Southern California during their partnership in the 1940s–1950s, some of which received accolades, Flewelling and Moody do not appear to have been eminent masters in the field of architecture or campus planning. Research failed to indicate that their firm played a demonstrably important role in steering postwar school design. Rather, like many of their contemporaries, Flewelling and Moody appear to have designed schools to reflect the prevailing trends of the time. Therefore, the subject property is recommended not eligible for listing in the California Register under Criterion 3.

Criterion 4 – The built environment of the subject property is not likely to yield valuable information which will contribute to our understanding of human history because the property is not and never was the principal source of important information pertaining to significant events, people, or architectural style. Therefore, this property is recommended not eligible for listing in the California Register under Criterion 4.

Conclusion – Lacking historical significance, Paradise Canyon Elementary School is recommended not eligible for listing in the California Register. As such, the building is not considered a historical resource as defined by CEQA Section 15064.5(a).

***B12. References (continued):**

ArchINForm. 2022. "Ralph Carlin Flewelling." Accessed November 2022. https://www.archinform.net/arch/109478.htm.

California Department of Education. 2000. "Guide to School Site Analysis and Development." Accessed October 2022. https://www.cde.ca.gov/ls/fa/sf/guideschoolsite.asp.

City of La Cañada Flintridge. 2022. "City History." Accessed October 2022. https://cityoflcf.org/city-history/.

Dougherty, June. n.d. "History of La Cañada Flintridge." Accessed October 2022. https://www.lantermanhouse.org/history-of-la-canada-booklet.

Flewelling and Moody. 2022. "History 1928-Present; Awards." Accessed October 2022. https://www.flewelling-moody.com/?page_id=3375.

Gellner, Arrol. 2020. "The California Finger Plan School: Incubator for the Baby Boom." April 7. Accessed October 2022. http://arrolgellner.blogspot.com/2020/04/the-california-finger-plan-school.html.

Google Earth Pro. 2022. Aerial image of "471 Knight Way, La Cañada Flintridge, California." Accessed October 2022.

GUSD (Glendale Unified School District). 2022. "History of the Proposed Territory Transfer Area." Accessed October 2022. https://www.gusd.net/cms/lib/CA01000648/Centricity/Domain/38/Territory%20Transfer%20History%20as%20of%2001-2018.pdf.

LCUSD (La Cañada Unified School District). 2017. "Facilities Master Plan La Cañada Unified School District: 5. Site Master PlansMetro." Presented to Board of Education June 2017. Accessed October 2022. https://www.lcusd.net/apps/pages/index.jsp?uREC_ID=743931&type=d&pREC_ID=1154176.

Los Angeles Mirror. 1949. "Stork's Production Booms School Biz." Aug. 29. Accessed October 2022. www.newspapers.com.

Los Angeles Times. 1957. "School Board Asks Land for Addition." Oct. 06. Accessed October 2022. www.newspapers.com.

Metropolitan Pasadena Star-News. 1949a. "La Canada Will Vote May 20 on School Bonds.'" April 11. Accessed October 2022. www.newspapers.com.

———. 1949b. "School Head Supports Bond Issue." April 26. Accessed October 2022. www.newspapers.com.

———. 1949c. "Youthful La Canada School Head Believes in Teaching Way of Life." June 26. Accessed October 2022. www.newspapers.com.

NETR (Nationwide Environmental Title Research, LLC). 2022. Historic aerial views of area and vicinity 1952-2020. Accessed October 2022. www.historicaerials.com/viewer.

OHP (Office of Historic Preservation). 2001. *Technical Assistance Series #7: How to Nominate a Resource to the California Register of Historical Resources*. Sacramento, CA: California Department of Parks and Recreation.

———. 2022. "Los Angeles County, California." *Built Environment Resource Directory*. Sacramento, CA: California Department of Parks and Recreation. Accessed October 2022. https://ohp.parks.ca.gov/?page_id=30338.

PCAD (Pacific Coast Architecture Database). 2022a. "La Cañada Unified School District, Paradise Canyon Elementary School, La Cañada Flintridge, CA 1949." Accessed October 2022. https://pcad.lib.washington.edu/building/5070/.

———. 2022b. "Flewelling and Moody, Architects (Partnership)." Accessed October 2022. https://pcad.lib.washington.edu/firm/393/.

———. 2022c. "Ralph Carlin Flewelling (Architect)." Accessed October 2022. https://pcad.lib.washington.edu/person/711/.

———. 2022d. "Walter Leland Moody (Architect)." Accessed October 2022. https://pcad.lib.washington.edu/person/715.

Sapphos Environmental, Inc. 2014. "Los Angeles Unified School District Historic Context Statement, 1870 to 1969." Prepared for the Los Angeles Unified School District, Office of Environmental Health and Safety. March 2014. Accessed October 2022. https://planning.lacity.org/odocument/5a14c032-614e-4cd2-b58a-9507df31fbd1/Los%20Angeles%20Unified%20School%20District%20Historic%20Context%2C%201870-1969.pdf.

South Gate Daily Press-Tribune. 1951. "Business Aids Names By Board." January 6. Accessed October 2022. www.newspapers.com.

UCSB (University of California, Santa Barbara). 1956. "Flight C-22555, Frame 7-34, Scale 1-144,000, June 30, 1956." Aerial photograph by Fairchild Aerial Surveys. Accessed April 2022. https://mil.library.ucsb.edu/ap_indexes/FrameFinder/.

US Census (United States Federal Census). 1940. "Paul Butler (Dutter)." Accessed November 2022. https://www.ancestry.com/.

———. 1950. "Paul C Butler." Accessed November 2022. https://www.ancestry.com/.

US Death Index. 1977. "California, U.S. Death Index, 1940-1997: Paul C Butler." Accessed November 2022. https://www.ancestry.com/.

USGS (United State Geological Survey). 1900. *Pasadena, California.* 1:62,500. Electronic resource map. Accessed October 2022. https://ngmdb.usgs.gov/topoview/viewer/#.

———. 1953, ed. 1955. *Pasadena, California.* 1:24,000. Electronic resource map. Accessed October 2022. https://ngmdb.usgs.gov/topoview/viewer/#.

Attachment 6

NHMLAC Search Results

From: PaleoRecords@nhm.org
To: PaleoRecords@nhm.org
Cc: Kim, Monte; Fike, Aisha
Subject: EXTERNAL: Re: Paradise Canyon Elementary School Modernization Project
Date: Sunday, October 9, 2022 9:42:25 AM
Attachments: MBI CanyonElementary 100922f.pdf
MBI CanyonElementary 100922f invoice.pdf

Hello,

Please find the results of your paleo records search and an invoice

for this service attached.

Thank you,
Alyssa Bell, Ph.D.

On Wednesday, September 28, 2022 at 5:34:14 PM UTC-7 Kim, Monte wrote:

> Good afternoon,
>
> I would like to request a paleontological records search for the Paradise Canyon Elementary School Modernization Project. I have attached a map showing the records search area. The location of the project is 471 Knight Way, La Canada Flintridge, CA 91011. Our billing address is as follows:
>
> Michael Baker International
>
> 3100 Zinfandel Drive, Suite 125
>
> Rancho Cordova, CA 95670
>
> Should you need any additional information, please feel free to contact me.
>
> Thank you very much,
>
> **Monte Kim, PhD** | Technical Manager - Cultural Resources I Pronouns: he/him
>
> 3100 Zinfandel Drive, Suite 125 | Rancho Cordova, CA 95670 | [O] 916-517-4416 | [M] 916-201-9451
> monte.kim@mbakerintl.com | www.mbakerintl.com

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Research & Collections

e-mail: paleorecords@nhm.org

October 9, 2022

Michael Baker International

Attn: Monte Kim

re: Paleontological resources for the Canyon Elementary School Modernization Project

Dear Monte:

I have conducted a thorough search of our paleontology collection records for the locality and specimen data for proposed development at the Canyon Elementary School Modernization Project area as outlined on the portion of the Pasadena USGS topographic quadrangle map that you sent to me via e-mail on September 28, 2022. We do not have any fossil localities that lie directly within the proposed project area, but we do have fossil localities from the same sedimentary deposits that occur in the proposed project area, either at the surface or at depth.

The following table shows the closest known localities in the collection of the Natural History Museum of Los Angeles County (NHMLA).

Locality Number	Location	Formation	Taxa	Depth
LACM VP 2027	1600 block, Bridgen Rd., Pasadena	Unknown Formation (Pleistocene)	Mammoth (*Mammuthus*)	Unknown
LACM VP CIT342	Sparkletts property near 45th & Lincoln in Highland Park	Unrecorded (Pleistocene)	Mammoth (*Mammuthus*), Bison (*Bison*)	14 feet bgs
LACM VP 6970	Lankershim Blvd & Bloomfield St	Old alluvium (pebble - gravel; sand; silt & clay)	Ground Sloth (*Glossotherium*); Camel (*Camelops*); Bison (*Bison*)	60-80 feet bgs (tunnel for Metrorail Redline)
LACM VP 1146	11670 Wicks St, Sun Valley	Unknown formation (Pleistocene)	Horse (*Equus*)	160-170 feet bgs

VP, Vertebrate Paleontology; IP, Invertebrate Paleontology; bgs, below ground surface

Additionally, a number of invertebrate, vertebrate, and plant fossils were recovered from mitigation work during housing development construction on the southern side of UC Irvine campus by SWCA Environmental Consultants; however, that material is not yet catalogued into our collection.

This records search covers only the records of the NHMLA. It is not intended as a paleontological assessment of the project area for the purposes of CEQA or NEPA. Potentially fossil-bearing units are present in the project area, either at the surface or in the subsurface. As such, NHMLA recommends that a full paleontological assessment of the project area be conducted by a paleontologist meeting Bureau of Land Management or Society of Vertebrate Paleontology standards.

Sincerely,



Alyssa Bell, Ph.D.
Natural History Museum of Los Angeles County

enclosure: invoice

Michael Baker
INTERNATIONAL

Appendix D
Energy Calculations

Appendix D - Energy Calculations

Construction-Related Petroleum Fuels

The off-road construction equipment fuel usage was calculated through use of the off-road equipment assumptions utilized in the CalEEMod model run provided in Appendix A and the fuel usage calculations provided in the 2017 Off-road Diesel Emission Factors spreadsheet, prepared by CARB (https://ww3.arb.ca.gov/msei/ordiesel.htm). The Spreadsheet provides the following formula to calculate fuel usage from off-road equipment:

Fuel Used = Load Factor x Horsepower x Total Operational Hours x BSFC / Unit Conversion

Where:

Load Factor - Obtained from CalEEMod default values

Horsepower – Obtained from CalEEMod default values

Total Operational Hours – Calculated by multiplying CalEEMod default daily hours by the estimated number of working days for each phase of construction

BSFC – Brake Specific Fuel Consumption (pounds per horsepower-hour) – If less than 100 Horsepower = 0.408, if greater than 100 Horsepower = 0.367

Unit Conversion – Converts pounds to gallons = 7.109

The Following Table shows the off-road construction equipment fuel calculations based on the above formula, which shows that the off-road equipment utilized during construction of the proposed project would consume 132,898 gallons of diesel fuel.

Off-Road Equipment and Fuel Consumption from Construction of the Proposed Project

Equipment Type	Equipment Quantity	Horse-power	Load Factor	Operating Hours per Day	Total Operational Hours[1]	Fuel Used (gallons)
Stage 1. Mobilization and Site Utilities and Interim Housing						
Cranes	1	450	0.29	8	520	3,503
Excavator	1	158	0.38	8	520	1,612
Graders	1	187	0.41	8	520	2,058
Rollers	1	80	0.38	8	520	907
Plate Compactor	2	8	0.43	8	1,040	205
Tractors/Loaders/Backhoes	3	97	0.37	8	1,560	3,213
Stages 2 & 3. Demolition						
Concrete/Industrial Saws	1	81	0.73	8	352	1,195
Excavator	1	158	0.38	8	352	1,091
Tractors/Loaders/Backhoes	3	97	0.37	8	1,056	2,175
Stages 2, 3, 4, & 5. Building Construction						
Cement and Mortar Mixer	1	9	0.56	8	4,528	1,310
Cranes	1	450	0.29	8	4,528	30,505
Excavator	1	158	0.38	8	4,528	14,035
Grader	1	187	0.41	8	4,528	17,922
Rollers	1	80	0.38	8	4,528	7,900
Plate Compactor	2	8	0.43	8	9,056	1,788
Tractors/Loaders/Backhoes	3	97	0.37	8	13,584	27,980
Stages 2, 3, 4, & 5. Architectural Coatings						
Air Compressor	1	78	0.48	6	132	284
Stage 6. Removal of Interim Housing & Restore Playfields						
Cranes	1	450	0.29	8	688	4,635
Excavator	1	158	0.38	8	688	2,132
Grader	1	187	0.41	8	688	2,723
Rollers	1	80	0.38	8	688	1,200
Plate Compactor	2	8	0.43	8	1,376	272
Tractors/Loaders/Backhoes	3	97	0.37	8	2,064	4,251
Total Off-Road Equipment Diesel Fuel Used during Construction (gallons)						**132,898**

Notes:
[1] Based on: 65 days for Stage 44 days for Stages 2 & 3 Demolition; 566 days for Stages 2, 3, 4, & 5 Building Construction; 22 days for Stages 2, 3, 4, & 5 Architectural Coating, and 86 days for Stage 6.
Source: CalEEMod Version 2020.4.0 (see Appendix A); CARB, 2017.

The on-road construction-related vehicle trips fuel usage was calculated through use of the default construction vehicle trip assumptions from the CalEEMod model run. The fleet average miles per gallon rates have been calculated through use of the EMFAC2017 model (https://www.arb.ca.gov/emfac/2017/) and the EMFAC2017 model printouts are attached. The worker trips were based on the entire fleet average miles per gallon rate for gasoline powered vehicles and the vendor trips were based on the Heavy-Heavy Duty Truck (HHDT), Medium Duty Vehicle (MDV), and Medium Heavy-Duty Vehicle (MHDV) fleet average miles per gallon rate for diesel-powered vehicles. The following Table shows the on-road construction vehicle trips modeled in CalEEMod and the fuel usage calculations, which shows that the on-road construction-

related vehicle trips would consume 15,499 gallons of gasoline and 33,904 gallons of diesel fuel for the proposed Project.

On-Road Vehicle Trips and Fuel Consumption from Construction of the Proposed Project

Vehicle Trip Types/ Fuel Type	Daily Trips	Trip Length (miles)	Total Miles per Day	Total Miles per Phase[1]	Fleet Average Miles per Gallon[2]	Fuel Used (gallons)
Stage 1. Mobilization and Site Utilities and Interim Housing						
Worker (Gasoline)	23	14.7	338	21,977	26.8	821
Haul Truck (Diesel)	9.4	6.9	188	12,240	8.7	1,407
Stages 2 & 3. Demolition						
Worker (Gasoline)	13	14.7	191	8,408	26.8	314
Haul Truck (Diesel)	2.1	20	41	1,820	8.7	209
Stages 2, 3, 4, & 5. Building Construction						
Worker (Gasoline)	45	14.7	662	374,409	26.8	13,989
Vendor Truck (Diesel)	17	6.9	117	66,392	8.7	7,632
Stages 2, 3, 4, & 5. Architectural Coatings						
Worker (Gasoline)	9	14.7	132	2,911	26.8	109
Stage 6. Removal of Interim Housing & Restore Playfields						
Worker (Gasoline)	23	14.7	338	29,077	26.8	1,086
Total Gasoline Fuel Used from On-Road Construction Vehicles (gallons)						**15,499**
Total Diesel Fuel Used from On-Road Construction Vehicles (gallons)						**33,904**

Notes:
[1] Based on: 65 days for Stage 44 days for Stages 2 & 3 Demolition; 566 days for Stages 2, 3, 4, & 5 Building Construction; 22 days for Stages 2, 3, 4, & 5 Architectural Coating, and 86 days for Stage 6.
[2] From EMFAC 2017 model (see Appendix B). Worker Trips based on entire fleet of gasoline vehicles and Vendor Trips based on only truck fleet of diesel vehicles.
Source: CalEEMod Version 2020.4.0; CARB, 2018.

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: Air Basin
Region: SOUTH COAST
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

Region	Calendar	Vehicle Cat	Model Yea	Speed	Fuel	Population	VMT	Trips	Fuel Consumption
SOUTH CO	2023	HHDT	Aggregatec	Aggregatec	GAS	74.3669777	8047.234514	1487.934489	1.889822802
SOUTH CO	2023	LDA	Aggregatec	Aggregatec	GAS	6459700.68	246807537.8	30522037.63	7786.050943
SOUTH CO	2023	LDT1	Aggregatec	Aggregatec	GAS	737358.378	27059295.05	3407418.814	995.7584858
SOUTH CO	2023	LDT2	Aggregatec	Aggregatec	GAS	2219228.89	82875046.15	10414097.54	3244.205846
SOUTH CO	2023	LHDT1	Aggregatec	Aggregatec	GAS	170372.497	6057759.011	2538296.343	568.7653525
SOUTH CO	2023	LHDT2	Aggregatec	Aggregatec	GAS	29153.3654	1003759.333	434341.7064	108.2867448
SOUTH CO	2023	MCY	Aggregatec	Aggregatec	GAS	297600.181	2024753.658	595200.3612	55.80486473
SOUTH CO	2023	MDV	Aggregatec	Aggregatec	GAS	1540538.65	53902320.53	7127894.33	2607.445148
SOUTH CO	2023	MH	Aggregatec	Aggregatec	GAS	33691.8688	321144.1737	3370.534556	61.56644375
SOUTH CO	2023	MHDT	Aggregatec	Aggregatec	GAS	24928.0214	1310043.213	498759.8512	254.9794108
SOUTH CO	2023	OBUS	Aggregatec	Aggregatec	GAS	5826.41539	235991.1907	116574.9191	46.21415569
SOUTH CO	2023	SBUS	Aggregatec	Aggregatec	GAS	2711.8548	107297.3058	10847.4192	11.679437
SOUTH CO	2023	UBUS	Aggregatec	Aggregatec	GAS	957.768618	89782.63172	3831.074474	17.62416327

vehicle miles per day (All Categories)	421802777	15,760	1,000 gall per day
		15,760,271	gallons per day

Fleet Avg Miles per gallon	26.8

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: Air Basin
Region: SOUTH COAST
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

Region	Calendar	Vehicle Cat	Model Year	Speed	Fuel	Population	VMT	Trips	Fuel Consumption
SOUTH COA	2023	HHDT	Aggregated	Aggregated	DSL	99862	12043323.35	1008086.77	1696.5298
SOUTH COA	2023	LDA	Aggregated	Aggregated	DSL	60890.57	2412432.063	289413.542	48.3249825
SOUTH COA	2023	LDT1	Aggregated	Aggregated	DSL	352.3732	8196.099133	1229.48749	0.358439
SOUTH COA	2023	LDT2	Aggregated	Aggregated	DSL	15172.54	633608.0513	74551.8094	17.3119865
SOUTH COA	2023	LHDT1	Aggregated	Aggregated	DSL	121835.8	4855937.278	1532540.88	221.792264
SOUTH COA	2023	LHDT2	Aggregated	Aggregated	DSL	48525.63	1881224.048	610391.371	95.1543278
SOUTH COA	2023	MDV	Aggregated	Aggregated	DSL	35106.87	1383747.201	171565.713	49.2471397
SOUTH COA	2023	MH	Aggregated	Aggregated	DSL	12560.08	119509.0599	1256.00815	11.1947989
SOUTH COA	2023	MHDT	Aggregated	Aggregated	DSL	118681	7894095.002	1192353.19	705.116962
SOUTH COA	2023	OBUS	Aggregated	Aggregated	DSL	4158.731	323908.7018	40367.2482	37.1661721
SOUTH COA	2023	SBUS	Aggregated	Aggregated	DSL	6393.274	202053.5043	73777.4955	26.2961631
SOUTH COA	2023	UBUS	Aggregated	Aggregated	DSL	13.00046	1416.621572	52.0018438	0.23950051

Diesel Truck (HHDT, MDV, MHDT) vehicle miles per day	21,321,166	2,451	1,000 gall per day
		2,450,894	gallons per day
Diesel Truck Fleet Avg Miles per gallon	8.7		

Michael Baker
INTERNATIONAL

Appendix E Geotechnical Investigation Report

ALLAN E. SEWARD
ENGINEERING GEOLOGY, INC.
Geological And Geotechnical Consultants

GEOTECHNICAL REPORT
Review of Site Plan

New Building Addition and Site Improvements
Paradise Canyon Elementary School
471 Knight Way
La Cañada, Los Angeles County, California

Prepared for:

La Cañada Unified School District
4490 Cornishon Avenue
La Cañada, CA 91011

Job No.: 23-2775-6
Dated: January 13, 2023

27825 Smyth Drive, Valencia, California 91355 661-294-0065 FAX 661-294-0833

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ALLAN E. SEWARD
ENGINEERING GEOLOGY, INC.
Geological And Geotechnical Consultants

January 13, 2023 Job No.: 23-2775-6

La Cañada Unified School District
4490 Cornishon Avenue
La Cañada, California 91011

Attention: Mr. Harold Pierre
Program Manager
Linik Corp. Builders Management

Subject: **GEOTECHNICAL REPORT**
Review of Site Plan

Project: New Construction and Various Site Improvements
Buildings "N" and "P"
Paradise Canyon Elementary School
471 Knight Way
La Cañada, Los Angeles County, California 91011

References: At end of text

Dear Mr. Pierre

This report presents our opinions regarding the existing geologic and geotechnical conditions at the above-referenced site, their potential effects on the proposed development, and our geotechnical recommendations for design and construction.

1.0 SCOPE OF WORK

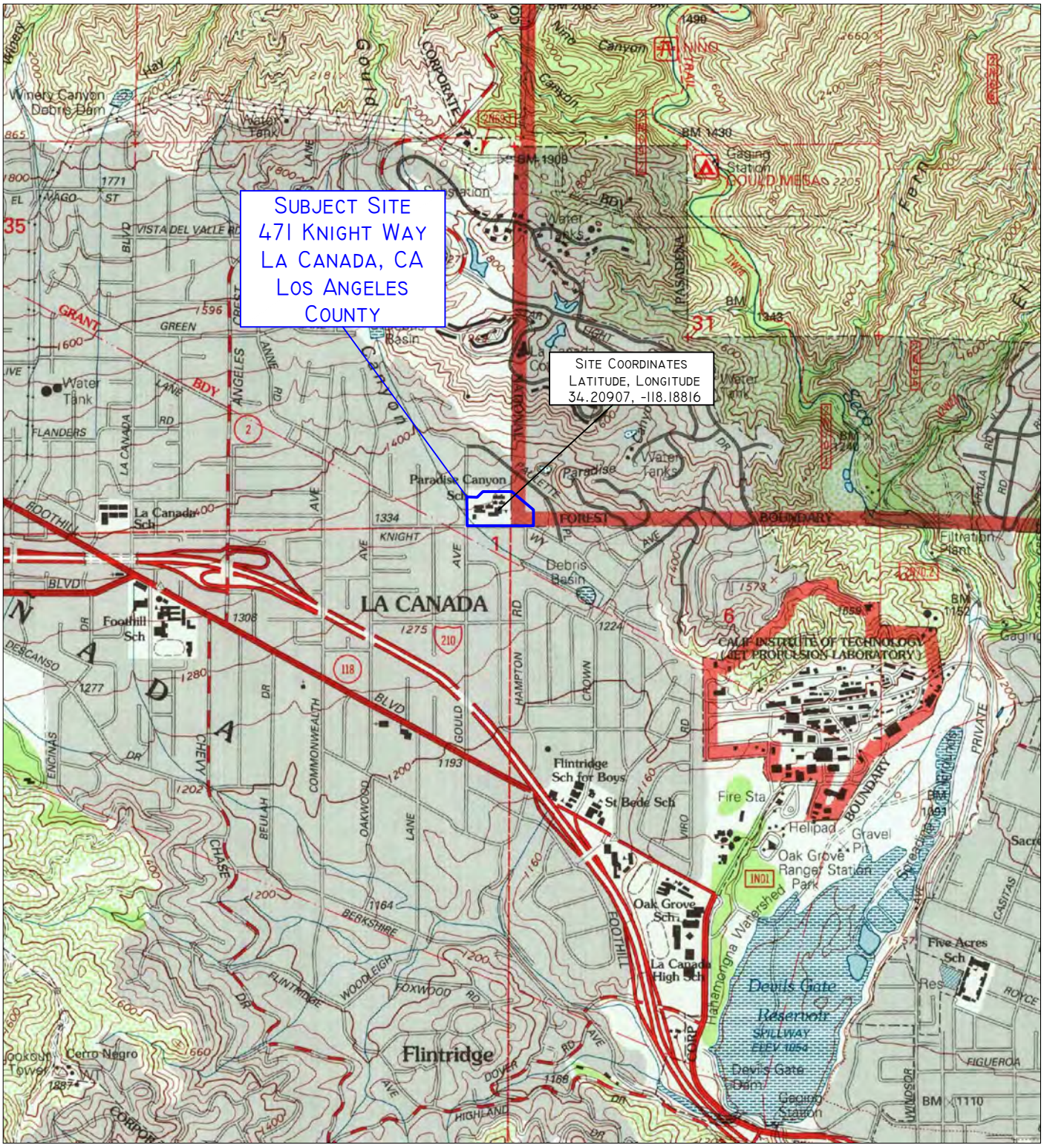
Our investigation included the following tasks:

1. Review of the Site Plan (Sheet 1.01) prepared by GG Architects at a scale of 1/64" = 1', dated April 29, 2022. This plan was used as the base for our Geotechnical Map (**Plate I**). We make no representation regarding the accuracy of this base map.
2. Review of the Rough Grading Plan (Sheet 3C1.30) prepared by GG Architects/KPFF at a scale of 1" = 20', dated January 6, 2023. This plan was used as the base for our Geotechnical Map (**Plate II**). We make no representation regarding the accuracy of this base map.
3. Review of the published geologic reports and maps referenced at the end of this report.

4. Review of the Seismic Hazards Map and Report for the Pasadena Quadrangle.
5. Evaluation of ground water conditions and historic ground water levels based on Los Angeles County Flood Control District (LACFCD) water well data and published maps.
6. Review of the following aerial photographs:

Date	Flight	Frame	Scale	Agency
1/1/28	C-300	K246	1:18,000±	Fairchild
11/8/35	C-3758	1 & 2	1:7,800	Fairchild
1938	AXJ-1938	59-72	1:20,000	USDA
11/22/44	DDF-1944	7-30 & 7-31	1:10,000	Fairchild
1/5/60	C-23870	1945 & 1946	1:14,000	Fairchild
1994 – 2021	- Various Images	-	-	Google Earth Web Application

7. Coordination with subcontractor GPRS to detect utilities within close proximity to proposed subsurface exploration locations.
8. Coordination with Underground Service Alert to obtain clearance from potentially impacted utilities prior to the subsurface exploration.
9. Excavation, sampling and logging of 5 hollow-stem-auger borings drilled to a maximum depth of 36.5 feet and 2 percolation borings drilled to a maximum depth of 11 feet.
10. Laboratory testing of samples obtained during our subsurface investigation for geotechnical evaluation of moisture content and dry density, grain-size characteristics, direct shear, compaction, compressibility, corrosion potential, and expansion potential.
11. Performed general earthquake ground motion characterization utilizing the latest seismic ground-motion provisions of the 2019 California Building Code (CBC).
12. Assessment of potential ground rupture hazard at the site.
13. Evaluation of feasibility of on-site stormwater infiltration.
14. Evaluation of geotechnical parameters for design of shallow footing foundations, slab-on-grade floors, and retaining walls, including allowable bearing pressure, equivalent fluid densities for calculation of active, passive, and at-rest pressures, soil to concrete friction factors, and coefficient of vertical subgrade reaction.
15. Assessment of recommended grading removal depths based on subsurface conditions and estimated static settlements under assumed future building loads.
16. Preparation of Cross Section 1-1’ at a scale of 1” = 20’ illustrating anticipated geotechnical conditions with respect to proposed Building “P”.



Source: USGS Pasadena 7.5-Minute Quadrangle, Dated 1995

Approximate Scale: 1"=2,000'

NOTE: THIS IS NOT A SURVEY OF THE PROPERTY

N

ALLAN E. SEWARD
ENGINEERING GEOLOGY, INC.
Geological And Geotechnical Consultants

LOCATION MAP

Job No.: 23-2775-6 | Date: 1/13/23

17. Preparation of Cross Sections A-A' through D-D' at a scale of 1" = 5' illustrating recommended removals with respect to the proposed buildings and property line constraints.
18. Preparation of the enclosed Geotechnical Maps (**Plates I & II**) illustrating our geotechnical data and recommended mitigation measures in relation to the proposed improvements.
19. Preparation of a Location Map, Geologic Map, drill hole logs, laboratory test reports, seismicity figures, infiltration test reports and cross sections for inclusion in this report.
20. Preparation of this Geotechnical report, which summarizes the results of our investigation and provides geotechnical recommendations for design and construction of the proposed improvements.

2.0 SITE DESCRIPTION

The project site is located at 471 Knight Way within the City of La Cañada, Los Angeles County, at the northeast corner of the intersection with Gould Avenue (see **Location Map** following page 2). The site is within a residential community and is bounded by Knight Way to the south, Gould Avenue to the west, and single-family homes to the north and east. The elementary school campus is occupied by several single-story administrative and classroom buildings on level pad areas with small retaining walls to accommodate grade changes in between some buildings. Blacktop and field areas occupy the east side and northwest corner of the campus. The site generally ascends from south to north, with topography ranging from a low of 1290 ft above mean sea level at the southeast corner of the campus to 1334 ft at the northwest corner.

3.0 PROPOSED DEVELOPMENT

The proposed development includes construction of three (3) new 1- and 2-story modular buildings identified as "N", "P", and "Q" on the Site Plan. This report addresses Buildings "N" and "P". Building "Q" will be addressed in a separate report. The new building locations are occupied by existing buildings, with the exception of the eastern half of Building "P" which is currently a small slope that ascends 5 ft (±) to the upper playground area. Building "N" is located at the west edge of the campus, directly adjacent and parallel to Gould Avenue. This building includes a 2-story northern section and a 1-story southern section. Building "P" is located directly adjacent and perpendicular to the north end of Building "N". This building is entirely 2 stories and connects to Building "N" at the west end at the second floor and roof line with a first-floor breezeway. Preliminary information provided indicates that buildings "N" and "P" have a combined footprint area of 14,900 ft^2. The buildings are planned to be

supported on shallow footing foundations. In addition, it is our understanding that Low Impact Development improvements for storm water infiltration are being considered.

Proposed foundation outline and finish floor grades for the buildings are shown on the Rough Grading Plan. Changes in finish floor elevations for existing buildings relative to the proposed buildings are minor (i.e., ~ 3 ft or less). Minor cuts up to 4 ft are anticipated along the west and south side of Buildings "N" and "P", respectively. The Rough Grading Plan illustrates slopes along the west and north side of Buildings "N" and "P", respectively. The slope gradients vary from 4.7 to 26.3% with a maximum height of approximately 7 ft. The proposed new buildings are shown relative to existing improvements and subsurface conditions on the appended Geotechnical Maps and Cross Section 1-1'.

Based on coordination with the design team small retaining walls (less than 6 feet) are anticipated behind the 2-story section of Building "N" (north and west side), and behind (north side) Building "P". Minor modifications to grade will be required to accommodate the proposed improvements. The proposed new buildings foundations, retaining walls and anticipated finish grades are shown relative to existing improvements on Cross Sections A-A' through D-D'.

4.0 FIELD INVESTIGATION, SAMPLING, AND LABORATORY TESTING

4.1 Subsurface Exploration

Subsurface exploration performed to address the proposed improvements included the drilling, sampling, and logging of five (5) hollow-stem auger borings (HS-1 thru HS-5) to a maximum depth of 36.5 feet. The borings were drilled by Choice Drilling Inc. on 6/25/22 and logged by a staff geologist with oversight by the undersigned Geotechnical Engineer.

The drill hole logs are included in **Appendix A** and represent our interpretation of field data prepared for each boring by our geologic/engineering staff at the time of exploration, along with refinements based on observations and laboratory test results. Unit boundaries shown in the graphic log column of our hollow-stem-auger drill hole logs are approximate and may represent gradual transitions. The subsurface locations are shown on the attached Geotechnical Map (**Plate I**).

4.2 Field Infiltration Testing

Two percolation borings (PB-1 and PB-2) were excavated to a maximum depth of 11 feet in the vicinity of Borings HS-3 and HS-4, respectively, to evaluate the use of Low Impact Development (LID) stormwater quality control measures with an infiltration component. Field infiltration testing was conducted using the "Boring Percolation" test procedure outlined in Administrative Manual GS200.1 (dated 6/30/21), *Guidelines for Investigation*

and Reporting, Low Impact Development Stormwater Infiltration, prepared by the County of Los Angeles Department of Public Works, Geotechnical and Materials Engineering Division (referred to herein as GMED LID Guidelines). The infiltration testing was performed as described below within Borings PB-1 and PB-2:

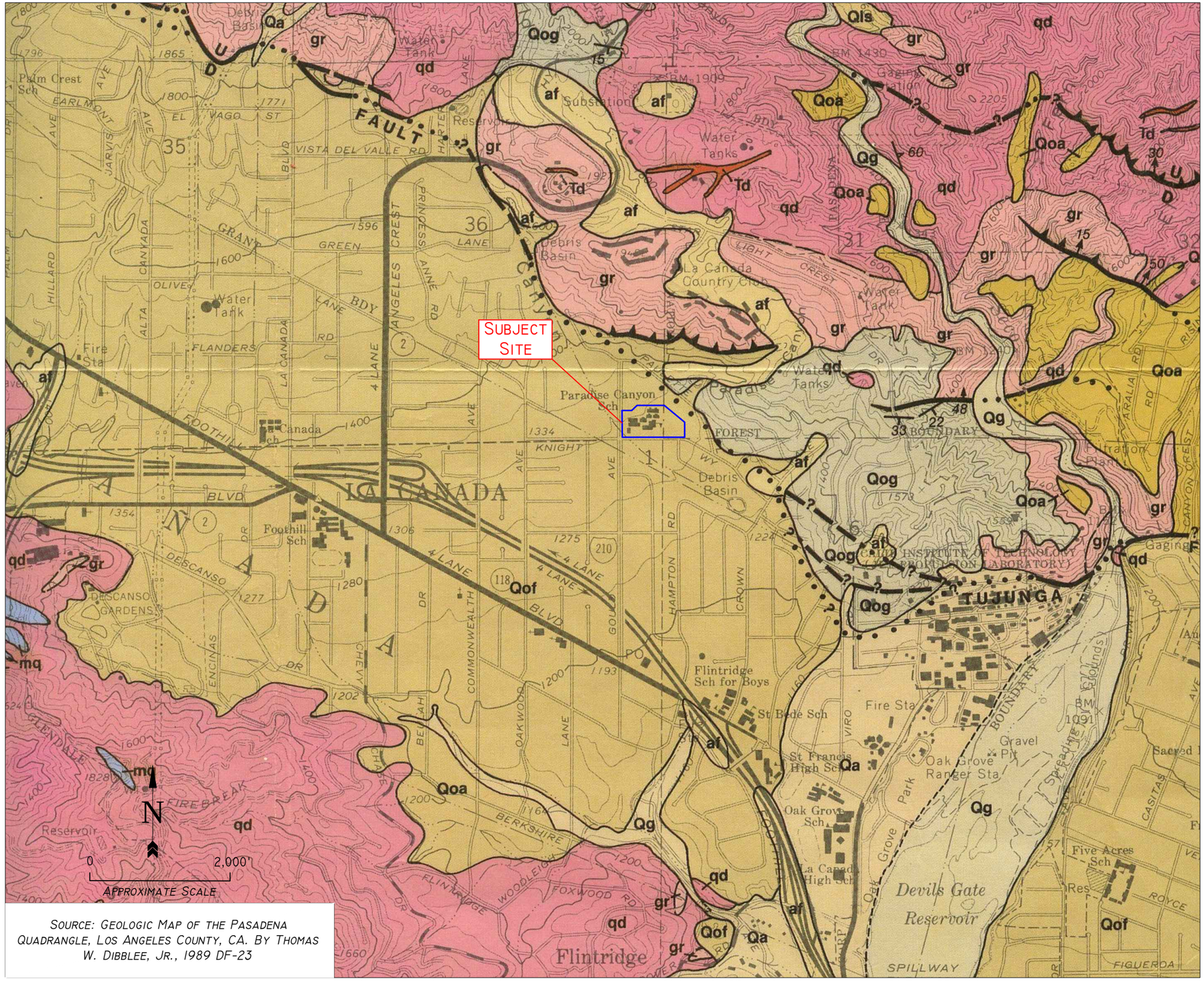
- An 8-inch diameter borehole was drilled to a depth of about 11 ft for PB-1 and 10.5 ft for PB-2 below existing grade using a hollow-stem-auger drill rig.
- A 2-inch diameter Schedule 40 PVC pipe with end cap was installed into the borehole through the auger. The pipe consisted of slotted well screen in the lower 5 feet and solid pipe above. The pipe was utilized as both a water delivery pipe and to monitor the water level during the test.
- As the auger was slowly withdrawn from the borehole, the annular space was backfilled with filter pack material to at least 2 feet above the top of the slotted well screen section.
- Clear water was introduced into the borehole using flexible tubing connected to a 13,000 mL graduated cylinder that extended to the bottom of the pipe. The borehole was filled to a water level 2 feet above the bottom of the borehole in PB-1 and PB-2. A ball valve on the flexible tubing was used to maintain a constant head at this depth during the test period.
- After the initial filling and 1-hour pre-soak period, a ball valve on the flexible tubing was used to maintain a constant head elevation of 12 inches in PB-1 and PB-2 above the borehole bottom during the test period. The volume of water required to maintain the constant head was recorded using the graduated cylinders at various intervals until the flow rate stabilized.

Results of field infiltration testing are discussed in **Section 5.4** of this report.

4.3 Sampling Procedures

California drive (relatively undisturbed) ring and Standard Penetration Test (SPT) samples were obtained in the exploratory drill holes at various depths (see logs in **Appendix A**). Recovered soil samples were sealed in plastic containers and brought to our laboratory for further classification and testing.

Bulk (disturbed) samples of the near surface soils were obtained from cuttings developed during excavation of the exploratory drill holes. The bulk samples were collected for classification and testing purposes and represent a mixture of soils within the noted depths.



SOURCE: GEOLOGIC MAP OF THE PASADENA QUADRANGLE, LOS ANGELES COUNTY, CA. BY THOMAS W. DIBBLEE, JR., 1989 DF-23

LEGEND

SURFICIAL SEDIMENTS
af *artificial fill*
Qg *stream channel deposits of gravel, sand and silt*
Qa *alluvium: unconsolidated floodplain deposits of silt, sand and gravel*

LANDSLIDE AND TALUS DEBRIS
Qls

OLDER DISSECTED SURFICIAL SEDIMENTS
Qoa *remnants of older weakly consolidated alluvial deposits of gravel, sand and silt*
Qof *alluvial fan gravel and sand derived from San Gabriel Mountains; includes some* **Qg** *and* **Qa** *in northern areas*
Qog *elevated remnants of alluvial gravel and fanglomerate deposits, weakly indurated; in San Gabriel Mountain foothills partly weathered reddish; in that area may locally include Pacoima and Saugus Formations of Smith (1986)*

—UNCONFORMITY—

DIKE ROCKS
Td *thin dikes of black to brown, fine-grained basaltic to andesitic intrusive rocks*
Tl *thin dikes of light gray latite porphyry*

CRYSTALLINE BASEMENT ROCKS

LEUCOCRATIC GRANITIC ROCKS
late Mesozoic (Cretaceous?) age
gr *gray-white, medium- to fine-grained massive granitic rock mostly of quartz monzonite and granodiorite composition; composed essentially of quartz, plagioclase feldspar (oligoclase), K-feldspar (mostly microcline) and minor biotite; in part cataclastic northeast of San Gabriel fault; intrusive into quartz diorite and gneissic rocks.*

QUARTZ DIORITE
(Wilson Diorite of Miller, 1934)
Crook, et al., 1987, include units mapped as hornblende diorite, hornblende biotite diorite, and biotite hornblende diorite by Smith, 1986)
*early Cretaceous age (122 m.y. B.P.)**
qd *massive, non-gneissoid quartz diorite*
gqd *massive to gneissoid quartz diorite, locally includes unmapped biotite-rich gneiss*

SILICEOUS METAMORPHIC ROCKS
(Smith, 1986)
Precambrian(?) or Paleozoic age
msi *gray, banded fine-grained siliceous rock; probably metaquartzite or metachert*
mq *light gray quartzite, quartz or quartzo-feldspathic rock, and brown schist*

SYMBOLS
(not all symbols present on each map)

FORMATION CONTACT — *dashed where inferred or indefinite*
MEMBER CONTACT — *between units of a formation*

CONTACT BETWEEN SURFICIAL SEDIMENTS — *located only approximately in places*

FAULT — *Dashed where indefinite or inferred, dotted where concealed, queried where existence is doubtful. Parallel arrows indicate inferred relative lateral movement. Relative vertical movement is shown by U/D (and U=upthrown side, D=downthrown side). Short arrow indicates dip of fault plane. Sawteeth are on upper plate of low angle thrust fault.*

ANTICLINE — *arrow on axis indicates direction of plunge, dotted where concealed by surficial sediments*
SYNCLINE

horizontal · inclined · inclined (approx.) · vertical · overturned · inclined and vertical metamorphic or igneous rock foliation

STRIKE AND DIP OF STRATIFIED ROCKS

DIRECTION OF LANDSLIDE MOVEMENT · SANDSTONE MARKER BED · CONGLOMERATE MARKER BED · MICROFOSSIL LOCALITY (of Lagoe, 1989) Luisian (*) Stage · TAR SEEP · SPRING · ABANDONED EXPLORATORY OIL (OR GAS) WELL

ALLAN E. SEWARD
ENGINEERING GEOLOGY, INC.
Geological And Geotechnical Consultants

REGIONAL GEOLOGIC MAP

JOB NO.: 23-2775-6 | DATE: 1/13/2023

4.4 Laboratory Testing

Soil samples were visually classified at the site in accordance with the Unified Soil Classification System (ASTM D2487). Thereafter, the samples were brought to our geotechnical laboratory, the visual soil classifications were checked, and the subsurface logs were reviewed in order to select soil samples for testing.

The laboratory testing program performed on samples of on-site soils included the following tests: moisture content, dry density, percent minus no. 200 sieve (i.e., percent fines), direct shear, modified Proctor compaction, hydro-compression, particle-size analysis, and corrosivity (sulfate content, chloride content, pH, and resistivity).

Based on laboratory test results the soil samples classifications were further refined per the Unified Soils Classification System (ASTM Standard Practice D2487). In-situ moisture content and dry density were used to evaluate the in-situ soil strength and selection of samples for additional testing. Amount of Material in Soils Finer than No. 200 Sieve was performed for classification purposes. Hydro-compression testing was performed for evaluation of settlement of soil from future fill and foundation loads. Direct shear testing was performed to develop appropriate soil strength parameters. Modified Proctor compaction was performed to assess the moisture-density relationship of compacted soil. Laboratory test methods and results of the testing are provided in **Appendix B** of this report.

5.0 GEOTECHNICAL CONDITIONS

5.1 Geologic Setting

The project site is located within the eastern Transverse Ranges geomorphic province of southern California in the westernmost portion of the San Gabriel Valley (see **Regional Geologic Map** following page 5). The Transverse Ranges are characterized by east-west trending ranges separated by alluviated, broadly synclinal valleys, narrow stream canyons, and prominent faults.

The San Gabriel Valley is a sediment filled, east-trending structural trough situated between the south flank of the pre-Tertiary, crystalline igneous bedrock of the San Gabriel Mountains to the north and Verdugo Hills and San Rafael Hills to the south. The subject site is underlain by sub-horizontal sedimentary deposits of Pleistocene and Holocene age (less than 30,000 years old). These sediments have been classified as older alluvial fan deposits (Qof) consisting of fan gravel and sand derived from the San Gabriel Mountains (Dibblee, 1989).

The Sierra Madre fault zone, which is an extension of the south branch of the San Gabriel fault, is trending northwest approximately 190 feet northeast of Building “Q”. The Sierra Madre fault zone consists of steep, north-dipping thrust and reverse faults along the range

front of the San Gabriel Mountains.

5.2 Subsurface Soils

Details of the soil units observed at the site are discussed below and presented on our subsurface logs (**Appendix A**).

5.2.1 Artificial Fill (af)

Artificial fill (af) generated from past development activities was encountered in the borings up to depths of 5 to 9 feet. The artificial fill consists of a dull brown to orangish-brown, silty, fine- to coarse-grained sand and light-brown, poorly graded sand with silt. The fill materials contained some scattered gravel and occasional small cobbles. The fill is characterized as medium dense, slightly moist and friable. The measured dry density in the artificial fill ranged from about 113 pounds per cubic foot (pcf) to 123 pcf, with moisture contents ranging from 2 to 4 percent.

5.2.2 Older Alluvial Fan Deposits (Qof)

The artificial fill is underlain by older alluvial fan deposits (Qof). At the project site these deposits were observed to generally consist of alternating layers of light-brown to dark-brown to orangish-brown, silty, fine- to coarse-grained sands, graded sands with varied silt and gravel content, and silty, clayey, fine- to medium grained sands. Isolated hard cobble- and boulder-sized clasts are known to exist in the older fan deposits. The exploratory borings encountered clasts consist of weathered intrusive igneous rock of quartz monzonite and quartz diorite composition. The deposit contained gravel greater than 2.4 inches in diameter (the approximate inner-diameter of the California-drive sampler), indicating clasts of cobbles and possibly boulders (over 12 inches) could be present. The fan deposits are characterized as medium dense to very dense, and dry to damp with depth. The measured dry density in the fan deposits ranged from about 112 pounds per cubic foot (pcf) to 131 pcf, with moisture contents ranging from 2.5 to 14 percent.

5.3 Ground Water

Based on the historically highest ground water contours included in the Seismic Hazard Zone Report for the Pasadena 7.5-Minute Quadrangle (Plate 1.2), the depth to historic high groundwater beneath the school campus is greater than 50 feet.

Review of Los Angeles County water well data indicates that no historic or active wells are located at the project site. The closest known active well (#4000A) is located approximately 0.9 miles southwest of the site at the vicinity of Beulah Drive and Descanso Drive. The well record indicates that the last reading was conducted on 10/17/2007 with a measured ground

water depth of 78.5 feet and the highest measured ground water depth was 62.3 feet (elev. 1122.7') recorded on 4/6/1973.

Ground water was not encountered in our subsurface explorations. However, seasonal fluctuations in ground water levels or development of perched water conditions will occur in the alluvium due to precipitation, storm water, irrigation, and other factors not evident at the time of our study. Ground water is not anticipated to be encountered during construction or have an adverse impact to design.

5.4 Infiltration Characteristics

5.4.1 Introduction

Infiltration testing was performed in Borings PB-1 and PB-2 to evaluate feasibility of low impact development stormwater quality control measures with an infiltration component. Field results of the infiltration test as elapsed time (minutes) versus the raw, incremental infiltration rate (inches/minute) are graphically illustrated on the attached Boring Percolation Test Reports, **Figures A1** and **A2**. The measured raw infiltration rate at a stabilized flow rate was about 20.5 inches/hour at Boring PB-1 and 57.3 inches/hour at Boring PB-2. The infiltration surface area used to calculate the infiltration rate is equal to the sum of the wetted bottom surface area and wetted sidewall surface area. The water height in the borehole was maintained at 1 ft in PB-1 and 1 ft in PB-2 over the duration of the test.

5.4.2 Reduction Factors

In accordance with County of Los Angeles GMED infiltration design requirements, the measured infiltration rate should be corrected using the following reduction factors to determine a design value that will represent the long-term performance of the storm water infiltration device.

Reduction Factors

REDUCTION FACTOR	DEFINITION	VALUE
RF_T	Test-specific reduction factor to account for direction of flow during the test and reliability of the test.	2
RF_T	Reduction to account for high-flow rate test results.	3
RF_V	Site variability, number of tests, and thoroughness of subsurface investigation	1
RF_S	Long-term siltation, plugging, and maintenance	3
Total reduction factor, $RF = RF_T + RF_V + RF_S$		
Design infiltration rate = measured infiltration rate / RF		

The stabilized infiltration rates measured in the field using the Boring Percolation test procedure should be adjusted using a reduction factor $RF_T = 2$, as indicated in the GMED LID Guidelines. A reduction factor of $RF_T = 3$ has been applied to account for high flow-rate test results. A reduction of the measured infiltration rate due to number of tests and thoroughness of investigation is not considered applicable at this time and an infiltration reduction factor of $RF_V = 1$ has been assumed for best-case scenario. Long-term performance due to siltation has been shown to reduce infiltration rates. Therefore, a reduction factor of $RF_S = 3$ has been applied to account for long-term siltation and plugging.

5.4.3 Results and Discussion

A summary of the measured infiltration rate, applied reduction factors, and associated corrected infiltration rate are tabulated below.

Infiltration Test Results

Geologic Unit	Test Location	Finer than No. 200 Sieve Size, %	Measured Infiltration Rate, inches/hour	Reduction Factors			Corrected Infiltration Rate, inches/hour
				RF_T	RF_V	RF_S	
Qof	PB-1	13.5 [1]	20.5	5	1	3	2.3
Qof	PB-2	5.9 [2]	57.3	5	1	3	6.4

Results of on-site field testing and applied reduction factors yield a corrected infiltration rate of 2.3 in/hr at the location of Boring PB-1 and 6.4 in/hr at the location of Boring PB-2. These infiltration rates are considered suitable for infiltration-based water quality control measures at the test locations and elevations.

Based on site conditions, the following items should be considered for selection and siting of water quality control measures:

- The invert of stormwater infiltration shall be set back at least 15 feet outside a 1:1 plane drawn up from the bottom of adjacent foundations.
- Stormwater infiltration shall not be located near utility lines where the introduction of stormwater could cause damage to utilities or settlement of trench backfill.

[1] Finer than No. 200 sieve size measured in adjacent hollow-stem auger boring HS-3 at 12 feet.

[2] Finer than No. 200 sieve size measured in adjacent hollow-stem auger boring HS-4 at 9 feet.

5.5 Shear Strength

Direct Shear testing was performed on California drive ring samples of existing artificial fill soils and on soil samples remolded from a blend of on-site soils collected within the upper 6 feet at the project site. Results of the testing are presented in **Appendix B** and were used to select the following design shear strength parameters for site materials.

Shear Strength Parameters

Material	Moist Unit Weight, pcf	Peak Shear Strength		Residual Shear Strength	
		Phi, degrees	Cohesion, psf	Phi, degrees	Cohesion, psf
Existing Artificial Fill (af)	120	37	400	31	150
Proposed Compacted Fill (Cf)	130	37	300	31	130

5.6 Soil Compressibility

Compressibility of the existing artificial fill and fan deposits under assumed foundation loads was estimated based on in-situ dry density in conjunction with laboratory hydro-compression testing. Recommendations to limit settlement (total and differential) of footing foundations to tolerable values (resulting from static plus live loading) are provided in the Earthworks and Foundation Recommendations sections of this report.

In general, low plasticity soils that have an in-situ dry density of 108 pcf or less and in-situ moisture content of 8 percent or less are considered susceptible to hydro-compression. Based on measured in-situ dry densities and moisture contents, soil layers encountered in the hollow stem auger borings do not fit these criteria. However, samples with the lowest measured dry density were selected for testing. Test results show less than 1% settlement due to hydro-compression under future loading at the test depths (see **Appendix B** for lab test data).

Based on the laboratory test results in conjunction with assumed foundation loads, maximum allowable bearing capacity, and footing influence at depth, total settlement due to soil compressibility is expected to be 1 inch, or less, following recommended remedial removals (see **Removals** section of this report).

5.7 Expansion Potential of Soils

Soils encountered during the subsurface exploration were observed to consist predominantly of silty, fine- to medium-grained sands and poorly graded sands with silt. Some clayey sand units were observed in Boring HS-3 below a depth of 15 feet. Based on the observed material and lack of any fine-grained deposits with appreciable plasticity, in-situ soils at the site are regarded to have a **very low** expansion potential (per ASTM D4829 expansion potential classification).

5.8 Soil Corrosivity

The Geotechnical and Materials Engineering Division (GMED) of the Los Angeles County Department of Public Works regards soil at a site to be corrosive to concrete and/or steel if the measured resistivity is 1,000 ohm-cm or less, and/or if the sulfate concentration is 2,000 ppm (0.20%) or greater, and/or if the pH is 5.5 or less. Also, a soil with a chloride concentration greater than or equal to 500 ppm is considered deleterious to ferrous metals.

Soil resistivity, chloride content, soluble sulfate content, and pH were measured on a mixture of soils collected from Borings HS-2 and HS-5 at a depth of 1 to 6 feet to assess the potential corrosive effects on concrete and metals. Results of this testing are presented in Table B1 (**Appendix B**) and are discussed below.

- The measured resistivity value of the soil sample was >10,000 ohm-cm (which classifies as mildly corrosive to ferrous metals, per Los Angeles County Department of Public Works classification).
- Chloride content of the soil sample was 90 parts per million (ppm). Soils in this chloride content range have a negligible effect on concrete or ferrous metals.
- Sulfate content of the soil sample was less than 0.001 percent. Soils in this sulfate content range have a negligible effect on concrete per ACI 318 (Table 4.3.1).
- Based on the pH value measured in the soil sample (8.41), acidity of site soils is low and not anticipated to increase soil corrosivity.

5.9 Oil Wells

Review of the Department of Conversation, Division of Oil and Gas and Geothermal Resources well finder web page indicates that oil wells are not present within the boundaries of the project site. The closest oil well is located approximately 7.3 miles to the southwest, in the vicinity of Victory Boulevard and West Alameda Ave.

6.0 SEISMICITY

6.1 Introduction

The site is located within the Transverse Ranges geomorphic province of southern California. The Transverse Ranges consist of a series of east-west trending mountains and intervening valleys, with similarly trending faults. Associated faults in the vicinity of the site include the Sierra Madre zone, Verdugo, Raymond, and Hollywood. Additionally, the southern California region is traversed by the active San Andreas fault, located about 23 miles northeast of the project site, which is a transform boundary between the Pacific Plate and the North American Plate. The San Andreas fault is part of a system of northwest-

striking, right-lateral faults that are generally historically active, as evidenced by the June 28, 1992 Landers (M7.3) earthquake. Faults located in the vicinity of the project site are shown on the appended Quaternary Fault Location Map, **Figure C1**. Moderate to major earthquakes generated on these nearby faults can be expected to cause strong ground shaking at the site.

The southern California region is seismically active and commonly experiences strong ground shaking resulting from earthquakes along active faults. Earthquakes along these faults are part of a continuous, naturally occurring process, which has contributed to the characteristic landscape of the region. Common geologic hazards associated with earthquakes are discussed below and include **Ground Rupture**, **Ground Motion**, and **Ground Failure**.

6.2 Ground Rupture

The Alquist-Priolo Earthquake Fault Zone Act (A-P Act) purpose is to prohibit structures for human occupancy over active faults. The State Mining and Geology Board defines an active fault for the A-P Act as a fault trace that has had surface displacement within Holocene time (about the last 11,700 years). The California Geological Survey (CGS) per the A-P Act defines Earthquake Fault Zones along known Holocene-active faults.

The Los Angeles County General Plan – Safety Element (Leighton, 1990) defines an active fault as having either suspected or proven to have experienced surface rupture during Holocene time and potentially active faults as having surface displacement within greater than Holocene time and less than 750,000 years.

Review of the Earthquake Zones of Required Investigation map for the Pasadena Quadrangle, provided digitally on the CGS EQZ web application, indicates that there are not any known active faults within the project site, per A-P Act criteria. The nearest Earthquake Fault Zone is delineated for the Sierra Madre fault zone located approximately 4.3 miles northwest of the project site. The Sierra Madre fault is a complex zone of thrust and reverse faults that extends for 125 km and demarcates the base of the San Gabriel Mountains. Surface fault rupture is generally evidenced by geomorphic expressions including scarps, truncated ridges, hanging drainages, and the abrupt mountain front. A segment of the Sierra Madre fault zone (Section B) is mapped trending northwest approximately 190 feet northeast of Building “Q” and is dipping 45 degrees to the northeast, away from the project site. The Sierra Madre fault zone at this location is not in an A-P Act Earthquake Fault Zone, however the Los Angeles County General Plan – Safety Element (Leighton, 1990) does classify it as active. No discernable lineaments were observed to traverse the site in the historic aerial photos that were reviewed, though lineaments are evident to the north of the site that

correlate with the inferred fault location on the CGS EQZ web application. Based on the location of the project site relative to the fault zone (footwall side), lack of geomorphic expressions in the vicinity of the site, and absence of any apparent lineaments in our aerial photo review, surface fault rupture hazard to the site is considered low.

6.3 Ground Motion

6.3.1 General

The project site is located in southern California, which is in a geologically and seismically active region where large magnitude, potentially destructive earthquakes are common. Therefore, it is reasonable to assume that moderate or large magnitude earthquakes along any of the numerous faults in the region are expected to produce strong ground shaking at the project site in the future.

The current standards for construction provided in the 2019 California Building Code are designed to safeguard against major failures and loss of life, but are not intended to limit damage, maintain functions or provide for easy repair. Per Structural Engineers Association of California (SEAOC), conformance to these recommendations does not constitute any kind of guarantee or assurance that significant structural damage will not occur in the event of a maximum level of earthquake ground motion. However, it is reasonable to expect that a well-planned and constructed structure will not collapse in a major earthquake and that protection of life is reasonably provided, but not with complete assurance.

Although research on earthquakes during the last fifty years has greatly enhanced the level of understanding of earthquake faulting in California, the record is much too short to constrain behavior of all faults in southern California and the attenuation characteristics of all areas relative to each future potential earthquake. Predicted accelerations should, therefore, be considered **rough estimates** rather than precise facts and ground motions from future earthquakes may exceed the predicted accelerations. Neither the **Time, Location, nor Magnitude** of an earthquake can be accurately predicted at this time.

6.3.2 Earthquake Magnitude

Earthquake **magnitude** is a quantitative measure of the strength of an earthquake or the strain energy released by it, as determined by seismographic or geologic observations. It does not vary with distance or the underlying earth material. This differs from **intensity**, which is a qualitative measure of the effects a given earthquake has on people, structures, loose objects, and the ground at a specific location. Intensity generally increases with increasing magnitude and in areas underlain by unconsolidated materials and decreases with distance from the epicenter. Approximate locations of historic earthquakes are

shown on the appended Earthquake Epicenter Location Map (**Figure C2**).

The table below presents the distance to nearby significant faults (closest distance to potential rupture surface) from the project site. The site-to-source distances were obtained from the USGS fault parameters online database (based on 2008 National Seismic Hazards Map). The characteristic earthquake magnitude for each fault was calculated using the magnitude-area relationships recommended in Model 2 of the 2007 Working Group for California Earthquake Probabilities (WGCEP) (USGS Open-File Report 2007-1437D).

Summary of Significant Faults

Distance (Miles)*	Fault Name	Dip Direction	Slip Sense	Magnitude
0.10	Sierra Madre	N	reverse	7.2
0.10	Sierra Madre Connected		reverse	7.3
4.04	Verdugo	NE	reverse	6.9
6.10	Raymond	N	strike slip	6.8
6.65	Hollywood	N	strike slip	6.7
7.80	Sierra Madre (San Fernando)	N	thrust	6.7
8.83	Santa Monica Connected alt 2		strike slip	7.3
9.13	Elysian Park (Upper)	NE	reverse	6.7
9.19	San Gabriel	N	strike slip	7.3
11.00	Clamshell-Sawpit	NW	reverse	6.7
12.93	Northridge	S	thrust	6.9
14.81	Puente Hills (LA)	N	thrust	7.0

6.3.3 Peak Ground Acceleration

The peak ground acceleration consistent with maximum considered earthquake geometric mean (MCE_G) ground motions was evaluated at the site for stiff soil conditions (Site Class D). The mapped MCE_G peak ground acceleration (ASCE 7-16, Figure 22-9) adjusted for Site Class effects (PGA_M) was determined using the OSHPD Seismic Design Maps web tool by the Structural Engineers Association of California (SEAOC). Based on this evaluation, a PGA_M of 0.90g would be produced by MCE_G ground motions. This mapped value incorporates a 2% probability of exceedance in 50 years (i.e., 2,475-year return period).

6.4 Ground Failure

Ground Failure is a general term describing seismically induced secondary permanent ground deformation caused by strong ground motion. This includes liquefaction, lateral spreading, seismic settlement of poorly consolidated materials (dynamic densification),

differential materials response, slope failures, sympathetic movement on weak bedding planes or non-causative faults, shattered ridge effects and ground lurching.

6.4.1 Potential for Liquefaction and Associated Ground Failure

Review of the Earthquake Zones of Required Investigation map for the Pasadena Quadrangle indicates that the subject site is not located within an area of required investigation for liquefaction (see **Figure C3**). Based on dense soil conditions and depth to historic high groundwater, the potential for liquefaction and associated ground failure to adversely impact the proposed development is negligible.

6.4.2 Potential for Other Modes of Ground Failure

Earthquake-induced slope failures include activation and reactivation of landslides, rock falls, debris flows and surficial failures. Based on review of the California Seismic Hazard Zones Map for the Pasadena Quadrangle, the project site is not located in a zone of required investigation for seismic slope instability. There are no known landslides at or in the vicinity of the project site. Due to the generally level site conditions and distance from any significant sloping terrain, the potential for earthquake-induced slope failures to adversely impact the proposed development is negligible.

7.0 GENERAL CONCLUSIONS AND GRADING RECOMMENDATIONS

7.1 General

The locations of the proposed buildings "N" and "P" shown on the attached Geotechnical Maps are satisfactory from the standpoint of geology and soils provided that the recommendations presented in this report are implemented in the design and construction phases of this project.

Based on our evaluation of the site and soil conditions the following conclusions and recommendations are made:

- Based upon our subsurface exploration, artificial fill and older fan deposits underlie the existing improvements at the location of the proposed buildings.
- In order to provide competent and uniform foundation and slab support, existing site soils should be over-excavated to at least 5 ft beneath existing grade and replaced as an engineered compacted fill.
- Shallow foundations may be used for support, provided they are bearing onto at least 3 feet of engineered compacted fill material.
- Footing excavations should be observed for competency and adequate embedment prior to placement of reinforcing steel or concrete.
- Grade low areas adjacent to future footings to cause water to drain away. The design should include eave gutters. All downspouts should discharge directly into pipe drains directed to the street. Other concentrated drainage should also be collected and discharged to the street in non-erosive devices.

7.2 Earthwork and Grading Recommendations

All earthworks shall be accomplished under the observation and testing of the Project Geotechnical Engineer, Engineering Geologist and/or their authorized representatives in accordance with the recommendations contained herein and the current 2019 California Building Code.

7.2.1 Site Preparation

The purpose of site preparation is to expose competent subgrades on which to support structures and/or place compacted fill. Site preparation includes removal of vegetation, organic topsoil, and debris from the project site. Demolition will be required to remove the existing structures and pavements prior to the start of grading. It should be anticipated that the buried remnants of previous construction could also be encountered anywhere on the site. Any loose or disturbed soils created by demolition should be removed. Buried

utilities are located within and adjacent to the building area. Precautions should be taken to remove and relocate or protect existing utilities. All excavations created by demolition should be properly backfilled. The Geotechnical Engineer or his representative shall observe the excavated areas prior to placing compacted fill on them.

7.2.2 Removals

Based on the boring locations relative to the proposed building locations and site topography, the buildings are underlain by about 5 feet of existing fill at Buildings "N" and "P". Any existing fill should be considered uncertified and should be removed and replaced with properly compacted fill. Additionally, in order to mitigate potential compressibility of existing site soils and to provide a uniform bearing surface for footing foundations, the existing site soils should be removed to a depth of at least 5 feet beneath existing grade or 3 feet beneath the bottom of foundation, whichever is greater, and replaced as a properly compacted fill. The removal bottom should extend laterally a horizontal distance of 5 feet beyond the building foundation footprint. In general, the lateral limits of over-excavations constrained by property lines may be reduced from 5 feet to 3 feet, which will maintain a 1:1 projection from bottom of footing down to the removal bottom (see cross-sections A-A' to D-D').

Property line conditions will further impact the lateral limits of removal and re-compaction at the southwesterly corner of Building "N". The lateral limits of over-excavation beyond the foundation footprint will taper down to zero adjacent to the proposed 3'6" square column footing at the southwest corner of this building (see attached **Column Footing Exhibit**).

Depth of over-excavation beneath retaining wall footings may vary depending on various parameters, including retained height, footing depth, and proximity to other structures and improvements. For preliminary planning purposes, depth of over-excavation for retaining wall foundations can be assumed to be the same as building foundations.

The recommended removals are shown on the Geotechnical Maps (**Plate I & II**) and Cross Sections. Removal areas shall be observed by the Geotechnical Engineer, or his authorized representative, prior to placement of compacted fill, to verify the removal of all unsuitable materials. The exposed removal bottom should be proof-rolled with loaded equipment and any soft or yielding materials should be removed and recompacted. The exact depth and extent of necessary removals may be revised in the field during the grading operations, when observations and more location-specific evaluations can be performed.

7.2.3 Preparation of Removal Bottom Areas

After the ground surface to receive fill has been exposed, it shall be ripped to a minimum depth of six inches, brought to optimum moisture content or above and thoroughly mixed to obtain a near uniform moisture condition and uniform blend of materials, and then thoroughly compacted to at least 90% percent of the Maximum Dry Density, per the latest ASTM D1557 laboratory maximum density.

7.2.4 Fill Materials

Onsite soils, excluding any debris or organic matter, may be used for compacted fill. Rocks with a maximum dimension larger than 8 inches may not be placed in the fill. Rocks with a maximum dimension between 4 inches and 8 inches shall not compose more than 25 percent of any fill lift.

7.2.5 Oversize Material

Oversized, irreducible rocks are likely present in the older fan deposits. Cobbly layers are expected to be encountered within the structural removals. Any large rock fragments over eight (8) inches in size will require the contractor to employ proper means and equipment to remove all large-size pieces and disposal off-site.

7.2.6 Placement and Compaction of Fill Materials

All fill materials should be placed in lifts not exceeding 8 inches prior to compaction, then aerated or water-conditioned to obtain Optimum Moisture Content or up to 2% above Optimum Moisture Content, then thoroughly mixed to produce a nearly uniform moisture content and uniform blend of materials, and then compacted to at least 90% percent of maximum dry density (MDD), in accordance with ASTM D1557. Additional recommendations for compaction of fill are provided in the "Recommended Earthwork Specifications" (**Appendix D**).

7.2.7 Construction of Fill Slopes

In general, fill slopes of any significance are not currently shown on the plan. However, the following recommendations are provided should the situation arise during the design that requires construction of a fill slope. Fill slope inclination should not be steeper than 2:1 (h:v). The relative compaction requirement of the finished fill-slope faces depends on the construction method. A compaction of at least 90 percent of the MDD, per ASTM D1557, is for finished fill-slope faces constructed by over-building the slope, typically 2 ft vertically, and cutting back to the compacted fill material. If the fill-slope face is constructed basically on-grade then the outer 10 feet, measured horizontal from the slope face, shall be compacted to at least 92 percent of the MDD, per ASTM D1557.

7.2.8 Import Fill

All imported fill shall be observed, tested and approved by the Geotechnical Engineer this firm prior to use at the project site. Import soils to be used in the building pad areas should have an expansion index of less than 20 and corrosive characteristics that are equally or less detrimental than that of the existing onsite soils.

7.3 Proposed Fill Slopes

The Rough Grading Plan does not illustrate proposed fill slopes. However, based on site grades manufactured slopes are not anticipated to exceed 10 ft in height. Manufactured slope inclination should not be steeper than 2:1 (h:v). Manufactured slopes are considered grossly stable under static and pseudostatic conditions based on a slope gradient of 2:1 and maximum slope height of 10 ft.

7.4 Proposed Cut-Slopes

The Rough Grading Plan illustrates proposed cut-slopes along the west and south side of Buildings "N" and "P", respectively. These slopes are not anticipated to exceed 7 ft in vertical height. It is anticipated that the excavation to achieve the building removals will result in these slopes being constructed with compacted fill.

7.5 Soil Shrinkage

Based on measured in-situ density values within the range of the recommended removal depths for the building pad and assuming that fill will be compacted to an average of about of 92 percent of maximum dry density (per ASTM D1557), soil shrinkage when excavated, placed and compacted as a controlled fill is estimated to be 3 percent, or less. However, actual shrinkage (or bulking) quantities will depend on the degree of compaction achieved during earthwork operations. The supervising civil engineer should design pad grades with sufficient flexibility to accommodate a possible shrinkage or bulking of fill of up to 5 percent of the total grading volume.

7.6 Existing Utilities

Existing wet and dry utility pipes and areal drain pipes should be removed from beneath the footprint area of proposed structures and relocated.

7.7 Building Setbacks

The building setbacks from property lines should be in accordance with standards set by the City of La Canada.

7.8 Sewage Disposal

It is our understanding that sewage disposal will be via public sanitary sewer.

7.9 Drainage

Water should not be allowed to stand or pond on structural pads, parking areas, level graded areas, or constructed slopes. Water that flows onto these areas should be conducted to appropriate discharge locations via non-erodible drainage devices. Drainage devices should be inspected periodically and should be kept clear of debris. Drainage and erosion control should be designed in accordance with the standards set forth in the 2022 California Building Code.

Any modification of the grade of building pad, parking areas, etc. after certification by the project Civil Engineer could adversely affect drainage at the site. Future landscaping, construction of walkways, planters and walls, etc. must never modify site drainage unless additional measures to enhance drainage (such as area drains, additional grading, etc.) are designed and constructed in compliance with applicable regulations.

7.10 Landscaping

All final grades should be sloped away from the building foundations to allow rapid removal of surface water runoff. No ponding of water should be allowed adjacent to the foundations. Plants and other landscaped vegetation requiring excessive watering should be avoided adjacent to the building foundations. Should landscaping be constructed, an effective water-tight barrier should be provided or drains to discharge water well away from the perimeter footing foundations.

8.0 FOUNDATION DESIGN RECOMMENDATIONS

8.1 Conventional Shallow Footing Foundations

Continuous shallow spread footings are considered adequate for the support of the proposed structure based on the assumptions indicated below. It is our understanding that footing design for the modular buildings should be in accordance with the minimum foundation requirements of the 2019 California Building Code. Results of observations during earthworks for this project may warrant revisions to the recommendations herein.

8.1.1 Assumptions

The recommendations for design of conventional footing foundations provided below are based on the following assumptions:

- The **expansion potential** of foundation subgrades is **very low**.
- Minimum continuous footing width = 15 inches.
- Minimum individual column footing width = 24 inches.
- Minimum embedment of footing foundations beneath lowest adjacent final subgrade elevation: 18 inches.
- Bearing foundation material: Certified compacted fill (Cef).
- Footings are not influenced by other footing loads.
- Removals beneath the proposed grade: per the Removals section of this report.

8.1.2 Vertical Bearing Capacity Parameters

- Allowable static vertical bearing pressure applied to the soil subgrade by footing foundations with the embedment and width recommended above: 2,000 psf.
- Due to property line constraints impacting the lateral limits of remedial removals at the southwest corner of Building “N”, the recommended allowable bearing capacity beneath the column footing at that location shall be reduced to 1,700 psf. Reduction of the allowable bearing capacity for the adjacent continuous footings is not warranted.
- The maximum allowable foundation bearing pressure may be increased by 250 pounds per square foot for every additional foot of width of the foundation, to a maximum value of 2,500 pounds per square foot.
- No increase in allowable footing bearing pressure with depth.
- Increase in allowable bearing pressure for seismic loads and wind loads: one-third.

8.1.3 Footing Settlements

For conventional footing foundations designed as recommended herein, the static settlements are expected to be on the order of 1 inch, or less. Expected maximum differential settlement can be taken as ½-inch over a horizontal distance of 30 ft. Foundation settlement caused by earthquake shaking is expected to be negligible.

8.1.4 Resistance to Lateral Loads

- Lateral passive pressure that can be developed against the side of footing foundations is 250 psf per foot of depth beneath lowest adjacent soil subgrade. If care is not taken to compact soil adjacent to footing foundations or if the soil surface adjacent to footing foundations is not protected against erosion, the passive resistance of soil provided by the upper one foot of foundation embedment should be neglected.
- A one-third increase in allowable passive pressure may be used for short-term seismic and wind loads.
- The allowable frictional resistance that can be developed beneath the base of footing foundations may be calculated by multiplying the dead load by a friction coefficient of 0.40.
- The passive pressure and frictional resistance may be used concurrently without reduction.

8.1.5 Additional Foundation Recommendations

Additional recommendations for shallow foundations that should be incorporated into the design and construction of future structures, as applicable, are presented below.

- All continuous footing foundations shall be reinforced with at least four #4 steel bars (two placed near the top, and two placed near the bottom of the foundations) or by the requirements of the applicable structural design code for the design loadings, whichever is greater.
- Foundation excavations should be observed by a representative of the Geotechnical Engineer prior to placement of forms, reinforcement, or concrete, to verify that the excavations are embedded into the recommended material.
- The footing excavations should be pre-moistened to optimum moisture content and free of all loose or sloughed material prior to placement of concrete. The footing area should not be allowed to desiccate prior to placing concrete.

- To reduce moisture intrusion beneath slabs on grade, utility trenches should be backfilled with lean concrete or concrete slurry at foundation perimeters. The lean concrete plug shall be under the full width of the footing and may be extended along the trench a minimum of 24 inches in the direction of the slab.
- Material from utility trench excavations should not be spread on slab-on-grade areas unless it is compacted and tested.

8.2 Concrete Slab-on-Grade Floors

The proposed modular buildings will be constructed with raised floors. However, the following recommendations are included for concrete slab-on-grade floors should they be needed.

8.2.1 General

Concrete slab-on-grade floors shall be supported on a fill subgrade compacted to at least 95 percent of Maximum Dry Density (per ASTM D1557) in the upper 12 inches. The design of the required slab thickness and reinforcement is under the purview of the structural engineer. The following are minimum recommendations for design of conventional slab-on-grade floors based on a very low expansion potential of the fill subgrade beneath the floor slabs.

- Slab-on-grade thickness: at least 5 inches
- Slab reinforcement: #4 Rebar at 16” each way.
- Slab underlayment: 2 inches of clean sand.
- Concrete used in floor slabs should satisfy the requirements presented in Chapter 19 of the California Building Code.

In order to minimize shrinkage cracking of concrete slab-on-grade, the slabs should be constructed using low-slump concrete and with crack control joints in both horizontal directions. In any case, concrete used in slabs-on-grade should satisfy the requirements of Chapter 19 of the California Building Code.

In order to reduce moisture intrusion from utility trenches beneath slabs on grade, utility trenches should be plugged with lean concrete or concrete slurry at foundation perimeters. The plug should extend under the full width of the footing foundation and should extend at least 24 inches along the utility trench in the direction of the slab.

Deflections, shears, and moments in concrete slabs-on-grade caused by applied vertical pressures up to 1,000 psf may be estimated using a coefficient of vertical subgrade

reaction, k_v. The value k_v is defined as the pressure applied by a concrete slab to the subgrade divided by the resulting settlement of the subgrade and is a function of the subgrade soil type, soil stiffness, and dimensions of the loaded area. A k_v value of 120 pci may be used to represent the soil subgrade that supports slab-on-grade floors at the project site. This value should be adjusted based on the actual dimensions of a loaded area. The coefficient of vertical subgrade reaction for a loaded area of specific width, k_b, may be determined using the following equation, where b equals the width of the loaded area in feet: $\boldsymbol{k_b = k_v}$ **[(b + 1) / 2b]**

8.2.2 Slab Underlayment

Slab underlayment to mitigate vapor transmission is not under the purview of the geotechnical engineer; however, the following specifications based on standard local practice may be incorporated into the design:

- The compacted granular material recommended to be placed and compacted over the soil subgrade to minimize effects of expansive soil pressures (i.e., 2 inches of clean sand for very low expansion potential) may act as a capillary break and should be overlain with a 10-mil vapor retarder (i.e., "Visqueen" vapor retarder or approved equivalent) to prevent transmission of water vapor. The vapor retarder should then be overlain by an additional 2-inch thick protective cushion of compacted, well-graded clean sand.
- Alternatively, the omission of the 2-inch protective sand cushion and placement of an engineered under-slab vapor barrier (e.g., Stego Wrap 15-mil Vapor Barrier) directly between the compacted granular material and concrete slab-on-grade is also acceptable, provided the barrier is installed in accordance with the manufacturer's instructions.
- The selected membrane should be properly lapped and sealed at all seams and around all plumbing structures and other openings. Care should be taken to prevent sharp objects in the subgrade and/or structures from puncturing the membrane.

Suitability of proposed sand cushion materials should be evaluated in our laboratory prior to transporting them to the subject site.

8.3 Expansive Soils Considerations

Recommendations are provided in this report for mitigation of the effects of potential expansion of fill soils, including recommendations for footing embedment and reinforcement, slab thickness and reinforcement, and moisture conditioning of subgrades beneath footing foundations and slab-on-grade floors, as required. These recommendations

depend on the expansion potential that characterizes the subgrade of the building pads. Based on the predominantly granular nature of site soils, the expansion potential when removed, mixed, and replaced as compacted fill is anticipated to be **very low** (per ASTM D4849 expansion potential classification).

Geotechnical observation of the soils exposed in the foundation excavation and slab subgrade should be performed and the Expansion Index measured (if warranted) in order to verify the applicability of minimum parameters presented herein for design and construction of footing foundations and concrete slab-on-grade floors.

8.4 Soil Corrosivity Considerations

Based on the results of sulfate content testing, corrosivity of soils at the site to concrete is expected to be negligible. Therefore, Type I or II Portland cement may be used for concrete structures that will be in contact with site soils. Based on the results of resistivity testing site soils classify as mildly corrosive to metals.

The on-site soils when excavated, mixed and placed as a compacted fill are not anticipated to exhibit corrosive characteristics to concrete or ferrous metals. However, the following precautionary measures may be implemented to mitigate for corrosion potential:

- Steel and wire reinforcement in concrete structures cast against site soils should have at least 3 inches of concrete cover.
- Buried utilities made of ferrous metals should be protected with polyethylene extruded coating, or with tape over primer per AWWA Standard C209 or C203, or with hot-applied coal tar enamel, or as recommended by manufacturers of the utility conduits.
- Metallic pipes that penetrate concrete structures should be surrounded by plastic sleeves, rubber seals, boots, or other dielectric material in order to prevent contact between the pipe and the concrete structure.
- Below-grade ferrous metals should be electrically insulated from above-grade metals.

Additional corrosivity testing of soils from the subgrades of footings and floor slabs should be performed following site grading.

9.0 RETAINING WALLS

The following recommendations may be used for design and construction of retaining walls based on the current site plan.

9.1 Assumptions

Retaining walls should be founded on clean, non-deleterious, competent compacted fill. The earth materials exposed at the bottom of the proposed retaining wall footing should be observed by the Soils Engineer/Engineering Geologist or his representative. Recommendations for remedial removals beneath retaining wall footings are presented in the Removals section of this report. If the earth materials in the bottom of the foundation excavation appear to be disturbed, they should be removed and replaced with compacted fill.

9.2 Footing Parameters

Footings that will support conventional retaining walls shall be designed as recommended above for conventional shallow footing foundations for the building, except where superseded below.

- Minimum footing depth: 24 inches below lowest adjacent soil subgrade.
- Minimum footing width: 24 inches.

9.3 Lateral Earth Pressures

Retaining walls should be designed to resist lateral (static) earth pressures equal to those exerted by an equivalent fluid with a density not less than the following for active (free-standing) and at-rest (restrained) conditions. A wall is considered restrained if it is prevented from movement greater than 0.002H (H = height of wall in feet) at the top of the wall.

Lateral Static Earth Pressure

Backfill Slope (Horizontal to Vertical)	Equivalent Fluid Density Value	
	Free-Standing Cantilever Retaining Walls (active conditions)	Retaining Walls Restrained Against Rotation (at-rest conditions)
Level	38 pcf	58 pcf
2:1 max	60 pcf	80 pcf

These equivalent fluid density (EFD) values assume backfill consisting of compacted fill materials with low expansion potential and plasticity, and that drainage will be provided behind walls in order to prevent buildup of water pressure. If soil retained by walls is not drained, the walls should be designed to resist hydro-static water pressures in addition to the applicable active or at-rest soil pressures discussed above.

Additional lateral pressures due to surcharge loads from adjacent footings are not

anticipated. Additional lateral pressures may be exerted against retaining walls by traffic loads. Potential traffic loads may be represented by a vertical surcharge load of 250 psf. A uniform lateral surcharge pressure against the retaining wall and base can be taken as one-third (i.e., 84 psf) when this vertical surcharge pressure is applied within a 1:1 (h:v) projection up from the base of the wall. For vehicular surcharges applied beyond a 2:1 projection from the base of the wall, the associated lateral surcharge pressure against retaining walls is considered negligible. The magnitude of lateral surcharge for applied vehicular loads between these two cases can be estimated using linear interpolation. Additional analyses can be performed to evaluate or confirm appropriate lateral surcharges, as needed, on a case-by-case basis.

Walls that will retain more than 6 feet of earth materials (typically taken as the difference between grade at front and back of wall) shall be designed to resist dynamic seismic lateral earth pressures. The total seismic earth pressure (P_{AE}) is equal to the sum of the static lateral earth pressure under active conditions (P_A) and a dynamic load increment (ΔP_{AE}) tabulated below. The dynamic load increment can be represented by an equivalent fluid with a density not less than the following:

Dynamic Load Increment

Backfill Slope (Horizontal to Vertical)	Equivalent Fluid Density Value	
	Active Condition (P_A)	Seismic Increment (ΔP_{AE})
Level	38 pcf	26 pcf
2:1 max	60 pcf	43 pcf

Dynamic load increments are calculated as follows:

Unrestrained wall with level backfill: $\Delta P_{AE} = 0.5\gamma H^2(0.42\ PGA_M/g)$

Unrestrained wall with sloping backfill: $\Delta P_{AE} = 0.5\gamma H^2(0.70\ PGA_M/g)$

where γ is the moist unit weight of retained soil (120 pcf), H is the retained height, and PGA_M (0.51g) is the design peak ground acceleration (i.e., $S_{DS}/2.5$).

The equivalent fluid pressures provided for the dynamic load increment are in addition to the equivalent fluid density (EFD) values provided for active and at-rest conditions under static loading. The resultant seismic earth pressure acts at about H/3 from the base of the wall.

9.4 Retaining Wall Drainage

Retaining walls should be provided with a freeboard of at least 6 inches and a standard surface backdrain swale, if applicable (see **Retaining Wall Drainage Detail**). All drainage

should flow to the toe of the adjacent slope using non-erodible devices. In order to reduce infiltration of surface water behind retaining walls, the surface backdrain swale should be paved or the surface of the backfill covered with at least 12 inches of low permeability fill for a horizontal distance equal at least to the height of the wall.

A backdrain system should be provided to prevent development of hydrostatic water pressures behind retaining walls. The referenced **Retaining Wall Drainage Detail** and **Alternate Wall Drainage Detail** show drainage recommendations with specifications for drainage materials behind the walls. If a drainage composite is selected for use in lieu of drainage rock it should consist of a high-strength core (compressive strength > 15,000 psi) and a high-flow (flow rate > 140 gpm/ft^2) non-woven filter fabric. At locations where moisture migration through walls is undesirable, the side of the wall in contact with backfill soils should be waterproofed. The drainage composite shall be compatible with the waterproofing materials.

9.5 Retaining Wall Backfill

Retaining wall backfill to be certified by this office must be placed in accordance with our recommendations presented in this report and observed and tested by our personnel during placement. Under no circumstances will retaining wall backfill be certified by this office if our recommendations concerning backfill placement are not followed, or if our personnel do not observe the installed backdrain and test the backfill during placement.

To prevent the buildup of lateral soil pressures in excess of the recommended design pressures, over-compaction of fill behind walls should be avoided by placement of wall backfill in lifts not exceeding 6 inches in thickness and by compacting each lift with hand-operated or self-propelled compaction equipment that weighs less than 1000 pounds. Use of heavier equipment for compacting backfills should be limited to those areas at least 8 feet from retaining walls. If these precautions cannot be maintained, then the respective retaining walls should be either be redesigned to support the significantly higher lateral loads or the walls should be braced to support higher load during placement and compaction of backfill.

10.0 DESIGN RESPONSE SPECTRUM

Based on site soil properties, the site is classified as Site Class D (stiff soil). The following spectral response parameters were determined using the OSHPD Seismic Design Maps web tool by the Structural Engineers Association of California (SEAOC). The parameters represent mapped values (adjusted for Site Class) with a 2% probability of exceedance in 50 years and corresponding risk-targeted ground motion (RTGM) with a 1% probability of collapse in 50 years.

FACTOR	VALUE
Site Class	D
Site Coefficient, F_a	1.0
Site Coefficient, F_v	1.7
Design Spectral Response Acceleration at Short Period, S_{DS}	1.278
Design Spectral Response Acceleration 1-Second Period, S_{D1}	0.815
Design Peak Ground Acceleration (PGA), $S_{DS}/2.5$	0.51g

The preceding parameters should be used to calculate a response spectrum in accordance with Section 1613.3 of the 2019 California Building Code (CBC) and assume that planned structures will meet at least one of the exceptions noted in ASCE 7-16 Section 11.4.8. The values were obtained for site coordinates of 34.20907°N, 118.18816W°.

11.0 CONSTRUCTION CONSIDERATIONS

11.1 Temporary Excavations

Cross sections have been constructed along Gould Avenue adjacent to Building N (sections A-A' through D-D') to illustrate temporary excavation configurations. Cross section locations are shown on the attached Geotechnical Map (Plate II). Based on the planned footing depths and remedial removal configuration shown on these cross sections, temporary excavations up to 12 feet will be required.

Excavations deeper than 3.5 ft should conform to the State Construction Safety Orders of the State Division of Industrial Safety, CAL-OSHA. Temporary excavations in competent on-site soils up to 5 feet in height may be vertical. Temporary excavations between 5 and 12 ft in height shall be laid back to a gradient no steeper than 1.5:1 (h:v). The lower 3 ft of the sloping excavation may be vertical. At locations where the lateral limits of the excavation are constrained, slot cuts may be used. The Rough Grading Plan indicates temporary shoring by others at the southwest corner of Building "N". At this location the slot cut procedure can be used to achieve the remedial removals (see Cross Section D-D').

Excavations deeper than about 12 feet are not anticipated. Excavation walls in sands and dry soils must be kept moist at all times, but not saturated.

The horizontal distance of vertical surcharge loads from excavations should be at least 5 feet or half the excavation depth, whichever is greater. Some sloughing from granular soils may occur in excavations. Workers should be adequately protected from such sloughing, i.e., using movable shields/shoring. Surface drainage should be controlled along the top of excavation slopes.

11.2 Temporary Slot Cut Excavations

Near-vertical excavations are anticipated to achieve the recommended grading removals due to property line constraints. In order to maintain temporary stability it is recommended that removals in these areas be performed using an A-B-C slot cutting procedure. The Slot Cut Procedure is illustrated on a detail in Appendix D and described below:

- The area to be over-excavated should initially be excavated at an inclination no steeper than 1.5:1 (h:v) to a maximum height of 12 ft.
- Then, vertical cuts up to 9 feet in height should be excavated down to the required removal bottom at the locations of the "A" slots (this may result in up to a 3-ft high 1.5:1 slope at top of excavation). The width of the slots should not exceed 10 ft.
- Then, the "A" slots should be backfilled with compacted fill, in accordance with the grading recommendations/specifications provided in this report.
- Then, the "B" slots should be excavated and backfilled, as described above for the "A" slots.
- Then, the "C" slots should be excavated and backfilled, as described above for the "A" slots.

11.3 Temporary Shoring

Temporary shoring should be utilized to support portions of the temporary excavation that are not in conformance with our prior recommendations. Shoring may consist of steel soldier piles that are placed in drilled holes and filled with concrete and designed in accordance with following general design parameters:

- Drilled cast-in-place soldier piles should be spaced no closer than 2 diameters on center. The minimum diameter of the piles is 18 inches and the minimum embedment is 5 feet beneath the bottom of the excavation.

- For cantilevered shoring up to 12 feet in height supporting a level backslope, a triangular distribution of lateral earth pressure of 38 pcf should be used.
- An allowable passive value of 250 psf per foot of depth (to a maximum of 2,500 psf) may be used in the anchoring stratum below the excavation bottom.
- For piles spaced greater than two times their diameter, the effective width of the pile may be taken as two times its diameter in passive resistance computations. In all cases of pile spacing, the structure should be considered as a continuous sheet pile structure in the active force computations. Active pressure should be considered as acting on the full height and depth of the pile shaft unless indicated as otherwise.
- Continuous lagging between soldier piles will be required. The lagging should be designed for full lateral earth pressures, limited to a maximum of 400 psf.
- Structural concrete should be used for that portion of a soldier pile, which is below the excavated level; lean mix concrete may be used above that level.
- Frictional resistance between the soldier piles and the retained earth may be used in resisting the downward component of the anchor load.
- Axial loads on soldier piles may be resisted by skin friction on the piles below the bottom plane of the excavation. The coefficient of friction between soldier piles and the retained earth may be taken as 0.40 assuming that uniform full shear load transfer will develop between the steel soldier beam and the lean-mix concrete and between the lean mix concrete and the retained earth.
- A civil or structural engineer experienced in shoring design shall prepare shoring plans.
- We should review shoring plans and specifications before bidding and are available to assist further in their preparation.

11.4 Utility Trench Backfill

Utility trench backfill should be compacted at least to 90 percent of Maximum Dry Density (MDD), per ASTM Test Method D1557. Compaction shall be performed with a mechanical compaction device in accordance with specifications for trench backfill presented in **Appendix D**. If the excavated soils have dried, they should be moisture-conditioned to near Optimum Moisture Content prior to placement and compaction in trenches. Trench backfill within building footprints must comply with all PCC floor slab compaction and moisture requirements.

Bedding material placed around utility conduits shall consist of clean gravel or sand with a

Sand Equivalent (per ASTM D2419) of 30 or greater. Compaction of bedding material shall be in accordance with "Standard Specifications for Public Works Construction" (Greenbook) specifications. Jetting should not be employed for compaction of bedding material at depths less than 4 feet beneath the subgrade of concrete slabs-on-grade, vehicle pavements, or other structures.

12.0 TENTATIVE PAVEMENT DESIGN AND ASSOCIATED GRADING

12.1 Asphalt Concrete Pavements

Design of asphalt concrete pavement sections depends primarily on support characteristics (strength) of soil beneath the pavement section and on cumulative traffic loads within the service life of the pavement. Strength of the pavement subgrade is represented by R-Value test data. Traffic loads within service life of a pavement are represented by a Traffic Index (TI) which is calculated based on anticipated traffic loads and on the projected number of load repetitions during the design life of the pavement. The design TI value should be verified by the Project Civil Engineer prior to construction.

Based on soil type and compaction characteristics of future subgrade soils, and on judgment regarding variability of site soils, a preliminary design R-Value of 30 was selected. Pavement sections are provided in the following table. These sections satisfy the minimum requirements of the CALTRANS flexible pavement design procedure for the design R-Value and a design service life of 20 years.

Flexible Pavement Sections

Traffic Index (TI)	Pavement Section (Thickness in inches)	
	Asphalt Concrete	Base Course
4	3.0	4.5
5	3.0	5.5
6	4.0	7.0
7	4.5	8.5

The preceding pavement sections provide the minimum thickness of asphalt concrete permitted by the Caltrans design procedure. Alternate designs with greater asphalt thickness and smaller base course thickness can be provided upon request.

12.2 PCC Vehicle Pavements

The design of PCC pavement and slab thicknesses and reinforcement is under the purview of a structural engineer. Deflections, shears, and moments in PCC pavements may be estimated using a coefficient of vertical subgrade reaction, k_v. The value k_v is defined as the

pressure applied by the PCC slab divided by the resulting settlement of the subgrade and is a function of the subgrade soil type, soil stiffness, base thickness, and base type. An effective k_v value of 120 pci may be used for design of PCC pavements that support vehicle loads.

Unless specifically designed by the project structural engineer, PCC vehicle pavements should be at least 6 inches thick and reinforced with No. 3 rebar placed 18 inches on center in each horizontal direction. PCC vehicle pavements should be supported on at least 6 inches of compacted base material.

PCC apron slabs planned for support of heavy vehicle loads in loading areas (i.e., trash enclosure) should be reinforced with #4 bars at 14-inch spacing in both horizontal directions. PCC apron slabs should be at least 8-inches thick and should be supported on at least 8 inches of compacted base material.

12.3 PCC Curb and Gutter

Based on the anticipated expansion potential of the compacted fills at the project site (i.e., very low), proposed PCC curbs and gutters may be cast directly on compacted soil subgrades.

12.4 Base Course

The base course beneath pavements should have an R-value of at least 78 and should comply with specifications for untreated crushed aggregate base (CAB), crushed miscellaneous base (CMB), or processed miscellaneous base (PMB), as defined in Section 200-2 of the current **Green Book** (Standard Specifications for Public Works Construction), or aggregate base (AB-Class 2) as defined in Section 605.3 of the current Caltrans Highway Design Manual.

12.5 Concrete Flatwork/Hardscape

Portland Cement Concrete sidewalks that will not support vehicular traffic should be at least 4 inches thick, and as a minimum, should be reinforced at mid-depth with 6x6-W1.4xW1.4 welded wire-fabric reinforcement.

Based on a very low expansion potential, PCC sidewalks may be cast directly on compacted soil subgrades. The moisture conditioned subgrade should not be allowed to desiccate prior to casting of concrete hardscape elements.

To help minimize shrinkage cracking, concrete flatwork should be constructed using uniformly cured, low-slump concrete, with crack control joints spaced at intervals not exceeding 8 ft.

12.6 Grading Recommendations for Pavement Construction

12.6.1 General

All grading shall be performed under the observation and testing of the Project Geotechnical Engineer and/or their authorized representatives in accordance with the recommendations contained herein and in accordance with the current Building Code requirements of the County of Los Angeles.

In order to provide suitable bearing support for the pavement section, all disturbed compacted fill soils (e.g., due to desiccation or over-saturation by rainfall, broken water lines, etc.) must be removed and replaced with a minimum 12 inches of fill compacted to the required density and moisture content before placement of PCC pavement.

12.6.2 Subgrade Preparation

The top 6 inches of the sub-grade materials shall be scarified and moisture conditioned to Optimum Moisture Content, or above, immediately prior to pavement construction. The moisture content shall be brought to the specified percentage by the addition of water, by the addition and blending of dry suitable material, or by the drying of existing material. The subgrade material shall then be compacted to a relative compaction of at least 95 percent of Maximum Dry Density, per ASTM 1557.

During processing of the top 6 inches of backfill in the pavement subgrade, all rocks larger than 3 inches in dimension shall be removed. If unsuitable material is found below the processing depth, it shall be removed and replaced as compacted fill. After compaction and trimming, the subgrade shall be firm, hard, and unyielding.

12.6.3 Placement of Base Materials

Base material shall be watered as required to facilitate compaction and spread and compacted in horizontal lifts of approximately equal thickness. The maximum compacted thickness of any aggregate base lift shall not exceed 6 inches. Each lift of aggregate base material shall be compacted to at least 95 percent of Maximum Dry Density, per ASTM D1557.

13.0 LANDSLIDE, SETTLEMENT, & SLIPPAGE STATEMENT

It is the finding of this firm that the proposed improvements designated on the Site Plan submitted with this report, will be safe against hazard from landslide, settlement, and slippage, for the use intended, and will not affect offsite property, provided that all our recommendations are incorporated in the Grading and Building Plans and implemented during construction.

14.0 PLAN REVIEW AND CONSTRUCTION OBSERVATIONS

Allan E. Seward Engineering Geology, Inc. (AESEGI) should be authorized to review project grading plans, foundation plans and specifications for conformance with the recommendations provided in this report. Prior to the approval of the Grading Plans and Building Plans by the regulatory agency, this office is required to review and approve your plans by manual signatures and date.

AESEGI should also be authorized to perform on-site construction observation and testing to ascertain that conditions at the project site are consistent with the findings and conclusions presented in this report and that construction operations are performed in accordance with the recommendations presented in this report. If variations in subsurface soil conditions become evident during construction, the recommendations presented in this report may require revision.

The geotechnical and geological consultants of record should be authorized to perform the testing and observation recommended in this report, including the following tasks:

1. Observation and testing of all subgrade and fill bottoms (following excavation and prior to scarifying, recompaction, and fill placement).
2. Observation and testing of all fill placement and compaction.
3. Observation of foundation excavations to verify embedment into competent bearing material (prior to placement of forms or reinforcement into the excavations). Excavations must be free of all loose and slough material and must be neatly trimmed and water-conditioned prior to casting concrete in them.
4. Observation and testing of utility trenches beneath and adjacent to the proposed structures
5. Observation of slab-on-grade subgrades prior to casting of concrete and/or installation of slab underlayment materials. The slab subgrades must be tested to verify that they have been maintained at the moisture content recommended herein.

Please notify AESEGI at least 48 hours in advance of any required observations, sampling, or testing, so that appropriate personnel can be made available.

15.0 GEOLOGIST/GEOTECHNICAL ENGINEER OF RECORD

This report has been prepared assuming that all required geologic and geotechnical field inspections and observations will be performed by Allan E. Seward Engineering Geology, Inc. If these tasks are performed by another party, that party must review this report, assume full responsibility for recommendations contained herein, and assume the title and responsibility of “Geologist/Geotechnical Engineer of Record” for the specific work.

A representative of the Geologist/Geotechnical Engineer of Record shall be present to observe all grading operations. All footing excavations shall be observed by a representative of the Geologist/Geotechnical Engineer of Record prior to placing steel or casting concrete in the excavations. A report that presents results of these observations and related testing shall be issued at the end of grading operations.

16.0 LIMITATIONS

This report has been prepared by Allan E. Seward Engineering Geology, Inc. for the exclusive use of the La Canada Unified School District and their design consultants for the specific site discussed herein. This report should not be considered transferable. Prior to use by others, this firm must be notified, as additional work may be required to update this report.

In the event that any modification in the location or design of the proposed development, as discussed herein, are planned, the conclusions and recommendations contained in this report will require a written review by this firm with respect to the planned modifications.

The proposed development is located in southern California, a geologically and tectonically active region, where large magnitude, potentially destructive earthquakes are common. Therefore, ground motions from moderate or large magnitude earthquakes could affect the project site during the design life of the proposed structure(s).

Typically, faulting is confined to the area adjacent to a known fault. However, absolute assurance against future fault displacement is not possible in tectonically active regions because new faults can form over time as the orientation and magnitude of deformational forces change in the earth's crust. Therefore, the location and magnitude of new ground surface ruptures during a seismic event cannot be anticipated.

In performing these professional services, this firm has used the degree of care and skill ordinarily exercised under similar circumstances by reputable engineering geologists and geotechnical engineers practicing in this or similar localities. The data presented in this report are based on the results of pertinent field and laboratory testing. It should be recognized that subsurface conditions can vary in time and laterally and with depth at a given site and that the conclusions and recommendations presented in this report are based on our interpretation of these data. Therefore, our **conclusions** and **recommendations** are **professional opinions** and are **not meant** to be a control of nature. We make no other **warranty**, either **expressed** or **implied**.

This opportunity to be of service is appreciated. If you have any questions regarding this report, please contact us.

Respectfully submitted,

Eric J. Seward, CEG 2110
Principal Engineering Geologist
Vice President



Kevin P. Callahan, MS, GE 2989
Principal Geotechnical Engineer



The following attachments and appendices complete this report.

Location Map following page 2
Regional Geologic Map following page 5
References

APPENDIX A – Subsurface Logs and Infiltration Test Reports
- Hollow-Stem Auger and Percolation Boring Logs (HS-1 thru HS-5, PB-1 and PB-2)
- Key to Boring Log Symbols
- Boring Percolation Test Reports Figures A1 & A2

APPENDIX B – Laboratory Testing

APPENDIX C – Seismicity
- Ground Motion and Response Spectra References
- Quaternary Fault Location Map Figure C1
- Earthquake Epicenter Location Map Figure C2
- Earthquake Zones of Required Investigation Figure C3
- OSHPD Seismic Design Maps Output

APPENDIX D – General Specifications and Construction Details
- Recommended Earthwork Specifications
- Recommended Specifications for Placement of Trench Backfill
- Drainage and Erosion Control Recommendations
- Retaining Wall Drainage Details
- Slot Cut Procedure Detail
- Column Footing Detail

Cross Section 1-1'
Cross Sections A-A' through D-D'
Geotechnical Map (Site Plan) Plate I
Geotechnical Map (Rough Grading Plan) Plate II

Distribution:

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GGA Architecture (via email in PDF format)
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KPFF (via email in PDF format)
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REFERENCES

Published

Bilodeau, W.L., Bilodeau, S.W., Gath, E.M., Osborne, M., Proctor, R.J., 2007, Geology of Los Angeles, California, United States of America: Environmental & Engineering Geoscience, Vol. XIII, No. 2, May, p. 99-160.

California Building Standards Commission, 2019, California Building Code (CBC): California Code of Regulations, Title 24, Part 2, Volumes 1 and 2

California Building Standards Commission, 2022, California Building Code (CBC): California Code of Regulations, Title 24, Part 2, Volumes 1 and 2

California Department of Conservation, California Geological Survey (CGS), 2008, Guidelines for Evaluating and Mitigating Seismic Hazards in California, Special Publication 117A.

California Geological Survey, 2018, Earthquake Zones of Required Investigation web application, https://maps.conservation.ca.gov/cgs/EQZApp/

California Department of Conservation, Division of Mines and Geology (CDCDMG), 1998, Seismic Hazard Zone Report for the Pasadena 7.5-Minute Quadrangle, Los Angeles County, California, Seismic Hazard Zone Report 014.

California Department of Conservation, Division of Oil, Gas & Geothermal Resources (DOGGR), 2018, Online Well Finder system, http://www.conservation.ca.gov/dog/Pages/WellFinder.aspx.

County of Los Angeles, Department of Public Works, Geotechnical and Materials Engineering Division, 2013, Manual for Preparation of Geotechnical Reports, July 1.

County of Los Angeles, Department of Public Works, Geotechnical and Materials Engineering Division, 2021, Administrative Manual GS200.1, Guidelines for Geotechnical Investigation and Reporting Low Impact Development Stormwater Infiltration, June 30.

County of Los Angeles, Department of Public Works, Online Groundwater Well Data, http://dpw.lacounty.gov/general/wells/

Dibblee, T.W., Jr., 1989, Geologic Map of the Pasadena Quadrangle, Los Angeles County, California, Dibblee Geological Foundation Map DF-23, scale 1:24,000.

Hart, E.W. and Bryant W.A., 1997, Fault-rupture hazard zones in California: California Division of Mines and Geology Special Publication, 42, 38 p.

Jennings, C.W., 1988, Fault map of California with locations of volcanoes, thermal springs, and thermal wells: California Division of Mines and Geology, Geologic Data Map No. 1, 4th printing; scale 1:750,000.

Jennings, C.W., 1994, Fault activity map of California and adjacent areas, with locations and ages of recent volcanic eruptions: California Division of Mines and Geology, California Geologic Map Series Map No. 6; scale 1:750,000

Leighton & Associates, Inc., 1990, L.A. County General Plan - Safety Element, including technical appendices: Volumes 1 and 2.

Munger, K.R., ed., 2003, Munger Map Book, California and Alaska Oil and Gas Fields: Forty Second Edition, August 2003.

Peabody, A.W., 1969, Principles of cathodic protection, Chapter 5, NACE Corrosion Course: National Academy of Corrosion Engineers.

University of Southern California (USC), Southern California Earthquake Center (SCEC), Workshop on "Recommended Procedures for Implementation of DMG Special Publication 117, Guidelines for Analyzing and Mitigating Liquefaction in California", USC, Los Angeles, California, June 17, 1999.

Appendix A

CLIENT: La Canada Unified School District	JOB NO.: 22-2775-6	**DRILL HOLE LOG**	
PROJECT: New Construction and Various Site Improvements Paradise Canyon Elementary School	DATE: 1/13/23		
	LOGGED BY: CHS		
DRILLING COMPANY: Choice Drilling Inc.	DRILLED: 6/25/22		
DRILLING METHOD: Hollow-stem auger	HOLE DIA: 8"	**BORING NO.** HS-1	
HAMMER TYPE: Automatic	AVERAGE DROP: 18"		
DRIVING WEIGHTS: 140 lbs	ELEVATION: 1320.5'		

DEPTH (feet)	SAMPLE TYPE	BLOWS / 12"	GRAPHIC LOG	USCS SYMBOL	DESCRIPTION	LABORATORY TESTS: Moisture Content (%)	Dry Density (pcf)	% Fines	Other Tests
0				SP	**PAVEMENT SECTION; (0 - 7")** @ 0' 3-inch asphalt concrete over 4-inch base material **ARTIFICIAL FILL; af (7" - 5')**				
		46		SP	@ 3' Poorly graded, coarse-grained SAND with silt; medium dense; dry; light brown	2.2	113	4	Swell/Consol
5					**OLDER FAN DEPOSITS; Qof (5 - 21.5')**				
		15			@ 6' Poorly graded, coarse-grained SAND; medium dense; damp; dark greenish brown				
		32		SM	@ 9' Silty, fine- to coarse-grained SAND; medium dense; damp; medium brown	5.8	120	15	Sieve
10		36			@ 12' Silty, fine-grained SAND; dense				
15		43			@ 15' - medium dense; trace gravel	3.1	118		
20		42			@ 20' Silty, fine- to coarse-grained SAND; dense				
					TOTAL DEPTH 21.5' (Elev. 1299') No Groundwater No Caving				
25									
30									
35									

CLIENT: La Canada Unified School District	JOB NO.: 22-2775-6	**DRILL HOLE LOG**	
PROJECT: New Construction and Various Site Improvements Paradise Canyon Elementary School	DATE: 1/13/23		
	LOGGED BY: CHS		
DRILLING COMPANY: Choice Drilling Inc.	DRILLED: 6/25/22		
DRILLING METHOD: Hollow-stem auger	HOLE DIA: 8"	**BORING NO.** HS-2	
HAMMER TYPE: Automatic	AVERAGE DROP: 18"		
DRIVING WEIGHTS: 140 lbs	ELEVATION: 1329'		

DEPTH (feet)	SAMPLE TYPE	BLOWS / 12"	GRAPHIC LOG	USCS SYMBOL	DESCRIPTION	LABORATORY TESTS: Moisture Content (%)	Dry Density (pcf)	% Fines	Other Tests
0				SM	**PAVEMENT SECTION; (0 - 7")** @ 0' 3-inch asphalt concrete over 4-inch base material			16	Bulk Sample @ 1 - 6'
					ARTIFICIAL FILL; af (7" - 5')				Remold Shear Cor Curve=A
		20			@ 3' Silty, fine- to coarse-grained SAND; medium dense; dry; roots; dull brown	2.6	115		
5					**OLDER FAN DEPOSITS; Qof (5 - 35.9')**				
		20			@ 6' Silty, fine- to coarse-grained SAND with trace gravel; medium dense; dry; greyish tan; root in sampler				
		42		SP-SM	@ 9' - no gravel; light brown	2.6	116	8	Swell/Consol
10									
		26		SM	@ 12' Silty, fine- to medium-grained SAND; trace gravel				
15		83/10"			@ 15' - medium brown (rock lodged in sampler tip)	7.1	115		
20		44			@ 20' Silty, fine- to coarse-grained SAND; dense				
25		50/Ref			@ 25' - no recovery (rock lodged in sample ring)				
30		59			@ 30' - very dense				
35		50/5"			@ 35' - moist; orangish brown				
					TOTAL DEPTH 35.9' (Elev. 1293.1') No Groundwater No Caving				

CLIENT: La Canada Unified School District	JOB NO.: 22-2775-6	**DRILL HOLE LOG**	
PROJECT: New Construction and Various Site Improvements Paradise Canyon Elementary School	DATE: 1/13/23		
	LOGGED BY: CHS		
DRILLING COMPANY: Choice Drilling Inc.	DRILLED: 6/25/22		
DRILLING METHOD: Hollow-stem auger	HOLE DIA: 8"	**BORING NO.** HS-3	
HAMMER TYPE: Automatic	AVERAGE DROP: 18"		
DRIVING WEIGHTS: 140 lbs	ELEVATION: 1327.5'		

DEPTH (feet)	SAMPLE TYPE	BLOWS / 12"	GRAPHIC LOG	USCS SYMBOL	DESCRIPTION	LABORATORY TESTS: Moisture Content (%)	Dry Density (pcf)	% Fines	Other Tests
0					**PAVEMENT SECTION; (0 - 7")** @ 0' 3-inch asphalt concrete over 4-inch base material **ARTIFICIAL FILL; af (7" - 9')**				
		11		SM-SC	@ 3' Silty, clayey SAND; medium dense; damp; light brown; scattered gravel				
5		31			@ 6' - medium brown	4.1	123	32	Shear Test
		22		SP-SM	**OLDER FAN DEPOSITS; Qof (9 - 21.4')** @ 9' Poorly graded SAND with silt; medium dense; dry; light brown				
10		53		SM	@ 12' Silty SAND; medium dense; damp; light brown	3.5	118	14	Sieve
15		26			@ 15' - medium brown; scattered gravel				
20		70/11"			@ 20' - very dense; moist; dark orangish brown	4.6	131		
					TOTAL DEPTH 21.4' (Elev. 1306.1') No Groundwater No Caving				
25									
30									
35									

CLIENT: La Canada Unified School District	JOB NO.: 22-2775-6	**DRILL HOLE LOG**	
PROJECT: New Construction and Various Site Improvements Paradise Canyon Elementary School	DATE: 1/13/23		
	LOGGED BY: CHS		
DRILLING COMPANY: Choice Drilling Inc.	DRILLED: 6/25/22		
DRILLING METHOD: Hollow-stem auger	HOLE DIA: 8"	**BORING NO.** HS-4	
HAMMER TYPE: Automatic	AVERAGE DROP: 18"		
DRIVING WEIGHTS: 140 lbs	ELEVATION: 1313'		

DEPTH (feet)	SAMPLE TYPE	BLOWS / 12"	GRAPHIC LOG	USCS SYMBOL	DESCRIPTION	LABORATORY TESTS: Moisture Content (%)	Dry Density (pcf)	% Fines	Other Tests
0					**PAVEMENT SECTION; (0 - 7")** @ 0' 3-inch asphalt concrete over 4-inch base material **ARTIFICIAL FILL; af (7" - 8')**				
		42		SM	@ 3' Silty, fine- to coarse-grained SAND; medium dense; dry; dull orangish brown; scattered gravel	2.3	123		
5		21			@ 6' Silty, fine-grained SAND				
					OLDER FAN DEPOSITS; Qof (8 - 21.5')				
		62/ 11"		SW-SM	@ 9' Well-graded SAND with silt; very dense; damp; orangish brown	3.3	123	6	Sieve
10		63			@ 12' - scattered gravel				
15		30		SM-SC	@ 15' Silty, clayey SAND; medium dense; moist; dark brown	13.8	120		
20		34		SM	@ 20' Silty SAND; dense; moist; dark brown				
					TOTAL DEPTH 21.5' (Elev. 1291.5') No Groundwater No Caving				
25									
30									
35									

CLIENT: La Canada Unified School District	JOB NO.: 22-2775-6	**DRILL HOLE LOG**	
PROJECT: New Construction and Various Site Improvements Paradise Canyon Elementary School	DATE: 1/13/23		
	LOGGED BY: CHS		
DRILLING COMPANY: Choice Drilling Inc.	DRILLED: 6/25/22		
DRILLING METHOD: Hollow-stem auger	HOLE DIA: 8"	**BORING NO.** HS-5	
HAMMER TYPE: Automatic	AVERAGE DROP: 18"		
DRIVING WEIGHTS: 140 lbs	ELEVATION: 1312.5'		

DEPTH (feet)	SAMPLE TYPE	BLOWS / 12"	GRAPHIC LOG	USCS SYMBOL	DESCRIPTION	LABORATORY TESTS: Moisture Content (%)	Dry Density (pcf)	% Fines	Other Tests
0					**PAVEMENT SECTION; (0 - 7")** @ 0' 3-inch asphalt concrete over 4-inch base material **ARTIFICIAL FILL; af (7" - 5')**				Bulk Sample @ 1 - 6'
		18		SM	@ 3' Silty SAND; medium dense; dry; dull brown; scattered gravel				
5					**OLDER FAN DEPOSITS; Qof (5 - 36.5')**				
		20		SP-SM	@ 6' Poorly graded SAND with silt; medium dense; damp; light brown; scattered gravel	4.8	120		
		15		SM	@ 9' Silty SAND; medium dense; damp; dull brown				
10									
		84/10"		SM-SC	@ 12' Silty, clayey, fine- to medium-grained SAND; very dense; moist; medium brown	10.4	129		
15									
		42		SP-SM	@ 15' Poorly graded SAND with silt and gravel; dense; dry; light brown				
20									
		46		SM-SC	@ 20' Silty, clayey SAND; medium dense; moist; medium brown	12.4	119		@ 20' Driller added water due to difficult drilling
25									
		33		SM	@ 25' Silty, fine- to medium-grained SAND; dense; moist; medium brown				
30									
		50/4"		SP-SM	@ 30' Poorly graded SAND with silt; very dense; damp; dark orangish brown	5.6	112	9	Swell/Consol
35									
		60							
					TOTAL DEPTH 36.5' (Elev. 1276') No Groundwater No Caving				

CLIENT: La Canada Unified School District	JOB NO.: 22-2775-6	**DRILL HOLE LOG**	
PROJECT: New Construction and Various Site Improvements Paradise Canyon Elementary School	DATE: 1/13/23		
	LOGGED BY: CHS		
DRILLING COMPANY: Choice Drilling Inc.	DRILLED: 6/25/22		
DRILLING METHOD: Hollow-stem auger	HOLE DIA: 8"	**BORING NO.** PB-1	
HAMMER TYPE: Automatic	AVERAGE DROP: 18"		
DRIVING WEIGHTS: 140 lbs	ELEVATION: 1326.5'		

DEPTH (feet)	SAMPLE TYPE	BLOWS / 12"	GRAPHIC LOG	USCS SYMBOL	DESCRIPTION	LABORATORY TESTS: Moisture Content (%)	Dry Density (pcf)	% Fines	Other Tests
0				SM	**PAVEMENT SECTION; (0 - 7")** **ARTIFICIAL FILL; af (7" - 8')** @ 0.6' Silty, fine- to coarse-grained SAND; dry; light brown				
5					@ 3' - layer with up to 6-inch nominal diameter cobbles @ 6' - damp				
10					**OLDER FAN DEPOSITS; Qof (8 - 11')** @ 8' Silty, fine- to coarse-grained SAND; dry; medium brown				Infiltration test invert at 11 ft
15					TOTAL DEPTH 11' (Elev. 1315.5') No Groundwater				
20									
25									
30									
35									

CLIENT: La Canada Unified School District	JOB NO.: 22-2775-6	**DRILL HOLE LOG**	
PROJECT: New Construction and Various Site Improvements Paradise Canyon Elementary School	DATE: 1/13/23		
	LOGGED BY: CHS		
DRILLING COMPANY: Choice Drilling Inc.	DRILLED: 6/25/22		
DRILLING METHOD: Hollow-stem auger	HOLE DIA: 8"	**BORING NO.** PB-2	
HAMMER TYPE: Automatic	AVERAGE DROP: 18"		
DRIVING WEIGHTS: 140 lbs	ELEVATION: 1314.5'		

DEPTH (feet)	SAMPLE TYPE	BLOWS / 12"	GRAPHIC LOG	USCS SYMBOL	DESCRIPTION	LABORATORY TESTS: Moisture Content (%)	Dry Density (pcf)	% Fines	Other Tests
0				SM	**ARTIFICIAL FILL; af (0 - 8')** @ 0' Silty SAND; moist; dark brown				
5					@ 6' sand grades coarser; damp; light brown				
				SW-SM	**OLDER FAN DEPOSITS; Qof (8 - 10.5')** @ 8' Well-graded SAND with silt; damp; orangish brown				
10					TOTAL DEPTH 10.5' (Elev. 1304') No Groundwater				Infiltration test invert at 10.5 ft
15									
20									
25									
30									
35									

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS (MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE)	GRAVEL AND GRAVELLY SOILS (MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE SIZE)	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	Well-graded gravels, gravel-sand mixtures, little or no fines
				GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	Silty gravels, gravel-sand-silt mixtures
				GC	Clayey gravels, gravel-sand-clay mixtures
	SAND AND SANDY SOILS (MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE SIZE)	CLEAN SANDS (LITTLE OR NO FINES)		SW	Well-graded sands, gravelly sands, little or no fines
				SP	Poorly-graded sands, gravelly sands, little or no fines
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	Silty sands, sand-silt mixtures
				SC	Clayey sands, sand-clay mixtures
FINE GRAINED SOILS (MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE)	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	Inorganic silts and very fine sands, clayey silts with slight plasticity
				CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
				OL	Organic silts and organic silty clays of low plasticity
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	Inorganic silts, micaceous or diatomaceous fine, sandy or silty soils, elastic silts
				CH	Inorganic clays of high plasticity, fat clays
				OH	Organic clays of medium to high plasticity, organic silts
HIGHLY ORGANIC SOILS				PT	Peat and other highly organic soils

Notes:
(1) Dual USCS symbols, such as SP-SM, denote 5 to 12% of minor constituent.
(2) Dual USCS symbols, such as SM/ML, denote borderline soil classifications.
(3) Subsurface information from boring and test pit logs depict conditions only at the specific locations. and dates indicated. Soil conditions and water levels at other locations may differ from conditions at these locations. Also, the conditions at these locations may change with time.
(4) Blow counts on logs are the number of blows to drive the sampler with the weight and drop height indicated on each log.
(5) Split-barrel sampler driving record applies only to hollow-stem-auger and rotary-wash borings.
(6) These logs are subject to the limitations, conclusions, and recommendations in this report.

HS: Hollow-stem-auger boring
RW: Rotary-wash boring
B: Bucket-auger boring

SAMPLE TYPE

STANDARD PENETRATION TEST
Split barrel sampler in accordance with ASTM D-1586 Test Method

CALIFORNIA DRIVE
Split-barrel sampler in accordance with ASTM D-3550 Test Method

DISTURBED CALIFORNIA DRIVE

SHELBY TUBE
Thin-walled sampler in accordance with ASTM D-1587 Test Method

BULK SAMPLE

NO RECOVERY

GROUND WATER DATA

GROUND WATER WHILE DRILLING

GROUND WATER AFTER DRILLING

DENSITY OF GRANULAR SOILS

DESCRIPTION	SPT BLOWS PER FOOT
Very Loose	< 4
Loose	4 - 10
Medium Dense	11 - 30
Dense	31 - 50
Very Dense	> 50

STRENGTH OF COHESIVE SOILS

CONSISTENCY	SPT BLOWS PER FOOT
Very Soft	< 2
Soft	2 - 4
Firm	5 - 8
Stiff	9 - 15
Very Stiff	16 - 30
Hard	> 30

SPLIT-BARREL SAMPLER DRIVING RECORD

BLOW COUNT	DESCRIPTION
25	25 blows drove the sampler 12 inches, after initial 6 inches of seating
50/7"	50 blows drove the sampler 7 inches, after initial 6 inches of seating
Ref/3"	50 blows drove the sampler 3 inches during initial 6-inch seating interval

LABORATORY TESTING ABBREVIATIONS

Plasticity Index	PI	Compaction Curve	Curve=A
Liquid Limit	LL	Consolidation / Collapse	Consol
Hydrometer	%-5 micron	Direct Shear / Reshear / Remold	Shear Test
Expansion Index	EI		
Corrosivity Analysis	Cor		

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USCS Soil Classification and Key to Boring Log Symbols

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GEOLOGICAL AND GEOTECHNICAL CONSULTANTS

BORING PERCOLATION TEST REPORT
CONSTANT HEAD

Client:	La Canada Unified School District	Borehole Depth [ft]:	11
Project:	New Buildings and Site Improvements Paradise Cyn Elem. School, La Canada	Borehole Diameter [in]:	8
		Seasonal High GW Elev.:	< 1265
Project No.:	22-2775	Test Invert Elevation:	1315.5
Test Date:	6/30/22 Test By: C. Seward	Soil Type at Invert:	Qof
Location:	PB-1	USCS Soil Type at Invert:	SM

Test Start Time:	2:00 PM	Stabilized flow rate [in^3/min]:	120
Standard Time Interval (min):	5	Total volume infiltrated [in^3]:	18209
Test Duration (min):	135	Total Reduction Factor:	8
Water Remaining after 24 hr?:	No	***Design Infiltration Rate (in/hr):***	**2.6**

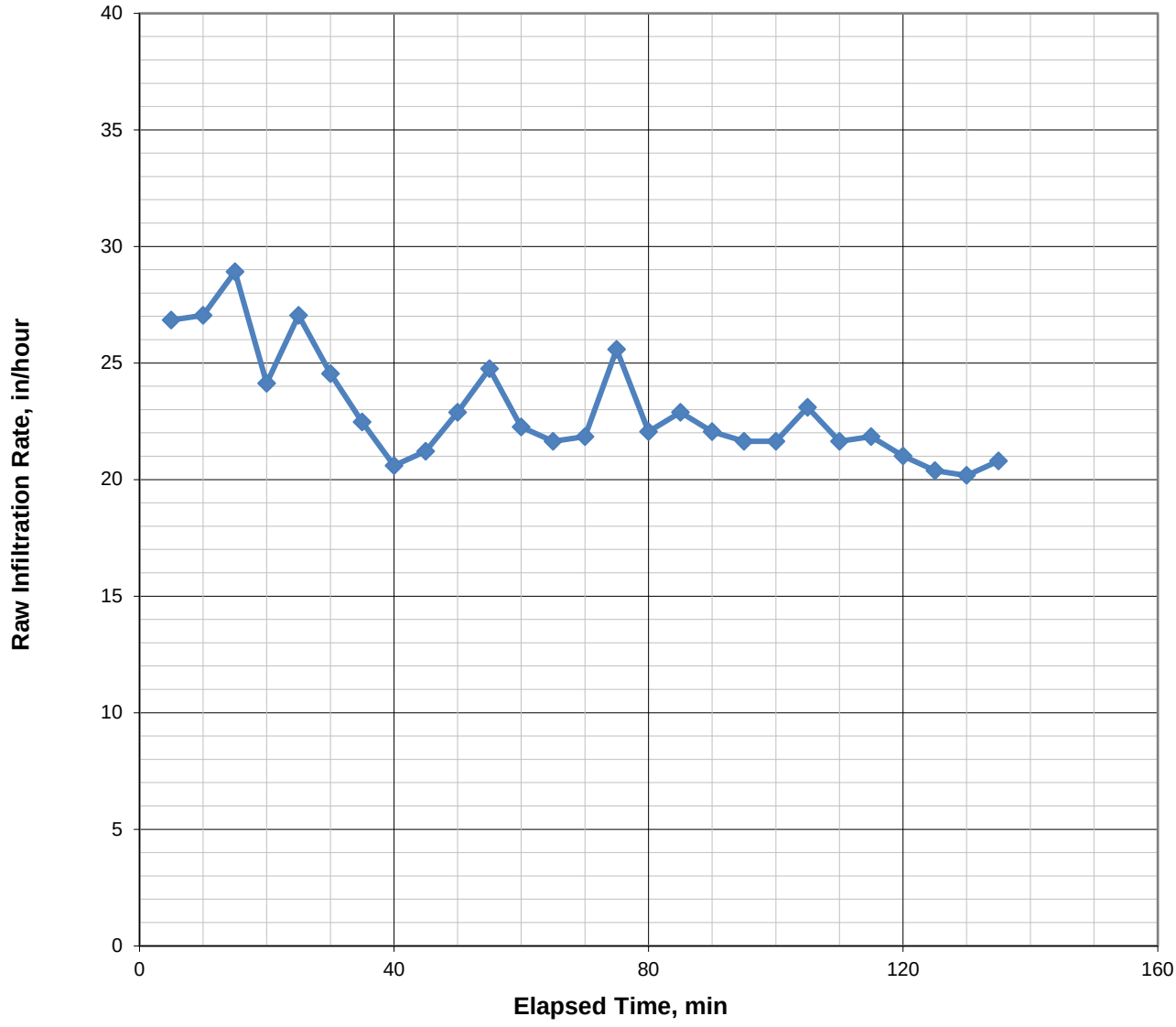


Figure A1

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ENGINEERING GEOLOGY, INC.
GEOLOGICAL AND GEOTECHNICAL CONSULTANTS

BORING PERCOLATION TEST REPORT
CONSTANT HEAD

Client:	La Canada Unified School District			Borehole Depth [ft]:	10.5
Project:	New Buildings and Site Improvements Paradise Cyn Elem. School, La Canada			Borehole Diameter [in]:	8
				Seasonal High GW Elev.:	< 1254
Project No.:	22-2775			Test Invert Elevation:	1304
Test Date:	7/1/22	Test By:	C. Seward	Soil Type at Invert:	Qof
Location:	PB-2			USCS Soil Type at Invert:	SW-SM

Test Start Time:	2:00 PM	Stabilized flow rate [in^3/min]:	336
Standard Time Interval (min):	< 10	Total volume infiltrated [in^3]:	42578
Test Duration (min):	120	Total Reduction Factor:	8
Water Remaining after 24 hr?:	No	***Design Infiltration Rate (in/hr):***	**7.2**

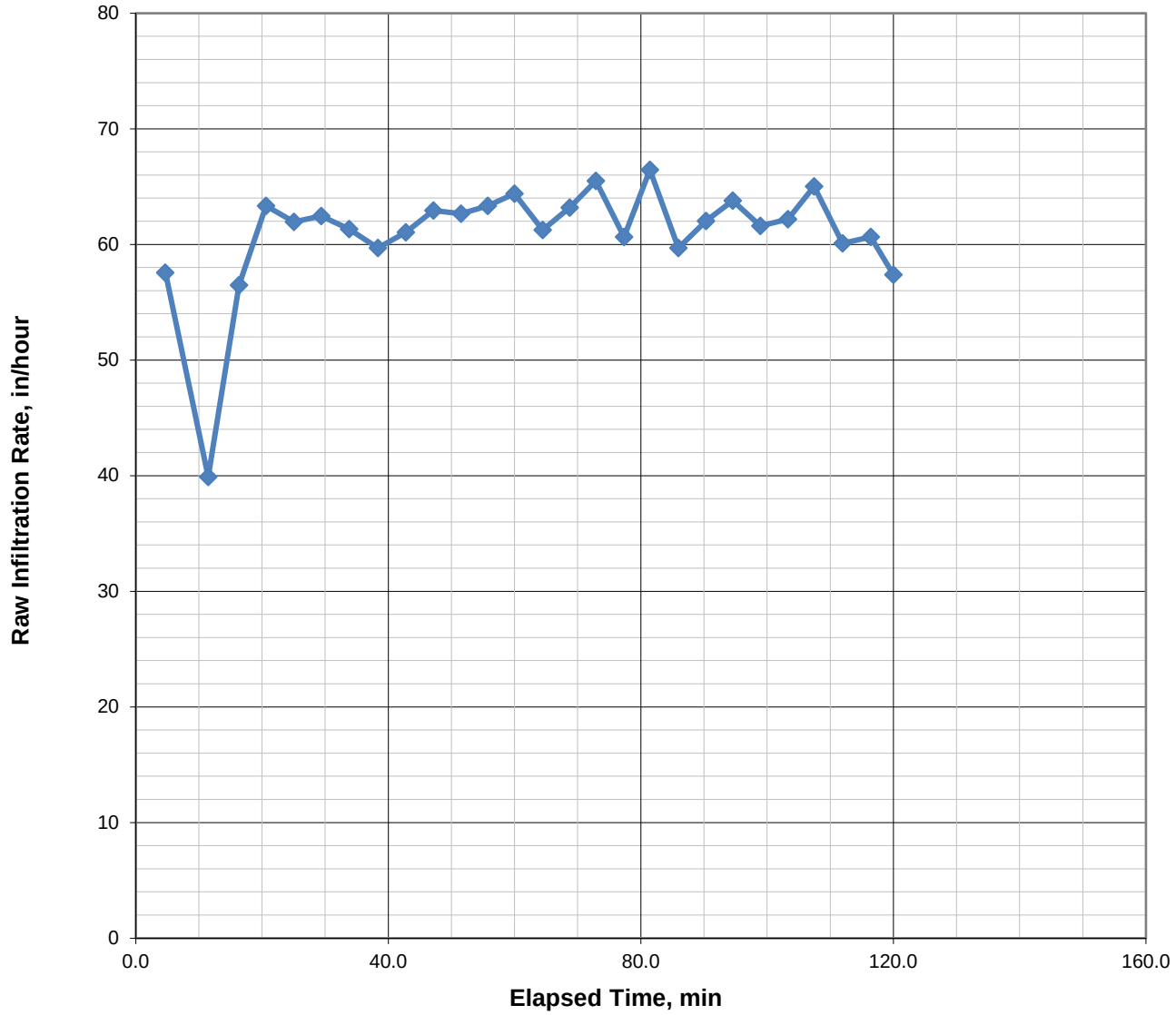


Figure A2

Appendix B

APPENDIX B

GEOTECHNICAL LABORATORY INVESTIGATION

1. General

   a. The laboratory investigation used current, accepted test procedures of the American Society of Testing and Materials (ASTM) and/or California Test Standards, wherever practical.

   b. Bulk samples, Standard Penetration Test (SPT) samples, and Modified California Drive ring samples were obtained during the field investigation. Laboratory sample identification is by project name and number, boring number, and depth.

2. Geotechnical Index Parameter Tests

   The following Geotechnical Index Parameters tests were performed on bulk samples, Standard Penetration Test (SPT) samples, and modified California ring samples of soil collected at the project site.

Test Type	Number of Tests Performed	Testing Standard
In-Situ Moisture Content	16	ASTM D2216
In-Situ Dry Density	16	ASTM D7263
Percent-Finer Than #200 Sieve	7	ASTM D1140
Particle-Size Analysis of Soils	3	ASTM D422

   The purpose of each test type is briefly described below.

   a. In-Situ Moisture Content (ASTM D2216) and Dry Density (ASTM D7263) testing of soils provide an indication of the strength and compressibility of in-situ soils. These data aided in evaluation of soil consistency and in selection of samples for additional laboratory testing. Results of Moisture Content and Dry Density testing are recorded on the Drill Hole Logs in **Appendix A**.

   b. Percent Finer than #200 Sieve (ASTM D1140) testing aids in classification of soils in accordance with the Unified Soil Classification System (USCS). Results of Percent Finer than #200 Sieve testing are recorded on the Drill Hole Logs in **Appendix A** and on applicable test reports in this appendix.

   c. Mechanical particle-size analyses of soil fractions larger than 75 microns (No. 200 sieve) were conducted to aid in classification of soils in accordance with the Unified Soil Classification System (USCS). Results of the Particle Size Analysis testing are presented on **Figure B1** in this Appendix.

APPENDIX B

3. Geotechnical Engineering Parameters Tests

The following Geotechnical Engineering Parameters Tests were performed on bulk samples and modified California ring samples of soil collected at the project site.

TEST TYPE	NUMBER OF TESTS PERFORMED	TESTING STANDARD
Modified Proctor	1	ASTM D1557
Collapse of Soils	3	ASTM D4546
Direct Shear	2	ASTM D

The Geotechnical Engineering Parameters testing is briefly described below.

a. A modified Proctor (ASTM D1557) test was performed on a mixture of soils collected from Borings HS-2 and HS-5 to assess the laboratory moisture content vs. dry density relationship of future compacted fill materials generated from on-site soils. Results of the testing are presented on **Figure B2** within this Appendix.

b. One-dimensional Collapse of Soils (ASTM D4546) testing was performed on California drive ring samples to assess the hydro-compression potential of alluvial soils when inundated with water under future loading conditions. The samples were incrementally loaded to normal pressures ranging from 200 to 14,400 psf in accordance with Procedure B. The "hydro-compression" was taken as the percent strain when inundated with water under an applied pressure approximately equal to the existing overburden pressure plus future applied foundation bearing pressure at that depth. Results of collapse testing are presented on **Figures B3.1** through **B3.3** in this Appendix.

b. Direct Shear (ASTM D3080) testing was performed on selected ring samples and on remolded test specimens using a displacement-controlled Direct Shear machine. The remolded sample was prepared using material passing the No. 4 sieve compacted to about 90% of Maximum Dry Density. Prior to testing, the samples were inundated and consolidated under normal pressures ranging from about 500 psf to 4,000 psf. Thereafter, the samples were sheared horizontally at a controlled displacement rate until the horizontal shear force reduced to a stable value. Results of the Direct Shear testing, including interpreted peak strength and residual shear strength parameters, are recorded on **Figures B4.1** and **B4.2** in this Appendix.

APPENDIX B

4. Corrosivity Tests

The following corrosivity tests were performed on a mixture of soils collected from Borings HS-2 and HS-5 at a depth ranging from 1 to 6 feet.

TEST TYPE	NUMBER OF TESTS	TESTING STANDARD
Sulfate-Content	1	California Test 417
Chloride-Content	1	California Test 422
Resistivity and pH	1	California Test 643

Soluble Sulfates Content, Chloride Content, Resistivity, and pH tests were performed to evaluate corrosivity of soils to concrete, ferrous metals, and non-ferrous metals. Results of the testing are presented in **Table B1**.

The following attachments complete this Appendix.

LABORATORY TEST RESULTS

- Corrosivity Testing Summary — Table B1
- Particle-Size Analysis Test Report — Figure B1
- Compaction Report — Figure B2
- Consolidation Test Reports — Figures B3.1 to B3.3
- Direct Shear Test Reports — Figures B4.1 & 4.2

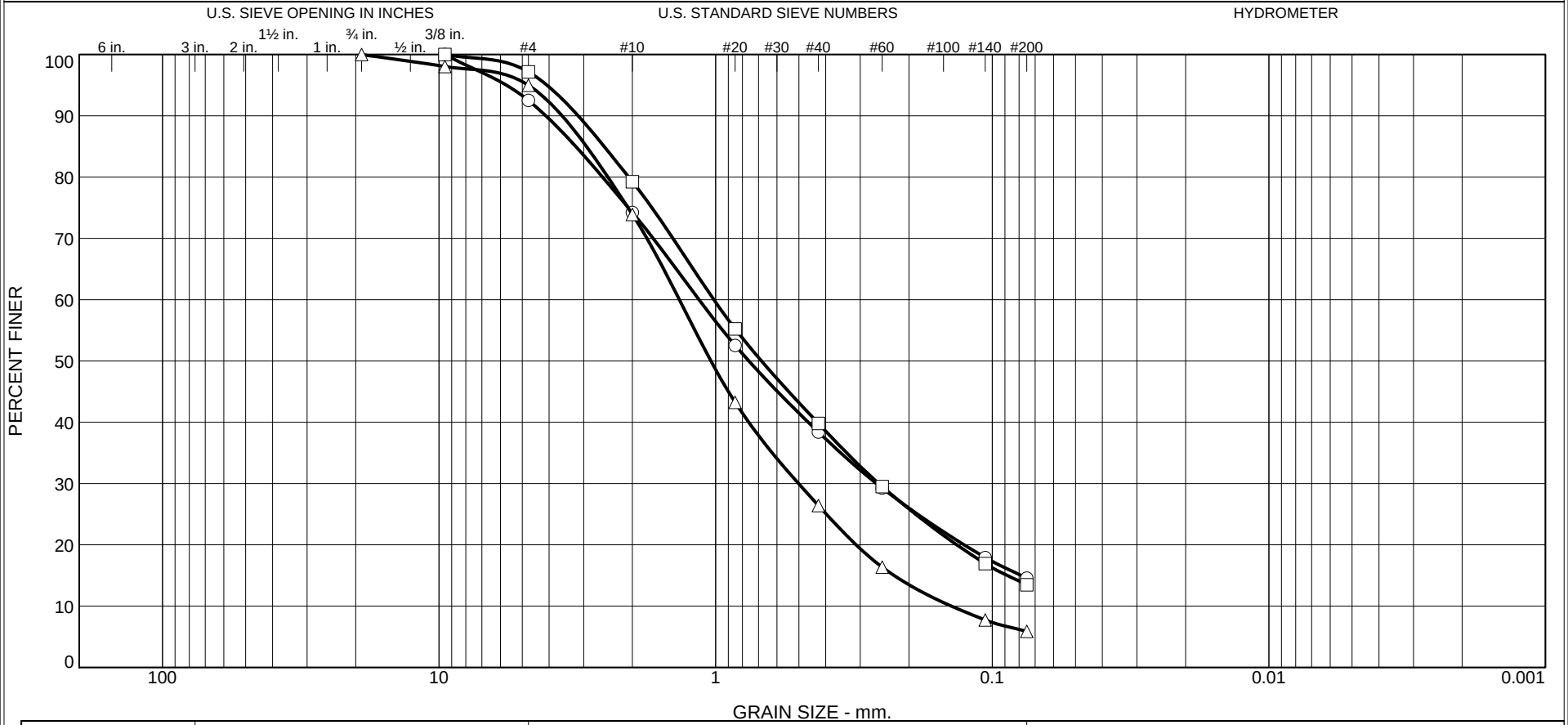
APPENDIX B

Table B1 – Summary of Corrosivity Test Results

Location	USCS	Resistivity		Chemical Analyses			
		Saturated (Ohm-cm)	Corrosion Characteristic[3]	pH	Chloride Cl (ppm)	Sulfate SO_4 (%)	Concrete exposure to sulfate[4]
HS-2 and HS-5 blend at 1 – 6'	SM	> 10,000	Mildly Corrosive	8.41	90	< 0.001	Negligible

[3] Per County of Los Angeles classification
[4] Per ACI 318

Particle Size Distribution Test Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	7.5	18.3	35.8	23.8	14.6	
□	0.0	0.0	2.8	18.0	39.4	26.3	13.5	
△	0.0	0.0	5.0	21.1	47.5	20.5	5.9	

	Source	Sample #	Depth/Elev.	Date Sampled	USCS	Material Description	NM %	LL	PL
○	HS-1		9'	6/25/22	SM	silty sand			
□	HS-3		12'	6/25/22	SM	silty sand			
△	HS-4		9'	6/25/22	SW-SM	well-graded sand with silt			

Client La Canada Unified School District

Project New Construction and Various Site Improvements

Paradise Canyon Elementary School

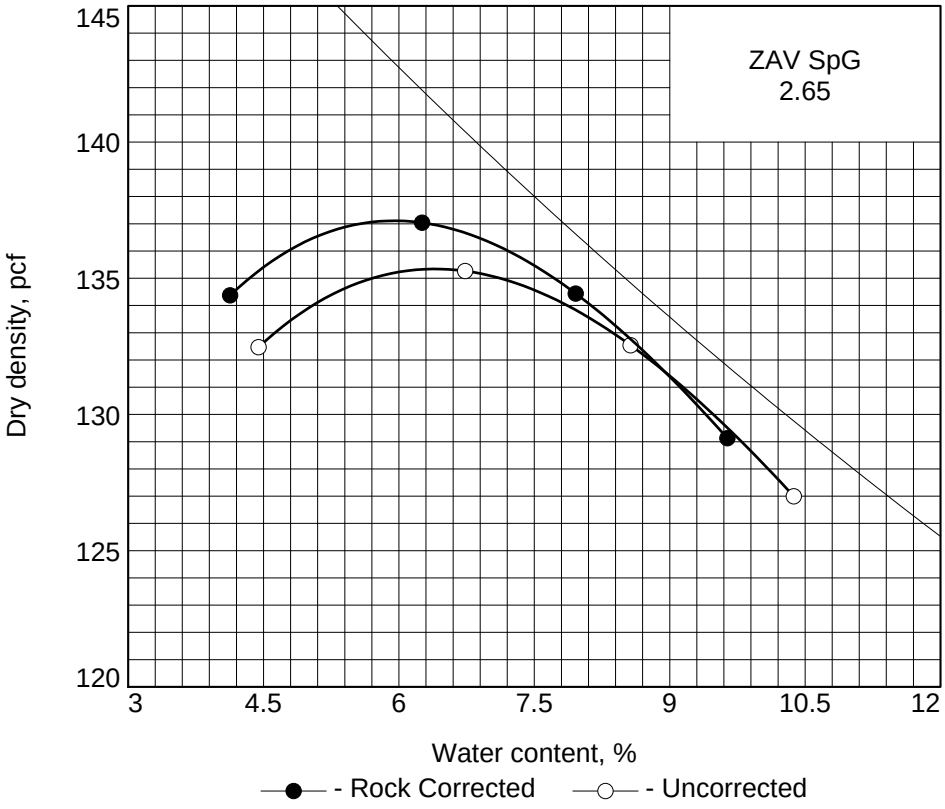
Project No. 22-2775-6 Figure B1

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ENGINEERING GEOLOGY, INC.

Valencia, California

COMPACTION TEST REPORT



Curve No.
A

Test Specification:
ASTM D 1557-12 Method A Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Preparation Method Moist
Hammer Wt. 10 lb.
Hammer Drop 18 in.
Hammer Type: automatic
Layers five **Blows/Layer** 25
Mold Size 0.03333 cu. ft.

Test Performed on Material Passing #4 **Sieve**

NM **LL** **PI**
Sp.G. (assumed): 2.65
%>#4 7.1 **%<No.200** 16.0
USCS SM **AASHTO**
Date Sampled 6/25/22
Date Received 6/25/22
Date Tested 6/28/22
Tested By E. Parr

TESTING DATA	1	2	3	4	5	6
WM + WS	8.97	9.17	9.15	9.03		
WM	4.36	4.36	4.36	4.36		
WW + T #1	872.7	936.5	808.8	826.2		
WD + T #1	836.8	879.3	748.6	751.5		
TARE #1	30.0	29.7	47.1	31.9		
WW + T #2						
WD + T #2						
TARE #2						
MOISTURE	4.1	6.3	8.0	9.6		
DRY DENSITY	134.4	137.0	134.4	129.1		

ROCK CORRECTED TEST RESULTS

Maximum dry density = 137.1 pcf

Optimum moisture = 5.9 %

Material Description

Brown, silty SAND

Remarks:
50/50 mix HS-2 @ 1-6' and HS-5 @ 1-6'

Project No. 22-2775-6 **Client:** La Canada Unified School District
Project: New Construction and Various Site Improvements
Paradise Canyon Elementary School
○ **Source of Sample:** HS-2 **Depth:** 1-6'

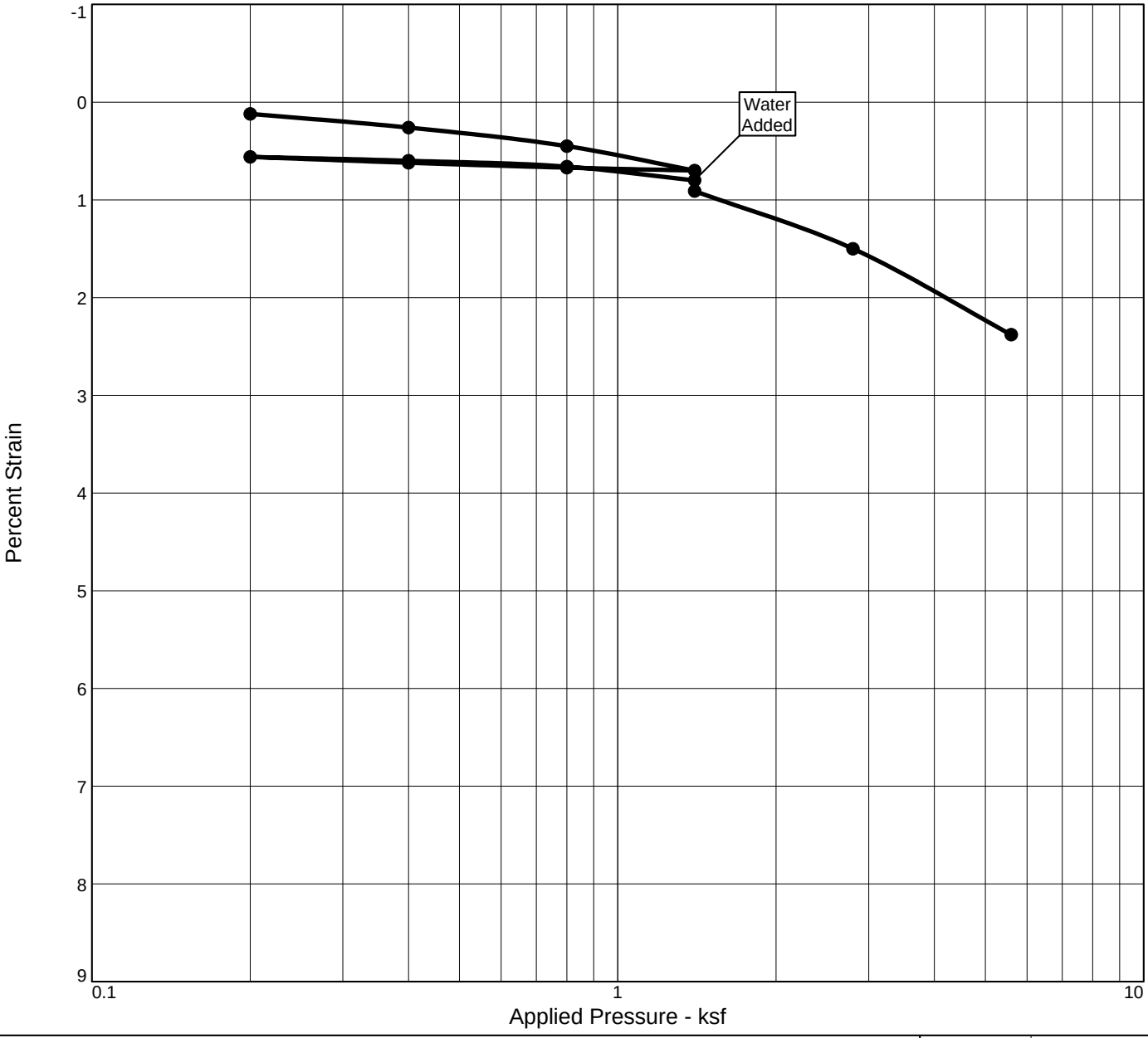
Checked by: K. Callahan
Title: Geotechnical Engineer

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Valencia, California

Figure B2

SWELL/CONSOLIDATION TEST REPORT



MATERIAL DESCRIPTION	USCS	AASHTO
Poorly-graded sand	SP	

LL	PI	Sp. Gr.	Overburden (ksf)	Dry Dens. (pcf)		Moisture		Saturation		Void Ratio		P_c (ksf)	C_c
				Init.	Final	Init.	Final	Init.	Final	Init.	Final		
		2.65	0.36	107.4	110.0	3.4 %	19.0	16.5 %	100.0	0.540	0.503	2.9	0.05

Preparation Process: Tested directly in a ring from a ring lined sampler

Condition of Test: Method B; Inundated with distilled water at 1,400 psf

D2435 Method	C_r	Swell Press. (ksf)	Clpse. %
D4546			0.1

Project No. 22-2775-6 **Client:** La Canada Unified School District

Project: New Construction and Various Site Improvements
Paradise Canyon Elementary School

Source of Sample: HS-1 **Depth:** 3'

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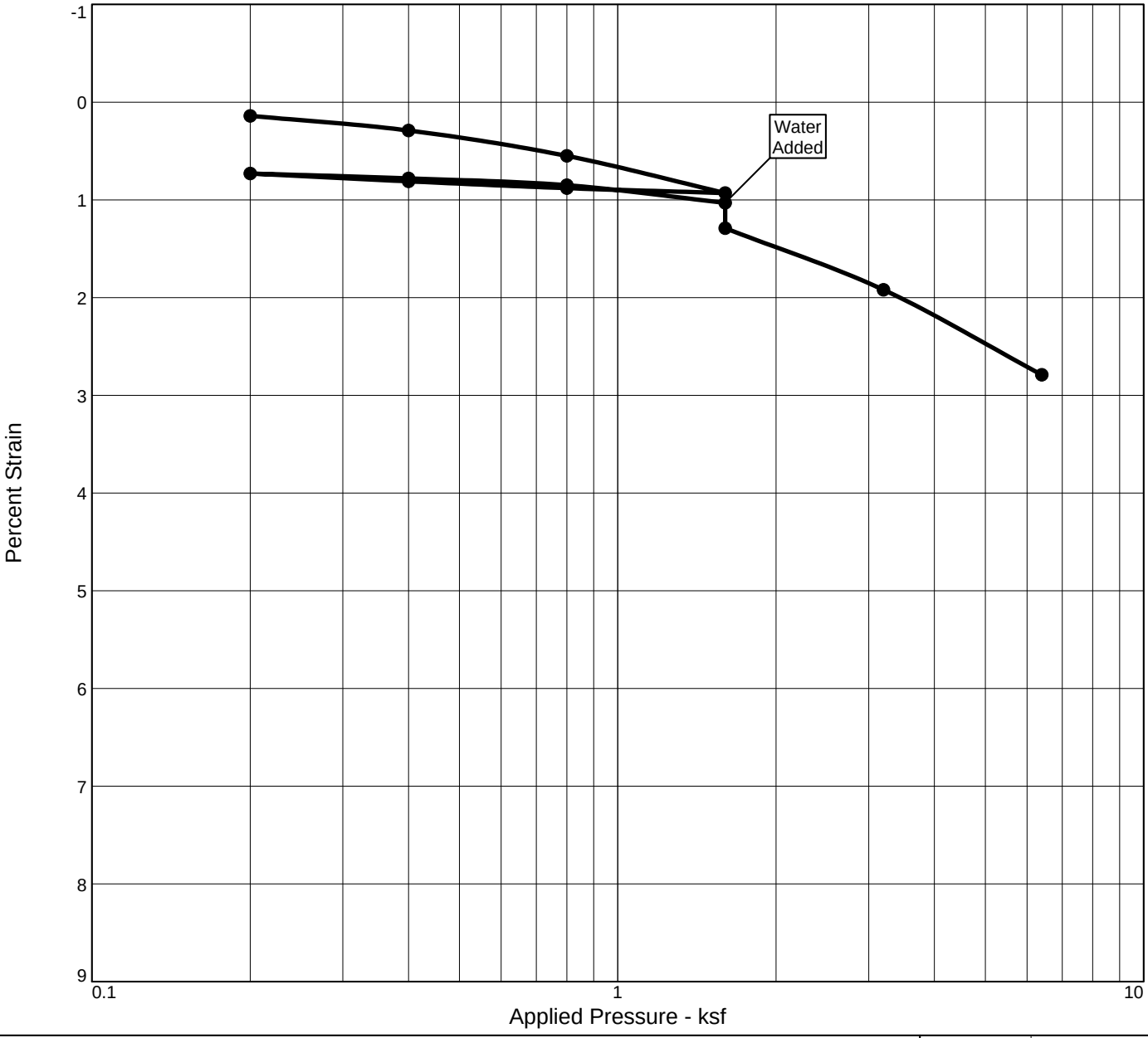
Remarks:
Artificial fill (af)
% Fines = 3.8

Checked By: K. Callahan

Title: Geotechnical Engineer

Figure B3.1

SWELL/CONSOLIDATION TEST REPORT



MATERIAL DESCRIPTION	USCS	AASHTO
Poorly graded sand with silt	SP-SM	

LL	PI	Sp. Gr.	Overburden (ksf)	Dry Dens. (pcf)		Moisture		Saturation		Void Ratio		P_c (ksf)	C_c
				Init.	Final	Init.	Final	Init.	Final	Init.	Final		
		2.65	1.08	110.7	113.9	4.2 %	17.1	22.7 %	100.0	0.495	0.453	3.3	0.04

Preparation Process: Tested directly in a ring from a ring lined sampler

Condition of Test: Method B; Inundated with distilled water at 1,600 psf

D2435 Method	C_r	Swell Press. (ksf)	Clpse. %
D4546			0.3

Project No. 22-2775-6 **Client:** La Canada Unified School District

Project: New Construction and Various Site Improvements
Paradise Canyon Elementary School

Source of Sample: HS-2 **Depth:** 9'

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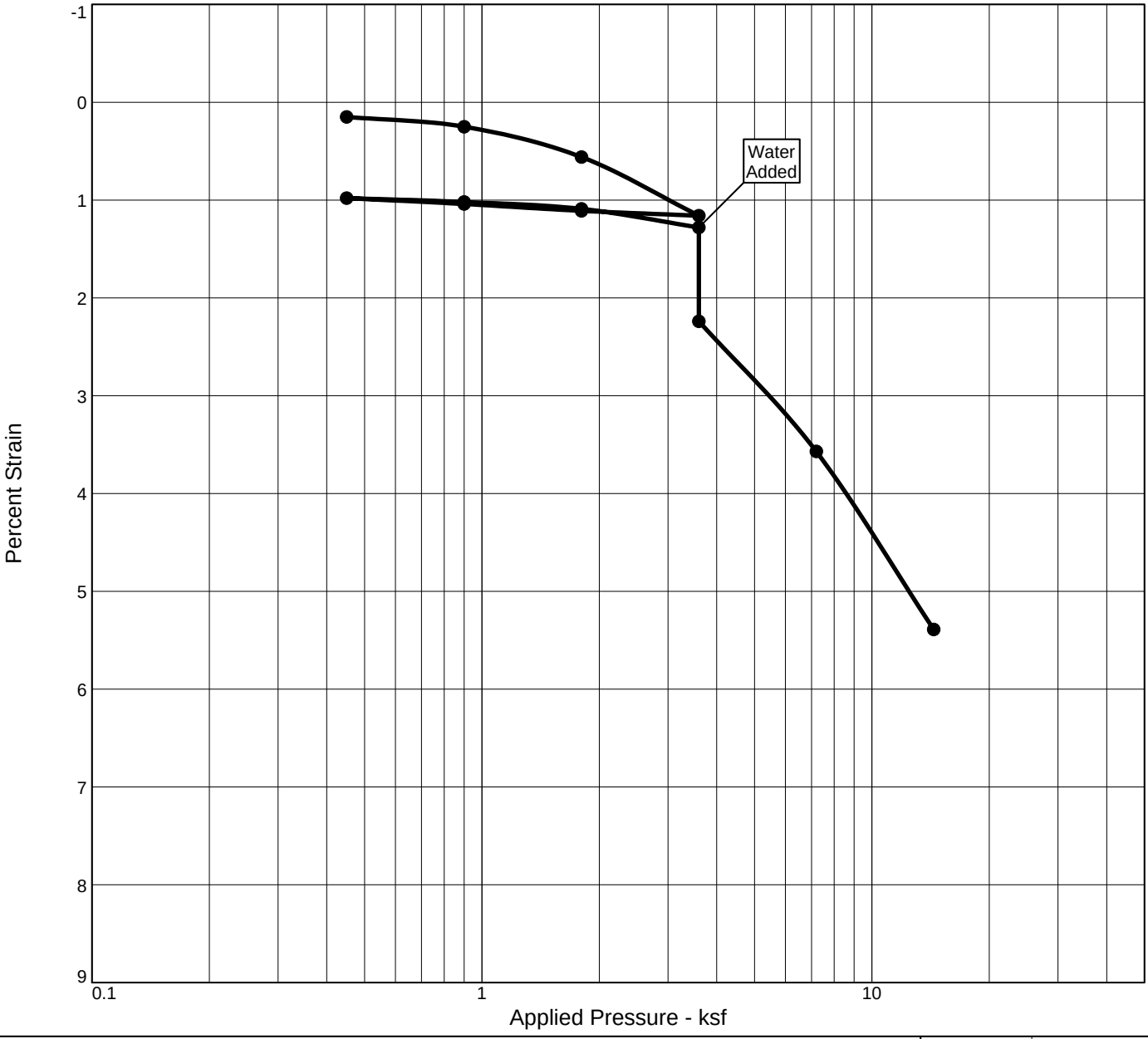
Remarks:
Alluvium (Qal)
% Fines = 7.9

Checked By: K. Callahan

Title: Geotechnical Engineer

Figure B3.2

SWELL/CONSOLIDATION TEST REPORT



MATERIAL DESCRIPTION	USCS	AASHTO
Poorly graded sand with silt	SP-SM	

LL	PI	Sp. Gr.	Overburden (ksf)	Dry Dens. (pcf)		Moisture		Saturation		Void Ratio		P_c (ksf)	C_c
				Init.	Final	Init.	Final	Init.	Final	Init.	Final		
		2.65	3.6	107.2	113.3	3.9 %	17.4	18.9 %	100.0	0.543	0.460	7.4	0.09

Preparation Process: Tested directly in a ring from a ring lined sampler

Condition of Test: Method B; Inundated with distilled water at 3,600 psf

D2435 Method	C_r	Swell Press. (ksf)	Clpse. %
D4546			1.0

Project No. 22-2775-6 **Client:** La Canada Unified School District

Project: New Construction and Various Site Improvements
Paradise Canyon Elementary School

Source of Sample: HS-5 **Depth:** 30'

Remarks:
Alluvium (Qal)
% Fines = 9.0

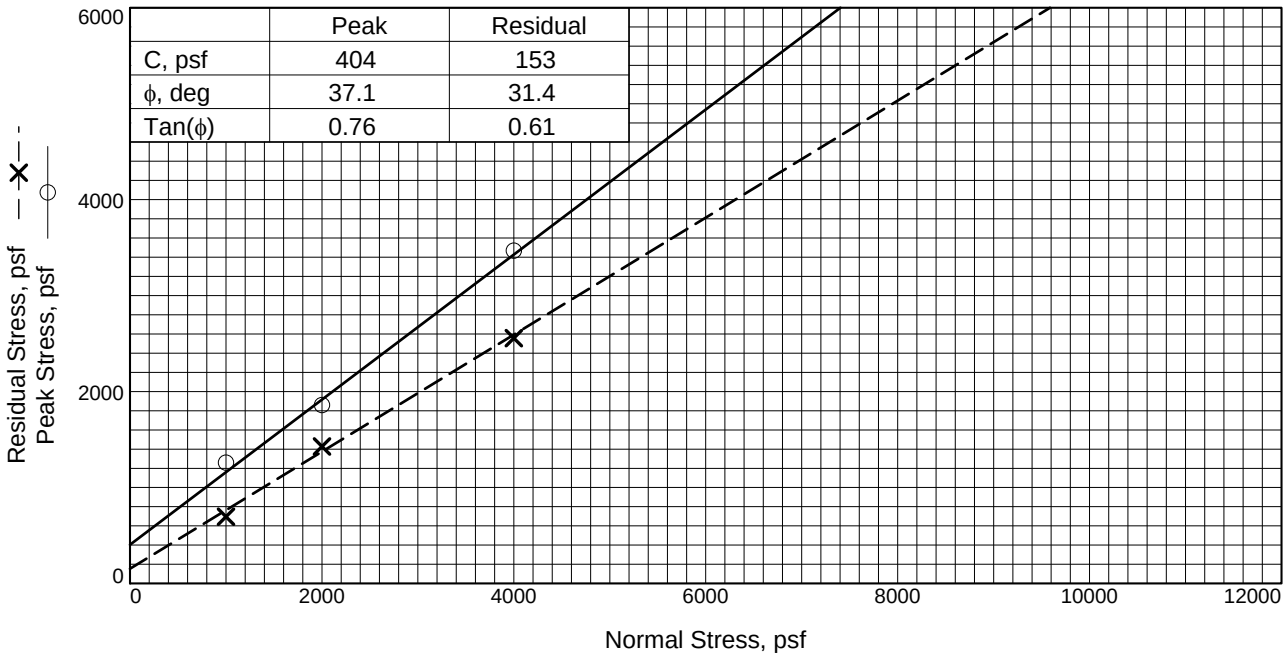
Checked By: K. Callahan

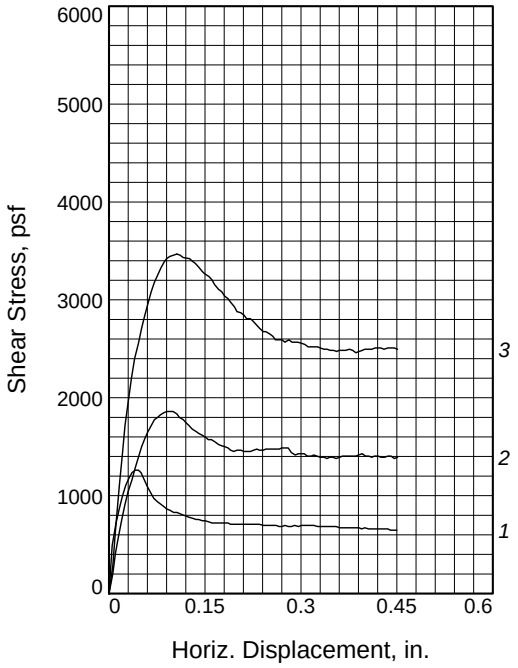
Title: Geotechnical Engineer

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Valencia, California

Figure B3.3





Sample No.		1	2	3
Initial	Water Content, %	9.5	7.1	5.4
	Dry Density, pcf	119.5	114.0	115.2
	Saturation, %	65.7	41.7	32.7
	Void Ratio	0.3847	0.4506	0.4365
	Diameter, in.	2.42	2.42	2.42
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	14.3	16.2	14.9
	Dry Density, pcf	119.9	115.7	118.6
	Saturation, %	100.0	100.0	100.0
	Void Ratio	0.3797	0.4293	0.3950
	Diameter, in.	2.42	2.42	2.42
	Height, in.	1.00	0.99	0.97
Normal Stress, psf		1000	2000	4000
Peak Stress, psf		1260	1860	3468
Displacement, in.		0.04	0.09	0.11
Residual Stress, psf		696	1428	2556
Displacement, in.		0.30	0.30	0.30
Strain rate, in./min.		0.010	0.010	0.010

Sample Type: Modified California Drive
Description: Medium-brown, silty, clayey sand with scattered gravel

Assumed Specific Gravity= 2.65
Remarks: Artificial Fill (af)
% Fines = 31.8

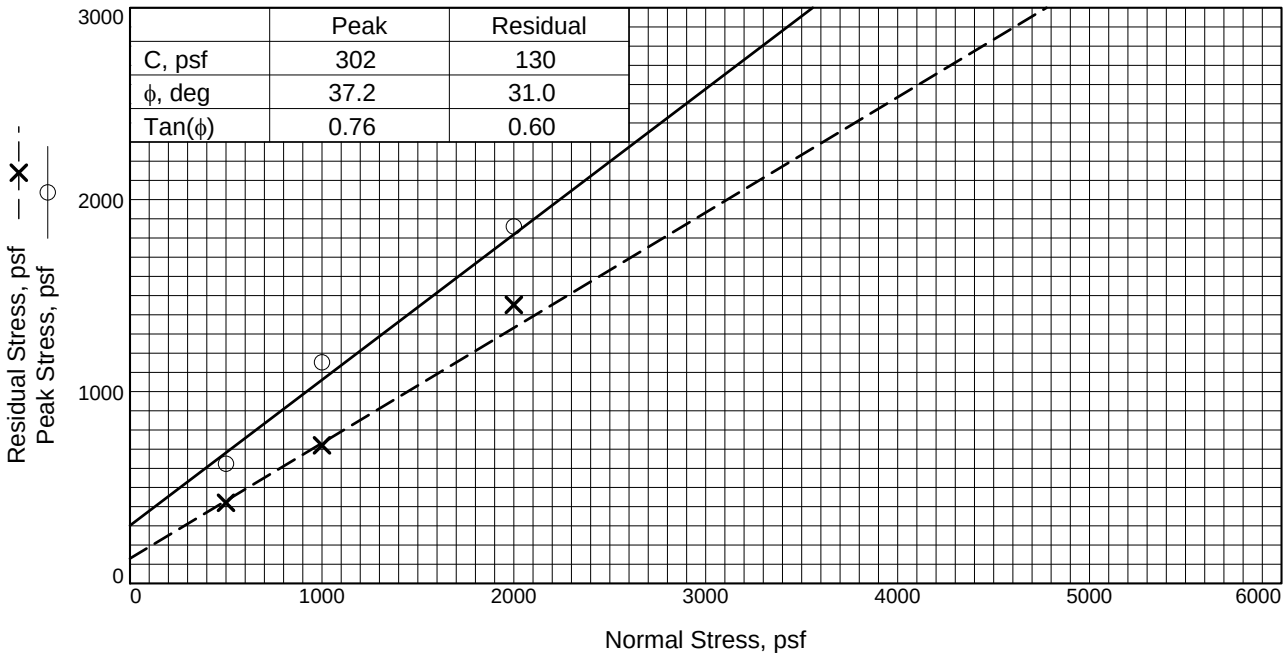
Figure B4.1

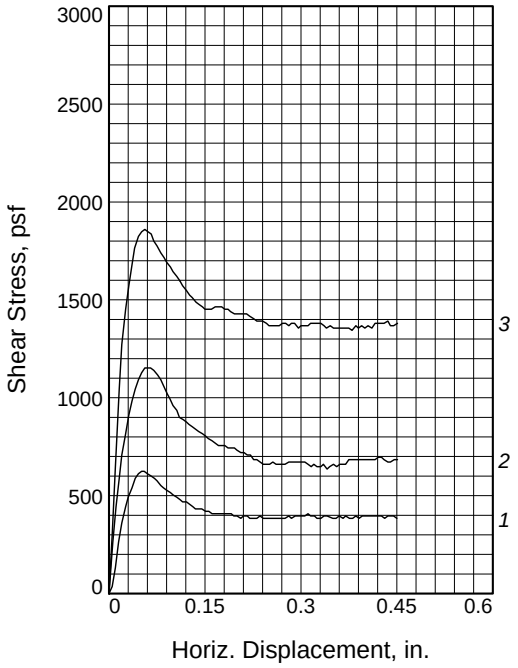
Client: La Canada Unified School District

Project: New Construction and Various Site Improvements
Paradise Canyon Elementary School
Source of Sample: HS-3 **Depth:** 6'

Proj. No.: 22-2775-6 **Date Sampled:** 6/25/22

DIRECT SHEAR TEST REPORT
ALLAN E. SEWARD ENGINEERING GEOLOGY, INC.
Valencia, California





Sample No.		1	2	3
Initial	Water Content, %	6.8	6.9	6.9
	Dry Density, pcf	124.5	124.4	124.4
	Saturation, %	54.6	55.6	55.8
	Void Ratio	0.3292	0.3298	0.3293
	Diameter, in.	2.42	2.42	2.42
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	12.0	12.1	12.0
	Dry Density, pcf	125.5	125.2	125.5
	Saturation, %	100.0	100.0	100.0
	Void Ratio	0.3185	0.3209	0.3183
	Diameter, in.	2.42	2.42	2.42
	Height, in.	0.99	0.99	0.99
Normal Stress, psf		500	1000	2000
Peak Stress, psf		624	1152	1860
Displacement, in.		0.05	0.06	0.06
Residual Stress, psf		420	720	1452
Displacement, in.		0.15	0.21	0.15
Strain rate, in./min.		0.010	0.010	0.010

Sample Type: Remold
Description: Medium-brown, silty sand

Assumed Specific Gravity= 2.65
Remarks: Future compacted fill
% Fines = 16.0

Figure B4.2

Client: La Canada Unified School District

Project: New Construction and Various Site Improvements
Paradise Canyon Elementary School
Location: Mixture of HS-2 & HS-5 at 1-6'
Sample Number: A
Proj. No.: 22-2775-6 **Date Sampled:** 6/25/22

DIRECT SHEAR TEST REPORT
ALLAN E. SEWARD ENGINEERING GEOLOGY, INC.
Valencia, California

Appendix C

APPENDIX C

GROUND MOTION AND RESPONSE SPECTRA REFERENCES

American Society of Civil Engineers, 2016, Minimum Design Loads and Associated Criteria for Buildings and Other Structures (ASCE/SEI 7-16), provisions and commentary.

Structural Engineers Association of California (SEAOC), OSHPD Seismic Design Maps web application, https://seismicmaps.org/

U.S. Geological Survey, Quaternary Faults and Folds in the U.S., Google Earth .kmz file, https://www.usgs.gov/natural-hazards/earthquake-hazards/google-earth-kml-files



EXPLANATION

- Historic (< 150 years), well constrained location
- Historic (< 150 years), moderately constrained location
- Historic (< 150 years), inferred location
- Latest Quaternary (<15,000 years), well constrained location
- Latest Quaternary (<15,000 years), moderately constrained location
- Latest Quaternary (<15,000 years), inferred location
- Late Quaternary (< 130,000 years), well constrained location
- Late Quaternary (< 130,000 years), moderately contrained location
- Late Quaternary (< 130,000 years), inferred location

APPROXIMATE LOCATION OF SUBJECT SITE

SOURCE; U.S. GEOLOGICAL SURVEY INTERACTIVE FAULT MAP - QUATERNARY FAULTS

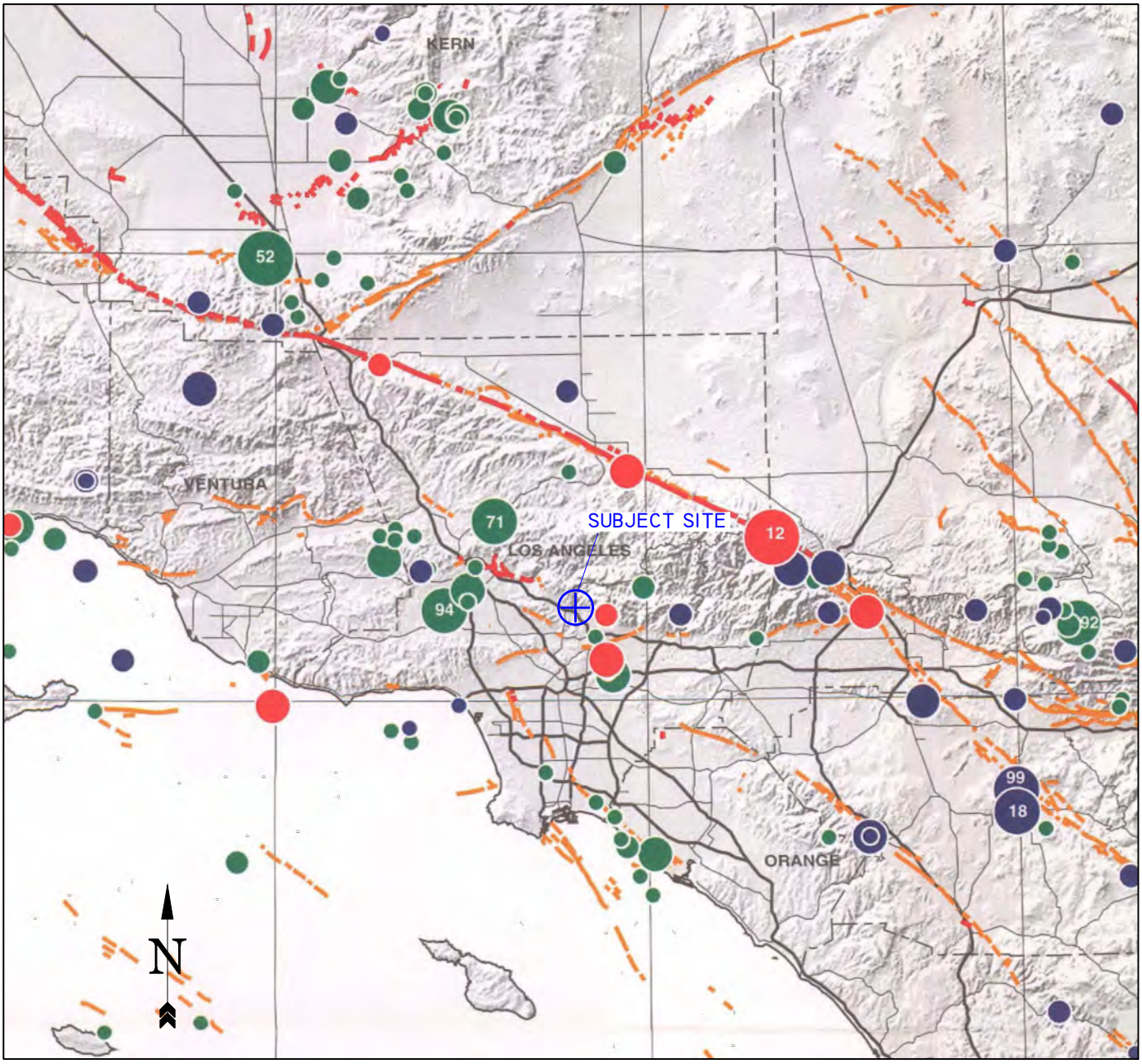
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Geological And Geotechnical Consultants

QUATERNARY FAULT LOCATION MAP

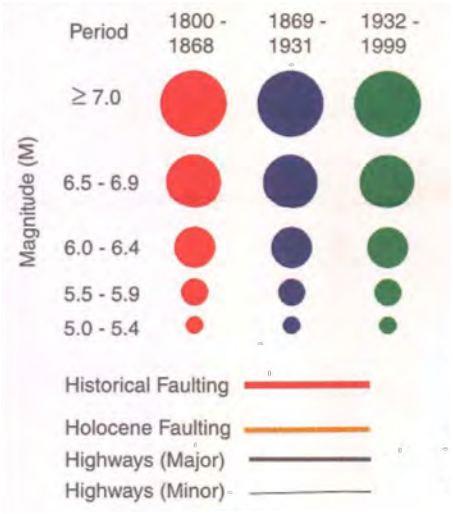
JOB NO.: 23-2775-6

DATE: 1/13/23

FIGURE: C1



EPICENTER MAP LEGEND



Lakes

65 — Last two digits of M ≥ 6.5 earthquake year

0 — 15 MI — 30 MI

20 KM — 48 KM

APPROXIMATE SCALE

SOURCE; CALIFORNIA GEOLOGIC SURVEY, EPICENTERS AND AREAS DAMAGED BY M≥5 CALIFORNIA EARTHQUAKES, 1800-1999 BY T. TOPPOZADA, D. BRANUM, M. PETERSON, C. HALLSTROM, C. CRAMER, M. REICHLE, 2000

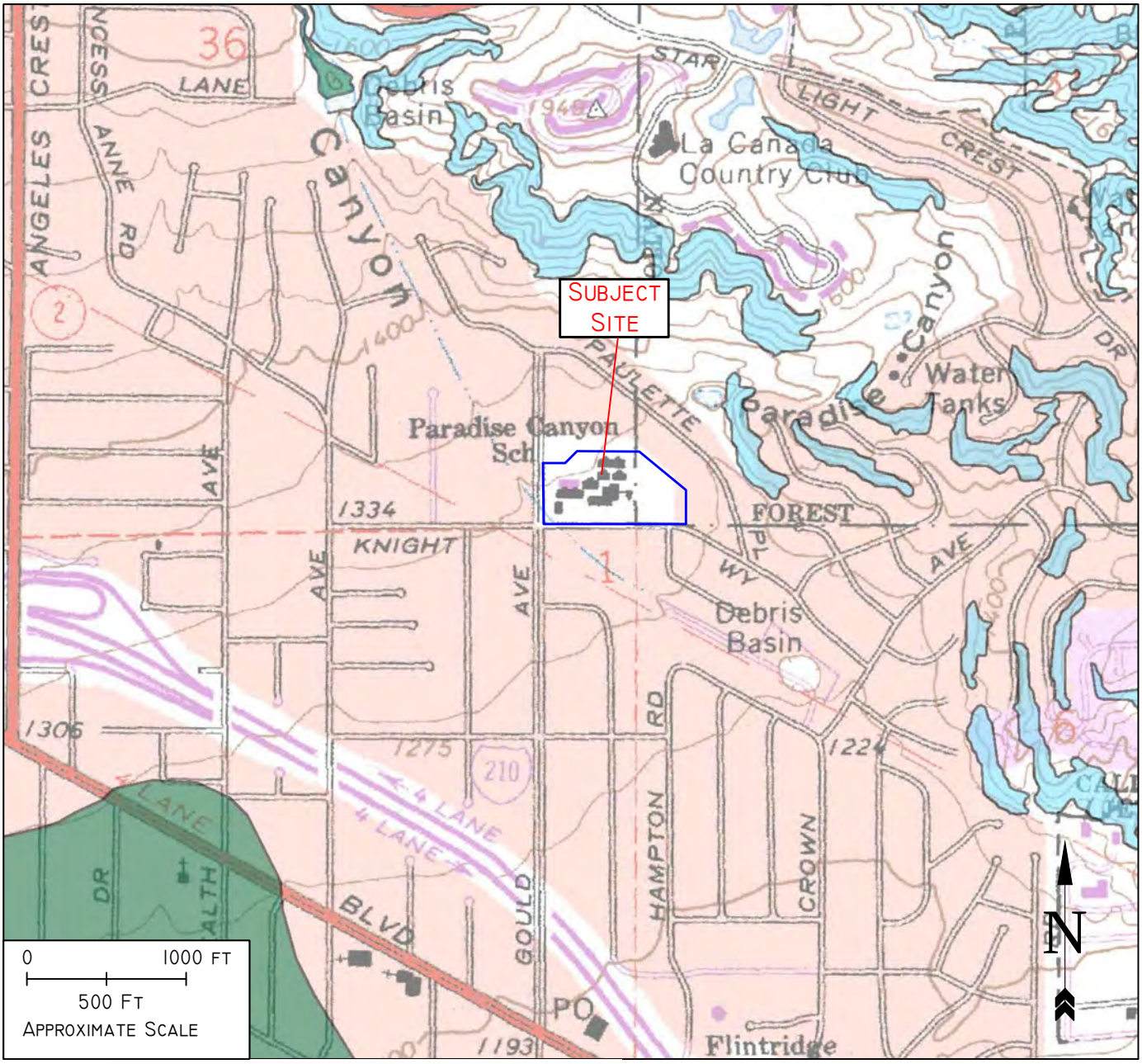
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EQ EPICENTER LOCATION MAP

JOB NO.: 23-2775-6

DATE: 1/13/23

FIGURE: C2



This Map Shows Seismic Hazard Zones Alquist-Priolo Earthquake Fault Zones Have Not Been Prepared For The Pasadena Quadrangle

SOURCE; CALIFORNIA GEOLOGIC SURVEY

PASADENA QUADRANGLE

SEISMIC HAZARD ZONES

Delineated in compliance with Chapter 7.8 Division 2 of the California Public Resources Code *(Seismic Hazards Mapping Act)*

OFFICIAL MAP

Released: March 25, 1999

MAP EXPLANATION

SEISMIC HAZARD ZONES

Liquefaction Zones
Areas where historical occurrence of liquefaction, or local geological, geotechnical and ground water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

Earthquake-Induced Landslide Zones
Areas where previous occurrence of landslide movement, or local topographic, geological, geotechnical and subsurface water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

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EARTHQUAKE ZONES OF REQUIRED INVESTIGATION

JOB NO.: 22-2775-6

DATE: 1/13/23

FIGURE: C3

Paradise Cyn Elementary School

Latitude, Longitude: 34.20907, -118.18816



Date	7/24/2022, 2:40:36 PM
Design Code Reference Document	ASCE7-16
Risk Category	II
Site Class	D - Stiff Soil

Type	Value	Description
S_S	1.917	MCE_R ground motion. (for 0.2 second period)
S_1	0.719	MCE_R ground motion. (for 1.0s period)
S_{MS}	1.917	Site-modified spectral acceleration value
S_{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value
S_{DS}	1.278	Numeric seismic design value at 0.2 second SA
S_{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
F_a	1	Site amplification factor at 0.2 second
F_v	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	0.822	MCE_G peak ground acceleration
F_{PGA}	1.1	Site amplification factor at PGA
PGA_M	0.904	Site modified peak ground acceleration
T_L	8	Long-period transition period in seconds
SsRT	1.917	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	2.118	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	2.357	Factored deterministic acceleration value. (0.2 second)
S1RT	0.719	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.798	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	0.826	Factored deterministic acceleration value. (1.0 second)
PGAd	0.954	Factored deterministic acceleration value. (Peak Ground Acceleration)
C_{RS}	0.905	Mapped value of the risk coefficient at short periods
C_{R1}	0.901	Mapped value of the risk coefficient at a period of 1 s

Appendix D

APPENDIX D

RECOMMENDED EARTHWORK SPECIFICATIONS

The following specifications are recommended to provide a basis for quality control during the placement of compacted fill or backfill, as applicable.

1. Areas on which compacted fill will be placed shall be observed by Allan E. Seward Engineering Geology, Inc. (AESEGI) prior to the placement of fill.
2. All drainage devices shall be properly installed and observed by AESEGI and/or the owner's representative(s) prior to placement of backfill.
3. Fill soils shall consist of imported soils or on-site soils which are free of organics, cobbles, and deleterious material, provided that each material is approved by AESEGI. AESEGI shall evaluate and/or test the import material for its conformance with the report recommendations prior to its delivery to the site. The contractor shall notify AESEGI at least 72 hours prior to importing material to the site
4. The thickness of the controlled lifts in which Fill is placed shall be compatible with the type of compaction equipment used. The fill materials shall be brought to Optimum Moisture Content or above, thoroughly mixed during spreading to obtain a near uniform water content and a uniform blend of materials, and then placed in lifts with a pre-compaction thickness not exceeding 8 inches. Each lift shall be compacted to the specified percentage of Maximum Dry Density determined in accordance with ASTM Test Method D1557. Density testing shall be performed by AESEGI to verify relative compaction. The contractor shall provide proper access and level areas for testing.
5. Rocks or rock fragments less than eight (8) inches in the largest dimension may be utilized in the fill, provided they are not placed in concentrated pockets. However, rocks larger than four (4) inches in dimension shall not be placed within three (3) ft of finish grade.
6. Rocks greater than eight (8) inches in largest dimension shall be taken offsite, or placed in areas designated by the Geotechnical Engineer to be suitable for rock disposal.
7. Where space limitations do not allow for conventional fill compaction operations, special backfill materials and procedures may be required. Pea gravel or other select fill can be used in areas of limited space. A sand and Portland Cement slurry (2 sacks per cubic-yard of slurry mix) shall be used in limited space areas for shallow backfill near final pad grade, and pea gravel shall be placed in deeper backfill near drainage systems.
8. AESEGI shall observe the placement of fill and conduct in-place field density tests on the compacted fill in order to check adequacy of in-situ water content and relative compaction.

APPENDIX D

Where measured in-situ density of compacted fill soil is lower than the required relative compaction, the soil shall be water-conditioned and recompacted until adequate relative compaction is achieved.

9. The Contractor shall achieve with the specified relative compaction out to the finish slope face of fill slopes, buttresses, and stabilization fills, as set forth in the specifications for compacted fill. This may be achieved either by overbuilding the slope and cutting back as necessary, by direct compaction of the slope face with suitable equipment, or by other procedures which produce the required result.

10. Any abandoned underground structures such as cesspools, cisterns, mining shafts, tunnels, septic tanks, wells, pipelines, or others not discovered prior to grading are to be removed or treated to the satisfaction of the Geotechnical Engineer and/or the controlling agency for the project.

11. The Contractor shall have suitable and sufficient equipment during a particular operation to handle the volume of fill being placed. When necessary, fill placement equipment shall be shut down temporarily in order to permit proper compaction of fill, correction of deficient areas, or to facilitate required field testing.

12. The Contractor shall be responsible for the satisfactory completion of all earthwork in accordance with the project plans and specifications.

13. Final reports shall be submitted after completion of earthwork and after the Geotechnical Engineer and Engineering Geologist have finished their observations of the work. No additional excavation or filling shall be performed without prior notification to the Geotechnical Engineer and/or Engineering Geologist.

14. Whenever the words “supervision”, “inspection”, or “control” are used, they shall mean observation of the work and/or testing of the compacted fill by AESEGI to assess whether substantial compliance with plans, specifications and design concepts has been achieved. However, these words do not refer to direction by AESEGI of the actual work of the Contractor or the Contractor’s workers.

APPENDIX D

RECOMMENDED SPECIFICATIONS FOR PLACEMENT OF TRENCH BACKFILL

1. Trench excavations in which backfill will be placed shall be free of trash, debris or other deleterious materials prior to backfill placement, and shall be observed by a representative of Allan E. Seward Engineering Geology, Inc. (AESEGI).

2. Except as stipulated herein, soils obtained from the excavation may be used as backfill if they are free of organics and other deleterious materials.

3. Rocks generated by trench excavation operations that do not exceed three (3) inches in largest dimension may be used as trench backfill material. However, material larger than 3-inches in dimension may not be placed within 12 inches of the top of pipes. No more than 30 percent of the backfill volume shall contain particles larger than 1-½ inches in dimension, and particles larger than 1-½ inches in dimension shall be well mixed with finer soil.

4. Clean aggregates with a Sand Equivalent (SE) greater than or equal to 30 (as determined by ASTM Standard Test Method D2419) or other soils authorized by the Geotechnical Engineer or his representative in the field, may be used for bedding and shading material in pipe trenches.

5. Trench backfill other than bedding and shading shall be compacted by mechanical methods as tamping sheepsfoot, vibrating or pneumatic rollers, or other mechanical tampers to achieve the specified density. The backfill materials shall be brought to Optimum Moisture Content or above, thoroughly mixed during spreading to obtain a near uniform water content and uniform blend of materials, and then placed in horizontal lifts with a pre-compaction thickness not exceeding 8 inches. Trench backfills shall be compacted to the specified percentage of Maximum Dry Density determined in accordance with ASTM Test Method D1557.

6. The Contractor shall select the equipment and procedure for achieving the specified density without damage to the pipe, the adjacent ground, existing improvements, or completed work.

7. Observations and field tests shall be performed during construction by AESEGI to confirm that the required degree of compaction has been achieved. Where achieved compaction is less than that specified value, the water content shall be adjusted as necessary and additional compactive effort shall be made until the specified compaction is achieved. Field density tests may be omitted at the discretion of the Geotechnical Engineer or his

APPENDIX D

representative in the field.

8. Whenever, in the opinion of AESEGI or the Owner's Representative(s), an unstable condition is being created either by cutting or filling, the work shall not proceed until an investigation has been made and the excavation plan has been revised, if deemed necessary.

9. Fill material shall not be placed, spread, or rolled during unfavorable weather conditions. When the work is interrupted by heavy rain, fill operations shall not be resumed until field tests by AESEGI indicate the water content and density of the fill materials and of the fill surface over which they are to be compacted satisfy the requirements of the specifications.

10. Whenever the words "supervision", "inspection", or "control" are used, they shall mean observation of the work and/or testing of the compacted fill by AESEGI to assess whether substantial compliance with plans, specifications and design concepts has been achieved.

APPENDIX D

DRAINAGE AND EROSION CONTROL RECOMMENDATIONS

Slopes and pads for this project shall be designed to direct surficial runoff away from structures and to reduce water-induced surficial erosion/sloughing. Permanent erosion control measures shall be initiated immediately following completion of grading. All constructed slopes will undergo some erosion when subjected to sustained water influx. To maintain appropriate long-term drainage and erosion control, the following points shall be incorporated in slope protection, landscaping, irrigation, and modifications to slopes, pads and structures:

1. All interceptor ditches, drainage terraces, down-drains and any other drainage devices shall be maintained and kept clear of debris. A qualified Engineer should review any proposed additions or revisions to these systems in order to evaluate their impact on slope erosion.
2. Retaining walls shall have adequate freeboard to provide a catchment area for minor slope erosion. Periodic inspection, and if necessary, cleanout of deposited soil and debris shall be performed, particularly during and after periods of rainfall.
3. The future developers shall be made aware of the **potential problems**, which may develop **when drainage is altered** by landscaping and/or by construction of retaining walls and paved walkways. Ponded water, water directed over slope faces, leaking irrigation systems, **over-watering,** or other conditions which could lead to excessive soil moisture, **must be avoided**.
4. Surficial slope soils may be subject to water-induced mass erosion. Therefore, a suitable proportion of slope planting shall have root systems which will extend well below three feet. We suggest consideration of drought-resistant shrubs and low trees for this purpose. Intervening areas can then be planted with lightweight surface plants with shallower root systems. All plants shall be lightweight and require low moisture. Any loose slough generated during planting of shrubs, trees, and other surface plants shall be removed from slope faces.
5. Construction delays, climate/weather conditions, and plant growth rates may necessitate additional short-term, non-plant erosion control measures such as matting, netting, plastic sheets, deep (5-ft) staking, etc.
6. Significant erosion can be initiated by seemingly insignificant events such as rodent burrowing, human trespass (footprints, etc.), small concentrations of uncontrolled surface/subsurface water, or poor compaction of utility trench backfill on slopes.
7. High and/or fluctuating water content in slope materials is a major factor in slope erosion

APPENDIX D

and/or slope failures. Therefore, all possible precautions shall be taken to maintain moderate and uniform soil moisture in soil and rock slopes. Slope irrigation systems shall be properly operated and maintained and irrigation system controls shall be placed under strict control.

EROSION CONTROL REFERENCES

1. "Slope Protection for Residential Developments", National Academy of Sciences, Washington D.C. (1969).

2. "Guide for Erosion and Debris Control in Hillside Areas", Department of Building and Safety, City of Los Angeles. (1970).

3. "Slope Stability Report", Orange County Department of Building and Safety (1973).

4. "Guides for Erosion and Sediment Control", Soil Conservation Service, Davis, California, U.S. Department of Agriculture (1977).

5. "Rain-Care and Protection of Hillside Homes", brochure undated, published by Building and Safety Division, Los Angeles County Engineer.

6. "Guidelines for Erosion and Sediment Control Planning and Implementation: Office of Research and Monitoring", U.S. Environmental Protection Agency (1972).

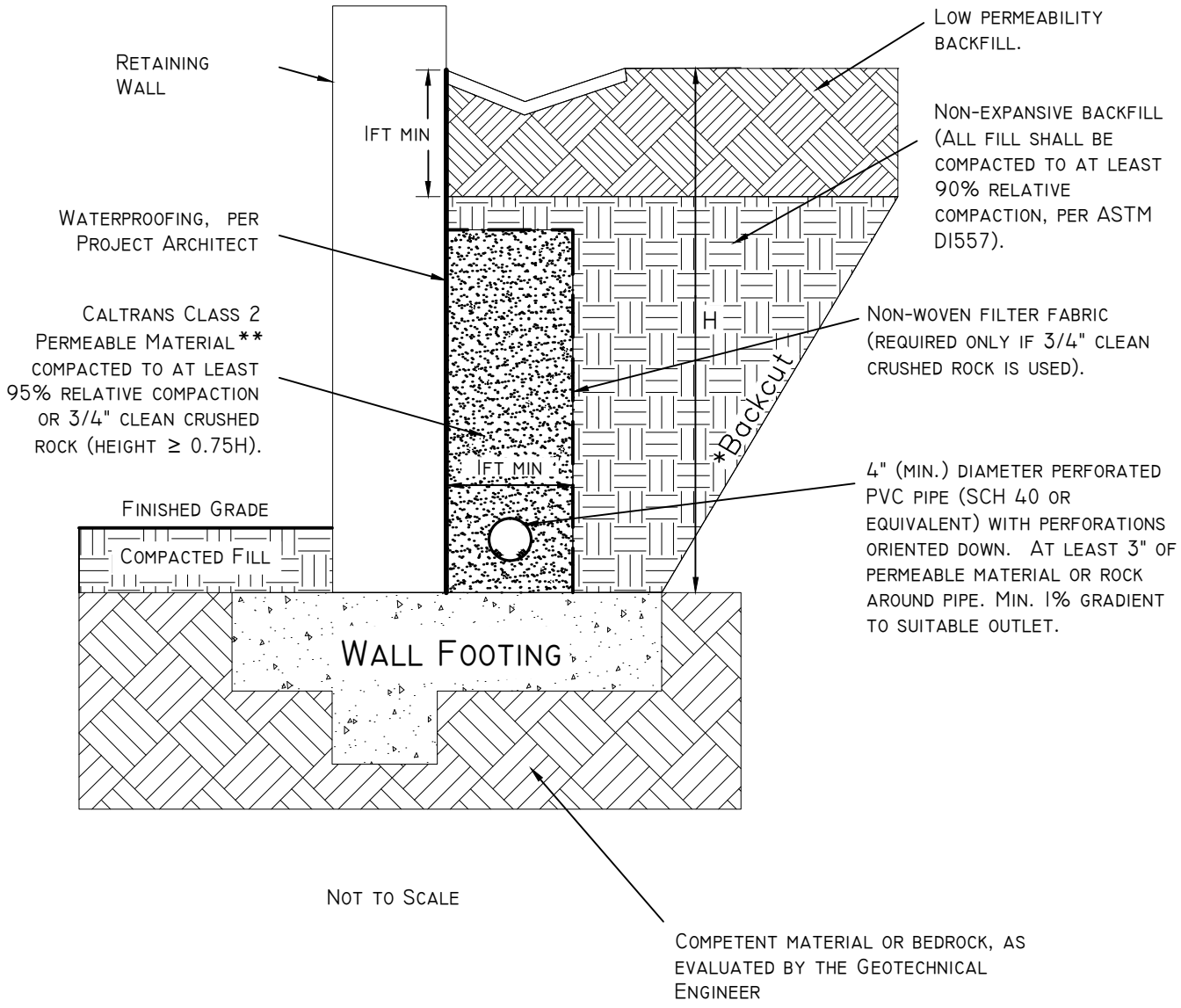
7. "Resource Conservation Glossary", Soil Conservation Society of America (1970).

8. "Standards and Specifications for Soil Erosion and Sediment Control Developing Areas", Soil Conservation Service, U.S. Department of Agriculture (1975).

9. "Homeowners Guide for Debris and Erosion Control", Los Angeles County Flood Control District (undated).

10. "Grading Guidelines (8 pages, stapled sheets)", Building and Safety Division, Department of County Engineer, County of Los Angeles (undated, but probably about 1977).

11. "Biotechnical Slope Protection and Erosion Control", Donald H. Gray and Andrew T. Leiser, Robert E. Krieger Publishing Company, Malabuv, Florida, 1989.



Not to Scale

**Specifications for Caltrans Class 2 Permeable Material

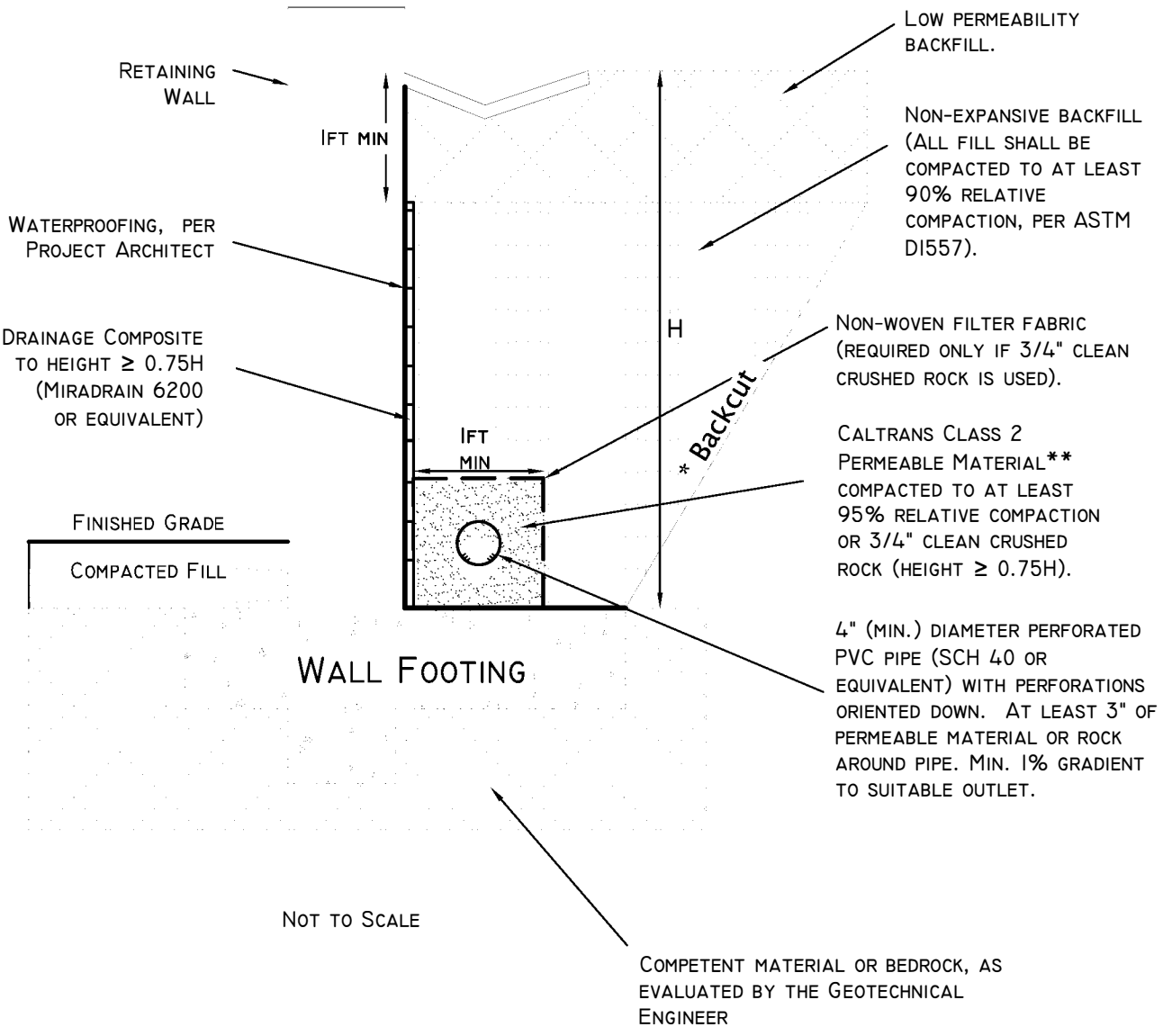
U.S. Standard Sieve Size	% Passing
1"	100
3/4"	90-100
3/8"	40-100
No. 4	25-40
No. 8	18-33
No. 30	5-15
No. 50	0-7
No. 200	0-3

Sand Equivalent >75

* All backcuts shall be in accordance with OSHA standards, unless site-specific backcut and backfill recommendations are made by this office.

Allan E. Seward
Engineering Geology, Inc.
Geological and Geotechnical Consultants

Retaining Wall Drainage Detail



Wall Footing

Not to Scale

**Specifications for Caltrans Class 2 Permeable Material

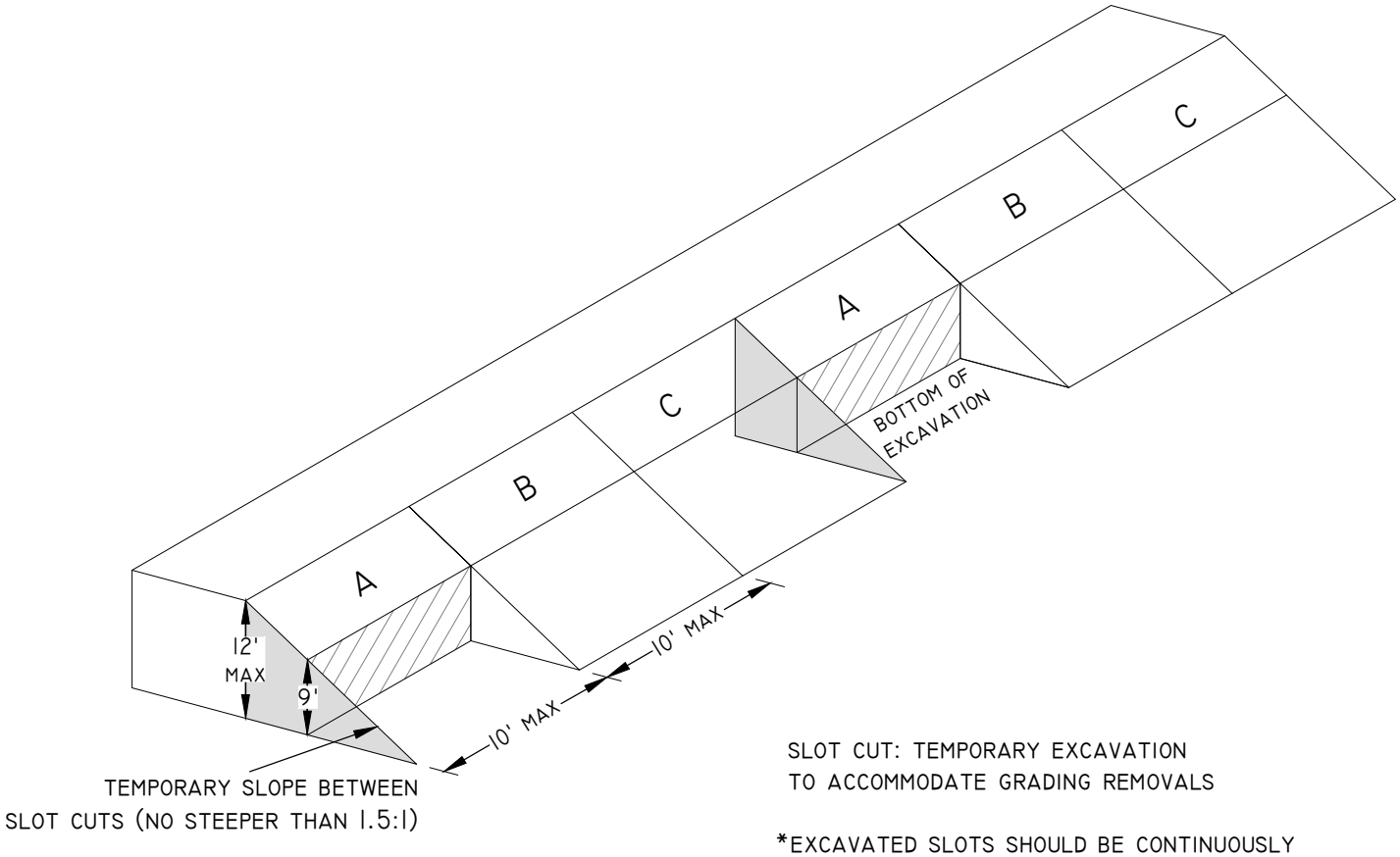
U.S. Standard Sieve Size	% Passing
1"	100
3/4"	90-100
3/8"	40-100
No. 4	25-40
No. 8	18-33
No. 30	5-15
No. 50	0-7
No. 200	0-3

Sand Equivalent >75

* All backcuts shall be in accordance with OSHA standards, unless site-specific backcut and backfill recommendations are made by this office.

Allan E. Seward
Engineering Geology, Inc.
Geologic and Geotechnical Consultants

Alternate Retaining Wall Drainage Detail



SLOT CUT: TEMPORARY EXCAVATION
TO ACCOMMODATE GRADING REMOVALS

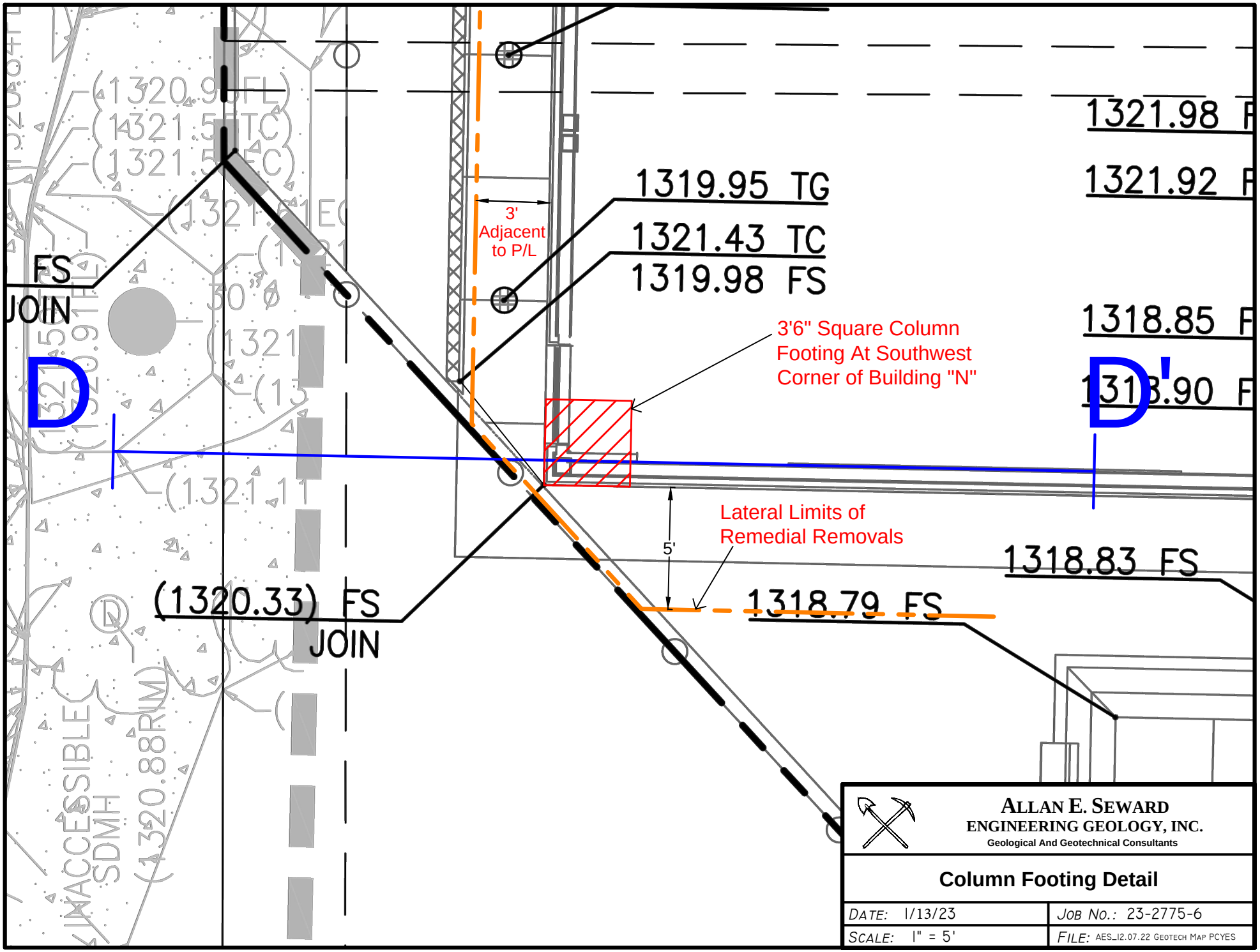
*EXCAVATED SLOTS SHOULD BE CONTINUOUSLY
OBSERVED BY A REPRESENTATIVE OF AESEGI

A-B-C Slot Cutting Sequence

1. THE AREA TO BE OVER-EXCAVATED SHOULD INITIALLY BE EXCAVATED AT AN INCLINATION NO STEEPER THAN 1.5:1 (H:V).
2. THEN, VERTICAL CUTS UP TO 9 FT IN HEIGHT SHOULD BE EXCAVATED DOWN TO THE REQUIRED REMOVAL BOTTOM AT THE LOCATIONS OF THE "A" SLOTS. THE WIDTH OF THE SLOTS SHOULD NOT EXCEED 10 FT. THE TOTAL EXCAVATION HEIGHT (9 FT. VERTICAL PLUS 1.5:1 SLOPE) SHOULD NOT EXCEED 12 FT.
3. THEN, THE "A" SLOTS SHOULD BE BACKFILLED WITH COMPACTED FILL, IN ACCORDANCE WITH THE GRADING RECOMMENDATIONS / SPECIFICATIONS PROVIDED IN THE REPORT.
4. THEN, THE "B" SLOTS SHOULD BE EXCAVATED AND BACKFILLED AS DESCRIBED ABOVE IN STEPS 2 AND 3.
5. THEN, THE "C" SLOTS SHOULD BE EXCAVATED AND BACKFILLED AS DESCRIBED ABOVE IN STEPS 2 AND 3.

ALLAN E. SEWARD
ENGINEERING GEOLOGY, INC.
Geological and Geotechnical Consultants

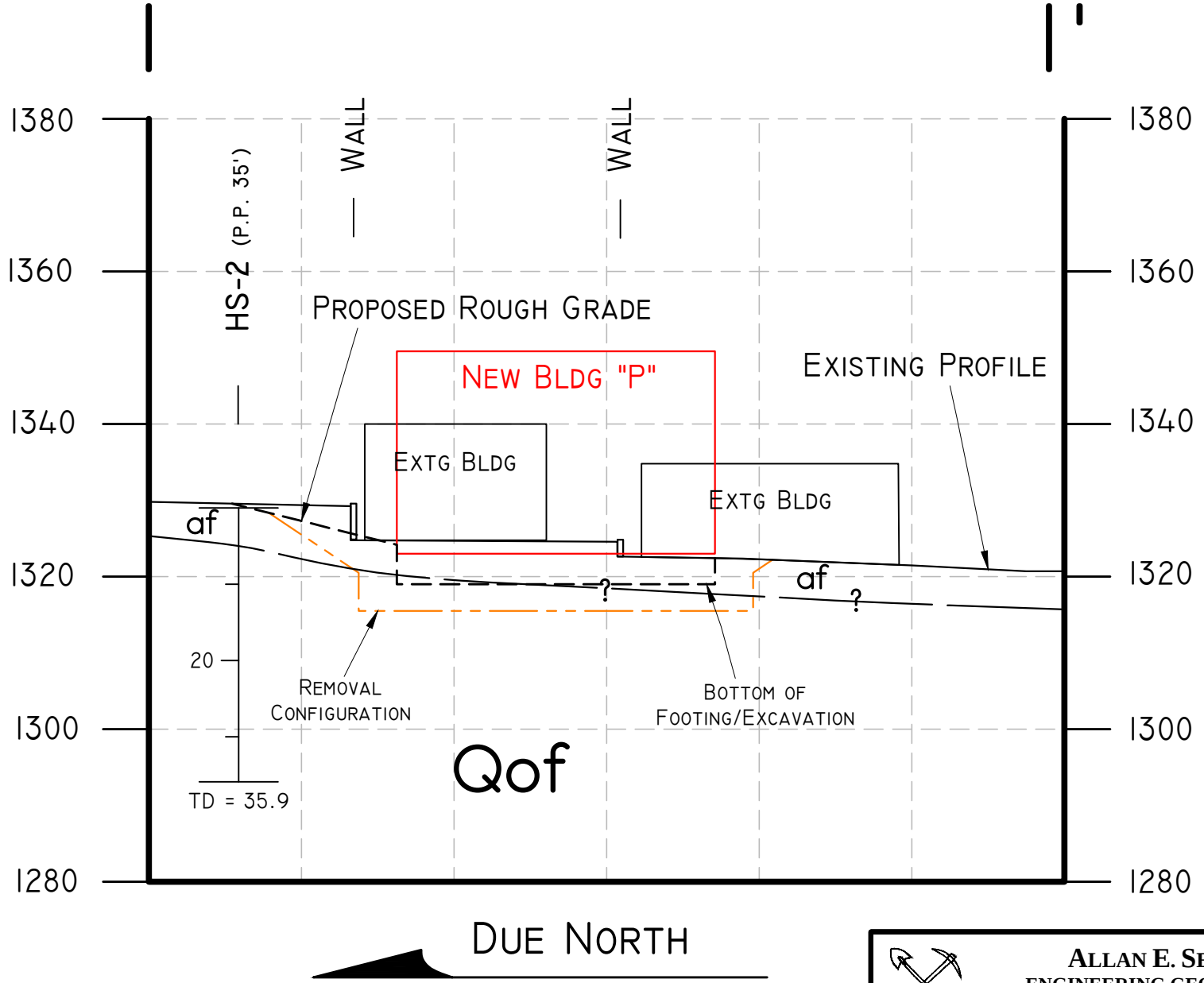
SLOT CUTTING PROCEDURE



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ENGINEERING GEOLOGY, INC.
Geological And Geotechnical Consultants

Column Footing Detail

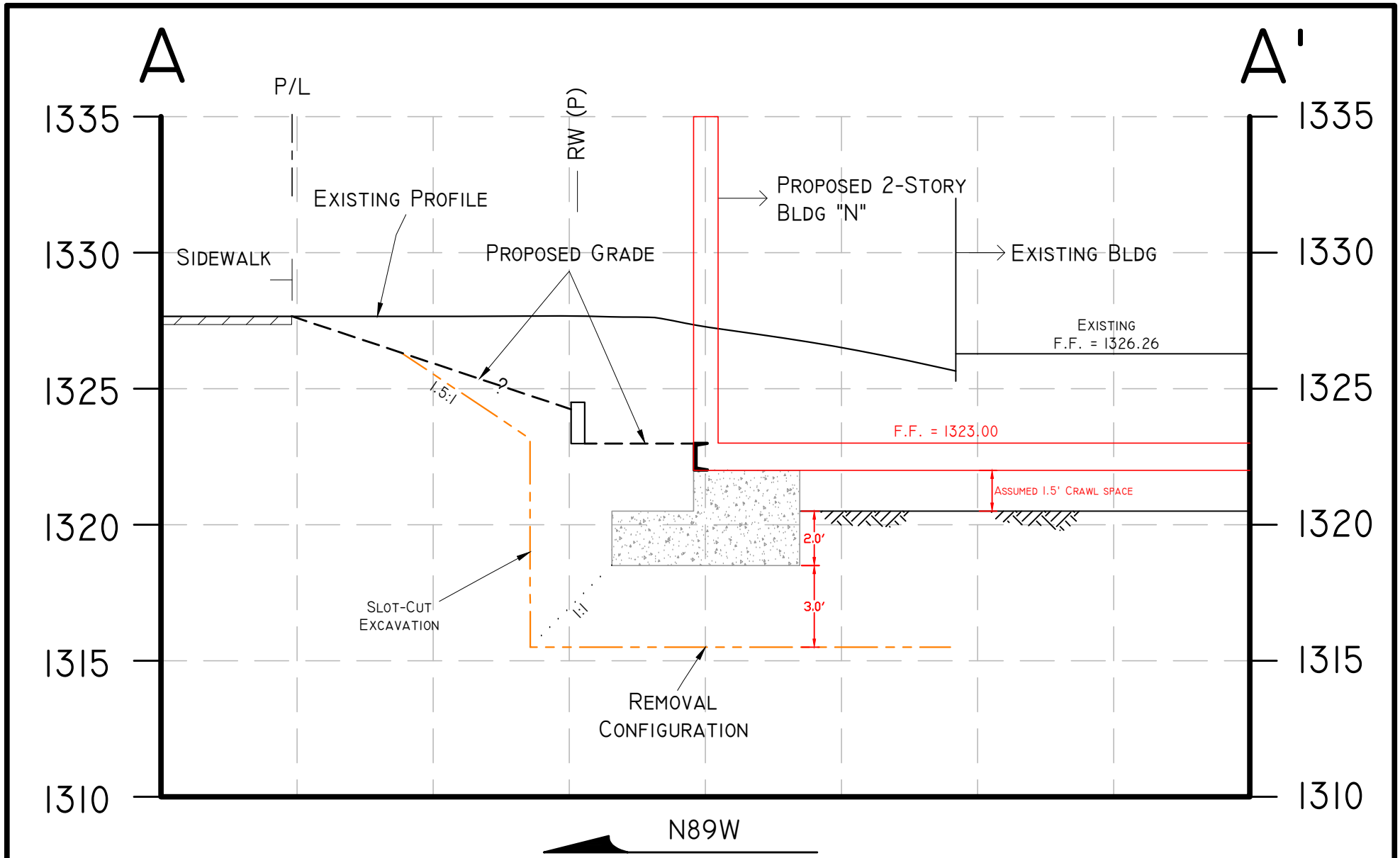
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SCALE: 1" = 5'	FILE: AES_12.07.22 GEOTECH MAP PCYES



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ENGINEERING GEOLOGY, INC.
Geological And Geotechnical Consultants

Cross Section 1-1'

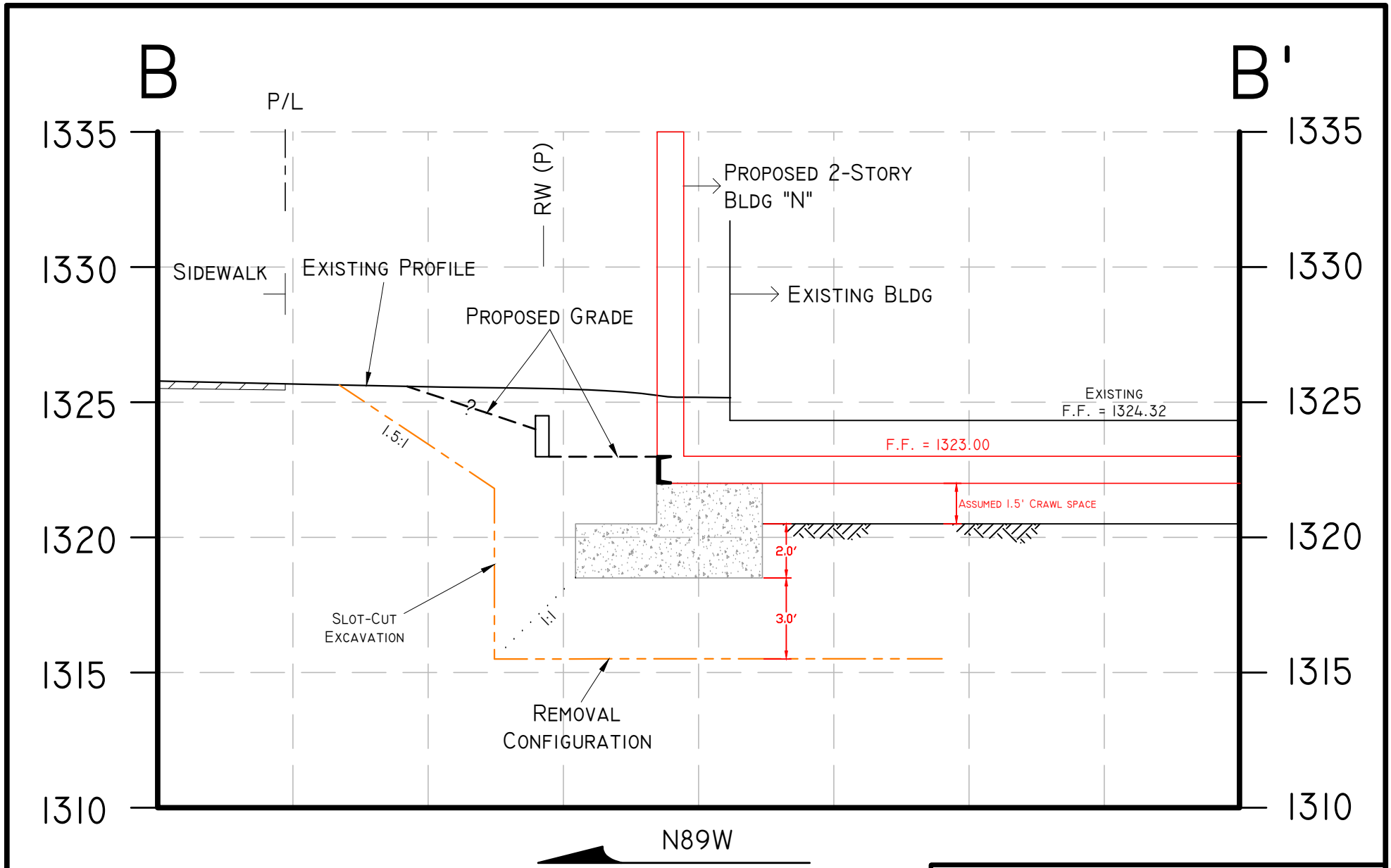
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SCALE: 1" = 20'	FILE: CROSS SECTIONS 1 AND 2



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Cross Section A-A'

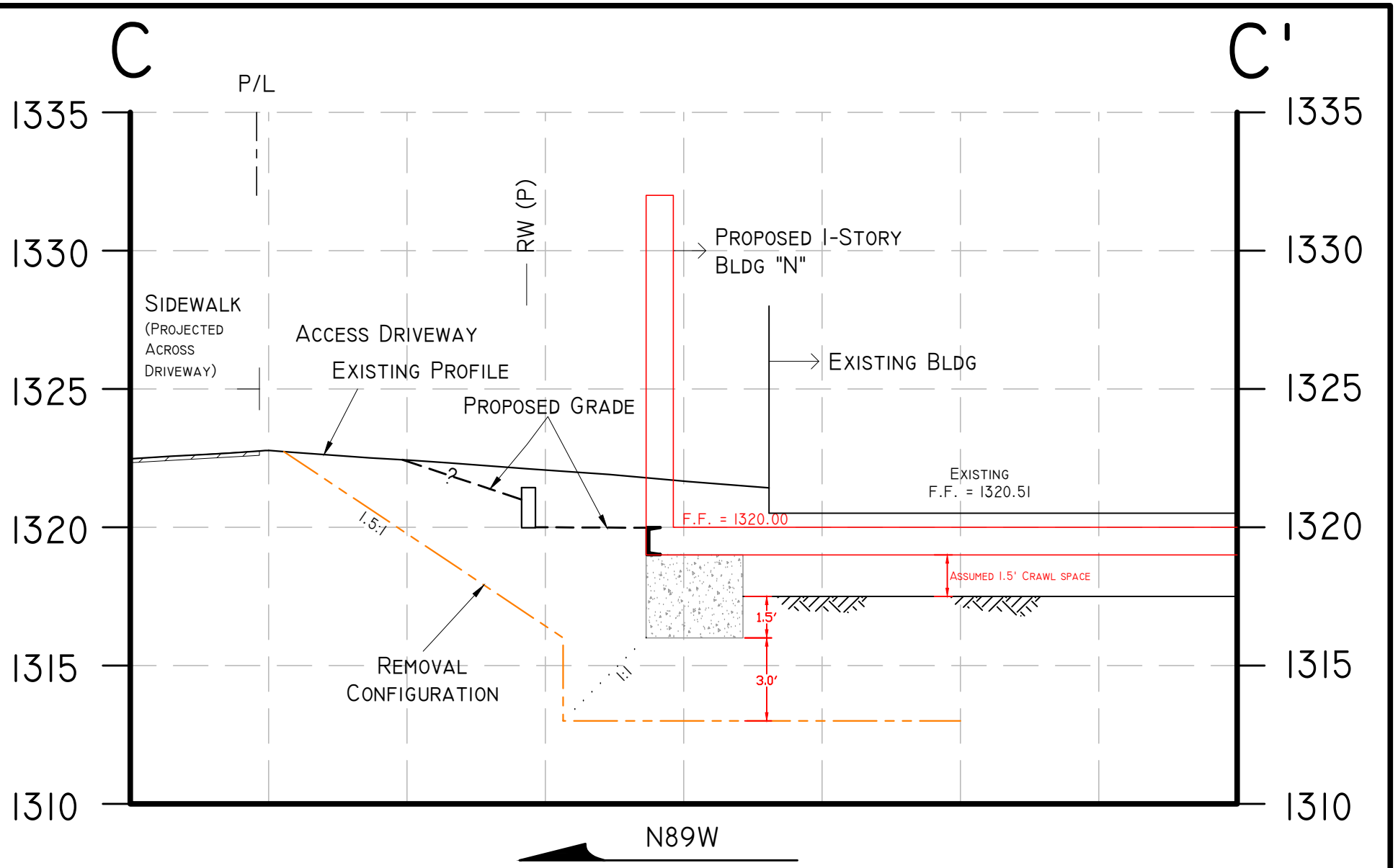
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SCALE: 1" = 5'	FILE: CROSS SECTIONS LETTER DESIGNATIONS



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Cross Section B-B'

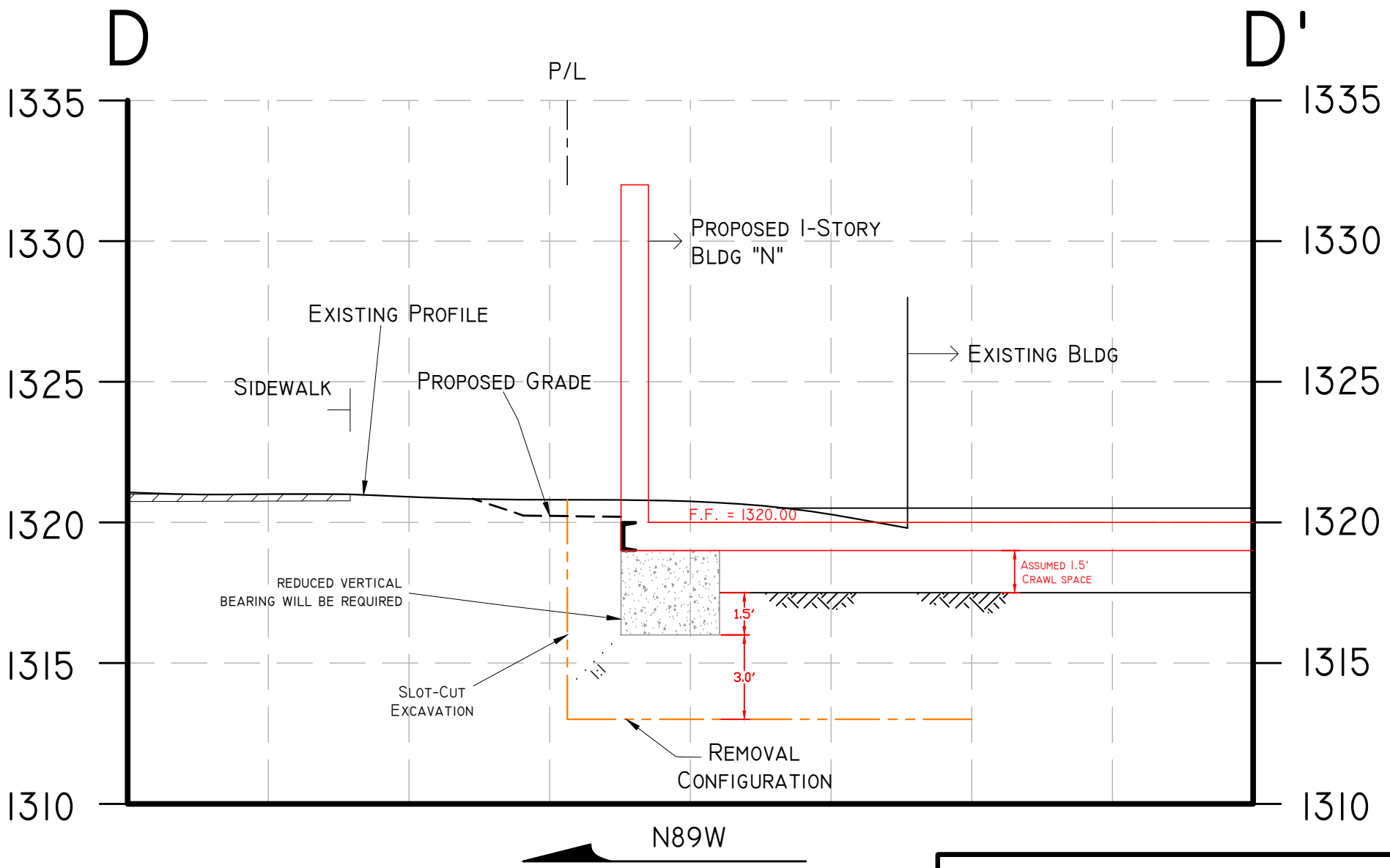
DATE: 1/13/23	JOB NO.: 23-2775-6
SCALE: 1" = 5'	FILE: CROSS SECTIONS LETTER DESIGNATIONS



ALLAN E. SEWARD
ENGINEERING GEOLOGY, INC.
Geological And Geotechnical Consultants

Cross Section C-C'

DATE: 1/13/23	JOB NO.: 23-2775-6
SCALE: 1" = 5'	FILE: CROSS SECTIONS LETTER DESIGNATIONS

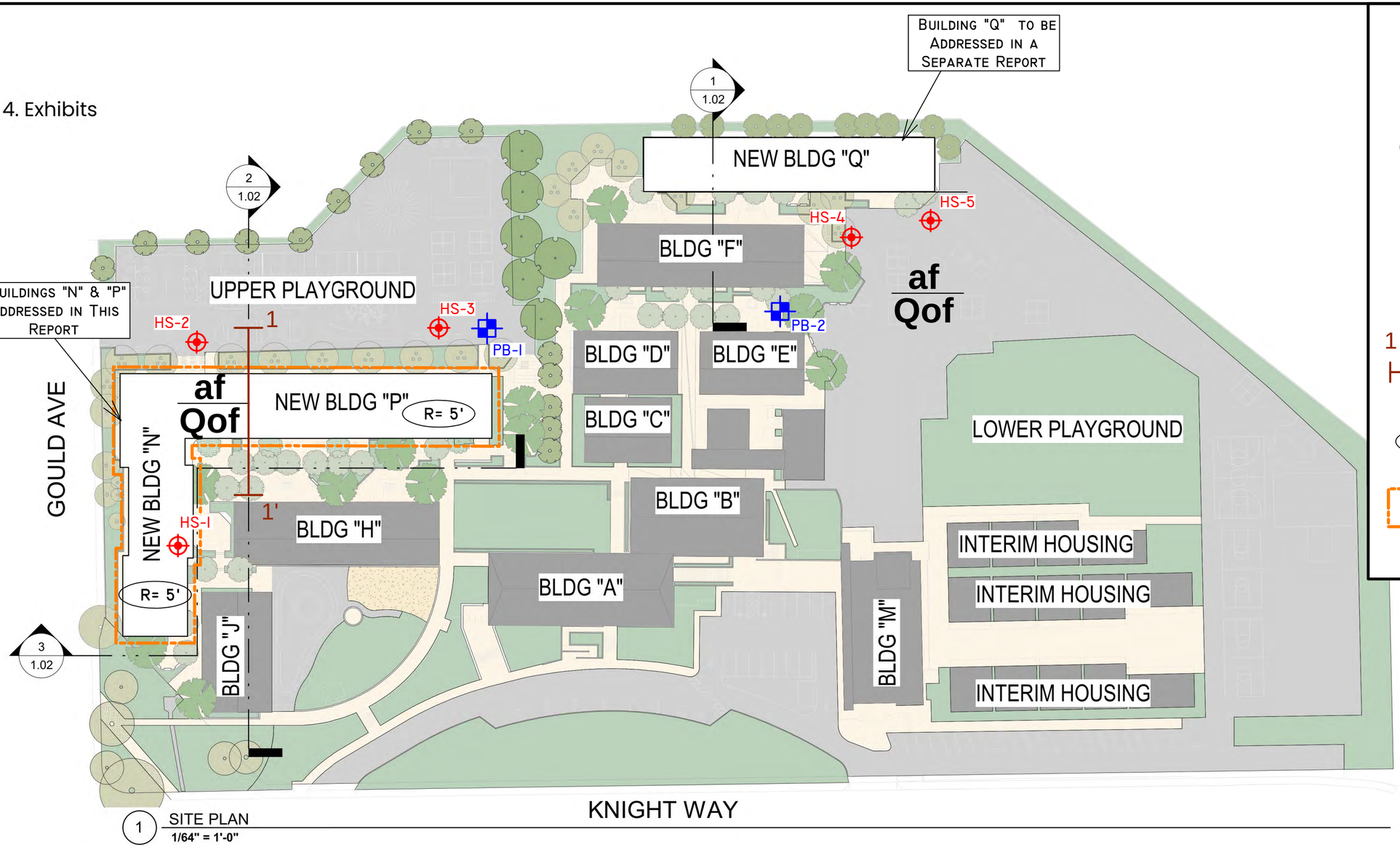


ALLAN E. SEWARD
ENGINEERING GEOLOGY, INC.
Geological And Geotechnical Consultants

Cross Section D-D'

DATE: 1/13/23	JOB NO.: 23-2775-6
SCALE: 1" = 5'	FILE: CROSS SECTIONS LETTER DESIGNATIONS

4. Exhibits



1 SITE PLAN
1/64" = 1'-0"

LEGEND

af	ARTIFICIAL FILL
Qof	OLDER ALLUVIAL FAN DEPOSITS (CONCEALED BENEATH THE af)
HS-5	HOLLOW-STEM AUGER BORING
PB-2	PERCOLATION BORING
1 — 1'	CROSS SECTION
R= 5'	RECOMMENDED REMOVAL DEPTH
	LIMITS OF STRUCTURAL REMOVAL

PARADISE CANYON ES MODERNIZATION

LCUSD

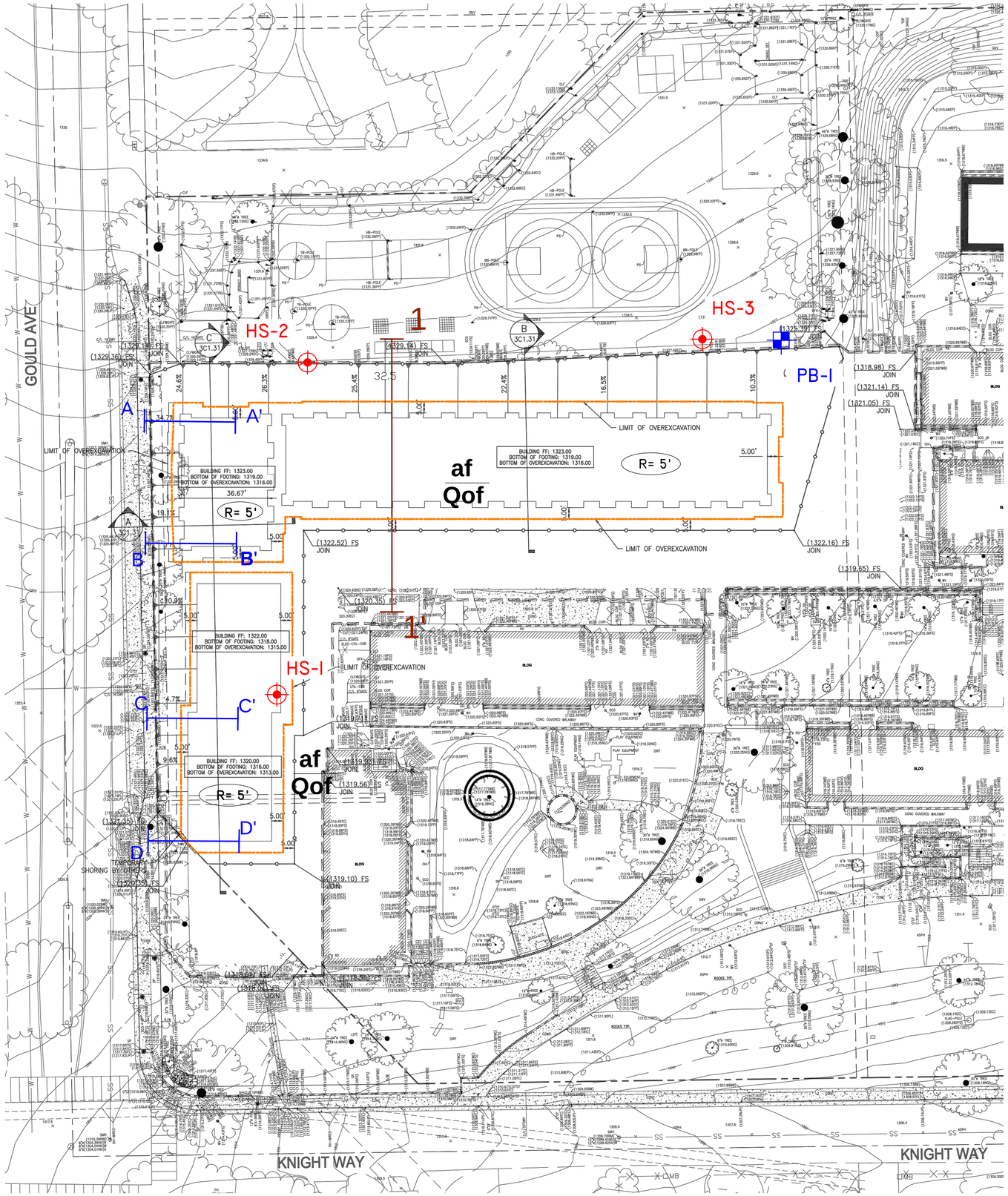
April 29, 2022

1.01
SITE PLAN

ALLAN E. SEWARD
ENGINEERING GEOLOGY, INC.
Geological And Geotechnical Consultants

Geotechnical Map

DATE: 1/13/23	JOB NO.: 23-2775-6
SCALE: 1/64" = 1'-0"	FILE: AES 07.25.22 SITE PLAN GEOTECHNICAL MAP.DWG
PLATE I	GEOLOGY BY: VCG / DRAWN BY: VCG
	REVISED:



LEGEND

- LIMIT OF WORK
- PROPERTY LINE
- TEMPORARY SHORING LINE
- GB — GRADE BREAK
- R — R — R — RIDGE LINE
- EARTHEN SWALE
- SAWCUT AND JOIN
- TOP / TOE — GRADE SLOPE (HORIZONTAL:VERTICAL)
- LIMITS OF GRADING
- GRADING BENCH
- BOTTOM OF FOOTING
- LIMIT OF OVEREXCAVATION
- 100 — PROPOSED MAJOR CONTOUR
- 102 — PROPOSED MINOR CONTOUR

NOTES:

THIS EXCAVATION PLAN HAS BEEN DEVELOPED BASED ON THE AMS STRUCTURAL FOUNDATION PLAN RECEIVED ON DECEMBER 16, 2022 AND THE UPDATED ARCHITECTURAL SITE PLAN PROVIDED ON NOVEMBER 30, 2022.

LEGEND

af	ARTIFICIAL FILL
Qof	OLDER ALLUVIAL FAN DEPOSITS (CONCEALED BENEATH THE af)
HS-5	HOLLOW-STEM AUGER BORING
PB-I	PERCOLATION BORING
1 — 1'	CROSS SECTION
D — D'	CROSS SECTION
R= 5'	RECOMMENDED REMOVAL DEPTH
	LIMITS OF STRUCTURAL REMOVAL

GGA Architecture+
135 W. Green Street
Suite 200
Pasadena, CA 91105
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ggarch.com

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www.kpff.com

REGISTERED PROFESSIONAL ENGINEER — ALLAN E. SEWARD — No. C72755 — Exp. 6/30/23 — CIVIL — STATE OF CALIFORNIA

PARADISE CANYON ES MODERNIZATION

PACKAGE 3 - INCREMENT 1 - SITE UTILITIES/ MAKE-READY

471 Knight Way, La Cañada Flintridge, CA 91011

PROJECT NO. 20911

LICENSED ARCHITECT — HARRY R GRAUER — NO. C-014869 — REN. 05-31-23 — STATE OF CALIFORNIA

The ideas and designs represented herein and this drawing, all prepared by GGA are for the use solely with respect to this project and GGA shall retain all common law, statutory and other reserved rights including copyright and they shall not be used by others for any other purpose without written permission of GGA.

ISSUE DATE	DESCRIPTION
1/6/2023	100% CONSTRUCTION DOCUMENTS

REVISION DATE	DESCRIPTION

DRAWING TITLE

ROUGH GRADING PLAN

3C1.30

ALLAN E. SEWARD
ENGINEERING GEOLOGY, INC.
Geological And Geotechnical Consultants

Geotechnical Map

DATE: 1/13/23		JOB NO.: 23-2775-6	
SCALE: 1"=20'		FILE: AES 01.13.23 GEOTECHNICAL MAP RGP	
PLATE II	GEOLOGY BY: VCG	REVISED:	
	DRAWN BY: VCG		

N

0 10' 20'

SCALE: 1"=20'

P:\2020\2000742 Paradise Canyon ES Modernization\5 CAD\Sheets\New West Building\Increment 1\2000742-C-1.3GGP.dwg, Jan 06, 2023 - 5:16pm

If this sheet is smaller than 30" high by 42" wide then it has been reduced.

Michael Baker
INTERNATIONAL

Appendix F1
Phase I Environmental Site Assessment

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT PARADISE CANYON ELEMENTARY SCHOOL 471 KNIGHT WAY LA CAÑADA, CALIFORNIA

Prepared For

LA CAÑADA UNIFIED SCHOOL DISTRICT
4490 Cornishon Avenue
La Cañada, California 91011

Prepared By

LEIGHTON CONSULTING, INC.
10532 Acacia Street, Suite B-6
Rancho Cucamonga, California 91730

Project No. 13714.001

December 1, 2022
Revised March 21, 2023

Leighton Consulting, Inc.
A Leighton Group Company

December 1, 2022
Revised March 21, 2023

Project No. 13714.001

La Cañada Unified School District
4490 Cornishon Avenue
La Cañada, California 91011

Attention: Mr. Harold Pierre, P.E., Program Director, LCUSD Measure LCF Bond Program

Subject: Phase I Environmental Site Assessment Report
Paradise Canyon Elementary School
471 Knight Way, La Cañada, California

Leighton Consulting, Inc. (Leighton Consulting) is pleased to present this Phase I Environmental Site Assessment for the Paradise Canyon Elementary School located at 471 Knight Way in the City of La Cañada, California (Site). Leighton declares that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in §312.10 of 40 Code of Federal Regulations (CFR) 312 and ASTM International (ASTM) Standards E1527-13 and E1527-21.

Leighton has the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Site. Leighton has developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

If you have any questions regarding this report, please do not hesitate to contact me. We appreciate the opportunity to be of service.

Respectfully submitted,

LEIGHTON CONSULTING, INC.





Zachary Freeman, PG
Project Geologist

Robert B. Hansen
Associate Env. Geologist

ZAF/RBH/rsm

Distribution: (1) Addressee (PDF)

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1.0 INTRODUCTION

1.1 Authorization

Leighton Consulting, Inc. (Leighton Consulting) completed a Phase I Environmental Site Assessment (ESA) of Paradise Canyon Elementary School located at 471 Knight Way La Cañada, California (referred to as the "Site" – **Figure 1**, Site Location Map). The Phase I ESA was requested by La Cañada Unified School District (LCUSD) and Michael Baker International, Inc. (MBI) prior to LCUSD's modernization of the Site. References are provided in **Appendix A**.

1.2 Purpose

The purpose of the Phase I ESA was to identify, to the extent feasible and pursuant to the processes prescribed in ASTM International (ASTM) Standards E1527-13 and E1527-21, and in conformance with the Department of Toxic Substances Control (DTSC) Phase I Environmental Site Assessment Advisory: School Property Evaluators (Revised September 5, 2001) and the California Code of Regulators (CCR) Title 22, Division 4.5, Chapter 51.5 – Phase I Environmental Site Assessment (Schools), recognized environmental conditions (RECs), historical RECs (HRECs), or controlled RECs (CRECs) in connection with the Site (ASTM, 2013; ASTM 2021; DTSC, 2001). The definition of RECs, HRECs, CRECs, and *de minimis* conditions presented below are in accordance with ASTM Standard E1527-13, the current EPA recognized standard for Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) liability protections.

RECs are defined, according to ASTM E1527-13 as "*the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not RECs."*

HRECs are defined, according to ASTM E1527-13 as "*a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls.*"

CRECs are defined, according to ASTM E1527-13 as "*a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.*"

1.3 Scope of Work

The scope of work was performed in accordance with Leighton Consulting's proposal IR22-435, dated August 3, 2022, and included the following tasks:

- A reconnaissance-level visit of the Site for evidence of release(s) of hazardous materials and petroleum products and to assess the potential for onsite releases of hazardous materials and petroleum products;
- Records review (including review of previous environmental reports, selected governmental databases, and historical review);
- Interviews; and
- Preparation of a report presenting our findings.

1.4 Significant Assumptions

Leighton Consulting assumes that the information provided by the Client, regulatory database provider, and regulatory agencies is true and reliable.

1.5 Limitations and Exceptions

Leighton performed the Phase I ESA of the Site in conformance with the scope and limitations of ASTM Standards E1527-13 and E1527-21 (ASTM, 2013; ASTM, 2021).

This Phase I ESA was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions.

The observations and conclusions presented in this report are professional opinions based on the scope of activities, work schedule, and information obtained through the Phase I ESA described herein. Opinions presented herein

apply to property conditions existing at the time of our study and cannot necessarily be taken to apply to property conditions or changes that we are not aware of or have not had the opportunity to evaluate. It must be recognized that conclusions drawn from these data are limited to the amount, type, distribution, and integrity of the information collected at the time of the investigation, the methods utilized to collect and evaluate the data, and that a full and complete determination of environmental risks cannot be made. Although Leighton has taken steps to obtain true copies of available information, we make no representation or warranty with respect to the accuracy or completeness of this information.

This practice does not address whether requirements in addition to all appropriate inquiry have been met in order to qualify for the landowner liability protections including the continuing obligation not to impede the integrity and effectiveness of activity and use limitations, or the duty to take reasonable steps to prevent releases. Users should also be aware that there are likely to be other legal obligations with regard to hazardous substances or petroleum products discovered on the Site that are not addressed in this practice and that may pose risks of civil and/or criminal sanctions for non-compliance.

1.6 Special Terms and Conditions

The scope of work for this Phase I ESA did not include testing of electrical equipment for the presence of PCBs or collection of environmental samples such as soil, groundwater, building materials, paint, or other media; assessment of natural hazards such as naturally occurring asbestos, radon gas or methane gas; assessment of the potential presence of radionuclides; or assessment of nonchemical hazards such as the potential for damage from earthquakes or floods. This Phase I ESA also did not include an extensive assessment of the environmental compliance status of the Site or of businesses operating at the Site.

1.7 User Reliance

This report is for the exclusive use of the LCUSD and MBI. Use of this report by any other party shall be at such party's sole risk.

1.8 Important Information about Geoenvironmental Reports

LCUSD and MBI are referred to Appendix G regarding important information provided by the Geoprofessional Business Association (GBA) on geoenvironmental studies and reports.

2.0 SITE DESCRIPTION

2.1 Site Location and Legal Description

The Paradise Canyon Elementary School (Site) is an approximately 8.59-acre irregularly shaped parcel located at 471 Knight Way in the City of La Cañada, California.

Two areas of new construction are planned for the northern and western portion of the Site (Figure 2). The northern construction area will replace 10 relocatable classrooms with a single permanent classroom structure. The western construction area will replace two existing permanent structures and seven relocatable classrooms with a new classroom building. Additional modernization of the existing classroom buildings, library, cafeteria, and administration buildings will also occur.

The Site is bounded by residences to the north, northeast, and east, Knight Way to the south, Gould Avenue to the west, and Gould Canyon Creek to the southwest. The properties south of Knight Way and west of Gould Avenue are also residential. The Los Angeles County Office of the Assessor designates the Site as Assessor Parcel Number (APN) 5817-007-902. The legal description for the Site is as follows:

"TRACT # 10589 LOT COM AT SW COR OF R S 75-84 TH E AND FOLLOWING BDRY LINE OF SD R S 75-84 TO SW LINE OF TR # 16951 TH SE AND FOLLOWING BDRY LINE OF SD TR TO W".

2.2 Site and Vicinity General Characteristics

The general Site vicinity is developed for residential use.

2.3 Current Use of the Site

The Site is currently occupied by Paradise Canyon Elementary School.

2.4 Descriptions of Structures, Roads, and Other Improvements on the Site

The Site has 11 permanent buildings (Buildings A through J, and M) and 17 relocatable classrooms. The permanent structures occupy the central-western portion of the Site. An asphalt-paved playground and five relocatable classrooms

occupy the northwestern and western portion of the Site. Ten relocatable classrooms and a large asphalt play area are located on the north and northwestern portion of the Site. The eastern portion of the Site is occupied by a large grass ball field and an asphalt play area. The School layout is depicted on Figure 2. The current permanent building uses are as follows:

Building ID	Building Description
A	Administrative Offices
B	Cafeteria
C	Library
D	Classrooms
E	Classrooms
F	Classrooms
G	Classrooms (within the modernization area)
H	Classrooms
I	Pre-K Classrooms (within the modernization area)
J	Kindergarten Classrooms
M	Multi-purpose room

The school utilizes utility services to provide natural gas, potable water, electricity, and sewage disposal at the Site, and their municipal trash is picked up from the Site and disposed of at approved facilities by a solid waste disposal service provider.

2.5 Current Uses of Adjoining Properties

The northern, northeastern, and eastern adjoining properties are all single-family residences. The Site is bordered to the south by Knight Way, followed by residences; to the southwest by the Gould Canyon Channel; and, to the west by Gould Avenue, followed by residences.

3.0 USER PROVIDED INFORMATION

The user of this Phase I ESA is identified as LCUSD. A user interview form was completed by Mr. Harold Pierre P.E., program director for the LCUSD, as part of this assessment. A copy of the completed User form is provided in **Appendix C**.

3.1 Title Records

LCUSD did not provide Title Records for the Site.

3.2 Environmental Liens or Activity and Use Limitations

Mr. Pierre stated he was not aware of Environmental Liens or Activity and Use Limitations related to the Site.

3.3 Specialized Knowledge

Mr. Pierre stated he was not aware of any specialized knowledge or experience regarding the Site.

3.4 Commonly Known or Reasonably Ascertainable Information

Mr. Pierre stated he was not aware of the past uses of the Site. Mr. Pierre also stated he does not know of any specific chemicals that were present on the Site or of any spills or chemical releases on the Site. Mr. Pierre was not aware of any environmental cleanups that have taken place on the Site.

3.5 Valuation Reduction for Environmental Issues

There is not a property transfer associated with this assessment; therefore, valuation reduction is not applicable.

3.6 Owner, Property Manager, and/or Occupant Information

The Site owner is the LCUSD and the property is occupied by Paradise Canyon Elementary School.

3.7 Reason for Performing Phase I ESA

Mr. Pierre stated the reason for the Phase I ESA is for new construction or renovation on the Site.

3.8 Other

No other documents were provided by LCUSD for review with the exception of those discussed in Section 4.3.2.

4.0 RECORDS REVIEW

4.1 Physical Setting Source(s)

Leighton reviewed pertinent maps, readily available literature and databases for information on the physiography and hydrogeology of the Site. A summary of this information is presented in the following subsections.

4.1.1 Topography

The Site is located in Sections 36 of Township 2 North, Range 13 West and Section 31 of Township 2 North Range 12 West of the San Bernardino Baseline and Meridian.

The Site elevation is approximately 1,340 feet above mean sea level (msl). Topography of the Site and western and southern surrounding areas slopes gently to the south-southeast. The northern and eastern surrounding areas slope steeply to the southwest. Topographic map coverage of the Site vicinity is provided by the United States Geological Survey (USGS) Pasadena Quadrangle (USGS, 2018).

4.1.2 Surface Water

Surface water was not observed on the Site. The Gould Canyon Channel is located adjacent to the southwest corner of the Site (USGS, 2018).

The average annual precipitation in the general Site vicinity is 20.4 inches (City of Pasadena, 2022).

4.1.3 Shallow Soils

Geotechnical borings completed at the Site (Seward, 2022) generally indicated that soils in the upper approximately 5 to 9 feet consist of coarse-grained silty sands. Depending upon the location on the Site, approximately 5 to 9 feet of artificial fill exists beneath the current ground surface.

4.1.4 Geology / Hydrogeology (Groundwater Depth and Flow Direction)

The Site is located within the northwestern portion of the Raymond Basin in the northern portion of the Peninsular Range geomorphic province of California. Major structural features surrounding the region include the San Gabriel Mountains to the north and northeast and the San Rafael Hills to the southwest. This is an area of large-scale crustal disturbance as the relatively northwestward-moving Peninsular Range Province collides with the Transverse Range Province (San Gabriel Mountains) to the north.

A review of the Geologic Map of the Pasadena Quadrangle, California, indicates that the Site is underlain by late Holocene to Pleistocene age alluvial fan deposits eroded from the San Gabriel Mountains consisting of coarse to fine grained sands and gravel (Dibblee, 1989).

Groundwater was measured to be approximately 49 feet below ground surface approximately 0.5 miles southwest of the Site in July 2022 (Arcadis, 2022). Groundwater flow is inferred to be to the south-southeast based on the local topography.

4.2 Standard Environmental Record Sources

Leighton conducted a search of selected environmental databases in general accordance with requirements of ASTM E1527-13/-21. A copy of the database search report is provided in **Appendix D**; however, a summary of the results is discussed below.

4.2.1 Subject Property

Listings found pertaining to the Site are summarized as follows:

SITE LISTINGS	
Listing Name	**Address / Location**
Paradise Canyon Elementary School	**471 Knight Way**
The Site is listed on the RCRA NONGEN/NLR, ECHO, HWTS, HAZNET, and FINDS databases. The listings are related to asbestos abatements performed at the Site in 1983, 1989, and 1992. **None of the above-mentioned database listings are evidence of a likely REC on the Site.**	

4.2.2 Offsite

Provided below is a brief summary of some of the more notable off-site database listings, either due to their proximity to the Site, and/or nature of their listing:

NOTABLE OFF SITE LISTINGS	
Listing Name	**Address / Location**
Jet Propulsion Laboratory (NASA)	**4800 Oak Grove Drive**
The Jet Propulsion Laboratory (JPL) is located approximately 4,689 feet southeast of and down gradient from the Site and is listed on the NPL, SEMS, RCRA-LQG, US ENG CONTROLS, US INST CONTROLS SWEEPS UST, TRIS, ROD, ICIS, US AIRS, FINDS, ECHO, DOCKET HWC, MANIFEST, NON-CASE INFO, and FUDS databases. JPL began operations in 1945 as a US Army rocketry and propulsion research and development facility. JPL was taken over by NASA in 1958. The primary source of contamination on the JPL facility is several seepage pits that were used to dispose of hazardous wastes during the first few decades of JPL's operations. In 1990, volatile organic compounds were reported in groundwater beneath JPL and down gradient. The VOCs caused four City of Pasadena municipal supply wells to be removed from service. The wells were fitted with treatment systems and returned to service. Based on JPL's Distance from, and downgradient position relative to the subject Site, the **JPL listings are not evidence of a likely REC on the subject Site.**	

No other nearby facility database listings of potential concern were noted, either due to their distance from the subject Site, type of database listing, or status of the listing (ex. Closed case). A review of reported "Orphan" facilities (facilities with poor locational information) also indicated no concerns. **In summary, the database search report resulted in <u>no</u> On-Site or Off-Site listings considered to be evidence of a likely REC on the Site**. A copy of the database search report is provided in **Appendix D**.

4.2.3 Regulatory Agency Contacts

Leighton staff researched other reasonably ascertainable, local and regional regulatory agency records. The results are summarized below:

Los Angeles County Fire Department (LACFD)
A request was submitted to the LACFD to search for any records related to hazardous materials associated with Site. The Site APN and street address was provided with the request. **The LACFD responded with an email indicating that records were not found.** A copy of the records request, and the LACFD response, are provided in (**Appendix F**).
Los Angeles County Department of Public Works (LACDPW)
An online request was submitted to the LACDPW to search for any records related to hazardous materials or underground storage tanks associated with Site. **The LACDPW website stated that records were not found.**
State of California Dept. of Toxic Substances Control (DTSC)
A request for a records search was submitted to the DTSC Cypress and Chatsworth offices under the current Site APN and address. **The Chatsworth and Cypress offices of DTSC both responded by indicating no records were found for the Site** (**Appendix F**).
State of California Regional Water Quality Control Board, Los Angeles Region (LARWQCB)
A request for a records search was made to the LARWQCB under the current Site APN and address. **The LARWQCB responded by indicating no records were found for the Site** (**Appendix F**).
Envirostor – DTSC Envirostor Database
A review of the DTSC Envirostor database did not reveal listings on or within a 0.25-mile radius of the Site (Envirostor, 2022).

GeoTracker – State of California Water Resources Control Board GeoTracker Database
The State of California Water Resources Control Board maintains the GeoTracker database, which includes various facilities with current or former environmental investigations. Types of listed cases include: leaking USTs, permitted USTs, other cleanup program cases, military cleanup cases, land disposal cases, and confined animal facilities. A review of the Geotracker database revealed no listings for the Site or within a 0.25-mile radius of the Site (Geotracker, 2022).
California Department of Conservation, Geologic Energy Management Division (CalGEM)
The CalGEM Well Finder database was reviewed on-line to search for any indication of the presence of an active or abandoned oil or gas wells, on or within the vicinity of the Site. The review indicated no wells on or within an approximate 1.0-mile radius of the Site (CalGEM, 2022).
National Pipeline Mapping System (NPMS)
The NPMS pipeline database revealed no gas transmission lines, no hazardous liquid pipelines, no pipeline incidents (gas) or accidents (liquid) within approximately 0.25 mile of the Site (NPMS, 2022).
South Coast Air Quality Management District (SCAQMD)
An on-line records search was completed using the SCAQMD F.I.N.D database. The database reported no records associated with the Site or within a 1.0-mile radius of the Site. Information from the SCAQMD FINDS database does not indicate a likely REC on the Site (SCAQMD, 2022).

Copies of the various local and regional agency records requests and responses are provided in **Appendix F**.

4.2.4 Radon

Radon is not regulated within the State of California. Nonetheless, the California Department of Health Services (CDPH) and the USEPA both recommend a threshold of 4 picocuries per liter (pCi/L) above which certain precautions be taken to mitigate radon buildup in structures. The Site is reported to be located in Zone 2, which has a likely predicted average indoor radon screening levels between 2 and 4 pCi/L (**Appendix D**).

4.2.5 Other Reports

The LCUSD provided one previous geotechnical report prepared by Allan E. Seward Engineering Geology, Inc. The report described the geologic conditions on and beneath the Site. No indications of a hazardous materials or petroleum product release was identified in the report (Seward, 2022).

The LCUSD also provided copies of the original as-built electrical plan, and the grading plan for Paradise Canyon Elementary School (**Appendix H**). According to the as-built electrical plan, no transformers were installed east of building E or west of building H (**Appendix B**, Photos 20 and 22). According to Mr. Pierre, the current transformers were installed in the late 1990s and are not replacements for pre-existing units (**Appendix C**).

According to the grading plan for Paradise Canyon Elementary School, approximately two feet of soil was removed from the proposed modernization areas at the time of construction (**Appendix H**).

4.2.6 Vapor Encroachment

A vapor encroachment screening was completed in general accordance with ASTM Standard Guide E2600-15. Our modified Area of Concern (AOC) is defined as follows:

Direction Relative to Site	AOC - VOC Vapors	AOC - Petroleum HC Vapors
Up Gradient Source	1,760 feet	520 feet
Cross Gradient Source	365 feet	165 feet
Down Gradient Source	100 feet	100 feet

Based on information compiled and discussed within this Phase I report, no Vapor Encroachment Condition (VEC) was identified for the Site.

4.3 Historical Use Information on the Property

Following is a summary of our review of records regarding historical usage of the Site and adjoining properties, as this information pertains to the potential for environmental concerns.

Info Type	Years	Source	Summary of Results
Topo Maps	1894 1896 1900 1928 1934 1939 1940 1953 1966 1972 1988 1995 2012 2015 2018	EDR	• **1894-1940**: Maps show no evidence of development on Site. Knight Way is first depicted adjacent to the south of the Site in 1928. The subject Site is not depicted on the 1934 or 1940 topographic maps. Surrounding properties also appear undeveloped. • **1953 - 1995**: Paradise Canyon Elementary School is depicted on the Site. The school appears to consist of seven structures with an eighth added between 1972 and 1988. The surrounding adjacent properties are located within incorporated city of La Cañada and appear to be residential. • **2012 - 2018**: No structures are depicted on the Site or surrounding properties. The pattern of the surrounding streets appears to be residential in nature.
Aerial Photos	1931 1938 1948 1953 1967 1975 1985 1989 1994 2002 2006 2009 2012 2016	EDR	• **1928**: The Site appears to be agricultural. A small stream channel is visible adjacent to the southwest of the Site. Gould Street and Knight Way appear to be dirt roads. Agriculture (orchards) is visible south and southwest of the Site. The remaining adjacent properties appear undeveloped. • **1938–1944**: The Site and surrounding properties appear to be used for agriculture. Gould Street and Knight way appear to be paved. In the 1944 aerial photograph a few scattered residences are visible west and south of the Site. • **1952–1977** The western portion of the Site appears to be occupied by Paradise Canyon Elementary School. The eastern portion of the site appears vacant. The stream adjacent to the southwest of the Site appears to be confined to a concrete channel. The surrounding adjacent properties appear to be developed or in the process of being developed for residential use. In the 1977 aerial photograph, an additional school building appears to have been constructed on the western portion of the Site. The northwestern and northeastern corners of the Site appear to have been paved and a large grass area appears to have been marked for used as a ball field on the east side of the Site.

			• **1979-2016**: Two additional structures are visible on the Site bringing the total number of buildings to 11. The surrounding properties do not appear to have changed significantly. In the 2005 aerial photograph approximately 12 temporary classrooms appear to have been added to the north and northeastern portion of the Site. Approximately 8 additional temporary classrooms are visible on the western portion of the site in the 2009 aerial photograph.
Fire Insurance Maps	N/A	EDR	No coverage reported for Site.
City Directories	1973-2014	EDR	A review of the city directory report indicated no historical Site or adjoining occupants considered likely to have created a REC that were not already known to exist from other sources.

Summary of Historical Review – From at least the late 1920's through at least 1944, the Site was used for agriculture. Construction of Paradise Canyon Elementary School began between 1944 and 1952. Residential development on the surrounding properties began in approximately 1944. The surrounding residential development was completed by 1964. Additional structures were added to the Site between approximately 1977 and 2016.

Potential environmental concerns noted during the historical review include:

- **Approximately 13 structures on the Site were constructed prior to the ban on lead-based paint in 1993.**

The above-described concerns are potential RECs, and further investigation is recommended. Copies of selected documents used to assess historical Site and adjoining property usages (i.e., topographic maps, aerial photos, city directories, etc.) are provided in **Appendix E**.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

On October 17, 2022, a representative of Leighton Consulting, Mr. Zachary Freeman, a licensed Professional Geologist and Mr. Harold Pierre, the LCUSD Planning Project Manager for the Site, conducted a reconnaissance–level assessment of the Site. The Site reconnaissance consisted of the observation and documentation of existing Site conditions and nature of the neighboring property development within a 0.25-mile radius of the Site. Photographs of the Site are presented in **Appendix B** (Photos 1 through 30) and their view directions are noted on **Figure 2**.

5.2 General Site Setting

The Site vicinity is developed for residential use.

The Site is currently occupied by the Paradise Canyon Elementary School.

The Site has 11 permanent buildings and 17 relocatable classrooms. The 11 permanent structures primarily occupy the center of the Site, the relocatable classrooms are located along the western and northern boundaries of the Site. An asphalt-paved playground is located on the northwestern portion of the Site. A grass play field and asphalted play areas are located on the eastern side of the Site. The School layout is depicted on **Figure 2**.

5.3 Exterior and Interior Observations

5.3.1 Hazardous Substances, Drums, and Other Chemical Containers

Evidence of hazardous substances, drums, or other chemical containers was not observed at the Site with the exception of typical janitorial cleaning materials observed in the custodial closets on the north side of the cafeteria and in buildings G and H.

5.3.2 Underground Storage Tanks (USTs) and Aboveground Storage Tanks (ASTs)

Evidence of USTs (such as vent lines, fill or overfill ports) and aboveground storage tanks (ASTs) was not observed at the Site.

5.3.3 Polychlorinated Biphenyls (PCBs)

PCBs were once used as industrial chemicals whose high stability contributed to both their commercial usefulness and their long-term deleterious environmental and health effects. PCBs can be present in coolants or lubricating oils used in older electrical transformers, hydraulic systems, and other similar equipment. In 1979, the USEPA generally prohibited the domestic manufacture of PCBs in electrical capacitors, electrical transformers, vacuum pumps, hydraulic pumps, and gas turbines.

Evidence of potential PCB-containing equipment was not observed at the Site. Non-PCB containing, pad-mounted transformers, installed in the late 1990s, were observed west of building H and east of building E, as shown on **Figure 2** and **Appendix B** (Photos 20 and 22). The transformers appeared to be in good condition and evidence of leaking was not observed.

5.3.4 Waste Disposal

Municipal waste and recycling dumpsters were observed in the southeastern portion of the Site. There were also trash and recycle bins throughout the Site.

5.3.5 Dumping

Evidence of onsite dumping was not observed at the Site.

5.3.6 Pits, Ponds, Lagoons, Septic Systems, Wastewater, Drains, Cisterns, and Sumps

Evidence of pits, ponds, lagoons, septic systems, wastewater, and cisterns was not observed at the Site.

Drains were observed in the restrooms and the kitchen that appear to be connected to the sanitary sewer system.

Stormdrains were observed at numerous locations across the Site. According to Mr. Pierre, the storm drains on the Site are all plumbed to the storm sewer.

5.3.7 Pesticide Use

Evidence of pesticide use was not observed onsite.

5.3.8 Staining and Discolored Soils

Evidence of staining and discolored soil was not observed onsite.

5.3.9 Stressed Vegetation

Stressed vegetation was not observed onsite.

5.3.10 Unusual Odors

Unusual odors were not detected onsite.

5.3.11 Onsite Wells

Wells were not observed at the Site.

5.3.12 Other Observations

Based on the age of the onsite permanent structures, there is potential for asbestos containing materials (ACMs), and lead-based paint (LBP).

6.0 INTERVIEWS

Leighton Consulting conducted interviews with persons having knowledge of current or past Site usage. Interviews were conducted either orally or in the form of a written questionnaire.

6.1 Interview with Owner

An owner interview form was completed by Mr. Harold Pierre of the LCUSD as part of this assessment. Mr. Pierre stated that a septic system was previously used on the Site but was removed and abandoned. Mr. Pierre also stated that he was unaware if electrical or hydraulic equipment known to contain PCBs were located on the Site. Mr. Pierre also stated that a geotechnical report was prepared for the Site in connection with planned modernization of the Site. Mr. Pierre also provided Leighton with copies of the as-built electrical plans and the grading plan for the Site. The geotechnical report and the grading and electrical plans are summarized in Section 4.3.2.

6.2 Interview with Site/Property Manager

Interviews with Site or property managers other than those in Section 6.1, were not completed as part of this Phase I ESA.

6.3 Interviews with Occupants

Interviews with occupants, other than those in Section 6.2, were not completed as part of this Phase I ESA.

6.4 Interviews with Local Government Officials

Leighton Consulting did not interview employees of local government agencies to request information regarding historic and current uses of the Site with the exception of those noted in Section 4.2.

6.5 Interviews with Others

Leighton Consulting did not interview others regarding the Site.

7.0 FINDINGS

Leighton Consulting performed a Phase I ESA of the Paradise Canyon Elementary School located at 471 Knight Way, La Cañada, California (**Figure 1**).

7.1 Onsite

Historically, the Site was used for agriculture until approximately 1951 when construction began on Paradise Canyon Elementary School. The current permanent school buildings were constructed between approximately 1951 and 2005.

Currently, the Site consists of an 8.59-acre elementary school. The Site comprises 11 permanent buildings (Buildings A through J and M) and 17 relocatable classrooms. Two asphalt-paved playgrounds are located on the northwestern and northeastern corners of the Site. A grass ball field and an asphalt paved play area are located adjacent to the eastern Site boundary.

The Site is within the northwestern portion of the Raymond Basin in the northern portion of the Peninsular Range geomorphic province of California. Groundwater was measured to be approximately 49 feet below ground surface approximately 0.5 miles southwest of the Site in July 2022 (Arcadis, 2022). Groundwater flow is inferred to be to the south-southeast based on the local topography.

A search of selected government databases was conducted by Leighton using the EDR Radius Report, dated October 11, 2022. The Site was identified in the database report as Paradise Canyon Elementary School. The database listings pertain to three asbestos abatements that occurred on the Site. No violations were reported for the Site.

On October 17, 2022, representatives of Leighton conducted a reconnaissance–level assessment of the Site. Evidence of hazardous substances, drums, or other chemical containers was not observed on the Site, with the exception of typical janitorial cleaning materials observed in the custodial closets located in the cafeteria building (Building B) and classroom building F.

Two pad-mounted electrical transformers were observed on the Site at the east end of building E and west end of building H. No evidence of leakage was observed around or beneath the transformers.

7.2 Offsite

Historically, the surrounding adjacent properties north, east, south, and west of the subject site were developed for agriculture from approximately 1928 until the early 1950's when residential development began on the surrounding adjacent properties.

Surrounding properties with the potential to adversely impact the Site with a likely REC were not identified during this Phase I ESA.

7.3 Data Gaps

Significant data gaps regarding this assessment were not identified.

8.0 CONCLUSIONS AND RECOMMENDATIONS

Leighton has performed a Phase I ESA in general accordance with the scope and limitations of ASTM Standards E1527-13, E1527-21 and the DTSC Phase I Environmental Site Assessment Advisory: School Property Evaluators (Revised September 5, 2001) for the property located at 471 Knight Way in the city of La Cañada, Los Angeles County, California. Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report.

This assessment has revealed no evidence of CRECs or HRECs in connection with the Site. Additionally, this assessment has revealed no evidence of RECs or business environmental risks in connection with the Site except for the following:

- The Site was used for agriculture prior to the ban on organochlorine pesticides, however, the grading plan for the Site shows that approximately two feet of soil was removed from the Site prior to construction. It is unlikely that organochlorine or arsenical pesticides related to the former agriculture remained after the Site was graded.

- Buildings A through J were constructed prior to 1979. Lead-based paint or lead containing surface coatings may have been used in the construction of these structures. Shallow soils surrounding the structures on the Site may be impacted with lead resulting from the deterioration of lead-based paint.

- Two pad-mounted electrical transformers were observed at the east end of building E and the west end of building H. The as-built electrical plans for the Site do not show transformers originally installed at these locations. According to Mr. Pierre, the existing transformers were installed in the late 1990s.

In accordance with DTSC guidelines, a soil investigation is warranted prior to any soil disturbance for the following:

- Perform a Phase I Addendum investigation to assess for lead due to LBP adjacent to existing school buildings within the western modernization area, that were constructed prior to 1993 (DTSC, 2006); and

- Submit one hard copy and one electronic copy in portable document file (PDF) format of this Phase I ESA and the recommended Phase I Addendum report to Shahir Haddad, Phase I Coordinator, Brownfields & Environmental Restoration Program, Department of Toxic Substances Control 5796 Corporate Avenue Cypress, California 90630 for review.

In general, observations should be made during any future Site development for areas of possible contamination such as, but not limited to, the presence of underground facilities, underground lifts, undocumented fill soil, buried debris, waste drums, tanks, stained soil or odorous soils. Should such materials be encountered, further investigation and analysis may be necessary at that time.

9.0 DEVIATIONS

Leighton did not deviate from or alter the scope of work, as defined in Section 1.3 of this report. Significant data gaps were not identified.

10.0 ADDITIONAL SERVICES

Leighton Consulting did not perform any work outside the scope of work as defined in Section 1.3 of this report.

11.0 QUALIFICATIONS

11.1 Corporate

Leighton Consulting, Inc. is a California corporation, providing geotechnical and environmental consulting services throughout California. We are solely a consulting firm without interests in real property other than our offices in Southern California. We provide professional environmental consulting services including application of science and engineering to environmental compliance, hazardous materials/waste assessment and cleanup, and management of hazardous, solid and industrial waste. Phase I Environmental Site Assessments are a part of this practice area and have been conducted by us.

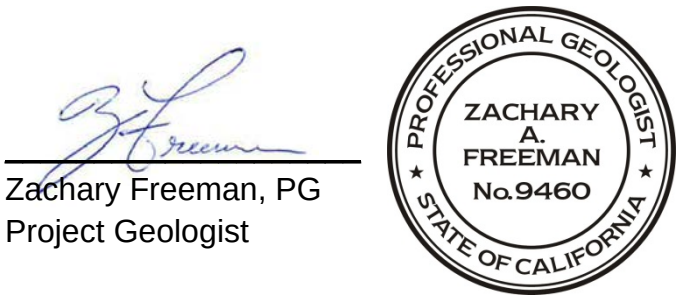
11.2 Individual

The qualifications of the Zachary Freeman, Project Geologist, and the other Leighton environmental professionals involved in this Phase I ESA meet the Leighton corporate requirements for performing Phase I ESAs as specified by ASTM Standards E1527-13 and E1527-21. In addition, Zachary Freeman is a Professional Geologist (PG).

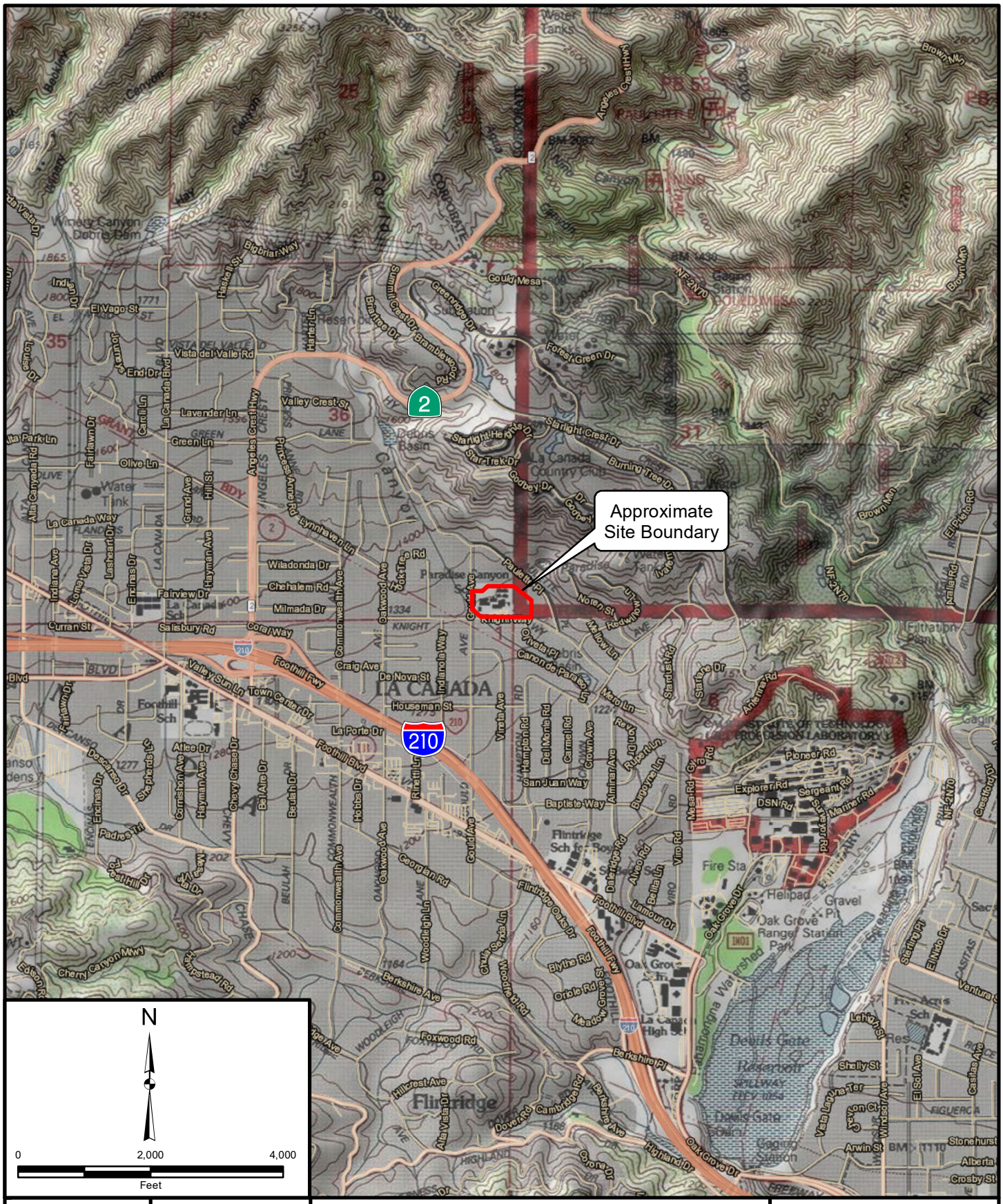
11.3 Environmental Professional Statement

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental professional as defined by §312.10 of 40 CFR Part 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Site. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Zachary Freeman, PG
Project Geologist



Project: 13714.001	Eng/Geol: RF
Scale: 1 " = 2,000 '	Date: December 2022
Base Map: ESRI ArcGIS Online 2022 Author: (mmurphy)	

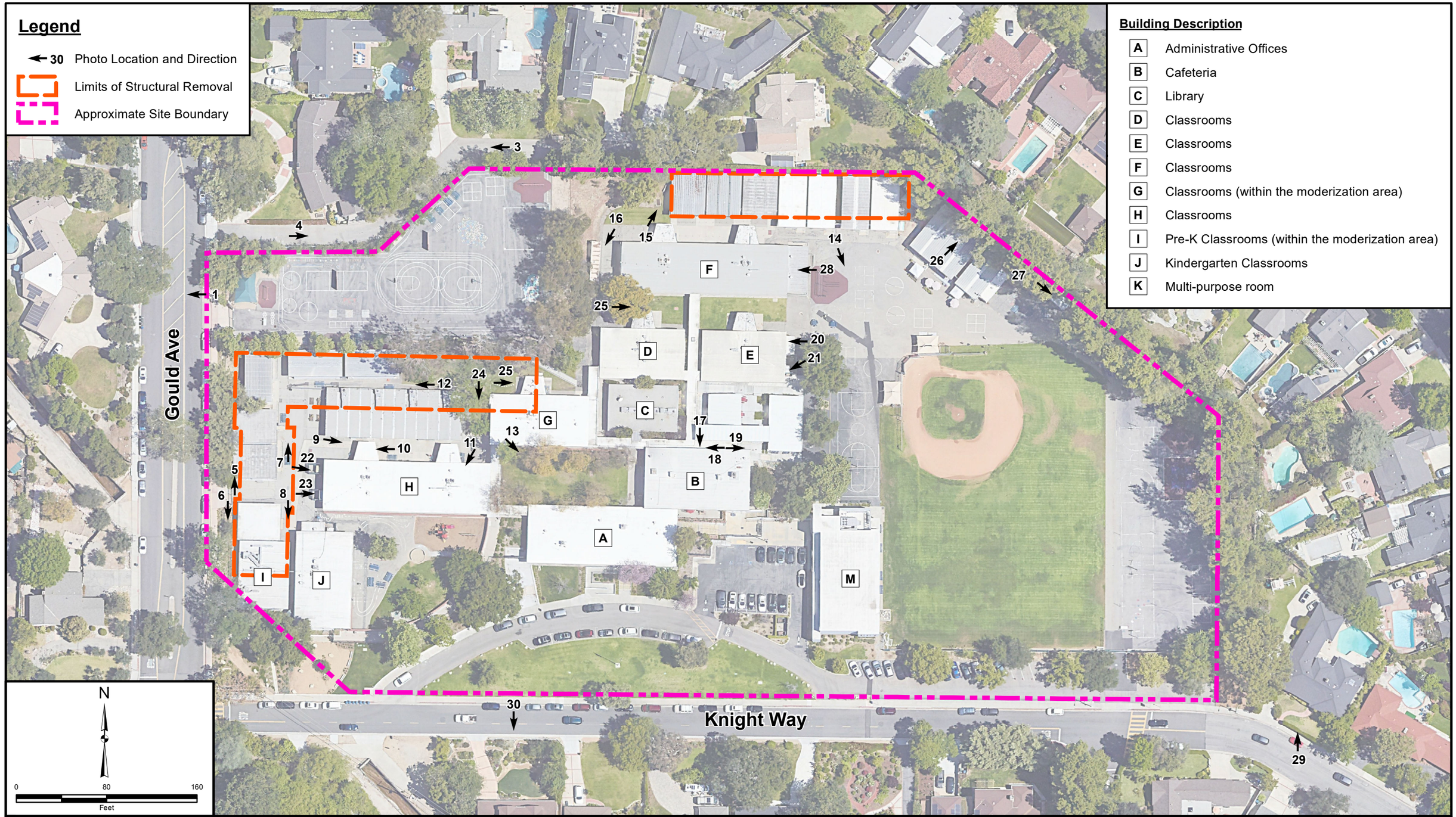
SITE LOCATION MAP

Paradise Canyon Elementary School
471 Knight Way
La Canada, California

FIGURE 1

Leighton

Map Saved as V:\Drafting\13714\001\Maps\13714-001_F01_SLM_2022-11-16.mxd on 11/17/2022 7:43:58 AM



Project: 13714.001	Eng/Geol: 13714.001
Scale: 1 " = 80 '	Date: December 2022
Base Map: Google Earth, 2022.	
Author: (mmurphy)	

SITE AND ADJACENT PROPERTIES MAP

Paradise Canyon Elementary School
471 Knight Way
La Canada, California

FIGURE 2

Leighton

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APPENDIX A
REFERENCES

APPENDIX A

References

ASTM International, 2013, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E1527-13, dated November 6, 2013.

ASTM International, 2021, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E1527-21, dated November 1, 2021

Arcadis, 2022, Semi-Annual Status Report, First Half 2022 Chevron Site Number 9-6368, Case Number I-09924A 623 Foothill Boulevard, La Cañada, CA, https://documents.geotracker.waterboards.ca.gov/esi/uploads/geo_report/1228127241/T10000003396.PDF, accessed November 2, 2022.

California Code of Regulations, Title 22, Division 4.5, Chapter 51.5, Initial Statement of Reasons, Phase I ESA (Schools), Department Reference Number: R-02-01, dated September 9, 2002.

CalGEM (California Department of Conservation, Division of Geologic Energy Management), Online Mapping System, Accessed November 2, 2022.

City of Pasadena, 2022, Pasadena Climate Average Temperature and Precipitation for Pasadena, https://www.cityofpasadena.net/about-pasadena/pasadena-climate/, Accessed November 2, 2022.

DTSC (Department of Toxic Substances Control), 2001, Phase I ESA Advisory, School Property Evaluations, dated September 5, 2001.

DTSC (Department of Toxic Substances Control), 2006, Interim Guidance Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-based Paint, Organochlorine pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers, revised June 9, 2006.

DTSC (Department of Toxic Substances Control), 2008, Interim Guidance for Sampling of Agricultural Properties (Third Revision), https://dtsc.ca.gov/wp-content/uploads/sites/31/2018/09/Ag-Guidance-Rev-3-August-7-2008-2.pdf, dated, October 7, 2008.

EDR Aerial Photo Decade Package, October 12, 2022.

EDR City Directory, October 12, 2022.

EDR Historical Topo Map Report, October 11, 2022.

EDR Radius Map Report with Geocheck, October 11, 20202.

EDR Sanborn Map Report, October 11, 2022.

Envirostor (EnviroStor Data Management System, Department of Toxic Substances Control), 2002, http://www.envirostor.dtsc.ca.gov/public/, reviewed October 20, 2022.

Geotracker (GeoTracker, State Water Resources Control Board), 2022, http://geotracker.swrcb.ca.gov/, reviewed November 2, 2022.

NPMS (National Pipeline Mapping System), 2015, https://www.npms.phmsa.dot.gov/, reviewed on October 20, 2022.

Seward (Allan E. Seward Engineering Geology, Inc.), 2022, Geotechnical Report Review of Site Plan New Building Addition and Site Improvements Paradise Canyon Elementary School 471 Knight Way La Cañada, Los Angeles County, California, dated July 25 2022,

SCAQMD (Southern California Air Quality Management District), Facility Information Detail (FIND) Database, http://www3.aqmd.gov/webappl/fim/prog/search.aspx, October 20, 2022.

State of California, Department of Water Resources, Statewide Planning, California's Groundwater Bulletin 118, update 2003, South Coast Hydrologic Region, Raymond Basin, online reference: http://www.groundwater.water.ca.gov /bulletin118/, dated February 27, 2004.

USGS, (United States Geological Survey), 2018, Pasadena, 7.5-minute series topographic map; dated 2018.

APPENDIX B
SITE RECONNAISSANCE PHOTOGRAPHS

Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **9/21/2022**	
Client Name: **Michael Baker International**	**Site Location:** **471 Knight Way La Cañada, CA**	**Project No.** **13714.001**

Photo No. 1 **View of Direction of Photo:** West **Description**: Adjoining western property and Gould Street.	

Photo No. 2 **View of Direction of Photo:** South **Description**: Storm drain on the northern Site boundary.	

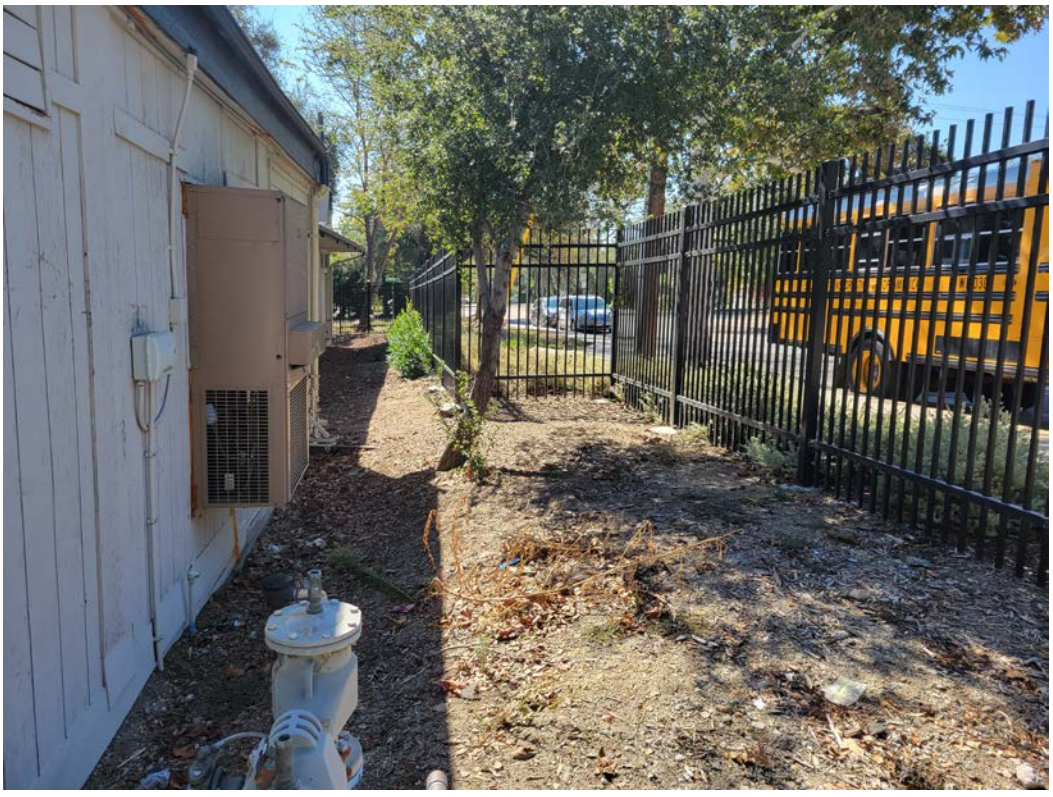
Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **9/21/2022**	
Client Name: **Michael Baker International**	**Site Location:** **471 Knight Way La Cañada, CA**	**Project No.** **13714.001**

Photo No. 3 **View of Direction of Photo:** West **Description**: View along the semi-private drive adjacent to the north of the Site.	

Photo No. 4 **View of Direction of Photo:** East **Description**: View along the semi-private drive adjacent to the north of the Site.	

Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **9/21/2022**	
Client Name: **Michael Baker International**	**Site Location:** **471 Knight Way La Cañada, CA**	**Project No.** **13714.001**

Photo No. 5 **View of Direction of Photo:** North **Description**: View behind the portable classrooms on the west side of the Site.	

Photo No. 6 **View of Direction of Photo:** South **Description**: View behind the portable classrooms on the west side of the Site.	

Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **9/21/2022**	
Client Name: **Michael Baker International**	**Site Location:** **471 Knight Way La Cañada, CA**	**Project No.** **13714.001**

Photo No. 7 **View of Direction of Photo:** North **Description**: Portable classrooms to be removed during the modernization on the west side of the Site.	

Photo No. 8 **View of Direction of Photo:** South **Description**: Portable classrooms to be removed during the modernization on the west side of the SiteS	

Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **9/21/2022**	
Client Name: **Michael Baker International**	**Site Location:** **471 Knight Way La Cañada, CA**	**Project No.** **13714.001**

Photo No. 9 **View of Direction of Photo:** East **Description**: View looking west across the central portion of the Site between Buildings G and H.	

Photo No. 10 **View of Direction of Photo:** West **Description**: Storage room on the north side of Building H.	

Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **9/21/2022**	
Client Name: **Michael Baker International**	**Site Location:** **471 Knight Way La Cañada, CA**	**Project No.** **13714.001**

Photo No. 11 **View of Direction of Photo:** Southwest **Description**: View of interior classroom area in Building H.	

Photo No. 12 **View of Direction of Photo:** West **Description**: View of the northwestern portable classrooms.	

Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **9/21/2022**	
Client Name: **Michael Baker International**	**Site Location:** **471 Knight Way La Cañada, CA**	**Project No.** **13714.001**

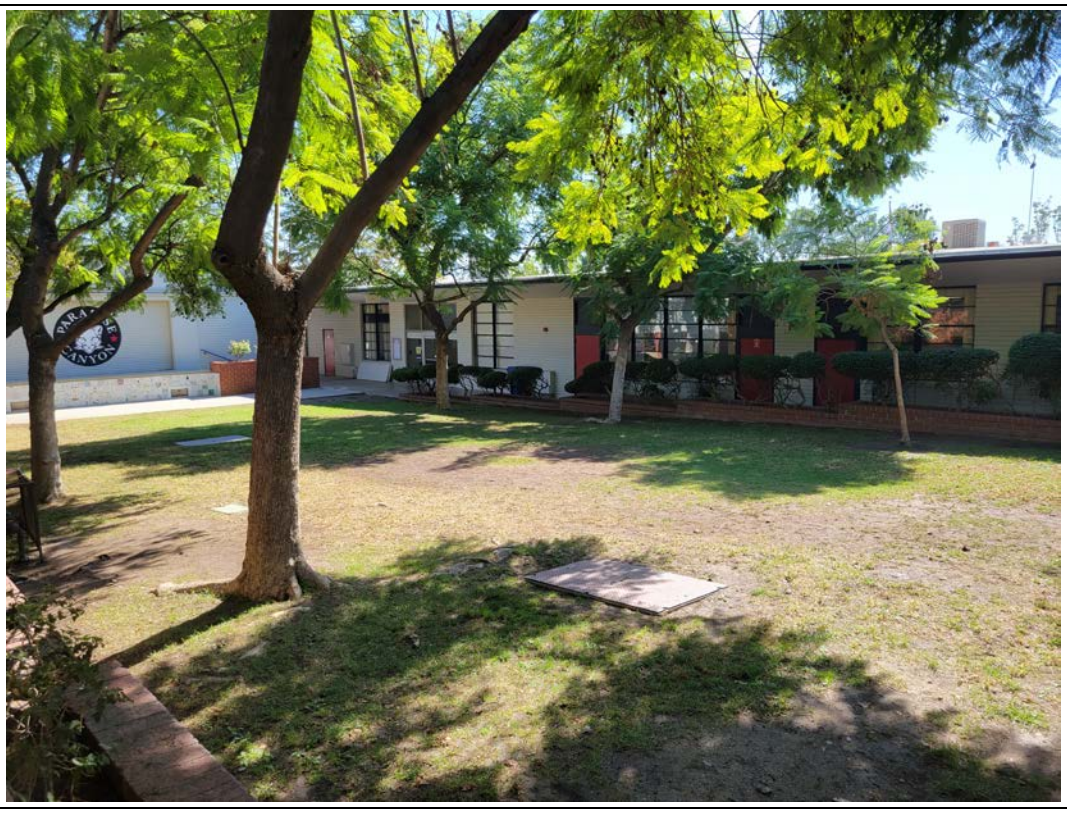
Photo No. 13 **View of Direction of Photo:** Southeast **Description**: View across the quad area north of the administration building.	

Photo No. 14 **View of Direction of Photo:** Southeast **Description**: View across the eastern asphalt play area and ball field.	

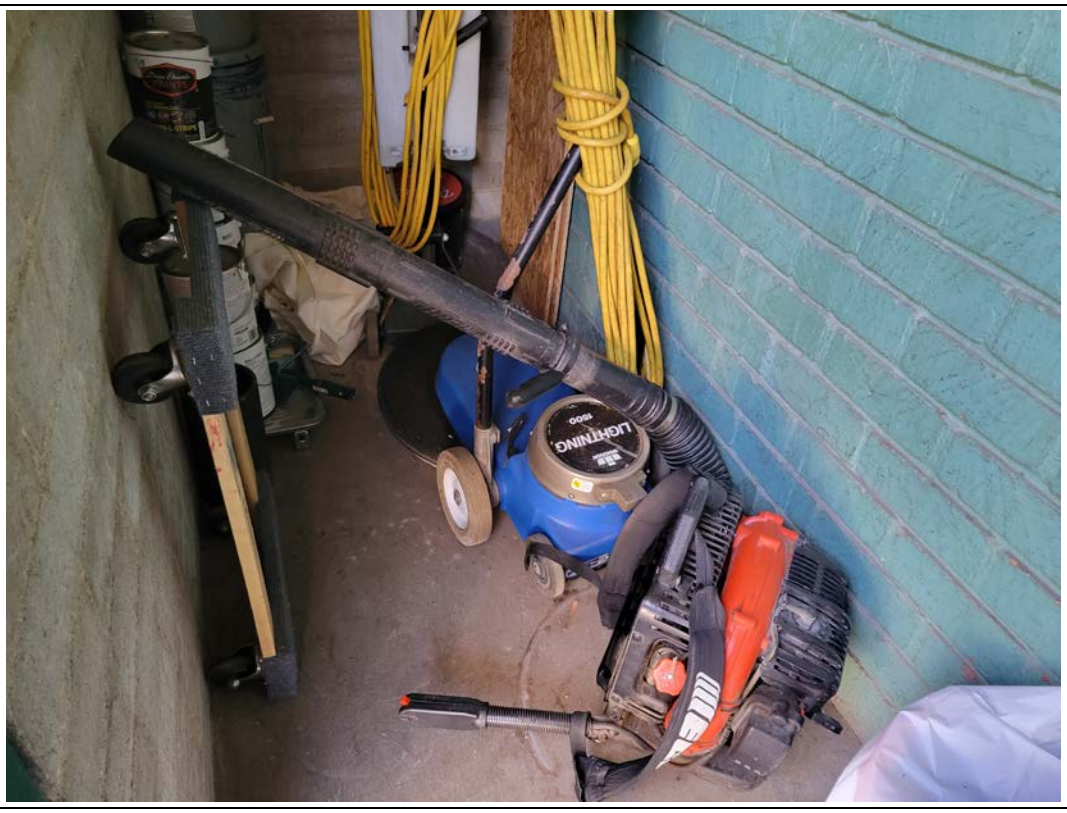
Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **9/21/2022**	
Client Name: **Michael Baker International**	**Site Location:** **471 Knight Way La Cañada, CA**	**Project No.** **13714.001**

Photo No. 15 **View of Direction of Photo:** Northeast **Description**: View of a large storm drain on the northern portion of the Site.	

Photo No. 16 **View of Direction of Photo:** Southwest **Description**: Cargo container used by the Paradise Canyon Elementary School for the storage of holiday carnival decorations.	

Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **9/21/2022**	
Client Name: **Michael Baker International**	**Site Location:** **471 Knight Way La Cañada, CA**	**Project No.** **13714.001**

Photo No. 17 **View of Direction of Photo:** South **Description**: Cleaning products in the custodial closet on the north side of the cafeteria building.	

Photo No. 18 **View of Direction of Photo:** West **Description**: Janitorial equipment in the custodial closet on the north side of the cafeteria building.	

Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **9/21/2022**	
Client Name: **Michael Baker International**	**Site Location:** **471 Knight Way La Cañada, CA**	**Project No.** **13714.001**

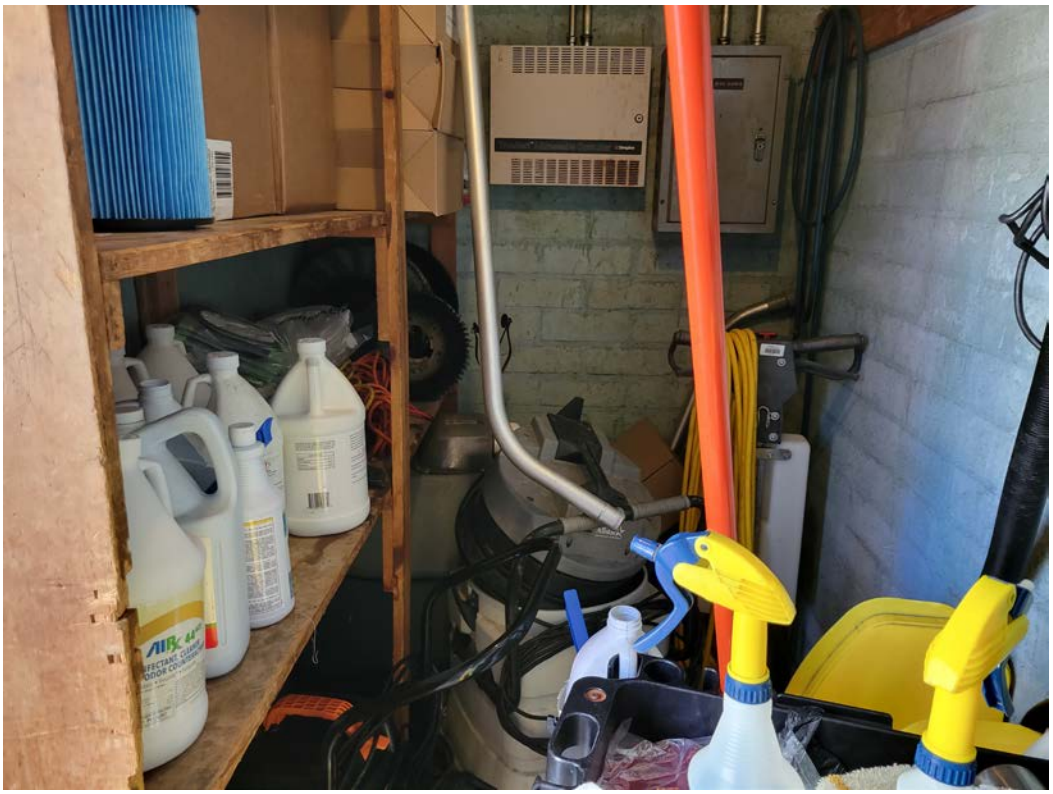
Photo No. 19 **View of Direction of Photo:** East **Description**: Janitorial equipment and cleaning products in the custodial closet on the north side of the cafeteria building.	

Photo No. 20 **View of Direction of Photo:** West **Description**: Electrical transformer on the east side of the campus.	

Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **9/21/2022**	
Client Name: **Michael Baker International**	**Site Location:** **471 Knight Way La Cañada, CA**	**Project No.** **13714.001**

Photo No. 21 **View of Direction of Photo:** Southwest **Description**: Circuit breaker box on the east side of the campus.	

Photo No. 22 **View of Direction of Photo:** Southeast **Description**: Electrical transformer on the west side of the Site.	

Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **9/21/2022**	
Client Name: **Michael Baker International**	**Site Location:** **471 Knight Way La Cañada, CA**	**Project No.** **13714.001**

Photo No. 23 **View of Direction of Photo:** West **Description**: Electrical breaker box on the west side of the campus.	

Photo No. 24 **View of Direction of Photo:** South **Description**: View between Building G and the northwestern portable classrooms.	

Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **9/21/2022**	
Client Name: **Michael Baker International**	**Site Location:** **471 Knight Way La Cañada, CA**	**Project No.** **13714.001**

Photo No. 25 **View of Direction of Photo:** East **Description**: View across the northern portion of building G.	

Photo No. 26 **View of Direction of Photo:** Northeast **Description**: View of cleaning products storage in a portable classroom on the northeastern portion of the Site.	

Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **9/21/2022**	
Client Name: **Michael Baker International**	**Site Location:** **471 Knight Way La Cañada, CA**	**Project No.** **13714.001**

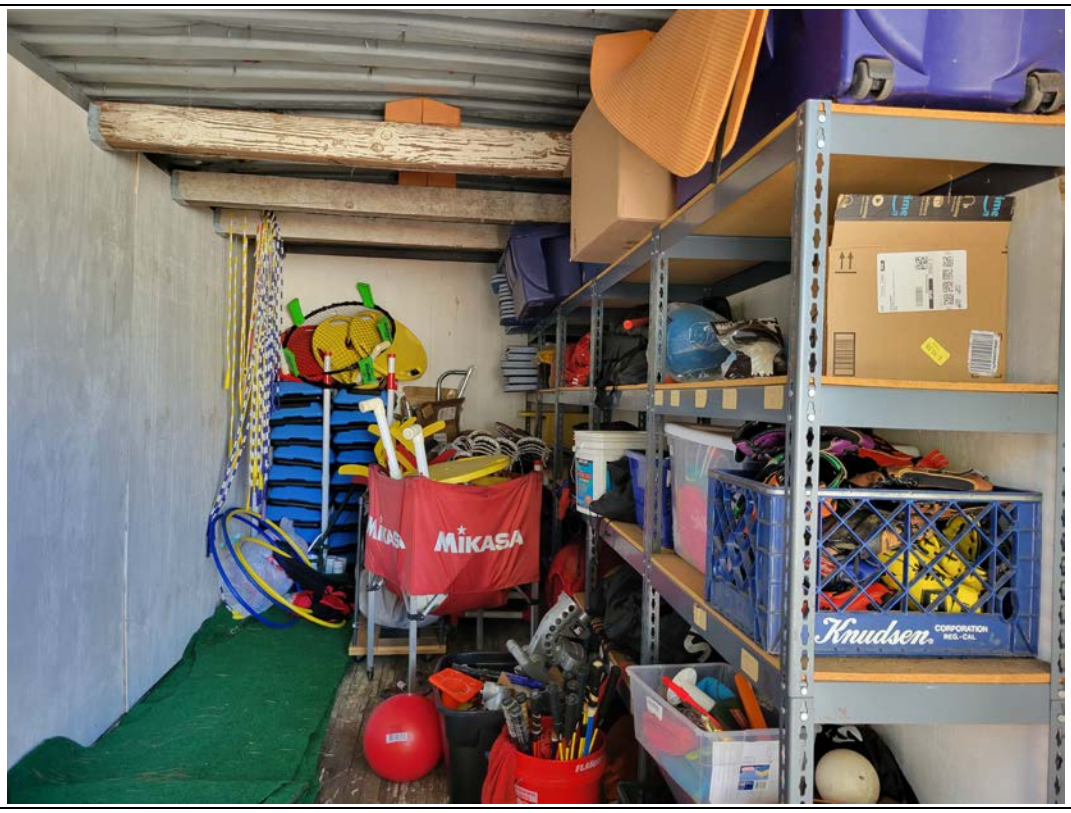
Photo No. 27 **View of Direction of Photo:** Southeast **Description**: Interior view of a sports equipment container adjacent to the northeastern boundary of the Site.	

Photo No. 28 **View of Direction of Photo:** West **Description**: Cleaning products storage in the custodial closet on the east side of building F.	

Leighton Consulting, Inc.	**PHOTOGRAPHIC RECORD** **9/21/2022**	
Client Name: **Michael Baker International**	**Site Location:** **471 Knight Way La Cañada, CA**	**Project No.** **13714.001**

Photo No. 29 **View of Direction of Photo:** North **Description**: View of the eastern adjacent property.	

Photo No. 30 **View of Direction of Photo:** South **Description**: View of the southern adjacent property across Knights Way.	

APPENDIX C
CLIENT SUPPLIED DOCUMENTATION

Phase I ESA Owner/Site Contact Interview Form

Interviewee Name: Harold Pierre, P.E. **Title:** Measure LCF Program Director

Address: 4490 Cornishon Ave, La Cañada, CA 91011 **Phone:** 818-952-8077

Relationship to Property: Bond Program Manager

Name of Property Owner: La Cañada Unified School District

Address of Property Owner: 4490 Cornishon Ave, La Cañada, CA 91011

Site Name: Paradise Canyon Elementary School

Property Address: 471 Knight Way, La Cañada Flintridge, CA 91011

Previous Street Names/Numbers:

General Business Type/Present Property Use: Institution/Education/Public

Property Utilization during Ownership: Institution/Education/Public

Assessor Parcel #: 5817-007-902 **Grant Total Square Footage:**

Total # of Buildings: **Date Built:**

Name and Address of Past Owners (include dates of ownership):

Past Property Uses (include dates):

Unknown

Source of Potable Water Supply (municipal/groundwater wells): Municipal (Valley Water Company)

Sewage Disposal (municipal/septic) (provide name of utility): Municipal (City of La Canada)

Means of Heating/Cooling (gas, electric, heating oil, etc.): Heating - gas; Cooling - Elec

Fuel Source for Heating/Air Conditioning (provide name of utility): SCE; Socal Gas

Neighboring Property Types (commercial/industrial/residential): Residential

Current Uses of Adjoining Properties:

North: Residential

South: Residential

East: Residential

West: Residential, Open Space/Gould Drainage &Trail

ARE THERE NOW, OR HAVE THERE BEEN IN THE PAST, ANY OF THESE ITEMS ONSITE OR ON ADJACENT PROPERTIES:

ITEM	YES	NO	UNK	ADJACENT PROPERTY
• Hazardous Materials	☐	☑	☐	☐
• Hazardous Waste	☐	☑	☐	☐
• MSDS Sheets	☐	☑	☐	☐
• Underground Storage Tanks (USTs)	☐	☑	☐	☐
• Aboveground Storage Tanks (ASTs)	☐	☑	☐	☐
• Vent Pipes, fill pipes, or access ways indicating a fill pipe to an underground storage area	☐	☑	☐	☐
• Odors	☐	☑	☐	☐
• Drums	☐	☑	☐	☐
• Electrical or hydraulic equipment known to contain Polychlorinated Biphenyls (PCBs)	☐	☐	☑	☐
• Stained soil or surfaces	☐	☑	☐	☐
• Drains	☐	☑	☐	☐
• Sumps	☐	☑	☐	☐
• Clarifier	☐	☑	☐	☐
• Pits, ponds, or lagoons	☐	☑	☐	☐
• Stressed vegetation	☐	☑	☐	☐
• Areas for dumping solid waste (landfill)	☐	☑	☐	☐
• Wastewater	☐	☑	☐	☐
• Wells (groundwater, oil, and/or gas)	☐	☑	☐	☐
• Septic Systems	☑	☐	☐	☐
• Fill Material (if fill material is on site, please state source of fill)	☐	☑	☐	☐

ADDITIONAL QUESTIONS:	YES	NO	UNK	REMARKS
Has the Site been used as any of the following: gas station, motor repair facility, commercial printing facility, metal plating, dry cleaners, photo developing laboratory, junkyard, or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility? If so, state which type of facility.		✔		
Are you aware of any Phase I or Phase II environmental site assessments, soil sampling reports, geotechnical or geologic reports, environmental compliance audit reports, environmental permits, registrations for USTs or ASTs, community right-to-know plans, environmental safety plans or reports regarding hazardous waste generation for the Site?	✔			Geotechnical reports prepared in connection with new facilities
Do you know of any notices or correspondence from any government agency relating to past or current violations of environmental laws with respect to the Site or relating to environmental liens encumbering the Site?		✔		
Do you know of any pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on or from the Site?		✔		
Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?		✔		
Do you know of any environmental concerns associated with the Site? If so please state in remarks column.		✔		
Do you know of any environmental concerns associated with any adjacent or nearby properties? If so please state in remarks column.		✔		

Additional Comments:

Septic systems were removed and/or abandoned.

Preparer presents that to the best of the preparer's knowledge the above statements and facts are true and correct, and to the best of the preparer's actual knowledge no material facts have been suppressed or misstated.

Signature

10/4/2022

Date

Phase I ESA Users Questionnaire

Project Name: Paradise Canyon Elementary School Modernization

Complete and Correct Address(es) of the Property and APN(s):

471 Knight Way, La Cañada Flintridge, CA 91011, 5817-007-902

User Company Name:	**User Name/Title:**
Linik Corp	Harold Pierre, P.E./Program Director

User Phone/Email: 818-952-8077 /hpierre@linikcorp.com

Interviewee Name and Relationship to Project:

Harold Pierre, P.E.; Program Director

Site Owner: La Cañada Unified School District

Reason Phase I is required:

construction/renovation - SFP requirement

Type of property:

Elementary School (Public)

Type of property transaction (e.g., Sale, purchase, exchange):

construction/renovation

Any scope of services beyond the ASTM Practice E 1527:

None

All Parties that will rely on the Phase I report:

DTSC; LCUSD;

Name and Contact Information for Site Contact:

Harold Pierre, P.E, 818-952-8077 /hpierre@linikcorp.com

Any special terms or conditions:

Any other pertinent knowledge or experience with the property (e.g., prior reports, documents, correspondence concerning the environmental conditions of the property):

(1). Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25).

Did a search of recorded land title records (or judicial records where appropriate identify any environmental liens filed or recorded against the property under federal, tribal, state or local law? ☐ Yes | ☐ No

If Yes, Describe:

(2). Activity and land use limitations (AULs) that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26).

Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law? ☐ Yes | ☐ No

If Yes, Describe:

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

Do you have any specialized knowledge or experience related to the property or the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?
☐ Yes | ☐ No

If Yes, Describe:

(4). Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 DRF 312.29).

Does the purchase price being paid for this property reasonably reflect the fair market value of the property?

☐ Yes | ☐ No

If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? ☐ Yes | ☐ No

If Yes, Describe: Question is not applicable.

(5). Commonly known or reasonable ascertainable information about the property (40 CFR 312.30).

Are you aware of commonly known or *reasonably ascertainable* information about the property that would help the *environmental professional* to identify conditions indicative of releases or threatened releases? For example, as user,

(a.) Do you know the past uses of the property? ☐ Yes | ☒ No

(b.) Do you know of specific chemicals that are present or once were present at the property? ☐ Yes | ☒ No

(c.) Do you know of spills or other chemical releases that have taken place at the property? ☐ Yes | ☒ No

(d.) Do you know of any environmental cleanups that have taken place at the property? ☐ Yes | ☒ No

If Yes, Describe:

(6). The degree of obviousness of the presence of likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).

Based on your knowledge and experience related to the *property* are there any *obvious* indicators that point to the presence or likely presence of contamination at the *property?* ☐ Yes | ☐ No

If Yes, Describe:



Signature

10/4/2022

Date Signed

…a learning community committed to personal growth and academic excellence.

Wendy Sinnette
Superintendent

Anais Wenn
Associate Superintendent
Educational Services

Jamie Lewsadder
Associate Superintendent
Technology Services

Dr. Debra Cradduck
Assistant Superintendent
Human Resources

Melissa Greenwood, CPA
Assistant Superintendent
Business and Operations

February 2, 2023

SENT VIA EMAIL TO: zfreeman@leightongroup.com

Mr. Zachary Freeman
Leighton
10532 Acacia Street, Suite B6
Rancho Cucamonga, CA 91730

Re Paradise Canyon Elementary School – Original Construction & Site Development

Dear Mr. Freeman:

The District has reviewed the drawings of the original construction projects completed at the site under DSA A# 03-6587, A#03-7597, and A# 03-8856. The electrical plans for those projects do not show the installation of transformers. The existing transformer next to building H was installed on or about 1997. Prior to that time there is no record of any transformers on the site. We also reviewed the grading plans associated with the construction of the existing buildings which show that organic materials and topsoil (two to three feet in some areas) would have been removed to construct the building pads prior to the construction of the building foundations. It may be reasonable to conclude that it is unlikely that soil contaminated with pesticides due to prior use of the site for agriculture would still be present. Copies of the grading plans and electrical drawings associated with the original construction of the site are attached (via e-mail) for your use.

If you have any questions, please contact me at (818)952-8077 or at hpierre@linikcorp.com.

Sincerely,
LA CAÑADA UNIFIED SCHOOL DISTRICT

Harold Pierre, PE
Program Director
Measure LCF Bond Program

Cc: Melissa Greenwood, CPA LCUSD
Jennifer Wu, Michael Baker Intl.

APPENDIX D
EDR RADIUS MAP WITH GEOCHECK

Paradise Canyon Elementary School
471 Knight Way
La Canada Flintridge, CA 91011

Inquiry Number: 7144104.2s
October 11, 2022

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	9
Orphan Summary	239
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-8
Physical Setting Source Map Findings	A-9
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527-21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

471 KNIGHT WAY
LA CANADA FLINTRIDGE, CA 91011

COORDINATES

Latitude (North):	34.2088960 - 34ˆ 12' 32.02''
Longitude (West):	118.1877170 - 118ˆ 11' 15.78''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	390580.8
UTM Y (Meters):	3785761.0
Elevation:	1315 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	12021711 PASADENA, CA
Version Date:	2018

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140515
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
471 KNIGHT WAY
LA CANADA FLINTRIDGE, CA 91011

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	LA CANADA UNIFIED SC	471 KNIGHT WAY	RCRA NonGen / NLR		TP
A2	LA CANADA UNIFIED SC	471 KNIGHT WAY	ECHO		TP
A3	LA CANADA UNIFIED SC	471 KNIGHT WAY	CA HWTS		TP
A4	1X LA CANADA SCH DIS	471 KNIGHT WY	CA HAZNET, CA HWTS		TP
A5	1X PARADISE CANYON S	471 KNIGHT WY	CA HAZNET, CA HWTS		TP
A6	LACANADA USD PARADIS	471 KNIGHT WAY	CA HWTS		TP
A7	1X PARADISE CANYON E	471 KNIGHT WAY	CA HAZNET, CA HWTS		TP
A8	LA CANADA UNIFIED SC	471 KNIGHT WAY	FINDS		TP
A9	PARADISE CANYON ELEM	471 KNIGHT WAY	CA HWTS		TP
Reg	JET PROPULSION LABOR	4800 OAK GROVE DR	NPL, SEMS, RCRA-LQG, US ENG CONTROLS, US INST...	Same	4151, 0.786, SE
10	CAROL HERMAN	5043 GOULD AVE	RCRA NonGen / NLR	Higher	161, 0.030, WNW
B11	DAN BRYANT	513 KNIGHT WAY	RCRA NonGen / NLR	Higher	234, 0.044, WSW
12	TYLER & ALICIA ROBER	405 KNIGHT WAY	RCRA NonGen / NLR	Lower	261, 0.049, ESE
B13	DAN BRYANT	516 KNIGHT WAY	RCRA NonGen / NLR	Higher	328, 0.062, WSW
14	CT MAX DEVELOPMENT	4928 GOULD AVENUE	RCRA NonGen / NLR	Lower	328, 0.062, SSW
15	KEITH TOBIAS	458 NOREN STREET	RCRA NonGen / NLR	Higher	574, 0.109, ENE
16	MICHELE LACHER	533 PAULETTE PL.	RCRA NonGen / NLR	Higher	579, 0.110, North
17	SVARCS ANTONS	376 MELLOW LN	EDR Hist Cleaner	Lower	609, 0.115, ESE
C18	ERIK AND KERRY WEINE	354 KNIGHT WAY	RCRA NonGen / NLR	Lower	768, 0.145, SE
C19	ERIK & KERRY WEINER	354 KNIGHT WAY	RCRA NonGen / NLR	Lower	768, 0.145, SE
20	SALA SONG	412 CANON DE PARAISO	RCRA NonGen / NLR	Lower	806, 0.153, SE
21	SCOTT DIEN	4903 INDIANOLA WAY	RCRA NonGen / NLR	Lower	946, 0.179, SW
22	JIN YAN CUI	5050 HOOK TREE RD	RCRA NonGen / NLR	Higher	1156, 0.219, WNW
23	ZHIQIU SUN	4943 DEL MONTE ROAD	RCRA NonGen / NLR	Lower	1163, 0.220, SSE
24	ELIZABETH BACHMAYER	4815 GOULD AVE	RCRA NonGen / NLR	Lower	1165, 0.221, SSW
25	HOMEWOOD REAL ESTATE	4905 HAMPTON ROAD	RCRA NonGen / NLR	Lower	1226, 0.232, South
26	LYNNE GRAVES	5212 REDWILLOW LN	RCRA NonGen / NLR	Higher	1229, 0.233, East
27	CALIFORNIA TARGET #0	635 FOOTHILL BLVD E	CA LUST, CA Cortese, CA HIST CORTESE, CA CERS	Lower	2619, 0.496, SSW
D28	NU WAY CLEANERS	525 FOOTHILL BLVD.	CA ENVIROSTOR	Lower	3029, 0.574, SSW
D29	PALACE CLEANERS	510 FOOTHILL BLVD	CA ENVIROSTOR, CA LOS ANGELES CO. HMS	Lower	3178, 0.602, South
30	FASHION CLEANERS	834 FOOTHILL BLVD.	CA ENVIROSTOR, CA DRYCLEANERS, CA EMI	Lower	3213, 0.609, SW
31	CRYSTAL CLEANERS	444 FOOTHILL BLVD.	CA ENVIROSTOR	Lower	3478, 0.659, South
32	JET PROPULSION LAB		FUDS	Higher	3895, 0.738, ESE
33	FLINTRIDGE CLEANERS	1121 FOOTHILL BLVD	RCRA-LQG, CA ENVIROSTOR, CA CERS HAZ WASTE, FINDS	Higher	4341, 0.822, WSW
34	JET PROPULSION LABOR	4800 OAK GROVE DR	CA SWF/LF, CA UST, CA HIST Cal-Sites, CA CERS HAZ...	Lower	4689, 0.888, SE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
LA CANADA UNIFIED SC 471 KNIGHT WAY LA CANADA FLINTRIDGE, CA 91011	RCRA NonGen / NLR EPA ID:: CAC003063339	CAC003063339
LA CANADA UNIFIED SC 471 KNIGHT WAY LA CANADA FLINTRIDGE, CA 91011	ECHO Registry ID: 110070807239	N/A
LA CANADA UNIFIED SC 471 KNIGHT WAY LA CANADA FLINTRIDGE, CA 91011	CA HWTS	N/A
1X LA CANADA SCH DIS 471 KNIGHT WY LA CANADA, CA 91011	CA HAZNET GEPAID: CAC000674280 CA HWTS	N/A
1X PARADISE CANYON S 471 KNIGHT WY LA CANADA, CA 91011	CA HAZNET GEPAID: CAC000024729 CA HWTS	N/A
LACANADA USD PARADIS 471 KNIGHT WAY LA CANADA, CA 91011	CA HWTS	N/A
1X PARADISE CANYON E 471 KNIGHT WAY LA CANADA, CA 91011	CA HAZNET GEPAID: CAX000139394 CA HWTS	N/A
LA CANADA UNIFIED SC 471 KNIGHT WAY LA CANADA FLINTRIDGE, CA 91011	FINDS	N/A
PARADISE CANYON ELEM 471 KNIGHT WAY LA CANADA, CA 91011	CA HWTS	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:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

Proposed NPL ---- Proposed National Priority List Sites
NPL LIENS ---- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---- Federal Facility Site Information listing

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE ---- Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ---- Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ---- RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-SQG ---- RCRA - Small Quantity Generators
RCRA-VSQG ---- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---- Land Use Control Information System

Federal ERNS list

ERNS ---- Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites

CA RESPONSE ---- State Response Sites

Lists of state and tribal leaking storage tanks

INDIAN LUST ---- Leaking Underground Storage Tanks on Indian Land

CA CPS-SLIC ---------- Statewide SLIC Cases

Lists of state and tribal registered storage tanks

FEMA UST ---------- Underground Storage Tank Listing
CA AST ---------- Aboveground Petroleum Storage Tank Facilities
INDIAN UST ---------- Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

CA VCP ---------- Voluntary Cleanup Program Properties
INDIAN VCP ---------- Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

CA BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

CA WMUDS/SWAT ---------- Waste Management Unit Database
CA SWRCY ---------- Recycler Database
CA HAULERS ---------- Registered Waste Tire Haulers Listing
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
ODI ---------- Open Dump Inventory
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

CA AOCONCERN ---------- Key Areas of Concerns in Los Angeles County
US HIST CDL ---------- Delisted National Clandestine Laboratory Register
CA SCH ---------- School Property Evaluation Program
CA CDL ---------- Clandestine Drug Labs
CA Toxic Pits ---------- Toxic Pits Cleanup Act Sites
US CDL ---------- National Clandestine Laboratory Register
CA PFAS ---------- PFAS Contamination Site Location Listing
CA AQUEOUS FOAM ---------- Former Fire Training Facility Assessments Listing

Local Lists of Registered Storage Tanks

CA FID UST ---------- Facility Inventory Database

Local Land Records

CA LIENS ---------- Environmental Liens Listing
LIENS 2 ---------- CERCLA Lien Information
CA DEED ---------- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System

CA CHMIRS	California Hazardous Material Incident Report System
CA LDS	Land Disposal Sites Listing
CA MCS	Military Cleanup Sites Listing
CA SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
SSTS	Section 7 Tracking Systems
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
UXO	Unexploded Ordnance Sites
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CA CUPA Listings	CUPA Resources List
CA ENF	Enforcement Action Listing
CA Financial Assurance	Financial Assurance Information Listing
CA ICE	ICE
CA HWP	EnviroStor Permitted Facilities Listing
CA HWT	Registered Hazardous Waste Transporter Database
CA MINES	Mines Site Location Listing
CA MWMP	Medical Waste Management Program Listing
CA PEST LIC	Pesticide Regulation Licenses Listing
CA PROC	Certified Processors Database
CA Notify 65	Proposition 65 Records
LA Co. Site Mitigation	Site Mitigation List
CA UIC	UIC Listing
CA UIC GEO	UIC GEO (GEOTRACKER)
CA WASTEWATER PITS	Oil Wastewater Pits Listing
CA MILITARY PRIV SITES	MILITARY PRIV SITES (GEOTRACKER)
CA PROJECT	PROJECT (GEOTRACKER)
CA WDR	Waste Discharge Requirements Listing

EXECUTIVE SUMMARY

CA OTHER OIL GAS ---- OTHER OIL & GAS (GEOTRACKER)
CA PROD WATER PONDS ---- PROD WATER PONDS (GEOTRACKER)
CA SAMPLING POINT ---- SAMPLING POINT (GEOTRACKER)
CA WELL STIM PROJ ---- Well Stimulation Project (GEOTRACKER)
CA LOS ANGELES CO LF METHANE ---- Methane Producing Landfills
MINES MRDS ---- Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---- EDR Proprietary Manufactured Gas Plants
EDR Hist Auto ---- EDR Exclusive Historical Auto Stations

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

CA RGA LF ---- Recovered Government Archive Solid Waste Facilities List
CA RGA LUST ---- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

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 07/26/2022 has revealed that there is 1 NPL site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JET PROPULSION LABOR Cerclis ID:: 903438 EPA Id: CA9800013030	***4800 OAK GROVE DR***	***SE 1/2 - 1 (0.786 mi.)***	***0***	***17***

Lists of state- and tribal hazardous waste facilities

CA ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the CA ENVIROSTOR list, as provided by EDR, and dated 07/25/2022 has revealed that there are 5 CA ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FLINTRIDGE CLEANERS Facility Id: 19170003 Status: Inactive - Action Required	***1121 FOOTHILL BLVD***	***WSW 1/2 - 1 (0.822 mi.)***	***33***	***169***

Lower Elevation	Address	Direction / Distance	Map ID	Page
NU WAY CLEANERS Facility Id: 60001695 Status: No Further Action	525 FOOTHILL BLVD.	SSW 1/2 - 1 (0.574 mi.)	D28	163
PALACE CLEANERS Facility Id: 60001684 Status: Refer: EPA	***510 FOOTHILL BLVD***	***S 1/2 - 1 (0.602 mi.)***	***D29***	***164***
FASHION CLEANERS Facility Id: 60002259 Status: Refer: Local Agency	***834 FOOTHILL BLVD.***	***SW 1/2 - 1 (0.609 mi.)***	***30***	***165***
CRYSTAL CLEANERS Facility Id: 19530004 Status: Inactive - Action Required	444 FOOTHILL BLVD.	S 1/2 - 1 (0.659 mi.)	31	167

Lists of state and tribal leaking storage tanks

CA LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CA LUST list, as provided by EDR, has revealed that there is 1 CA LUST site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CALIFORNIA TARGET #0 Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 05/23/2022 Status: Completed - Case Closed	***635 FOOTHILL BLVD E***	***SSW 1/4 - 1/2 (0.496 mi.)***	***27***	***159***

EXECUTIVE SUMMARY

Facility Id: I-20762
Status: Case Closed
Global Id: T0603704457
Global ID: T0603704457

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

CA 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 ENVIROSTOR.

A review of the CA HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 CA HIST Cal-Sites site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
JET PROPULSION LABOR	***4800 OAK GROVE DR***	***SE 1/2 - 1 (0.888 mi.)***	***34***	***197***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/20/2022 has revealed that there are 16 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CAROL HERMAN EPA ID:: CAC003007399	5043 GOULD AVE	WNW 0 - 1/8 (0.030 mi.)	10	119
DAN BRYANT EPA ID:: CAC003170623	513 KNIGHT WAY	WSW 0 - 1/8 (0.044 mi.)	B11	121
DAN BRYANT EPA ID:: CAC003162380	516 KNIGHT WAY	WSW 0 - 1/8 (0.062 mi.)	B13	126
KEITH TOBIAS EPA ID:: CAC002972500	458 NOREN STREET	ENE 0 - 1/8 (0.109 mi.)	15	131
MICHELE LACHER EPA ID:: CAC002985760	533 PAULETTE PL.	N 0 - 1/8 (0.110 mi.)	16	134
JIN YAN CUI EPA ID:: CAC003131163	5050 HOOK TREE RD	WNW 1/8 - 1/4 (0.219 mi.)	22	147
LYNNE GRAVES EPA ID:: CAC003108788	5212 REDWILLOW LN	E 1/8 - 1/4 (0.233 mi.)	26	157

Lower Elevation	Address	Direction / Distance	Map ID	Page
TYLER & ALICIA ROBER	405 KNIGHT WAY	ESE 0 - 1/8 (0.049 mi.)	12	124

EPA ID:: CAC003162888				
CT MAX DEVELOPMENT EPA ID:: CAC003081134	4928 GOULD AVENUE	SSW 0 - 1/8 (0.062 mi.)	14	129
ERIK AND KERRY WEINE EPA ID:: CAC003140232	354 KNIGHT WAY	SE 1/8 - 1/4 (0.145 mi.)	C18	137
ERIK & KERRY WEINER EPA ID:: CAC003147844	354 KNIGHT WAY	SE 1/8 - 1/4 (0.145 mi.)	C19	139
SALA SONG EPA ID:: CAC003134487	412 CANON DE PARAISO	SE 1/8 - 1/4 (0.153 mi.)	20	142
SCOTT DIEN EPA ID:: CAC003164779	4903 INDIANOLA WAY	SW 1/8 - 1/4 (0.179 mi.)	21	144
ZHIQIU SUN EPA ID:: CAC002967775	4943 DEL MONTE ROAD	SSE 1/8 - 1/4 (0.220 mi.)	23	149
ELIZABETH BACHMAYER EPA ID:: CAC003049503	4815 GOULD AVE	SSW 1/8 - 1/4 (0.221 mi.)	24	152
HOMEWOOD REAL ESTATE EPA ID:: CAC003156681	4905 HAMPTON ROAD	S 1/8 - 1/4 (0.232 mi.)	25	154

FUDS: 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.

A review of the FUDS list, as provided by EDR, and dated 08/11/2022 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JET PROPULSION LAB		ESE 1/2 - 1 (0.738 mi.)	32	168

ROD: 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 07/26/2022 has revealed that there is 1 ROD site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JET PROPULSION LABOR EPA ID:: CA9800013030	***4800 OAK GROVE DR***	***SE 1/2 - 1 (0.786 mi.)***	***0***	***17***

CA Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the CA Cortese list, as provided by EDR, and dated 06/21/2022 has revealed that there is 1 CA Cortese site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CALIFORNIA TARGET #0 Cleanup Status: COMPLETED - CASE CLOSED	***635 FOOTHILL BLVD E***	***SSW 1/4 - 1/2 (0.496 mi.)***	***27***	***159***

CA HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the CA HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 CA HIST CORTESE site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
CALIFORNIA TARGET #0 Reg Id: I-20762	***635 FOOTHILL BLVD E***	***SSW 1/4 - 1/2 (0.496 mi.)***	***27***	***159***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

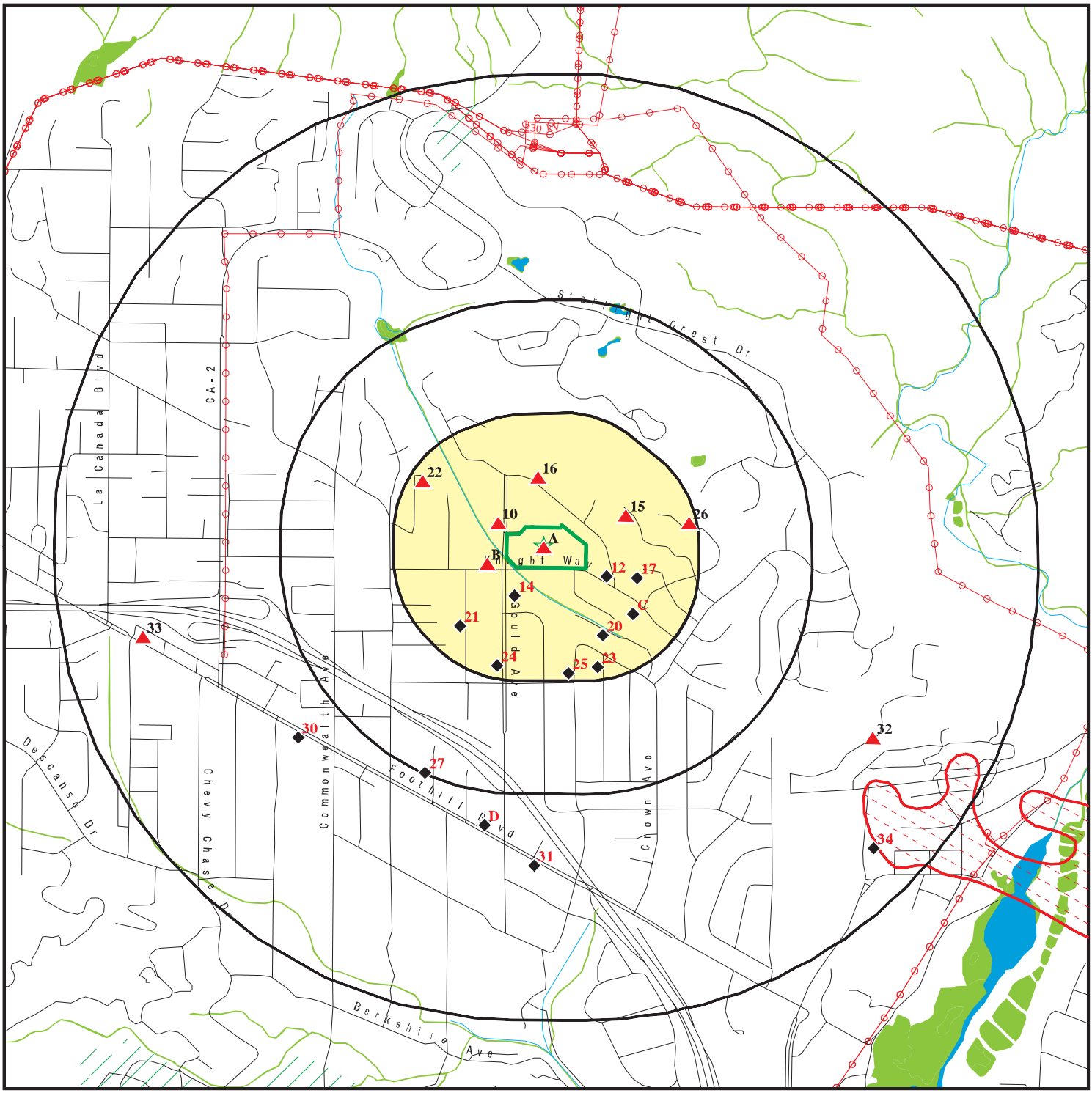
A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SVARCS ANTONS	376 MELLOW LN	ESE 0 - 1/8 (0.115 mi.)	17	136

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 7144104.2S



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

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

N

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:	Paradise Canyon Elementary School	CLIENT:	Leighton Consulting
ADDRESS:	471 Knight Way La Canada Flintridge CA 91011	CONTACT:	Zachary Freeman
LAT/LONG:	34.208896 / 118.187717	INQUIRY #:	7144104.2s
		DATE:	October 11, 2022 2:23 pm

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DETAIL MAP - 7144104.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Paradise Canyon Elementary School ADDRESS: 471 Knight Way La Canada Flintridge CA 91011 LAT/LONG: 34.208896 / 118.187717	CLIENT: Leighton Consulting CONTACT: Zachary Freeman INQUIRY #: 7144104.2s DATE: October 11, 2022 2:24 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	1	NR	1
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
CA RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
CA ENVIROSTOR	1.000		0	0	0	5	NR	5
Lists of state and tribal landfills and solid waste disposal facilities								
CA SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal leaking storage tanks								
CA LUST	0.500		0	0	1	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
CA CPS-SLIC	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
CA UST	0.250		0	0	NR	NR	NR	0
CA AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
CA VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
CA BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
CA WMUDS/SWAT	0.500		0	0	0	NR	NR	0
CA SWRCY	0.500		0	0	0	NR	NR	0
CA HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
CA AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	0.001		0	NR	NR	NR	NR	0
CA HIST Cal-Sites	1.000		0	0	0	1	NR	1
CA SCH	0.250		0	0	NR	NR	NR	0
CA CDL	0.001		0	NR	NR	NR	NR	0
CA CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
CA Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
CA PFAS	0.500		0	0	0	NR	NR	0
CA AQUEOUS FOAM	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA SWEEPS UST	0.250		0	0	NR	NR	NR	0
CA HIST UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA FID UST	0.250		0	0	NR	NR	NR	0
CA CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
CA LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
CA DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CA CHMIRS	0.001		0	NR	NR	NR	NR	0
CA LDS	0.001		0	NR	NR	NR	NR	0
CA MCS	0.001		0	NR	NR	NR	NR	0
CA SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	1	7	9	NR	NR	NR	17
FUDS	1.000		0	0	0	1	NR	1
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	1	NR	1
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001	1	0	NR	NR	NR	NR	1
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
ECHO	0.001	1	0	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CA Cortese	0.500		0	0	1	NR	NR	1
CA CUPA Listings	0.250		0	0	NR	NR	NR	0
CA DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CA EMI	0.001		0	NR	NR	NR	NR	0
CA ENF	0.001		0	NR	NR	NR	NR	0
CA Financial Assurance	0.001		0	NR	NR	NR	NR	0
CA HAZNET	0.001	3	0	NR	NR	NR	NR	3
CA ICE	0.001		0	NR	NR	NR	NR	0
CA HIST CORTESE	0.500		0	0	1	NR	NR	1
CA LOS ANGELES CO. HMS	0.001		0	NR	NR	NR	NR	0
CA HWP	1.000		0	0	0	0	NR	0
CA HWT	0.250		0	0	NR	NR	NR	0
NY MANIFEST	0.250		0	0	NR	NR	NR	0
CA MINES	0.250		0	0	NR	NR	NR	0
CA MWMP	0.250		0	0	NR	NR	NR	0
CA NPDES	0.001		0	NR	NR	NR	NR	0
CA PEST LIC	0.001		0	NR	NR	NR	NR	0
CA PROC	0.500		0	0	0	NR	NR	0
CA Notify 65	1.000		0	0	0	0	NR	0
LA Co. Site Mitigation	0.001		0	NR	NR	NR	NR	0
CA UIC	0.001		0	NR	NR	NR	NR	0
CA UIC GEO	0.001		0	NR	NR	NR	NR	0
CA WASTEWATER PITS	0.500		0	0	0	NR	NR	0
CA WDS	0.001		0	NR	NR	NR	NR	0
CA WIP	0.250		0	0	NR	NR	NR	0
CA MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
CA PROJECT	0.001		0	NR	NR	NR	NR	0
CA WDR	0.001		0	NR	NR	NR	NR	0
CA CIWQS	0.001		0	NR	NR	NR	NR	0
CA CERS	0.001		0	NR	NR	NR	NR	0
CA NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
CA OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
CA PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
CA SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
CA WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
CA HWTS	TP	6	NR	NR	NR	NR	NR	6
CA LOS ANGELES CO LF METHANE	0.500		0	0	0	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		1	NR	NR	NR	NR	1

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

CA RGA LF	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		12	8	9	3	9	0	41

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **LA CANADA UNIFIED SCHOOL DISTRICT** **RCRA NonGen / NLR** **1026163348**
Target **471 KNIGHT WAY** **CAC003063339**
Property **LA CANADA FLINTRIDGE, CA 91011**

Site 1 of 9 in cluster A

Actual:
1315 ft.

RCRA Listings:

Date Form Received by Agency:		20200415
Handler Name:	LA CANADA UNIFIED SCHOOL DISTRICT	
Handler Address:		471 KNIGHT WAY
Handler City,State,Zip:		LA CANADA FLINTRIDGE, CA 91011-2725
EPA ID:		CAC003063339
Contact Name:		RANDY SMITH
Contact Address:		1100 FOOTHILL BLVD
Contact City,State,Zip:		LA CANADA, CA 91011
Contact Telephone:		818-952-8321
Contact Fax:		Not reported
Contact Email:		RSMITH@LCUSD.NET
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		1100 FOOTHILL BLVD
Mailing City,State,Zip:		LA CANADA, CA 91011
Owner Name:	LA CANADA UNIFIED SCHOOL DISTRICT	
Owner Type:		Other
Operator Name:	RANDY SMITH	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

LA CANADA UNIFIED SCHOOL DISTRICT (Continued) **1026163348**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200424
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: LA CANADA UNIFIED SCHOOL DISTRICT	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4490 CORNISHON AVE
Owner/Operator City,State,Zip:	LA CANADA, CA 91011
Owner/Operator Telephone:	818-952-8320
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: RANDY SMITH	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1100 FOOTHILL BLVD
Owner/Operator City,State,Zip:	LA CANADA, CA 91011
Owner/Operator Telephone:	818-952-8321
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

LA CANADA UNIFIED SCHOOL DISTRICT (Continued) **1026163348**

Historic Generators:
- Receive Date: 20200415
- Handler Name: LA CANADA UNIFIED SCHOOL DISTRICT
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 61111
- NAICS Description: ELEMENTARY AND SECONDARY SCHOOLS

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

A2 Target Property **LA CANADA UNIFIED SCHOOL DISTRICT**
471 KNIGHT WAY
LA CANADA FLINTRIDGE, CA 91011

ECHO **1026215635**
N/A

Site 2 of 9 in cluster A

Actual: 1315 ft.

ECHO:
- Envid: 1026215635
- Registry ID: 110070807239
- DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110070807239
- Name: LA CANADA UNIFIED SCHOOL DISTRICT
- Address: 471 KNIGHT WAY
- City,State,Zip: LA CANADA FLINTRIDGE, CA 91011

A3 Target Property **LA CANADA UNIFIED SCHOOL DISTRICT**
471 KNIGHT WAY
LA CANADA FLINTRIDGE, CA 91011

CA HWTS **S126377188**
N/A

Site 3 of 9 in cluster A

Actual: 1315 ft.

HWTS:
- Name: LA CANADA UNIFIED SCHOOL DISTRICT
- Address: 471 KNIGHT WAY
- Address 2: Not reported
- City,State,Zip: LA CANADA FLINTRIDGE, CA 91011
- EPA ID: CAC003063339
- Inactive Date: 07/15/2020
- Create Date: 04/15/2020
- Last Act Date: Not reported

LA CANADA UNIFIED SCHOOL DISTRICT (Continued) **S126377188**

Mailing Name:	Not reported
Mailing Address:	1100 FOOTHILL BLVD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LA CANADA, CA 91011
Owner Name:	LA CANADA UNIFIED SCHOOL DISTRICT
Owner Address:	4490 CORNISHON AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	LA CANADA, CA 91011
Contact Name:	RANDY SMITH
Contact Address:	1100 FOOTHILL BLVD
Contact Address 2:	Not reported
City,State,Zip:	LA CANADA, CA 91011
Facility Status:	Inactive
Facility Type:	TEMPORARY
Category:	STATE
Latitude:	34.20823436
Longitude:	-118.18819176

NAICS:

EPA ID:	CAC003063339
Create Date:	2020-04-15 10:38:46.530
NAICS Code:	61111
NAICS Description:	Elementary and Secondary Schools
Issued EPA ID Date:	2020-04-15 10:38:46.53000
Inactive Date:	2020-07-15 10:38:46.51300
Facility Name:	LA CANADA UNIFIED SCHOOL DISTRICT
Facility Address:	471 KNIGHT WAY
Facility Address 2:	Not reported
Facility City:	LA CANADA FLINTRIDGE
Facility County:	Not reported
Facility State:	CA
Facility Zip:	910112725

A4 **1X LA CANADA SCH DIST/PARADISE CYN ELEM** **CA HAZNET** **S123743375**
Target **471 KNIGHT WY** **CA HWTS** **N/A**
Property **LA CANADA, CA 91011**

Site 4 of 9 in cluster A

Actual:
1315 ft.

HAZNET:

Name:	1X LA CANADA SCH DIST/PARADISE CYN ELEM
Address:	471 KNIGHT WY
Address 2:	Not reported
City,State,Zip:	LA CANADA, CA 910110000
Contact:	WELLS, JANE/ENV SFY COOR
Telephone:	8189528325
Mailing Name:	Not reported
Mailing Address:	--
Year:	1992
Gepaid:	CAC000674280
TSD EPA ID:	IRC957100891
CA Waste Code:	151 - Asbestos containing waste
Disposal Method:	D99 - Disposal, Other
Tons:	0.1685

1X LA CANADA SCH DIST/PARADISE CYN ELEM (Continued) **S123743375**

HWTS:

Name:	1X LA CANADA SCH DIST/PARADISE CYN ELEM
Address:	471 KNIGHT WY
Address 2:	Not reported
City,State,Zip:	LA CANADA, CA 91011
EPA ID:	CAC000674280
Inactive Date:	10/25/2000
Create Date:	02/28/1992
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	Not reported
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LA CANADA, CA 910110000
Owner Name:	DIST
Owner Address:	Not reported
Owner Address 2:	Not reported
Owner City,State,Zip:	Not reported
Contact Name:	WELLS, JANE/ENV SFY COOR
Contact Address:	Not reported
Contact Address 2:	Not reported
City,State,Zip:	Not reported
Facility Status:	Inactive
Facility Type:	TEMPORARY
Category:	STATE
Latitude:	34.208198
Longitude:	-118.18827

A5 **1X PARADISE CANYON SCHOOL** **CA HAZNET** **S123703015**
Target **471 KNIGHT WY** **CA HWTS** **N/A**
Property **LA CANADA, CA 91011**

Site 5 of 9 in cluster A

Actual:
1315 ft.

HAZNET:

Name:	1X PARADISE CANYON SCHOOL
Address:	471 KNIGHT WY
Address 2:	Not reported
City,State,Zip:	LA CANADA, CA 910110000
Contact:	MR HOLMAN
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	5039 PALM DR
Year:	1989
Gepaid:	CAC000024729
TSD EPA ID:	AZC000000150
CA Waste Code:	151 - Asbestos containing waste
Disposal Method:	D80 - Disposal, Land Fill
Tons:	0.64
Year:	1987
Gepaid:	CAC000024729
TSD EPA ID:	CAD067786749
CA Waste Code:	151 - Asbestos containing waste
Disposal Method:	D80 - Disposal, Land Fill
Tons:	0.025

1X PARADISE CANYON SCHOOL (Continued) **S123703015**

HWTS:

Name:	1X PARADISE CANYON SCHOOL
Address:	471 KNIGHT WY
Address 2:	Not reported
City,State,Zip:	LA CANADA, CA 91011
EPA ID:	CAC000024729
Inactive Date:	10/25/2000
Create Date:	07/22/1987
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	5039 PALM DR
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LA CANADA, CA 910110000
Owner Name:	Not reported
Owner Address:	Not reported
Owner Address 2:	Not reported
Owner City,State,Zip:	Not reported
Contact Name:	MR HOLMAN
Contact Address:	Not reported
Contact Address 2:	Not reported
City,State,Zip:	Not reported
Facility Status:	Inactive
Facility Type:	TEMPORARY
Category:	STATE
Latitude:	34.208198
Longitude:	-118.18827

A6 **LACANADA USD PARADISE CANYON** **CA HWTS** **S124785797**
Target **471 KNIGHT WAY** **N/A**
Property **LA CANADA, CA 91011**

Site 6 of 9 in cluster A

Actual:
1315 ft.

HWTS:

Name:	LACANADA USD PARADISE CANYON
Address:	471 KNIGHT WAY
Address 2:	Not reported
City,State,Zip:	LA CANADA, CA 91011
EPA ID:	CAL000069420
Inactive Date:	06/30/1996
Create Date:	06/09/1992
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	5039 PALM DR
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LA CANADA FLINTRIDGE, CA 910112725
Owner Name:	LA CANADA UNIFIED SCHOOL DIST
Owner Address:	Not reported
Owner Address 2:	Not reported
Owner City,State,Zip:	Not reported
Contact Name:	C T HOLMAN
Contact Address:	INACTIVE PER VQ96
Contact Address 2:	Not reported
City,State,Zip:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE

LACANADA USD PARADISE CANYON (Continued) **S124785797**

Latitude: 34.208234
Longitude: -118.188192

A7
Target
Property

1X PARADISE CANYON ELEMENTARY
471 KNIGHT WAY
LA CANADA, CA 91011

CA HAZNET **S123778780**
CA HWTS **N/A**

Site 7 of 9 in cluster A

Actual:
1315 ft.

HAZNET:

Name:	1X PARADISE CANYON ELEMENTARY
Address:	471 KNIGHT WAY
Address 2:	Not reported
City,State,Zip:	LA CANADA, CA 910110000
Contact:	MICHAEL W.LONG
Telephone:	2137901109
Mailing Name:	Not reported
Mailing Address:	--
Year:	1983
Gepaid:	CAX000139394
TSD EPA ID:	CAD067786749
CA Waste Code:	151 - Asbestos containing waste
Disposal Method:	D80 - Disposal, Land Fill
Tons:	0.5

HWTS:

Name:	1X PARADISE CANYON ELEMENTARY
Address:	471 KNIGHT WAY
Address 2:	Not reported
City,State,Zip:	LA CANADA, CA 91011
EPA ID:	CAX000139394
Inactive Date:	04/30/1986
Create Date:	11/20/1984
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	Not reported
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LA CANADA, CA 910110000
Owner Name:	Not reported
Owner Address:	Not reported
Owner Address 2:	Not reported
Owner City,State,Zip:	Not reported
Contact Name:	MICHAEL W.LONG
Contact Address:	Not reported
Contact Address 2:	Not reported
City,State,Zip:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.208198
Longitude:	-118.18827

A8 **LA CANADA UNIFIED SCHOOL DISTRICT** **FINDS** **1026448971**
Target **471 KNIGHT WAY** **N/A**
Property **LA CANADA FLINTRIDGE, CA 91011**

Site 8 of 9 in cluster A

Actual: **1315 ft.**

FINDS:
Registry ID: 110070807239

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A9 **PARADISE CANYON ELEMENTARY SCHOOL** **CA HWTS** **S124567637**
Target **471 KNIGHT WAY** **N/A**
Property **LA CANADA, CA 91011**

Site 9 of 9 in cluster A

Actual: **1315 ft.**

HWTS:

Name:	PARADISE CANYON ELEMENTARY SCHOOL
Address:	471 KNIGHT WAY
Address 2:	Not reported
City,State,Zip:	LA CANADA, CA 91011
EPA ID:	CAC002350545
Inactive Date:	09/10/2002
Create Date:	08/27/2001
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	729 E ARROW HWY
Mailing Address 2:	Not reported
Mailing City,State,Zip:	AZUSA, CA 917020000
Owner Name:	LACANADA USD
Owner Address:	729 E ARROW HWY
Owner Address 2:	Not reported
Owner City,State,Zip:	AZUSA, CA 917020000
Contact Name:	DIANA HILL
Contact Address:	729 E ARROW HWY
Contact Address 2:	Not reported
City,State,Zip:	AZUSA, CA 917020000
Facility Status:	Inactive
Facility Type:	TEMPORARY
Category:	STATE
Latitude:	34.208198
Longitude:	-118.18827

NPL **JET PROPULSION LABORATORY (NASA)** **NPL** **1000128791**
Region **4800 OAK GROVE DR** **SEMS** **91109NSJTP4800O**
SE **PASADENA, CA 91109** **RCRA-LQG**
1/2-1 **US ENG CONTROLS**
4151 ft. **US INST CONTROLS**
CA SWEEPS UST
TRIS
ROD
ICIS
US AIRS
FINDS
ECHO
DOCKET HWC
NY MANIFEST
CA NON-CASE INFO

NPL:

EPA Region:	9
EPA ID:	CA9800013030
Site ID:	903438
Name:	JET PROPULSION LABORATORY (NASA)
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Federal:	Y
Final Date:	1992-10-14 00:00:00
Latitude:	34.201185
Longitude:	-118.167434
Site Score:	50
NAI:	Not reported
Native American Entity:	Not reported

NPL:

NPL Status:	Currently on the Final NPL
Substance ID:	Not reported
CAS Number:	Not reported
Substance:	Not reported
Pathway:	Not reported
Scoring:	Not reported

NPL Status:	Currently on the Final NPL
Substance ID:	A038
CAS Number:	Not reported
Substance:	NICKEL AND COMPOUNDS
Pathway:	NO PATHWAY INDICATED
Scoring:	1

NPL Status:	Currently on the Final NPL
Substance ID:	C113
CAS Number:	100-42-5
Substance:	STYRENE
Pathway:	NO PATHWAY INDICATED
Scoring:	1

NPL Status:	Currently on the Final NPL
Substance ID:	C177
CAS Number:	Not reported
Substance:	COBALT AND COMPOUNDS
Pathway:	NO PATHWAY INDICATED
Scoring:	1

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

NPL Status: Currently on the Final NPL
Substance ID: C178
CAS Number: Not reported
Substance: COPPER AND COMPOUNDS
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C246
CAS Number: Not reported
Substance: VANADIUM AND COMPOUNDS
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C247
CAS Number: Not reported
Substance: ZINC AND COMPOUNDS
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C324
CAS Number: 156-59-2
Substance: CIS-1,2-DICHLOROETHYLENE
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C431
CAS Number: 86-73-7
Substance: FLUORENE
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: C460
CAS Number: 7439-97-6
Substance: MERCURY
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: D004
CAS Number: 7440-38-2
Substance: ARSENIC
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: D005
CAS Number: 7440-39-3
Substance: BARIUM
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Substance ID: D006
CAS Number: 7440-43-9
Substance: CADMIUM (CD)
Pathway: GROUND WATER PATHWAY
Scoring: 3

NPL Status: Currently on the Final NPL
Substance ID: D007
CAS Number: 7440-47-3
Substance: CHROMIUM
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: D008
CAS Number: 7439-92-1
Substance: LEAD (PB)
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: P022
CAS Number: 75-15-0
Substance: CARBON DISULFIDE
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U002
CAS Number: 67-64-1
Substance: ACETONE
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U037
CAS Number: 108-90-7
Substance: CHLOROBENZENE
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U044
CAS Number: 67-66-3
Substance: CHLOROFORM
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U069
CAS Number: 84-74-2
Substance: DI-N-BUTYL PHTHALATE
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U070

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

CAS Number: 95-50-1
Substance: DICHLOROBENZENE, 1,2-
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U072
CAS Number: 106-46-7
Substance: DICHLOROBENZENE, 1,4-
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U076
CAS Number: 75-34-3
Substance: DICHLOROETHANE, 1,1-
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U077
CAS Number: 107-06-2
Substance: DICHLOROETHANE, 1,2-
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U080
CAS Number: 75-09-2
Substance: METHYLENE CHLORIDE
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U159
CAS Number: 78-93-3
Substance: METHYL ETHYL KETONE
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U165
CAS Number: 91-20-3
Substance: NAPHTHALENE
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U210
CAS Number: 127-18-4
Substance: TETRACHLOROETHENE
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U211
CAS Number: 56-23-5

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Substance: CARBON TETRACHLORIDE
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U211
CAS Number: 56-23-5
Substance: CARBON TETRACHLORIDE
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U220
CAS Number: 108-88-3
Substance: TOLUENE
Pathway: NO PATHWAY INDICATED
Scoring: 1

NPL Status: Currently on the Final NPL
Substance ID: U228
CAS Number: 79-01-6
Substance: TRICHLOROETHYLENE (TCE)
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U239
CAS Number: 1330-20-7
Substance: XYLENE
Pathway: NO PATHWAY INDICATED
Scoring: 1

Summary Details:

Conditions at Proposal February 7, 1992): The Jet Propulsion Laboratory JPL) covers 176 acres at 4800 Oak Grove Drive in Pasadena, Los Angeles County, California. The area is primarily residential with some light commercial operations. Itis bordered on the east by the Arroyo Seco Dry Wash, on the west by a residential neighborhood, on the north by the San Gabriel Mountains, and on the south by an equestrian club and a Los Angeles County Fire Station. Approximately 120,800 people live within 4 miles of the site. The Army developed and operated JPL between 1945 and 1957; jurisdiction was transferred to the National Aeronautics and Space Administration NASA) in 1958. The California Institute of Technology is under contract to NASA to conduct research and development at JPL in aeronautics, space technology, and space transportation. JPL s primary activities include exploration of the earth and solar system with automated spacecraft, and the design andoperation of the Global Deep Space Tracking Network. Among the sources of ha ardous substances at the site are numerous seepage pits, where liquid and solid wastes were reportedly disposed of; a settling chamber in the JPL storm drainsystem; contaminated soil excavated from part of the system; and an area where waste solvents were dumped into three holes. The general types of ha ardous substances at JPL, now and in the past, include waste solvents such as tetrachloroethene,solid rocket fuel propellants, cooling tower chemicals, sulfuric acid, Freon, mercury, and chemical laboratory wastes. In 1990, contractors for JPL detected significantly elevated levels of carbon tetrachloride, trichloroethene, tetrachloroethene, and other volatile organic compounds VOCs) in ground water both under and downgradient of the site. An

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

estimated 68,000 people obtain drinking water from municipal wells within 4 miles of the site. Four City of Pasadena wells were shut down during 1989-90 due to VOCs attributable to JPL. The city has installed a treatment system, and the wells were returned to operation in October 1990. In addition, two Lincoln Avenue Water Co. wells were shut down in 1987 due to VOCs attributable to JPL; these wells are still closed. Status October 1992): EPA and JPL have started to negotiate a Federal Facilities Agreement under CERCLA Section 120 covering future activities at the site. The description of the site release) is based on information available at the time the site was scored. The description may change as additional information is gathered on the sources and extent of contamination. See FR 5600, February 11, 1991 or subsequent FR notices.)

NPL:
NPL Name: JET PROPULSION LABORATORY (NASA)

NPL:
EPA Region: 09
Site ID: 0903438
Site Status: F
Federal Site: Y
Date Deleted: Not reported
Date Finalized: 10/14/92
Date Proposed: 02/07/92

NPL:
Proposed Date: 02/07/1992
Final Date: 10/14/1992
Deleted Date: Not reported
NPL Status: Final

SEMS:
Site ID: 0903438
EPA ID: CA9800013030
Name: JET PROPULSION LABORATORY (NASA)
Address: 4800 OAK GROVE DR
Address 2: Not reported
City,State,Zip: PASADENA, CA 91109
Cong District: 27
FIPS Code: 06037
Latitude: 34.201185
Longitude: -118.167434
FF: Y
NPL: Currently on the Final NPL
Non NPL Status: Not reported

SEMS Detail:
Region: 09
Site ID: 0903438
EPA ID: CA9800013030
Site Name: JET PROPULSION LABORATORY (NASA)
NPL: F
FF: Y
OU: 00
Action Code: CM

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Action Name:	PCOR
SEQ:	1
Start Date:	2020-09-14 05:00:00
Finish Date:	2020-09-14 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0903438
EPA ID:	CA9800013030
Site Name:	JET PROPULSION LABORATORY (NASA)
NPL:	F
FF:	Y
OU:	00
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	1
Start Date:	2000-10-24 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0903438
EPA ID:	CA9800013030
Site Name:	JET PROPULSION LABORATORY (NASA)
NPL:	F
FF:	Y
OU:	00
Action Code:	NP
Action Name:	PROPOSED
SEQ:	1
Start Date:	1992-02-07 05:00:00
Finish Date:	1992-02-07 05:00:00
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	09
Site ID:	0903438
EPA ID:	CA9800013030
Site Name:	JET PROPULSION LABORATORY (NASA)
NPL:	F
FF:	Y
OU:	02
Action Code:	LY
Action Name:	FF RA
SEQ:	1
Start Date:	2003-04-28 04:00:00
Finish Date:	2007-01-03 05:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0903438
EPA ID:	CA9800013030
Site Name:	JET PROPULSION LABORATORY (NASA)
NPL:	F

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

FF:	Y
OU:	01
Action Code:	LX
Action Name:	FF RD
SEQ:	1
Start Date:	2007-02-08 05:00:00
Finish Date:	2007-02-08 05:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0903438
EPA ID:	CA9800013030
Site Name:	JET PROPULSION LABORATORY (NASA)
NPL:	F
FF:	Y
OU:	01
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	1
Start Date:	1992-12-23 05:00:00
Finish Date:	2007-02-08 05:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0903438
EPA ID:	CA9800013030
Site Name:	JET PROPULSION LABORATORY (NASA)
NPL:	F
FF:	Y
OU:	02
Action Code:	LX
Action Name:	FF RD
SEQ:	2
Start Date:	2002-11-29 05:00:00
Finish Date:	2003-04-28 04:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0903438
EPA ID:	CA9800013030
Site Name:	JET PROPULSION LABORATORY (NASA)
NPL:	F
FF:	Y
OU:	02
Action Code:	RO
Action Name:	ROD
SEQ:	2
Start Date:	2002-09-19 04:00:00
Finish Date:	2002-09-19 04:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0903438

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

EPA ID:	CA9800013030
Site Name:	JET PROPULSION LABORATORY (NASA)
NPL:	F
FF:	Y
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1988-05-01 04:00:00
Finish Date:	1988-05-01 04:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0903438
EPA ID:	CA9800013030
Site Name:	JET PROPULSION LABORATORY (NASA)
NPL:	F
FF:	Y
OU:	00
Action Code:	HR
Action Name:	HAZRANK
SEQ:	1
Start Date:	1992-10-13 04:00:00
Finish Date:	1992-10-13 04:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0903438
EPA ID:	CA9800013030
Site Name:	JET PROPULSION LABORATORY (NASA)
NPL:	F
FF:	Y
OU:	01
Action Code:	OM
Action Name:	OM
SEQ:	2
Start Date:	2011-04-01 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0903438
EPA ID:	CA9800013030
Site Name:	JET PROPULSION LABORATORY (NASA)
NPL:	F
FF:	Y
OU:	03
Action Code:	RO
Action Name:	ROD
SEQ:	3
Start Date:	2007-06-28 04:00:00
Finish Date:	2007-06-28 04:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Region:	09
Site ID:	0903438
EPA ID:	CA9800013030
Site Name:	JET PROPULSION LABORATORY (NASA)
NPL:	F
FF:	Y
OU:	03
Action Code:	LX
Action Name:	FF RD
SEQ:	3
Start Date:	2007-06-28 04:00:00
Finish Date:	2007-06-28 04:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0903438
EPA ID:	CA9800013030
Site Name:	JET PROPULSION LABORATORY (NASA)
NPL:	F
FF:	Y
OU:	03
Action Code:	LY
Action Name:	FF RA
SEQ:	3
Start Date:	2007-06-28 04:00:00
Finish Date:	2011-09-12 04:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0903438
EPA ID:	CA9800013030
Site Name:	JET PROPULSION LABORATORY (NASA)
NPL:	F
FF:	Y
OU:	03
Action Code:	LV
Action Name:	FF RV
SEQ:	1
Start Date:	2004-08-23 04:00:00
Finish Date:	2007-06-28 04:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	09
Site ID:	0903438
EPA ID:	CA9800013030
Site Name:	JET PROPULSION LABORATORY (NASA)
NPL:	F
FF:	Y
OU:	02
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	2
Start Date:	1993-07-07 04:00:00
Finish Date:	2002-09-19 04:00:00

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0903438
EPA ID:	CA9800013030
Site Name:	JET PROPULSION LABORATORY (NASA)
NPL:	F
FF:	Y
OU:	00
Action Code:	ES
Action Name:	ESI
SEQ:	1
Start Date:	1991-04-02 05:00:00
Finish Date:	1991-04-02 05:00:00
Qual:	G
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0903438
EPA ID:	CA9800013030
Site Name:	JET PROPULSION LABORATORY (NASA)
NPL:	F
FF:	Y
OU:	01
Action Code:	LY
Action Name:	FF RA
SEQ:	2
Start Date:	2007-02-08 05:00:00
Finish Date:	2011-04-01 04:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0903438
EPA ID:	CA9800013030
Site Name:	JET PROPULSION LABORATORY (NASA)
NPL:	F
FF:	Y
OU:	00
Action Code:	NF
Action Name:	NPL FINL
SEQ:	1
Start Date:	1992-10-14 04:00:00
Finish Date:	1992-10-14 04:00:00
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	09
Site ID:	0903438
EPA ID:	CA9800013030
Site Name:	JET PROPULSION LABORATORY (NASA)
NPL:	F
FF:	Y
OU:	01
Action Code:	TS
Action Name:	TRTSTUDY

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

SEQ: 1
Start Date: 1999-03-01 05:00:00
Finish Date: 1999-06-30 04:00:00
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0903438
EPA ID: CA9800013030
Site Name: JET PROPULSION LABORATORY (NASA)
NPL: F
FF: Y
OU: 01
Action Code: RO
Action Name: ROD
SEQ: 1
Start Date: 2007-02-08 05:00:00
Finish Date: 2007-02-08 05:00:00
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0903438
EPA ID: CA9800013030
Site Name: JET PROPULSION LABORATORY (NASA)
NPL: F
FF: Y
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: 1989-09-08 04:00:00
Finish Date: 1989-09-08 04:00:00
Qual: H
Current Action Lead: Fed Fac

Region: 09
Site ID: 0903438
EPA ID: CA9800013030
Site Name: JET PROPULSION LABORATORY (NASA)
NPL: F
FF: Y
OU: 03
Action Code: OM
Action Name: OM
SEQ: 3
Start Date: 2011-09-12 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: Fed Fac

Region: 09
Site ID: 0903438
EPA ID: CA9800013030
Site Name: JET PROPULSION LABORATORY (NASA)
NPL: F
FF: Y

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

OU: 01
Action Code: RO
Action Name: ROD
SEQ: 5
Start Date: 2018-02-21 05:00:00
Finish Date: 2018-02-21 05:00:00
Qual: R
Current Action Lead: Fed Fac

Region: 09
Site ID: 0903438
EPA ID: CA9800013030
Site Name: JET PROPULSION LABORATORY (NASA)
NPL: F
FF: Y
OU: 03
Action Code: RO
Action Name: ROD
SEQ: 6
Start Date: 2018-02-21 05:00:00
Finish Date: 2018-02-21 05:00:00
Qual: Not reported
Current Action Lead: Fed Fac

RCRA Listings:
Date Form Received by Agency: 20220302
Handler Name: JET PROPULSION LABORATORY
Handler Address: 4800 OAK GROVE DRIVE
Handler City,State,Zip: PASADENA, CA 91109-0000
EPA ID: CA9800013030
Contact Name: NAOYA M ARAKI
Contact Address: OAK GROVE DRIVE M/S 200-119
Contact City,State,Zip: PASADENA, CA 91109-0000
Contact Telephone: 818-354-0635
Contact Fax: 818-393-1895
Contact Email: N.MARK.ARAKI@JPL.NASA.GOV
Contact Title: ENVIRONMENTAL ENGINEER
EPA Region: 09
Land Type: Federal
Federal Waste Generator Description: Large Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: 2021
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: OAK GROVE DRIVE M/S 200-119
Mailing City,State,Zip: PASADENA, CA 91109-0000
Owner Name: FEDERAL GOVERNMENT/NASA
Owner Type: Federal
Operator Name: JET PROPULSION LABORATORY/CALTECH
Operator Type: Private
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	Yes
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	The land is federally-owned, The site is federally-owned
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Subpart K - Withdrawal
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220614
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2019

Click Here for Biennial Reporting System Data:
Year: 2017

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Click Here for Biennial Reporting System Data:
Year: 2015

Click Here for Biennial Reporting System Data:
Year: 2013

Click Here for Biennial Reporting System Data:
Year: 2011

Click Here for Biennial Reporting System Data:
Year: 2009

Click Here for Biennial Reporting System Data:
Year: 2007

Click Here for Biennial Reporting System Data:
Year: 2005

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D000
Waste Description: Not Defined

Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D003
Waste Description: REACTIVE WASTE

Waste Code: D004
Waste Description: ARSENIC

Waste Code: D005
Waste Description: BARIUM

Waste Code: D006
Waste Description: CADMIUM

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D009
Waste Description: MERCURY

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Waste Code: D010
Waste Description: SELENIUM

Waste Code: D011
Waste Description: SILVER

Waste Code: D018
Waste Description: BENZENE

Waste Code: D019
Waste Description: CARBON TETRACHLORIDE

Waste Code: D020
Waste Description: CHLORDANE

Waste Code: D021
Waste Description: CHLOROBENZENE

Waste Code: D022
Waste Description: CHLOROFORM

Waste Code: D026
Waste Description: CRESOL

Waste Code: D028
Waste Description: 1,2-DICHLOROETHANE

Waste Code: D029
Waste Description: 1,1-DICHLOROETHYLENE

Waste Code: D030
Waste Description: 2,4-DINITROTOLUENE

Waste Code: D034
Waste Description: HEXACHLOROETHANE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: D036
Waste Description: NITROBENZENE

Waste Code: D037
Waste Description: PENTACHLOROPHENOL

Waste Code: D038
Waste Description: PYRIDINE

Waste Code: D040
Waste Description: TRICHLORETHYLENE

Waste Code: D043
Waste Description: VINYL CHLORIDE

Waste Code: F001
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE,

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F004
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F007
Waste Description: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

Waste Code: F008
Waste Description: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Waste Code: P001
Waste Description: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS,

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

Waste Code: P003
Waste Description: 2-PROPENAL (OR) ACROLEIN

Waste Code: P022
Waste Description: CARBON DISULFIDE

Waste Code: P029
Waste Description: COPPER CYANIDE (OR) COPPER CYANIDE CU(CN)

Waste Code: P030
Waste Description: CYANIDES (SOLUBLE CYANIDE SALTS), NOT OTHERWISE SPECIFIED

Waste Code: P042
Waste Description: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE

Waste Code: P063
Waste Description: HYDROCYANIC ACID (OR) HYDROGEN CYANIDE

Waste Code: P073
Waste Description: NICKEL CARBONYL (OR) NICKEL CARBONYL NI(CO)4, (T-4)-

Waste Code: P075
Waste Description: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

Waste Code: P076
Waste Description: NITRIC OXIDE (OR) NITROGEN OXIDE NO

Waste Code: P078
Waste Description: NITROGEN DIOXIDE (OR) NITROGEN OXIDE NO2

Waste Code: P081
Waste Description: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

Waste Code: P095
Waste Description: CARBONIC DICHLORIDE (OR) PHOSGENE

Waste Code: P096
Waste Description: HYDROGEN PHOSPHIDE (OR) PHOSPHINE

Waste Code: P098
Waste Description: POTASSIUM CYANIDE (OR) POTASSIUM CYANIDE K(CN)

Waste Code: P105
Waste Description: SODIUM AZIDE

Waste Code: P106
Waste Description: SODIUM CYANIDE (OR) SODIUM CYANIDE NA(CN)

Waste Code: P108
Waste Description: STRYCHNIDIN-10-ONE, & SALTS (OR) STRYCHNINE, & SALTS

Waste Code: P118

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Waste Description: METHANETHIOL, TRICHLORO- (OR) TRICHLOROMETHANETHIOL

Waste Code: P120
Waste Description: VANADIUM OXIDE V2O5 (OR) VANADIUM PENTOXIDE

Waste Code: U001
Waste Description: ACETALDEHYDE (I) (OR) ETHANAL (I)

Waste Code: U002
Waste Description: 2-PROPANONE (I) (OR) ACETONE (I)

Waste Code: U003
Waste Description: ACETONITRILE (I,T)

Waste Code: U007
Waste Description: 2-PROPENAMIDE (OR) ACRYLAMIDE

Waste Code: U012
Waste Description: ANILINE (I,T) (OR) BENZENAMINE (I,T)

Waste Code: U019
Waste Description: BENZENE (I,T)

Waste Code: U021
Waste Description: [1,1'-BIPHENYL]-4,4'-DIAMINE (OR) BENZIDINE

Waste Code: U029
Waste Description: METHANE, BROMO- (OR) METHYL BROMIDE

Waste Code: U037
Waste Description: BENZENE, CHLORO- (OR) CHLOROBENZENE

Waste Code: U043
Waste Description: ETHENE, CHLORO- (OR) VINYL CHLORIDE

Waste Code: U044
Waste Description: CHLOROFORM (OR) METHANE, TRICHLORO-

Waste Code: U045
Waste Description: METHANE, CHLORO- (I,T) (OR) METHYL CHLORIDE (I,T)

Waste Code: U057
Waste Description: CYCLOHEXANONE (I)

Waste Code: U070
Waste Description: BENZENE, 1,2-DICHLORO- (OR) O-DICHLOROBENZENE

Waste Code: U075
Waste Description: DICHLORODIFLUOROMETHANE (OR) METHANE, DICHLORODIFLUORO-

Waste Code: U076
Waste Description: ETHANE, 1,1-DICHLORO- (OR) ETHYLIDENE DICHLORIDE

Waste Code: U077
Waste Description: ETHANE, 1,2-DICHLORO- (OR) ETHYLENE DICHLORIDE

Waste Code: U080

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Waste Description: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE

Waste Code: U092
Waste Description: DIMETHYLAMINE (I) (OR) METHANAMINE, N-METHYL- (I)

Waste Code: U098
Waste Description: 1,1-DIMETHYLHYDRAZINE (OR) HYDRAZINE, 1,1-DIMETHYL-

Waste Code: U107
Waste Description: 1,2-BENZENEDICARBOXYLIC ACID, DIOCTYL ESTER (OR) DI-N-OCTYL PHTHALATE

Waste Code: U108
Waste Description: 1,4-DIETHYLENEOXIDE (OR) 1,4-DIOXANE

Waste Code: U117
Waste Description: ETHANE, 1,1'-OXYBIS-(I) (OR) ETHYL ETHER (I)

Waste Code: U118
Waste Description: 2-PROPENOIC ACID, 2-METHYL-, ETHYL ESTER (OR) ETHYL METHACRYLATE

Waste Code: U122
Waste Description: FORMALDEHYDE

Waste Code: U123
Waste Description: FORMIC ACID (C,T)

Waste Code: U133
Waste Description: HYDRAZINE (R,T)

Waste Code: U134
Waste Description: HYDROFLUORIC ACID (C,T) (OR) HYDROGEN FLUORIDE (C,T)

Waste Code: U135
Waste Description: HYDROGEN SULFIDE (OR) HYDROGEN SULFIDE H2S

Waste Code: U138
Waste Description: METHANE, IODO- (OR) METHYL IODIDE

Waste Code: U144
Waste Description: ACETIC ACID, LEAD(2+) SALT (OR) LEAD ACETATE

Waste Code: U151
Waste Description: MERCURY

Waste Code: U153
Waste Description: METHANETHIOL (I,T) (OR) THIOMETHANOL (I,T)

Waste Code: U154
Waste Description: METHANOL (I) (OR) METHYL ALCOHOL (I)

Waste Code: U158
Waste Description: 4,4'-METHYLENEBIS(2-CHLOROANILINE) (OR) BENZENAMINE, 4,4'-METHYLENEBIS[2-CHLORO-

Waste Code: U159
Waste Description: 2-BUTANONE (I,T) (OR) METHYL ETHYL KETONE (MEK) (I,T)

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Waste Code: U160
Waste Description: 2-BUTANONE, PEROXIDE (R,T) (OR) METHYL ETHYL KETONE PEROXIDE (R,T)

Waste Code: U162
Waste Description: 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER (I,T) (OR) METHYL METHACRYLATE (I,T)

Waste Code: U165
Waste Description: NAPHTHALENE

Waste Code: U169
Waste Description: BENZENE, NITRO- (OR) NITROBENZENE (I,T)

Waste Code: U184
Waste Description: ETHANE, PENTACHLORO- (OR) PENTACHLOROETHANE

Waste Code: U185
Waste Description: BENZENE, PENTACHLORONITRO- (OR) PENTACHLORONITROBENZENE (PCNB)

Waste Code: U186
Waste Description: 1,3-PENTADIENE (I) (OR) 1-METHYLBUTADIENE (I)

Waste Code: U188
Waste Description: PHENOL

Waste Code: U194
Waste Description: 1-PROPANAMINE (I,T) (OR) N-PROPYLAMINE (I,T)

Waste Code: U196
Waste Description: PYRIDINE

Waste Code: U211
Waste Description: CARBON TETRACHLORIDE (OR) METHANE, TETRACHLORO-

Waste Code: U213
Waste Description: FURAN, TETRAHYDRO-(I) (OR) TETRAHYDROFURAN (I)

Waste Code: U220
Waste Description: BENZENE, METHYL- (OR) TOLUENE

Waste Code: U223
Waste Description: BENZENE, 1,3-DIISOCYANATOMETHYL- (R,T) (OR) TOLUENE DIISOCYANATE (R,T)

Waste Code: U226
Waste Description: ETHANE, 1,1,1-TRICHLORO- (OR) METHYL CHLOROFORM

Waste Code: U228
Waste Description: ETHENE, TRICHLORO- (OR) TRICHLOROETHYLENE

Waste Code: U234
Waste Description: 1,3,5-TRINITROBENZENE (R,T) (OR) BENZENE, 1,3,5-TRINITRO-

Waste Code: U239
Waste Description: BENZENE, DIMETHYL- (I,T) (OR) XYLENE (I)

Waste Code: U246
Waste Description: CYANOGEN BROMIDE (CN)BR

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Waste Code: U359
Waste Description: ETHANOL, 2-ETHOXY- (OR) ETHYLENE GLYCOL MONOETHYL ETHER

Waste Code: U404
Waste Description: U404

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: FEDERAL GOVERNMENT/NASA
Legal Status: Federal
Date Became Current: 19520101
Date Ended Current: Not reported
Owner/Operator Address: 4800 OAK GROVE DRIVE
Owner/Operator City,State,Zip: PASADENA, CA 91109
Owner/Operator Telephone: 818-354-0635
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: NASA
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4800 OAK GROVE DR
Owner/Operator City,State,Zip: PASADENA, CA 91109-9099
Owner/Operator Telephone: 818-393-2920
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: CA INSTITUTE OF TECHNOLOGY
Legal Status: Other
Date Became Current: 19590101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: FEDERAL GOVT. U.S.
Legal Status: Federal
Date Became Current: 19590101
Date Ended Current: Not reported
Owner/Operator Address: 4800 OAK GROVE DRIVE
Owner/Operator City,State,Zip: PASADENA, CA 91109
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: CAL TECH

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Legal Status:	Federal
Date Became Current:	19590101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: CAL TECH	
Legal Status:	Federal
Date Became Current:	19590101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: JET PROPULSION LABORATORY	
Legal Status:	Private
Date Became Current:	19520101
Date Ended Current:	Not reported
Owner/Operator Address:	4800 OAK GROVE DRIVE
Owner/Operator City,State,Zip:	PASADENA, CA 91109
Owner/Operator Telephone:	818-354-0635
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: JET PROPULSION LABORATORY/CALTECH	
Legal Status:	Private
Date Became Current:	19520101
Date Ended Current:	Not reported
Owner/Operator Address:	4800 OAK GROVE DRIVE M/S 200-119
Owner/Operator City,State,Zip:	PASADENA, CA 91109-0000
Owner/Operator Telephone:	818-354-0635
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	N.MARK.ARAKI@JPL.NASA.GOV

Owner/Operator Indicator:	Operator
Owner/Operator Name: JET PROPULSION LABORATORY/CALTECH	
Legal Status:	Private
Date Became Current:	19520101
Date Ended Current:	Not reported
Owner/Operator Address:	4800 OAK GROVE DRIVE M/S 200-119
Owner/Operator City,State,Zip:	PASADENA, CA 91109-0000
Owner/Operator Telephone:	818-354-0635
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	N.MARK.ARAKI@JPL.NASA.GOV

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Owner/Operator Indicator:	Operator
Owner/Operator Name: CALIFORNIA INSTITUTE OF TECHNOLOGY	
Legal Status:	Federal
Date Became Current:	19590101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: FEDERAL GOVT U.S.	
Legal Status:	Federal
Date Became Current:	19590101
Date Ended Current:	Not reported
Owner/Operator Address:	4800 OAK GROVE DRIVE
Owner/Operator City,State,Zip:	PASADENA, CA 91109
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: FEDERAL GOVERNMENT U.S.	
Legal Status:	Federal
Date Became Current:	19590101
Date Ended Current:	Not reported
Owner/Operator Address:	4800 OAK GROVE
Owner/Operator City,State,Zip:	PASADENA, CA 91109
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: FEDERAL GOVERNMENT US	
Legal Status:	Federal
Date Became Current:	19590101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: FEDERAL GOVERNMENT/NASA	
Legal Status:	Federal
Date Became Current:	19520101
Date Ended Current:	Not reported
Owner/Operator Address:	4800 OAK GROVE DRIVE
Owner/Operator City,State,Zip:	PASADENA, CA 91109
Owner/Operator Telephone:	818-354-5342
Owner/Operator Telephone Ext:	Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: JET PROPULSION LABORATORY/CALTECH
Legal Status: Private
Date Became Current: 19520101
Date Ended Current: Not reported
Owner/Operator Address: 4800 OAK GROVE DRIVE M/S 200-119
Owner/Operator City,State,Zip: PASADENA, CA 91109-0000
Owner/Operator Telephone: 818-354-0635
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: N.MARK.ARAKI@JPL.NASA.GOV

Owner/Operator Indicator: Owner
Owner/Operator Name: FEDERAL GOVERNMENT/NASA
Legal Status: Federal
Date Became Current: 19520101
Date Ended Current: Not reported
Owner/Operator Address: 4800 OAK GROVE DRIVE M/S 200-119
Owner/Operator City,State,Zip: PASADENA, CA 91109-0000
Owner/Operator Telephone: 818-393-6683
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: SSLATEN@NASA.GOV

Owner/Operator Indicator: Owner
Owner/Operator Name: FEDERAL GOVERNMENT/NASA
Legal Status: Federal
Date Became Current: 19520101
Date Ended Current: Not reported
Owner/Operator Address: 4800 OAK GROVE DRIVE
Owner/Operator City,State,Zip: PASADENA, CA 91109
Owner/Operator Telephone: 818-354-0635
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: CALTECH/JPL
Legal Status: Private
Date Became Current: 19520101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: NOT REQUIRED
Legal Status: Federal
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: FEDERAL GOV US
Legal Status: Federal
Date Became Current: 19590101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: CAL TECH
Legal Status: Other
Date Became Current: 19590101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: FEDERAL GOVERNMENT/NASA
Legal Status: Federal
Date Became Current: 19520101
Date Ended Current: Not reported
Owner/Operator Address: 4800 OAK GROVE DRIVE
Owner/Operator City,State,Zip: PASADENA, CA 91109
Owner/Operator Telephone: 818-354-0635
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: FEDERAL GOVERNMENT/NASA
Legal Status: Federal
Date Became Current: 19520101
Date Ended Current: Not reported
Owner/Operator Address: 4800 OAK GROVE DRIVE M/S 200-119
Owner/Operator City,State,Zip: PASADENA, CA 91109-0000
Owner/Operator Telephone: 818-393-6683
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: SSLATEN@NASA.GOV

Owner/Operator Indicator: Operator
Owner/Operator Name: JET PROPULSION LABORATORY/CALTECH
Legal Status: Private

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Date Became Current: 19520101
Date Ended Current: Not reported
Owner/Operator Address: 4800 OAK GROVE DRIVE M/S 200-119
Owner/Operator City,State,Zip: PASADENA, CA 91109-0000
Owner/Operator Telephone: 818-354-0635
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: N.MARK.ARAKI@JPL.NASA.GOV

Owner/Operator Indicator: Operator
Owner/Operator Name: JET PROPULSION LABORATORY
Legal Status: Federal
Date Became Current: 19520101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: FEDERAL GOVERNMENT/NASA
Legal Status: Federal
Date Became Current: 19520101
Date Ended Current: Not reported
Owner/Operator Address: 4800 OAK GROVE DRIVE M/S 200-119
Owner/Operator City,State,Zip: PASADENA, CA 91109-0000
Owner/Operator Telephone: 818-393-6683
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: SSLATEN@NASA.GOV

Owner/Operator Indicator: Owner
Owner/Operator Name: FEDERAL GOVERNMENT/NASA
Legal Status: Federal
Date Became Current: 19520101
Date Ended Current: Not reported
Owner/Operator Address: 4800 OAK GROVE DRIVE M/S 200-119
Owner/Operator City,State,Zip: PASADENA, CA 91109-0000
Owner/Operator Telephone: 818-393-6683
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: SSLATEN@NASA.GOV

Owner/Operator Indicator: Operator
Owner/Operator Name: JET PROPULSION LABORATORY
Legal Status: Private
Date Became Current: 19520101
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Historic Generators:

Receive Date:	20100610
Handler Name:	JET PROPULSION LABORATORY
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20130220
Handler Name:	JET PROPULSION LABORATORY
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20140301
Handler Name:	JET PROPULSION LABORATORY
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20160229
Handler Name:	JET PROPULSION LABORATORY
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20180807
Handler Name:	JET PROPULSION LABORATORY
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

Receive Date:	20200227
Handler Name:	JET PROPULSION LABORATORY
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

Receive Date:	20220302
Handler Name:	JET PROPULSION LABORATORY
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

Receive Date:	19960901
Handler Name:	USNASA JET PROPULSION LABORATORY
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20190114
Handler Name:	JET PROPULSION LABORATORY
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Current Record: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 19800818
Handler Name: USNASA JET PROPULSION LABORATORY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19800818
Handler Name: USNASA JET PROPULSION LABORATORY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19990114
Handler Name: USNASA JET PROPULSION LABORATORY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20040129
Handler Name: JET PROPULSION LABORATORY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20050603

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Handler Name: JET PROPULSION LABORATORY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19920227
Handler Name: JET PROPULSION LABORATORY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19940329
Handler Name: USNASA JET PROPULSION LABORATORY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960327
Handler Name: JET PROPULSION LABORATORY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19990415
Handler Name: JET PROPULSION LABORATORY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20001012
Handler Name: JET PROPULSION LABORATORY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020130
Handler Name: USNASA JET PROPULSION LABORATORY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20040401
Handler Name: JET PROPULSION LABORATORY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20060414
Handler Name: JET PROPULSION LABORATORY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Electronic Manifest Broker: Not reported

Receive Date: 20080326
Handler Name: JET PROPULSION LABORATORY
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: Yes
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 54171
NAICS Description: RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES

NAICS Code: 541712
NAICS Description: RESEARCH AND DEVELOPMENT IN THE PHYSICAL, ENGINEERING, AND LIFE SCIENCES (EXCEPT BIOTECHNOLOGY)

NAICS Code: 92711
NAICS Description: SPACE RESEARCH AND TECHNOLOGY

NAICS Code: 927110
NAICS Description: SPACE RESEARCH AND TECHNOLOGY

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: TSD IS-Container Use and Management
Date Violation was Determined: 20120306
Actual Return to Compliance Date: 20120319
Return to Compliance Qualifier: Documented
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 20120913
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: JDOWN
Enforcement Responsible Sub-Organization: Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - General
Date Violation was Determined: 19870214
Actual Return to Compliance Date: 19921216
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 001
Date of Enforcement Action: 19870214
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	19921216
Actual Return to Compliance Date:	19930514
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	19930317
Enforcement Identifier:	003
Date of Enforcement Action:	19930315
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - General
Date Violation was Determined: 19870214
Actual Return to Compliance Date: 19921216
Return to Compliance Qualifier: Unverifiable
Violation Responsible Agency: EPA
Scheduled Compliance Date: Not reported
Enforcement Identifier: 002
Date of Enforcement Action: 19870313
Enforcement Responsible Agency: EPA
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: R9EPA
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: EPA
Violation Short Description: Generators - General
Date Violation was Determined: 19921216
Actual Return to Compliance Date: 19930514
Return to Compliance Qualifier: Observed

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Violation Responsible Agency:	EPA
Scheduled Compliance Date:	19930317
Enforcement Identifier:	003
Date of Enforcement Action:	19930315
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - General
Date Violation was Determined:	19921216
Actual Return to Compliance Date:	19930514
Return to Compliance Qualifier:	Observed

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Violation Responsible Agency:	EPA
Scheduled Compliance Date:	19930317
Enforcement Identifier:	003
Date of Enforcement Action:	19930315
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	R9STA
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	EPA
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20120306
Actual Return to Compliance Date:	20120319
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	EPA
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	001
Date of Enforcement Action:	20120913
Enforcement Responsible Agency:	EPA
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	JDOWN
Enforcement Responsible Sub-Organization:	Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20120306
Evaluation Responsible Agency: EPA Contractor/Grantee
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: DFERN
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20120319
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19870214
Evaluation Responsible Agency: EPA
Found Violation: Yes
Evaluation Type Description: NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier: R9EPA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 19921216
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 20070327
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 19921216
Evaluation Responsible Agency: EPA
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19930514
Scheduled Compliance Date:	19930317
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19870214
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19921216
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19921216
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19930514
Scheduled Compliance Date:	19930317
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19930514
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	NOT A SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20160331
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19921216
Evaluation Responsible Agency:	EPA
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	R9EPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19930514
Scheduled Compliance Date:	19930317
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20220308
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	CUPA
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20190318
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19921216
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20120306

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Evaluation Responsible Agency:	EPA Contractor/Grantee
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	DFERN
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20120319
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

SIte:

Name:	JET PROPULSION LABORATORY (NASA)
Address:	4800 OAK GROVE DR
Address 2:	Not reported
City,State,Zip:	PASADENA, CA 91109
Event Code:	Not reported
Action Taken Date:	02/21/2018
EPA ID:	CA9800013030
Action Name:	Record of Decision
Action ID:	5
Operable Unit:	01
Contaminated Media:	Groundwater
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2018
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185
Longitude:	-118.167434

Media:

EPA ID:	CA9800013030
Contaminated Media:	Air
Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	09/19/2002
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2002
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185
Longitude:	-118.167434

EPA ID:	CA9800013030
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	02/08/2007
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2007
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185
Longitude:	-118.167434

EPA ID:	CA9800013030
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	02/08/2007
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2007
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185
Longitude:	-118.167434

EPA ID:	CA9800013030
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	02/08/2007
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2007
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Longitude:	-118.167434
EPA ID:	CA9800013030
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	02/08/2007
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2007
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185
Longitude:	-118.167434
EPA ID:	CA9800013030
Contaminated Media:	Soil
Action ID:	2
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	09/19/2002
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2002
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185
Longitude:	-118.167434
EPA ID:	CA9800013030
Contaminated Media:	Groundwater
Action ID:	3
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	06/28/2007
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2007
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185
Longitude:	-118.167434
EPA ID:	CA9800013030
Contaminated Media:	Groundwater
Action ID:	3
Operable Unit:	03

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Action Name:	Record of Decision
Action Taken Date:	06/28/2007
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2007
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185
Longitude:	-118.167434

EPA ID:	CA9800013030
Contaminated Media:	Groundwater
Action ID:	3
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	06/28/2007
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2007
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185
Longitude:	-118.167434

EPA ID:	CA9800013030
Contaminated Media:	Groundwater
Action ID:	3
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	06/28/2007
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2007
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185
Longitude:	-118.167434

EPA ID:	CA9800013030
Contaminated Media:	Groundwater
Action ID:	3
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	06/28/2007
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Federal Facility:	Y
Fiscal Year:	2007
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185
Longitude:	-118.167434

EPA ID:	CA9800013030
Contaminated Media:	Groundwater
Action ID:	3
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	06/28/2007
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2007
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185
Longitude:	-118.167434

EPA ID:	CA9800013030
Contaminated Media:	Groundwater
Action ID:	5
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	02/21/2018
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2018
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185
Longitude:	-118.167434

EPA ID:	CA9800013030
Contaminated Media:	Groundwater
Action ID:	5
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	02/21/2018
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2018
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185
Longitude:	-118.167434

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

EPA ID:	CA9800013030
Contaminated Media:	Groundwater
Action ID:	5
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	02/21/2018
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2018
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185
Longitude:	-118.167434

EPA ID:	CA9800013030
Contaminated Media:	Groundwater
Action ID:	5
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	02/21/2018
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2018
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185
Longitude:	-118.167434

EPA ID:	CA9800013030
Contaminated Media:	Groundwater
Action ID:	5
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	02/21/2018
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2018
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185
Longitude:	-118.167434

EPA ID:	CA9800013030
Contaminated Media:	Groundwater
Action ID:	6
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	02/21/2018

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2018
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185
Longitude:	-118.167434

EPA ID:	CA9800013030
Contaminated Media:	Groundwater
Action ID:	6
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	02/21/2018
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2018
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185
Longitude:	-118.167434

EPA ID:	CA9800013030
Contaminated Media:	Groundwater
Action ID:	6
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	02/21/2018
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2018
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	34.201185
Longitude:	-118.167434

EPA ID:	CA9800013030
Contaminated Media:	Groundwater
Action ID:	6
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	02/21/2018
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2018

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.201185
Longitude: -118.167434

EPA ID: CA9800013030
Contaminated Media: Groundwater
Action ID: 6
Operable Unit: 03
Action Name: Record of Decision
Action Taken Date: 02/21/2018
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2018
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.201185
Longitude: -118.167434

US INST CONTROLS:
Name: JET PROPULSION LABORATORY (NASA)
Address: 4800 OAK GROVE DR
Address 2: Not reported
City,State,Zip: PASADENA, CA 91109
EPA ID: CA9800013030
Action Name: Record of Decision
Action ID: 5
Operable Unit: 01
Actual Date: 02/21/2018
Contaminated Media: Groundwater
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2018
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.201185
Longitude: -118.167434

Name: JET PROPULSION LABORATORY (NASA)
Address: 4800 OAK GROVE DR
Address 2: Not reported
City,State,Zip: PASADENA, CA 91109
EPA ID: CA9800013030
Action Name: Record of Decision
Action ID: 6
Operable Unit: 03
Actual Date: 02/21/2018
Contaminated Media: Groundwater
Event Code: Not reported
Contact Name: Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2018
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: 34.201185
Longitude: -118.167434

SWEEPS UST:
Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City: PASADENA
Status: Active
Comp Number: 11934
Number: 9
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-011934-000001
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: 22

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City: PASADENA
Status: Active
Comp Number: 11934
Number: 9
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-011934-000002
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City: PASADENA
Status: Active
Comp Number: 11934
Number: 9
Board Of Equalization: Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-011934-000003
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City: PASADENA
Status: Active
Comp Number: 11934
Number: 9
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-011934-000004
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City: PASADENA
Status: Active
Comp Number: 11934
Number: 9
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-011934-000005
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City: PASADENA
Status: Active

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Comp Number: 11934
Number: 9
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-011934-000006
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City: PASADENA
Status: Active
Comp Number: 11934
Number: 9
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-011934-000007
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City: PASADENA
Status: Active
Comp Number: 11934
Number: 9
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-011934-000008
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: JET PROPULSION LABORATORY

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Address: 4800 OAK GROVE DR
City: PASADENA
Status: Active
Comp Number: 11934
Number: 9
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-011934-000009
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City: PASADENA
Status: Active
Comp Number: 11934
Number: 9
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-011934-000010
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City: PASADENA
Status: Active
Comp Number: 11934
Number: 9
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-011934-000011
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Number Of Tanks: Not reported

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City: PASADENA
Status: Active
Comp Number: 11934
Number: 9
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-011934-000012
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City: PASADENA
Status: Active
Comp Number: 11934
Number: 9
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-011934-000013
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City: PASADENA
Status: Active
Comp Number: 11934
Number: 9
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-011934-000014
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City: PASADENA
Status: Active
Comp Number: 11934
Number: 9
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-011934-000015
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City: PASADENA
Status: Active
Comp Number: 11934
Number: 9
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-011934-000016
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City: PASADENA
Status: Active
Comp Number: 11934
Number: 9
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-011934-000017

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City: PASADENA
Status: Active
Comp Number: 11934
Number: 9
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-011934-000018
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City: PASADENA
Status: Active
Comp Number: 11934
Number: 9
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90
Created Date: 06-30-89
Owner Tank Id: Not reported
SWRCB Tank Id: 19-080-011934-000019
Tank Status: A
Capacity: Not reported
Active Date: 06-30-89
Tank Use: UNKNOWN
STG: W
Content: Not reported
Number Of Tanks: Not reported

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City: PASADENA
Status: Active
Comp Number: 11934
Number: 9
Board Of Equalization: Not reported
Referral Date: 12-07-90
Action Date: 12-07-90

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-080-011934-000020
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	Not reported

Name:	JET PROPULSION LABORATORY
Address:	4800 OAK GROVE DR
City:	PASADENA
Status:	Active
Comp Number:	11934
Number:	9
Board Of Equalization:	Not reported
Referral Date:	12-07-90
Action Date:	12-07-90
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-080-011934-000021
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	Not reported

Name:	JET PROPULSION LABORATORY
Address:	4800 OAK GROVE DR
City:	PASADENA
Status:	Active
Comp Number:	11934
Number:	9
Board Of Equalization:	Not reported
Referral Date:	12-07-90
Action Date:	12-07-90
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-080-011934-000022
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	Not reported

Facility, Chemical, Releases and Other Waste Management Summary Information:

TRI ID:	91109NSJTP4800O
Form Type:	Form R
Reporting year:	2018
Trade secret indicator:	NO
Sanitized indicator:	NO

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Title of certifying official:	CHARLES BURIL
Certifying officials signature indicator:	ELECTRONIC
Date signed:	2019-06-18
Name:	NASA JET PROPULSION LABORATORY
Address:	4800 OAK GROVE DR MS/ 200-119
City,State,Zip:	PASADENA, CA 91109
BIA code:	Not reported
Tribe name:	Not reported
Mailing name:	NASA JET PROPULSION LABORATORY
Mailing street:	4800 OAK GROVE DR MS/ 200-119
Mailing province:	Not reported
Mailing City,State,Zip:	PASADENA, CA 91109
Entire facility ind:	YES
Partial facility ind:	NO
Federal facility ind:	YES
Goco facility ind:	NO
Assigned fed facility flag:	YES
Public contact name:	CHARLES BURIL
Public contact phone and Ext:	8183540180
Public contact email:	CHARLES.L.BURIL@JPL.NASA.GOV
Primary sic code:	Not reported
Sic code 2:	Not reported
Sic code 3:	Not reported
Sic code 4:	Not reported
Sic code 5:	Not reported
Sic code 6:	Not reported
Naics origin:	Not reported
Primary naics code:	927110
Naics code 2:	Not reported
Naics code 3:	Not reported
Naics code 4:	Not reported
Naics code 5:	Not reported
Naics code 6:	Not reported
Latitude:	34.201185
Longitude:	-118.167434
D and B number A:	Not reported
D and B number B:	Not reported
RCRA number A:	CA9800013030
RCRA number B:	Not reported
RCRA number C:	Not reported
RCRA number D:	Not reported
RCRA number E:	Not reported
RCRA number F:	Not reported
RCRA number G:	Not reported
RCRA number H:	Not reported
NPDES number A:	Not reported
NPDES number B:	Not reported
NPDES number C:	Not reported
NPDES number D:	Not reported
NPDES number E:	Not reported
NPDES number F:	Not reported
NPDES number G:	Not reported
Parent company name:	NATIONAL AERONAUTICS & SPACE ADMINISTRATION
Parent company D and B number:	Not reported
Standardized parent company name:	NATIONAL AERONAUTICS & SPACE ADMINISTRATION
Document control number:	1318216921890
TRI ID:	91109NSJTP4800O

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Cas number:		007439921
Chemical name:	LEAD	
Classification:		PBT
Unit of measure:		Pounds
Metal ind:		YES
Revision code 1:		Not reported
Revision code 2:		Not reported
Maximum amount on site:		02
Fugitive air emissions - total release pounds:		.0635
Fugitive air emissions - total release range code:		Not reported
Total fugitive air emissions:		.0635
Fugitive air emissions - basis of estimate:		Published Emission Factors
Stack air emissions - release pounds:		NA
Stack air emissions - release range code:		Not reported
Total stack air emissions:		0
Stack air emissions - basis of estimate:		Not reported
Total air emissions:		.0635
Discharges to stream a - stream name:		NA
Total discharges to stream a:		0
Discharges to stream a - basis of estimate:		Not reported
Discharges to stream a - % from stormwater:		Not reported
Discharges to stream b - stream name:		Not reported
Total discharges to stream b:		Not reported
Discharges to stream b - basis of estimate:		Not reported
Discharges to stream b - % from stormwater:		Not reported
Discharges to stream c - stream name:		Not reported
Total discharges to stream c:		Not reported
Discharges to stream c - basis of estimate:		Not reported
Discharges to stream c - % from stormwater:		Not reported
Discharges to stream d - stream name:		Not reported
Total discharges to stream d:		Not reported
Discharges to stream d - basis of estimate:		Not reported
Discharges to stream d - % from stormwater:		Not reported
Discharges to stream e - stream name:		Not reported
Total discharges to stream e:		Not reported
Discharges to stream e - basis of estimate:		Not reported
Discharges to stream e - % from stormwater:		Not reported
Discharges to stream f - stream name:		Not reported
Total discharges to stream f:		Not reported
Discharges to stream f - basis of estimate:		Not reported
Discharges to stream f - % from stormwater:		Not reported
Discharges to stream g - stream name:		Not reported
Total discharges to stream g:		Not reported
Discharges to stream g - basis of estimate:		Not reported
Discharges to stream g - % from stormwater:		Not reported
Total number of receiving streams:		0
Total surface water discharge:		0
Total on-site underground inj - pounds:		Not reported
On-site underground inj - basis of estimate:		Not reported
Total on-site ugrnd inj to cl i wells - pounds:		0
On-site underground inj to c1 i wells - basis of estimate:		Not reported
Total on-site ugrnd inj to cl ii-v wells - pounds:		0
On-site ungrnd inj to cl ii-v wells - basis of estimate:		Not reported
Total on-site underground injection:		0
Total on-site landfills:		Not reported
On-site landfills - basis of estimate:		Not reported
Total on-site RCRA subtitle c landfills:		0

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

On-site RCRA subtitle c landfills - basis of estimate:	Not reported
Total other on-site landfills:	0
Other landfills - basis of estimate:	Not reported
Total on-site land treatment:	0
Land trtmt/appl farming - basis of estimate:	Not reported
Total surface impoundments:	Not reported
Surface impoundment - basis of estimate:	Not reported
Total RCRA c surface impoundments:	0
RCRA c Surface impoundment - basis of estimate:	Not reported
Total other surface impoundments:	0
Other surface impoundment - basis of estimate:	Not reported
Total other disposal:	0
Other disposal - basis of estimate:	Not reported
Total on-site land releases:	0
Total on-site releases:	.0635
Off-site - POTW releases:	0
Off-site - storage only:	0
Off-site - solid/stab - metals:	0
Off-site - wastewater treatment release - metals:	0
Off-site - solid/stab - release - metals:	0
Off-site - wastewater treatment - metals:	0
Off-site - underground injection:	0
Off-site - underground injection - class 1 wells:	0
Off-site - underground injection - class ii-v wells:	0
Off-site - landfills/disposal surface impoundments:	0
Off-site - surface impoundment:	0
Off-site - RCRA subtitle c surface impoundments:	0
Off-site - other surface impoundments:	0
Off-site - other landfills:	0
Off-site - RCRA subtitle c landfills:	0
Off-site - disposal - land treatment:	0
Off-site - disposal - other land disposal:	0
Off-site - disposal - other off-site management:	0
Off-site - disposal - transfer to waste broker:	0
Off-site - disposal - unknown:	0
Total transferred off site for disposal:	0
Off-site - recycling - solvents/organics recovery:	0
Off-site - recycling -metals recovery:	0
Off-site - recycling - other reuse or recovery:	0
Off-site - recycling - acid regeneration:	0
Off-site - recycling - transfer to waste broker:	0
Total transferred off site for recycling:	0
Off-site - energy recovery:	0
Off-site - transfer to waste broker for energy recovery:	0
Total transferred off site for energy recovery:	0
Off-site - POTW treatment:	0
Off-site - solid/stab treatment - non metals:	0
Off-site -incineration/thermal treatment:	0
Off-site - incineration/insignificant heat value:	0
Off-site - wastewater treatment - non-metals:	0
Off-site - other waste treatment:	0
Off-site - transfer to waste broker - waste treatment:	0
Total transferred off site for treatment:	0
Off-site - transfer to waste broker:	0
Total transferred off site for further waste management:	0
Total POTW transfer:	0
Energy recovery on site current year:	0

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Recycled on site current year:		0
Treated on site current year:		0
Total on-site waste management:		0
On-site energy recovery method 1:		Not Applicable
On-site energy recovery method 2:		Not reported
On-site energy recovery method 3:		Not Applicable
On-site energy recovery method 4:		Not reported
On-site recycling processes method 1:		Not Applicable
On-site recycling processes method 2:		Not reported
On-site recycling processes method 3:		Not reported
On-site recycling processes method 4:		Not reported
On-site recycling processes method 5:		Not reported
On-site recycling processes method 6:		Not reported
On-site recycling processes method 7:		Not reported
FRS Facility ID:		110002626061
Elemental Metal Included:		NO
Waste Rock Pile managed Indicator:		0
Waste Rock Quantity:		Not reported
Off Site - POTW Releases 81C:		0
Off Site - POTW Releases 81D:		0

Chemical Activities and Uses:

Cas number:		007439921
Document control number:		1318216921890
Chemical name:	LEAD	
Classification:		PBT
Unit of measure:		Pounds
Produce the chemical:		No
Import the chemical:		No
On-site use of the chemical:		No
Sale or distribution of the chemical:		No
As a byproduct:		No
As a manufactured impurity:		No
Used as a reactant:		No
P101 feedstocks:		No
P102 raw materials:		No
P103 intermediates:		No
P104 initiators:		No
P199 other:		No
Added as a formulation component:		No
P201 additives:		No
P202 dyes:		No
P203 reaction diluents:		No
P204 initiators:		No
P205 solvents:		No
P206 inhibitors:		No
P207 emulsifiers:		No
P208 surfactants:		No
P209 lubricants:		No
P210 flame retardants:		No
P211 rheological modifiers:		No
P299 other:		No
Used as an article component:		No
Repackaging:		No
As a process impurity:		No
Processed / recycling:		No
Used as a chemical processing aid:		No
Z101 process solvents:		No

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Z102 catalysts:	No
Z103 inhibitors:	No
Z104 initiators:	No
Z105 reaction terminators:	No
Z106 solution buffers:	No
Z199 other:	No
Used as a manufacturing aid:	No
Z201 process lubricants:	No
Z202 metalworking fluids:	No
Z203 coolants:	No
Z204 refrigerants:	No
Z205 hydraulic fluids:	No
Z299 other:	No
Ancillary or other use:	Yes
Z301 cleaner:	No
Z302 degreaser:	No
Z303 lubricant:	No
Z304 fuel:	No
Z305 flame retardant:	No
Z306 waste treatment:	No
Z307 water treatment:	No
Z308 construction materials:	No
Z399 other:	No

Submitted Facility Name:	NASA JET PROPULSION LABORATORY
Submitted Street:	4800 OAK GROVE DR MS/ 200-119
Submitted City:	PASADENA
Submitted County:	LOS ANGELES
Submitted State:	CA
Submitted Zip Code:	91109
Submitted BIA Code:	Not reported
Submitted Tribe Name:	Not reported
Submitted Parent Company Name:	NATIONAL AERONAUTICS & SPACE ADMINISTRATION
Submitted Parent Company DB Number:	Not reported
Submitted Standardized Parent Company Name:	NATIONAL AERONAUTICS & SPACE ADMINISTRATION
Submitted Primary NAICS Code:	927110
Submitted Industry Code:	999
Submitted Industry Name:	Other
Industry Code:	999
Industry Name:	Other
Last year the facility reported:	2019
First year the facility reported:	2001
Number of forms submitted:	1
Total number of forms submitted:	17 20200808

Detailed Source Reduction Activities and Methods:

Cas number:	007439921
Document control number:	1318216921890
Chemical name: LEAD	
Classification:	PBT
Unit of measure:	Pounds
On-site limited releases - prior year:	0
On-site limited releases - current year:	0
On-site limited releases - following year:	0
On-site limited releases - 2nd-following year:	0
Other on-site releases - prior year:	.1309
Other on-site releases - current year:	.0635

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Other on-site releases - following year:	.0635
Other on-site releases - 2nd-following year:	.0635
Off-site limited releases - prior year:	0
Off-site limited releases - current year:	0
Off-site limited releases - following year:	0
Off-site limited releases - 2nd-following year:	0
Other off-site releases - previous year:	0
Other off-site releases - current year:	0
Other off-site releases - following year:	0
Other off-site releases - 2nd-following year:	0
Energy recovery on site prior year:	0
Energy recovery on site current year:	0
Energy recovery on site following year:	0
Energy recovery on site 2nd-following year:	0
Energy recovery off site prior year:	0
Energy recovery off site current year:	0
Energy recovery off site following year:	0
Energy recovery off site 2nd-following year:	0
Quantity recycled on site prior year:	0
Quantity recycled on site current year:	0
Quantity recycled on site following year:	0
Quantity recycled on site 2nd-following year:	0
Quantity recycled off site prior year:	0
Quantity recycled off site current year:	0
Quantity recycled off site following year:	0
Quantity recycled off site 2nd-following year:	0
Quantity treated on site prior year:	0
Quantity treated on site current year:	0
Quantity treated on site following year:	0
Quantity treated on site 2nd-following year:	0
Quantity treated off site prior year:	0
Quantity treated off site current year:	0
Quantity treated off site following year:	0
Quantity treated off site 2nd-following year:	0
Catastrophic releases or other one-time events:	Not reported
Prod ratio/activity index:	1
Prod ratio or activity:	ACTIVITY
1st SR reduction activity:	NA-NA
1st SR activity ID meth code and desc 1:	Not reported
1st SR activity ID meth code and desc 2:	Not reported
1st SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 1st source REDN act code and desc:	Not reported
2nd SR activity code and desc:	Not reported
2nd SR activity ID meth code and desc 1:	Not reported
2nd SR activity ID meth code and desc 2:	Not reported
2nd SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 2nd source REDN act code and desc:	Not reported
3rd SR activity code and desc:	Not reported
3rd SR activity ID meth code and desc 1:	Not reported
3rd SR activity ID meth code and desc 2:	Not reported
3rd SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 3rd source REDN act code and desc:	Not reported
4th SR activity code and desc:	Not reported
4th SR activity ID meth code and desc 1:	Not reported
4th SR activity ID meth code and desc 2:	Not reported
4th SR activity ID meth code and desc 3:	Not reported
EST Ann REDN 4th source REDN act code and desc:	Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Detailed On-site Waste Treatment Methods and Efficiency:

Cas number:	007439921
Document control number:	1318216921890
Chemical name: LEAD	
Classification:	PBT
Unit of measure:	Pounds
Stream 1 - waste stream code:	NA
Stream 1 - trtmt method - sequence 1:	Not reported
Stream 1 - trtmt method - sequence 2:	Not reported
Stream 1 - trtmt method - sequence 3:	Not reported
Stream 1 - trtmt method - sequence 4:	Not reported
Stream 1 - trtmt method - sequence 5:	Not reported
Stream 1 - trtmt method - sequence 6:	Not reported
Stream 1 - trtmt method - sequence 7:	Not reported
Stream 1 - trtmt method - sequence 8:	Not reported
Stream 1 - based on operating data:	Not reported
Stream 2 - waste stream code:	Not reported
Stream 2 - trtmt method - sequence 1:	Not reported
Stream 2 - trtmt method - sequence 2:	Not reported
Stream 2 - trtmt method - sequence 3:	Not reported
Stream 2 - trtmt method - sequence 4:	Not reported
Stream 2 - trtmt method - sequence 5:	Not reported
Stream 2 - trtmt method - sequence 6:	Not reported
Stream 2 - trtmt method - sequence 7:	Not reported
Stream 2 - trtmt method - sequence 8:	Not reported
Stream 2 - based on operating data:	Not reported
Stream 3 - waste stream code:	Not reported
Stream 3 - trtmt method - sequence 1:	Not reported
Stream 3 - trtmt method - sequence 2:	Not reported
Stream 3 - trtmt method - sequence 3:	Not reported
Stream 3 - trtmt method - sequence 4:	Not reported
Stream 3 - trtmt method - sequence 5:	Not reported
Stream 3 - trtmt method - sequence 6:	Not reported
Stream 3 - trtmt method - sequence 7:	Not reported
Stream 3 - trtmt method - sequence 8:	Not reported
Stream 3 - based on operating data:	Not reported
Stream 4 - waste stream code:	Not reported
Stream 4 - trtmt method - sequence 1:	Not reported
Stream 4 - trtmt method - sequence 2:	Not reported
Stream 4 - trtmt method - sequence 3:	Not reported
Stream 4 - trtmt method - sequence 4:	Not reported
Stream 4 - trtmt method - sequence 5:	Not reported
Stream 4 - trtmt method - sequence 6:	Not reported
Stream 4 - trtmt method - sequence 7:	Not reported
Stream 4 - trtmt method - sequence 8:	Not reported
Stream 4 - based on operating data:	Not reported
Stream 5 - waste stream code:	Not reported
Stream 5 - trtmt method - sequence 1:	Not reported
Stream 5 - trtmt method - sequence 2:	Not reported
Stream 5 - trtmt method - sequence 3:	Not reported
Stream 5 - trtmt method - sequence 4:	Not reported
Stream 5 - trtmt method - sequence 5:	Not reported
Stream 5 - trtmt method - sequence 6:	Not reported
Stream 5 - trtmt method - sequence 7:	Not reported
Stream 5 - trtmt method - sequence 8:	Not reported
Stream 5 - based on operating data:	Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

ROD:

Name:	JET PROPULSION LABORATORY (NASA)
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
EPA ID:	CA9800013030
RG:	9
Site ID:	903438
Action:	FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number:	ONSITE GW
SEQ ID:	1
Action Completion:	2007-02-08 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

Name:	JET PROPULSION LABORATORY (NASA)
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
EPA ID:	CA9800013030
RG:	9
Site ID:	903438
Action:	FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number:	SOILS/SVE
SEQ ID:	2
Action Completion:	2002-09-19 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

Name:	JET PROPULSION LABORATORY (NASA)
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
EPA ID:	CA9800013030
RG:	9
Site ID:	903438
Action:	FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number:	OFFSITE GW
SEQ ID:	3
Action Completion:	2007-06-28 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

Name:	JET PROPULSION LABORATORY (NASA)
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
EPA ID:	CA9800013030
RG:	9
Site ID:	903438
Action:	FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number:	ONSITE GW
SEQ ID:	5
Action Completion:	2018-02-21 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

ICIS:

Enforcement Action ID:	CASCAA0000060370057600041
FRS ID:	110002626061

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Action Name:	NASA-JPL 060370057600041
Facility Name:	NASA-JPL
Facility Address:	4800 OAK GROVE DRIVE PASADENA, CA 91109
Enforcement Action Type:	Administrative Order
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	SCAAAO
Facility SIC Code:	9661
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.20118
Longitude in Decimal Degrees:	-118.16743
Permit Type Desc:	Not reported
Program System Acronym:	CASCA0000603700576
Facility NAICS Code:	927110
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA0000060370057600040
FRS ID:	110002626061
Action Name:	NASA-JPL 060370057600040
Facility Name:	NASA-JPL
Facility Address:	4800 OAK GROVE DRIVE PASADENA, CA 91109
Enforcement Action Type:	Notice of Violation
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	9661
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.20118
Longitude in Decimal Degrees:	-118.16743
Permit Type Desc:	Not reported
Program System Acronym:	CASCA0000603700576
Facility NAICS Code:	927110
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA0000060370057600025
FRS ID:	110002626061
Action Name:	NASA-JPL 060370057600025
Facility Name:	NASA-JPL
Facility Address:	4800 OAK GROVE DRIVE PASADENA, CA 91109
Enforcement Action Type:	Administrative Order
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	SCAAAO
Facility SIC Code:	9661
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.20118
Longitude in Decimal Degrees:	-118.16743
Permit Type Desc:	Not reported
Program System Acronym:	CASCA0000603700576
Facility NAICS Code:	927110
Tribal Land Code:	Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Enforcement Action ID:	CASCAA0000060370057600024
FRS ID:	110002626061
Action Name:	NASA-JPL 060370057600024
Facility Name:	NASA-JPL
Facility Address:	4800 OAK GROVE DRIVE PASADENA, CA 91109
Enforcement Action Type:	Notice of Violation
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	9661
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.20118
Longitude in Decimal Degrees:	-118.16743
Permit Type Desc:	Not reported
Program System Acronym:	CASCA0000603700576
Facility NAICS Code:	927110
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA0000060370057600020
FRS ID:	110002626061
Action Name:	NASA-JPL 060370057600020
Facility Name:	NASA-JPL
Facility Address:	4800 OAK GROVE DRIVE PASADENA, CA 91109
Enforcement Action Type:	Administrative Order
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Formal
EA Type Code:	SCAAAO
Facility SIC Code:	9661
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.20118
Longitude in Decimal Degrees:	-118.16743
Permit Type Desc:	Not reported
Program System Acronym:	CASCA0000603700576
Facility NAICS Code:	927110
Tribal Land Code:	Not reported

Enforcement Action ID:	CASCAA0000060370057600019
FRS ID:	110002626061
Action Name:	NASA-JPL 060370057600019
Facility Name:	NASA-JPL
Facility Address:	4800 OAK GROVE DRIVE PASADENA, CA 91109
Enforcement Action Type:	Notice of Violation
Facility County:	LOS ANGELES
Program System Acronym:	AIR
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	9661
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	34.20118
Longitude in Decimal Degrees:	-118.16743
Permit Type Desc:	Not reported
Program System Acronym:	CASCA0000603700576

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Facility NAICS Code: 927110
Tribal Land Code: Not reported

Enforcement Action ID: 09-1992-0148
FRS ID: 110002626061
Action Name: NASA Jet Propulsion Laboratory
Facility Name: NASA JET PROPULSION LABORATORY
Facility Address: 4800 OAK GROVE DRIVE
PASADENA, CA 911099099
Enforcement Action Type: CERCLA 120E Federal Facility Agreement (FFA)
Facility County: LOS ANGELES
Program System Acronym: ICIS
Enforcement Action Forum Desc: Administrative - Formal
EA Type Code: 120E
Facility SIC Code: 9661
Federal Facility ID: Not reported
Latitude in Decimal Degrees: 34.20118
Longitude in Decimal Degrees: -118.16743
Permit Type Desc: Not reported
Program System Acronym: 600016173
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

Facility Name: NASA JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DRIVE
Tribal Indicator: N
Fed Facility: Yes
NAIC Code: Not reported
SIC Code: 9661

Facility Name: NASA JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DRIVE
Tribal Indicator: N
Fed Facility: Yes
NAIC Code: Not reported
SIC Code: 9661

Facility Name: NASA JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DRIVE
Tribal Indicator: N
Fed Facility: Yes
NAIC Code: Not reported
SIC Code: 9661

Facility Name: NASA JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DRIVE
Tribal Indicator: N
Fed Facility: Yes
NAIC Code: Not reported
SIC Code: 9661

Facility Name: NASA JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DRIVE
Tribal Indicator: N
Fed Facility: Yes
NAIC Code: Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

SIC Code: 9661

Facility Name: NASA JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DRIVE
Tribal Indicator: N
Fed Facility: Yes
NAIC Code: Not reported
SIC Code: 9661

Facility Name: NASA JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DRIVE
Tribal Indicator: N
Fed Facility: Yes
NAIC Code: Not reported
SIC Code: 9661

Facility Name: NASA JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DRIVE
Tribal Indicator: N
Fed Facility: Yes
NAIC Code: Not reported
SIC Code: 9661

Facility Name: NASA JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DRIVE
Tribal Indicator: N
Fed Facility: Yes
NAIC Code: Not reported
SIC Code: 9661

Facility Name: NASA JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DRIVE
Tribal Indicator: N
Fed Facility: Yes
NAIC Code: Not reported
SIC Code: 9661

Facility Name: NASA JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DRIVE
Tribal Indicator: N
Fed Facility: Yes
NAIC Code: Not reported
SIC Code: 9661

Facility Name: NASA JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DRIVE
Tribal Indicator: N
Fed Facility: Yes
NAIC Code: Not reported
SIC Code: 9661

US AIRS (AFS):
Envid: 1000128791
Region Code: 09
County Code: CA037
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
D and B Number: Not reported
Facility Site Name: NASA-JPL
Primary SIC Code: 9661
NAICS Code: 927110
Default Air Classification Code: MAJ
Facility Type of Ownership Code: FDF
Air CMS Category Code: TVM

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

HPV Status: Not reported

US AIRS (AFS):
Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 1999-09-01 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2000-05-18 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: Not reported
Activity Status Date: 2005-01-12 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-08-21 00:00:00
Activity Status Date: 2014-12-18 19:36:24
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-11-20 00:00:00

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Activity Status Date:	2014-12-18 19:53:35
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Active
Region Code:	09
Programmatic ID:	AIR CASCA0000603700576
Facility Registry ID:	110002626061
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2014-11-21 00:00:00
Activity Status Date:	2014-12-18 19:34:11
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Active
Region Code:	09
Programmatic ID:	AIR CASCA0000603700576
Facility Registry ID:	110002626061
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2015-12-11 00:00:00
Activity Status Date:	2015-12-15 18:25:27
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Active
Region Code:	09
Programmatic ID:	AIR CASCA0000603700576
Facility Registry ID:	110002626061
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2015-12-11 00:00:00
Activity Status Date:	2015-12-15 18:26:16
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Active
Region Code:	09
Programmatic ID:	AIR CASCA0000603700576
Facility Registry ID:	110002626061
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2016-08-23 00:00:00
Activity Status Date:	2016-09-02 17:13:44
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Active
Region Code:	09
Programmatic ID:	AIR CASCA0000603700576
Facility Registry ID:	110002626061
Air Operating Status Code:	OPR

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1984-11-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1985-12-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1986-10-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1987-01-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-01-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1988-07-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1989-09-06 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1990-08-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1990-12-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1991-10-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1992-12-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1993-11-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1994-12-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1995-11-30 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1996-12-06 00:00:00

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1997-11-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-12-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-01-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2002-01-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-10-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2003-10-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-10-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-11-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-08-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-08-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2005-12-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2006-04-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-08-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-09-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2007-10-23 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-08-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-09-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2008-10-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-02-18 00:00:00

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-02-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-06-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-08-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-08-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2009-08-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-03-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-08-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2010-09-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-05-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-08-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-10-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2011-10-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-08-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-09-17 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-09-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-12-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-12-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-06-11 00:00:00

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-08-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-11-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-12-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-07-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1999-01-07 00:00:00
Activity Status Date: 1999-01-07 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-03-31 00:00:00
Activity Status Date: 2000-03-31 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-06-11 00:00:00
Activity Status Date: 2004-06-11 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Formal
Activity Status: Final Order Issued

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 1998-12-04 00:00:00
Activity Status Date: 1998-12-04 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2000-02-01 00:00:00
Activity Status Date: 2000-02-01 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2004-05-20 00:00:00
Activity Status Date: 2004-05-20 00:00:00
Activity Group: Enforcement Action
Activity Type: Administrative - Informal
Activity Status: Achieved

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: Not reported
Activity Status Date: 2005-01-12 00:00:00
Activity Group: Case File
Activity Type: Case File
Activity Status: Resolved

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-08-21 00:00:00
Activity Status Date: 2014-12-18 19:36:24
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-11-20 00:00:00
Activity Status Date: 2014-12-18 19:53:35
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-11-21 00:00:00
Activity Status Date: 2014-12-18 19:34:11
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-12-11 00:00:00
Activity Status Date: 2015-12-15 18:25:27
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-12-11 00:00:00
Activity Status Date: 2015-12-15 18:26:16
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2016-08-23 00:00:00
Activity Status Date: 2016-09-02 17:13:44
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2016-08-24 00:00:00
Activity Status Date: 2016-10-07 13:32:07
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 1998-12-03 00:00:00

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700576
Facility Registry ID:	110002626061
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2000-01-13 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700576
Facility Registry ID:	110002626061
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2001-03-13 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700576
Facility Registry ID:	110002626061
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2002-01-17 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700576
Facility Registry ID:	110002626061
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2002-08-14 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700576
Facility Registry ID:	110002626061
Air Operating Status Code:	OPR

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2002-12-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-08-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-08-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-10-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2003-10-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-10-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2004-11-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-08-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-08-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2005-12-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-04-25 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2006-08-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-08-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-09-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2007-10-23 00:00:00

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-08-13 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-09-29 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2008-10-03 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-02-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-02-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-06-24 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-08-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-08-27 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2009-08-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-03-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-08-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-15 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2010-09-16 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2011-05-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700576
Facility Registry ID:	110002626061
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2011-08-24 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700576
Facility Registry ID:	110002626061
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2011-10-12 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700576
Facility Registry ID:	110002626061
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2011-10-13 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700576
Facility Registry ID:	110002626061
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2012-08-28 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	09
Programmatic ID:	AIR CASCA0000603700576
Facility Registry ID:	110002626061
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2012-09-17 00:00:00

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-09-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-12-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2012-12-12 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-06-11 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-08-28 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-11-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2013-12-18 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2014-07-02 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09
Programmatic ID: AIR CASCA0000603700576
Facility Registry ID: 110002626061
Air Operating Status Code: OPR
Default Air Classification Code: MAJ
Air Program: Title V Permits
Activity Date: 2015-08-19 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 09

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Programmatic ID:	AIR CASCA0000603700576
Facility Registry ID:	110002626061
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2004-06-11 00:00:00
Activity Status Date:	2004-06-11 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Formal
Activity Status:	Final Order Issued

Region Code:	09
Programmatic ID:	AIR CASCA0000603700576
Facility Registry ID:	110002626061
Air Operating Status Code:	OPR
Default Air Classification Code:	MAJ
Air Program:	Title V Permits
Activity Date:	2004-05-20 00:00:00
Activity Status Date:	2004-05-20 00:00:00
Activity Group:	Enforcement Action
Activity Type:	Administrative - Informal
Activity Status:	Achieved

FINDS:
Registry ID: 110070087930

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
Registry ID: 110002626061

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
California Department of Toxic Substances Control EnviroStor System (DTSC-EnviroStor) is an online search and Geographic Information System (GIS) tool for identifying sites that have known contamination or sites for which there may be reasons to investigate further. The EnviroStor 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.
AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.
AIR PROGRAM
SUPERFUND NPL
US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.
FEDERAL FACILITY HAZARDOUS WASTE DOCKET
HAZARDOUS AIR POLLUTANT MAJOR
OSHA ESTABLISHMENT
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.
AIR MAJOR
STATE MASTER
HAZARDOUS WASTE BIENNIAL REPORTER
ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000128791
Registry ID:	110070087930
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110070087930
Name:	NASA
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109

Envid:	1000128791
Registry ID:	110002626061
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002626061
Name:	NASA JET PROPULSION LABORATORY
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

DOCKET HWC:
- Agency: NASA
- Facility ID: CA9800013030
- Name: JET PROPULSION LABORATORY
- Address: 4800 OAK GROVE DR
- City,State,Zip: PASADENA, CA 91109
- Reporting Mechanism: RCRA 3010
- Status: On MDL
- Added Date: 2/12/1988

NY MANIFEST:
- Name: JET PROPULSION LABORATORY
- Address: 4800 OAK GROVE DRIVE M/S 200-1
- City,State,Zip: PASADENA, CA 91109-0000
- Country: USA
- EPA ID: CA9800013030
- Facility Status: Not reported
- Location Address 1: 4800 OAK GROVE DR
- Code: BP
- Location Address 2: Not reported
- Total Tanks: Not reported
- Location City: PASEDENA
- Location State: CA
- Location Zip: 91109
- Location Zip 4: Not reported

NY MANIFEST:
- EPAID: CA9800013030
- Mailing Name: JET PROPULSION LABORATORY
- Mailing Contact: JET PROPULSION LABORATORY
- Mailing Address 1: 4800 OAK GROVE DR
- Mailing Address 2: Not reported
- Mailing City: PASADENA
- Mailing State: CA
- Mailing Zip: 91109
- Mailing Zip 4: Not reported
- Mailing Country: USA
- Mailing Phone: 8183544710

NON-CASE INFO:
- Name: JET PROPULSION LABORATORY
- Address: 4800 OAK GROVE DR
- City,State,Zip: PASADENA, CA 91109
- Global ID: T10000017599
- Case Type: Non-Case Information
- Status: Informational Item / Review Complete
- Status Date: 01/11/2022
- Lead Agency: LOS ANGELES RWQCB (REGION 4)
- Case Worker: YL
- Local Agency: Not reported
- RB Case Number: I-11934
- Loc Case Number: Not reported
- File Location: Not reported
- Potential Contaminants of Concern: Not reported
- Potential Media Affected: Not reported

JET PROPULSION LABORATORY (NASA) (Continued) **1000128791**

Site History:	Not reported
Begin Date:	2021-12-30 00:00:00
How Discovered:	Not reported
How Discovered Description:	Not reported
Stop Method:	Not reported
Stop Description:	Not reported
Latitude:	34.20088
Longitude:	-118.17431
Geotracker:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000017599

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10 WNW < 1/8 0.030 mi. 161 ft. **CAROL HERMAN** **RCRA NonGen / NLR** **1025827846**
5043 GOULD AVE **CAC003007399**
LA CANADA, CA 91011

Relative: Higher

Actual: 1341 ft.

RCRA Listings:

Date Form Received by Agency:		20190326
Handler Name:	CAROL HERMAN	
Handler Address:		5043 GOULD AVE
Handler City,State,Zip:		LA CANADA, CA 91011
EPA ID:		CAC003007399
Contact Name:		CAROL HERMAN
Contact Address:		5043 GOULD AVE
Contact City,State,Zip:		LA CANADA, CA 91011
Contact Telephone:		703-407-8425
Contact Fax:		Not reported
Contact Email:		SARAH@PWSEI.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		5043 GOULD AVE
Mailing City,State,Zip:		LA CANADA, CA 91011
Owner Name:	CAROL HERMAN	
Owner Type:		Other
Operator Name:	CAROL HERMAN	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported

CAROL HERMAN (Continued) **1025827846**

Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20190626
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: CAROL HERMAN	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5043 GOULD AVE
Owner/Operator City,State,Zip:	LA CANADA, CA 91011
Owner/Operator Telephone:	703-407-8425
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner

CAROL HERMAN (Continued) **1025827846**

Owner/Operator Name: CAROL HERMAN
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 5043 GOULD AVE
Owner/Operator City,State,Zip: LA CANADA, CA 91011
Owner/Operator Telephone: 703-407-8425
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20190326
Handler Name: CAROL HERMAN
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B11 **DAN BRYANT** **RCRA NonGen / NLR** **1027206488**
WSW **513 KNIGHT WAY** **CAC003170623**
< 1/8 **LA CANADA, CA 91011**
0.044 mi.
234 ft. **Site 1 of 2 in cluster B**

Relative:
Higher

Actual:
1324 ft.

RCRA Listings:
Date Form Received by Agency: 20220411
Handler Name: DAN BRYANT
Handler Address: 513 KNIGHT WAY
Handler City,State,Zip: LA CANADA, CA 91011
EPA ID: CAC003170623
Contact Name: DAN BRYANT
Contact Address: 513 KNIGHT WAY
Contact City,State,Zip: LA CANADA, CA 91011
Contact Telephone: 909-781-8170
Contact Fax: Not reported
Contact Email: MAYRA.TEECOR@YAHOO.COM
Contact Title: Not reported
EPA Region: 09

DAN BRYANT (Continued) **1027206488**

Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		513 KNIGHT WAY
Mailing City,State,Zip:		LA CANADA, CA 91011
Owner Name:	DAN BRYANT	
Owner Type:		Other
Operator Name:	DAN BRYANT	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No

DAN BRYANT (Continued) **1027206488**

Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220412
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: DAN BRYANT	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	513 KNIGHT WAY
Owner/Operator City,State,Zip:	LA CANADA, CA 91011
Owner/Operator Telephone:	909-781-8170
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: DAN BRYANT	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	513 KNIGHT WAY
Owner/Operator City,State,Zip:	LA CANADA, CA 91011
Owner/Operator Telephone:	909-781-8170
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20220411
Handler Name: DAN BRYANT	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

DAN BRYANT (Continued) **1027206488**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

12
ESE
< 1/8
0.049 mi.
261 ft.

TYLER & ALICIA ROBERTS **RCRA NonGen / NLR** **1027090380**
405 KNIGHT WAY **CAC003162888**
LA CANADA FLINTRIDGE, CA 91011

Relative:
Lower

Actual:
1279 ft.

RCRA Listings:

Date Form Received by Agency:		20220221
Handler Name:	TYLER & ALICIA ROBERTS	
Handler Address:		405 KNIGHT WAY
Handler City,State,Zip:		LA CANADA FLINTRIDGE, CA 91011
EPA ID:		CAC003162888
Contact Name:		TYLER & ALICIA ROBERTS
Contact Address:		405 KNIGHT WAY
Contact City,State,Zip:		LA CANADA FLINTRIDGE, CA 91011
Contact Telephone:		909-455-6362
Contact Fax:		Not reported
Contact Email:		WANG@FRESHAIRENVIRONMENTAL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		405 KNIGHT WAY
Mailing City,State,Zip:		LA CANADA FLINTRIDGE, CA 91011
Owner Name:	TYLER & ALICIA ROBERTS	
Owner Type:		Other
Operator Name:	TYLER & ALICIA ROBERTS	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported

TYLER & ALICIA ROBERTS (Continued) **1027090380**

Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220223
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: TYLER & ALICIA ROBERTS	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	405 KNIGHT WAY
Owner/Operator City,State,Zip:	LA CANADA FLINTRIDGE, CA 91011
Owner/Operator Telephone:	909-455-6362
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: TYLER & ALICIA ROBERTS	
Legal Status:	Other

TYLER & ALICIA ROBERTS (Continued) **1027090380**

Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	405 KNIGHT WAY
Owner/Operator City,State,Zip:	LA CANADA FLINTRIDGE, CA 91011
Owner/Operator Telephone:	909-455-6362
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20220221
Handler Name: TYLER & ALICIA ROBERTS	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

B13 **DAN BRYANT** **RCRA NonGen / NLR** **1027089892**
WSW **516 KNIGHT WAY** **CAC003162380**
< 1/8 **LA CANADA FLINTRIDGE, CA 91011**
0.062 mi.
328 ft. **Site 2 of 2 in cluster B**

Relative:
Higher

Actual:
1322 ft.

RCRA Listings:

Date Form Received by Agency:	20220217
Handler Name: DAN BRYANT	
Handler Address:	516 KNIGHT WAY
Handler City,State,Zip:	LA CANADA FLINTRIDGE, CA 91011
EPA ID:	CAC003162380
Contact Name:	DAN BRYANT
Contact Address:	516 KNIGHT WAY
Contact City,State,Zip:	LA CANADA FLINTRIDGE, CA 91011
Contact Telephone:	909-781-8170
Contact Fax:	Not reported
Contact Email:	CIRIA.TEECOR@YAHOO.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified

DAN BRYANT (Continued) **1027089892**

Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		516 KNIGHT WAY
Mailing City,State,Zip:		LA CANADA FLINTRIDGE, CA 91011
Owner Name:	DAN BRYANT	
Owner Type:		Other
Operator Name:	DAN BRYANT	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No

DAN BRYANT (Continued) **1027089892**

Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220217
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: DAN BRYANT	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	516 KNIGHT WAY
Owner/Operator City,State,Zip:	LA CANADA FLINTRIDGE, CA 91011
Owner/Operator Telephone:	909-781-8170
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: DAN BRYANT	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	516 KNIGHT WAY
Owner/Operator City,State,Zip:	LA CANADA FLINTRIDGE, CA 91011
Owner/Operator Telephone:	909-781-8170
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20220217
Handler Name: DAN BRYANT	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

DAN BRYANT (Continued) **1027089892**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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14 **CT MAX DEVELOPMENT** **RCRA NonGen / NLR** **1026475387**
SSW **4928 GOULD AVENUE** **CAC003081134**
< 1/8 **LA CANADA FLINTRIDGE, CA 91011**
0.062 mi.
328 ft.

Relative:
Lower

Actual:
1301 ft.

RCRA Listings:

Date Form Received by Agency:		20200826
Handler Name:	CT MAX DEVELOPMENT	
Handler Address:		4928 GOULD AVENUE
Handler City,State,Zip:		LA CANADA FLINTRIDGE, CA 91011
EPA ID:		CAC003081134
Contact Name:		GARY LIN
Contact Address:		112 N EARLE STREET
Contact City,State,Zip:		SAN GABRIEL, CA 91775
Contact Telephone:		626-285-3408
Contact Fax:		Not reported
Contact Email:		LUPE@FRESHAIRENVIRONMENTAL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		112 N EARLE STREET
Mailing City,State,Zip:		SAN GABRIEL, CA 91775
Owner Name:	CT MAX DEVELOPMENT	
Owner Type:		Other
Operator Name:	GARY LIN	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported

CT MAX DEVELOPMENT (Continued) **1026475387**

Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200904
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: CT MAX DEVELOPMENT	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	112 N EARLE STREET
Owner/Operator City,State,Zip:	SAN GABRIEL, CA 91775
Owner/Operator Telephone:	626-285-3408
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name: GARY LIN	
Legal Status:	Other

CT MAX DEVELOPMENT (Continued) **1026475387**

Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 112 N EARLE STREET
Owner/Operator City,State,Zip: SAN GABRIEL, CA 91775
Owner/Operator Telephone: 626-285-3408
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20200826
Handler Name: CT MAX DEVELOPMENT
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

15
ENE
< 1/8
0.109 mi.
574 ft.

KEITH TOBIAS **RCRA NonGen / NLR** **1024752691**
458 NOREN STREET **CAC002972500**
LA CANADA, CA 91011

Relative:
Higher

Actual:
1406 ft.

RCRA Listings:
Date Form Received by Agency: 20180724
Handler Name: KEITH TOBIAS
Handler Address: 458 NOREN STREET
Handler City,State,Zip: LA CANADA, CA 91011
EPA ID: CAC002972500
Contact Name: KEITH TOBIAS
Contact Address: 458 NOREN STREET
Contact City,State,Zip: LA CANADA, CA 91011
Contact Telephone: 818-790-4254
Contact Fax: Not reported
Contact Email: LUPE@FRESHAIRENVIRONMENTAL.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified

KEITH TOBIAS (Continued) **1024752691**

Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		458 NOREN STREET
Mailing City,State,Zip:		LA CANADA, CA 91011
Owner Name:	KEITH TOBIAS	
Owner Type:		Other
Operator Name:	KEITH TOBIAS	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No

KEITH TOBIAS (Continued) **1024752691**

Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180831
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: KEITH TOBIAS	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	458 NOREN STREET
Owner/Operator City,State,Zip:	LA CANADA, CA 91011
Owner/Operator Telephone:	818-790-4254
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: KEITH TOBIAS	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	458 NOREN STREET
Owner/Operator City,State,Zip:	LA CANADA, CA 91011
Owner/Operator Telephone:	818-790-4254
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20180724
Handler Name: KEITH TOBIAS	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

KEITH TOBIAS (Continued) **1024752691**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

16
North
< 1/8
0.110 mi.
579 ft.

MICHELE LACHER **RCRA NonGen / NLR** **1024765891**
533 PAULETTE PL. **CAC002985760**
LA CANADA, CA 91011

Relative:
Higher

Actual:
1388 ft.

RCRA Listings:

Date Form Received by Agency:		20181019
Handler Name:	MICHELE LACHER	
Handler Address:		533 PAULETTE PL.
Handler City,State,Zip:		LA CANADA, CA 91011
EPA ID:		CAC002985760
Contact Name:		MICHELE LACHER
Contact Address:		533 PAULETTE PL.
Contact City,State,Zip:		LA CANADA, CA 91011
Contact Telephone:		818-882-8433
Contact Fax:		Not reported
Contact Email:		ANDREWC@PWSEI.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		533 PAULETTE PL.
Mailing City,State,Zip:		LA CANADA, CA 91011
Owner Name:	MICHELE LACHER	
Owner Type:		Other
Operator Name:	MICHELE LACHER	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported

MICHELE LACHER (Continued) **1024765891**

Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20181120
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: MICHELE LACHER	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	533 PAULETTE PL.
Owner/Operator City,State,Zip:	LA CANADA, CA 91011
Owner/Operator Telephone:	818-882-8433
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name: MICHELE LACHER	
Legal Status:	Other

MICHELE LACHER (Continued) **1024765891**

Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	533 PAULETTE PL.
Owner/Operator City,State,Zip:	LA CANADA, CA 91011
Owner/Operator Telephone:	818-882-8433
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20181019
Handler Name: MICHELE LACHER	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56299
NAICS Description:	ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

17
ESE
< 1/8
0.115 mi.
609 ft.

SVARCS ANTONS **EDR Hist Cleaner** **1018687695**
376 MELLOW LN **N/A**
LA CANADA FLINTRIDGE, CA 91011

Relative:
Lower

Actual:
1289 ft.

EDR Hist Cleaner

Year:	Name:	Type:
2007	SVARCS ANTONS	Garment Pressing And Cleaners' Agents
2008	SVARCS ANTONS	Garment Pressing And Cleaners' Agents
2009	SVARCS ANTONS	Garment Pressing And Cleaners' Agents
2010	SVARCS ANTONS	Garment Pressing And Cleaners' Agents
2011	SVARCS ANTONS	Garment Pressing And Cleaners' Agents
2012	SVARCS ANTONS	Garment Pressing And Cleaners' Agents

C18
SE
1/8-1/4
0.145 mi.
768 ft.

ERIK AND KERRY WEINER
354 KNIGHT WAY
LA CANADA FLINTRIDGE, CA 91011

Site 1 of 2 in cluster C

RCRA NonGen / NLR

1027068882
CAC003140232

Relative:
Lower

Actual:
1264 ft.

RCRA Listings:

Date Form Received by Agency:		20210922
Handler Name:	ERIK AND KERRY WEINER	
Handler Address:		354 KNIGHT WAY
Handler City,State,Zip:		LA CANADA FLINTRIDGE, CA 91011
EPA ID:		CAC003140232
Contact Name:		ERIK AND KERRY WEINER
Contact Address:		354 KNIGHT WAY
Contact City,State,Zip:		LA CANADA FLINTRIDGE, CA 91011
Contact Telephone:		917-548-9981
Contact Fax:		Not reported
Contact Email:		ERIKANDKERRY@GMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		354 KNIGHT WAY
Mailing City,State,Zip:		LA CANADA FLINTRIDGE, CA 91011
Owner Name:	ERIK AND KERRY WEINER	
Owner Type:		Other
Operator Name:	ERIK AND KERRY WEINER	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

ERIK AND KERRY WEINER (Continued) **1027068882**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210922
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: ERIK AND KERRY WEINER	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	354 KNIGHT WAY
Owner/Operator City,State,Zip:	LA CANADA FLINTRIDGE, CA 91011
Owner/Operator Telephone:	917-548-9981
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: ERIK AND KERRY WEINER	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	354 KNIGHT WAY
Owner/Operator City,State,Zip:	LA CANADA FLINTRIDGE, CA 91011
Owner/Operator Telephone:	917-548-9981
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

ERIK AND KERRY WEINER (Continued) **1027068882**

Historic Generators:
- Receive Date: 20210922
- Handler Name: ERIK AND KERRY WEINER
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: No
- Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
- NAICS Code: 56299
- NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

C19 **ERIK & KERRY WEINER** **RCRA NonGen / NLR** **1027076069**
SE **354 KNIGHT WAY** **CAC003147844**
1/8-1/4 **LA CANADA FLINTRIDGE, CA 91011**
0.145 mi.
768 ft. **Site 2 of 2 in cluster C**

Relative: **Lower**
Actual: **1264 ft.**

RCRA Listings:
- Date Form Received by Agency: 20211110
- Handler Name: ERIK & KERRY WEINER
- Handler Address: 354 KNIGHT WAY
- Handler City,State,Zip: LA CANADA FLINTRIDGE, CA 91011
- EPA ID: CAC003147844
- Contact Name: ERIK AND KERRY WEINER
- Contact Address: 354 KNIGHT WAY
- Contact City,State,Zip: LA CANADA FLINTRIDGE, CA 91011
- Contact Telephone: 917-548-9981
- Contact Fax: Not reported
- Contact Email: ERIKANDKERRY@GMAIL.COM
- Contact Title: Not reported
- EPA Region: 09
- Land Type: Not reported
- Federal Waste Generator Description: Not a generator, verified
- Non-Notifier: Not reported
- Biennial Report Cycle: Not reported
- Accessibility: Not reported
- Active Site Indicator: Not reported
- State District Owner: Not reported
- State District: Not reported
- Mailing Address: 354 KNIGHT WAY
- Mailing City,State,Zip: LA CANADA FLINTRIDGE, CA 91011
- Owner Name: ERIK AND KERRY WEINER

ERIK & KERRY WEINER (Continued) **1027076069**

Owner Type:		Other
Operator Name:	ERIK AND KERRY WEINER	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:		Not reported
Handler Date of Last Change:		20211110
Recognized Trader-Importer:		No
Recognized Trader-Exporter:		No
Importer of Spent Lead Acid Batteries:		No
Exporter of Spent Lead Acid Batteries:		No
Recycler Activity Without Storage:		No
Manifest Broker:		No

ERIK & KERRY WEINER (Continued) **1027076069**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: ERIK AND KERRY WEINER
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 354 KNIGHT WAY
Owner/Operator City,State,Zip: LA CANADA FLINTRIDGE, CA 91011
Owner/Operator Telephone: 917-548-9981
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: ERIK AND KERRY WEINER
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 354 KNIGHT WAY
Owner/Operator City,State,Zip: LA CANADA FLINTRIDGE, CA 91011
Owner/Operator Telephone: 917-548-9981
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20211110
Handler Name: ERIK & KERRY WEINER
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

20
SE
1/8-1/4
0.153 mi.
806 ft.

SALA SONG
412 CANON DE PARAISO LN.
LA CANADA, CA 91011

RCRA NonGen / NLR

1026821566
CAC003134487

Relative:
Lower

Actual:
1259 ft.

RCRA Listings:

Date Form Received by Agency:		20210816
Handler Name:	SALA SONG	
Handler Address:		412 CANON DE PARAISO LN.
Handler City,State,Zip:		LA CANADA, CA 91011
EPA ID:		CAC003134487
Contact Name:		SALA SONG
Contact Address:		412 CANON DE PARAISO LN.
Contact City,State,Zip:		LA CANADA, CA 91011
Contact Telephone:		626-277-7175
Contact Fax:		Not reported
Contact Email:		CRISTAL@TEECOR.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		412 CANON DE PARAISO LN.
Mailing City,State,Zip:		LA CANADA, CA 91011
Owner Name:	SALA SONG	
Owner Type:		Other
Operator Name:	SALA SONG	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

SALA SONG (Continued) **1026821566**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210816
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: SALA SONG	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	412 CANON DE PARAISO LN.
Owner/Operator City,State,Zip:	LA CANADA, CA 91011
Owner/Operator Telephone:	626-277-7175
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: SALA SONG	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	412 CANON DE PARAISO LN.
Owner/Operator City,State,Zip:	LA CANADA, CA 91011
Owner/Operator Telephone:	626-277-7175
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

SALA SONG (Continued) **1026821566**

Historic Generators:
Receive Date: 20210816
Handler Name: SALA SONG
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

21
SW
1/8-1/4
0.179 mi.
946 ft.

SCOTT DIEN **RCRA NonGen / NLR** **1027201011**
4903 INDIANOLA WAY **CAC003164779**
LA CANADA, CA 91011

Relative:
Lower

Actual:
1300 ft.

RCRA Listings:
Date Form Received by Agency: 20220304
Handler Name: SCOTT DIEN
Handler Address: 4903 INDIANOLA WAY
Handler City,State,Zip: LA CANADA, CA 91011
EPA ID: CAC003164779
Contact Name: SCOTT DIEN
Contact Address: 4903 INDIANOLA WAY
Contact City,State,Zip: LA CANADA, CA 91011
Contact Telephone: 818-636-3666
Contact Fax: Not reported
Contact Email: JANICE@ABSOLUTEABATEMENTINC.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Not reported
State District Owner: Not reported
State District: Not reported
Mailing Address: 4903 INDIANOLA WAY
Mailing City,State,Zip: LA CANADA, CA 91011
Owner Name: SCOTT DIEN

SCOTT DIEN (Continued) **1027201011**

Owner Type:		Other
Operator Name:	SCOTT DIEN	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:		Not reported
Handler Date of Last Change:		20220308
Recognized Trader-Importer:		No
Recognized Trader-Exporter:		No
Importer of Spent Lead Acid Batteries:		No
Exporter of Spent Lead Acid Batteries:		No
Recycler Activity Without Storage:		No
Manifest Broker:		No

SCOTT DIEN (Continued) **1027201011**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: SCOTT DIEN
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4903 INDIANOLA WAY
Owner/Operator City,State,Zip: LA CANADA, CA 91011
Owner/Operator Telephone: 818-636-3666
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: SCOTT DIEN
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4903 INDIANOLA WAY
Owner/Operator City,State,Zip: LA CANADA, CA 91011
Owner/Operator Telephone: 818-636-3666
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20220304
Handler Name: SCOTT DIEN
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

22 WNW 1/8-1/4 0.219 mi. 1156 ft. | **JIN YAN CUI**
5050 HOOK TREE RD
LA CANADA FLINTRIDGE, CA 91011 | **RCRA NonGen / NLR** | **1026818378 CAC003131163**

Relative: Higher

Actual: 1393 ft.

RCRA Listings:

Date Form Received by Agency:		20210726
Handler Name:	JIN YAN CUI	
Handler Address:		5050 HOOK TREE RD
Handler City,State,Zip:		LA CANADA FLINTRIDGE, CA 91011
EPA ID:		CAC003131163
Contact Name:		JIN YAN CUI
Contact Address:		1545 PEGFAIR ESTATES DRIVE
Contact City,State,Zip:		PASADENA, CA 91103
Contact Telephone:		626-840-9011
Contact Fax:		Not reported
Contact Email:		THEGENNIA@GMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		1545 PEGFAIR ESTATES DRIVE
Mailing City,State,Zip:		PASADENA, CA 91103
Owner Name:	JIN YAN CUI	
Owner Type:		Other
Operator Name:	JIN YAN CUI	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

JIN YAN CUI (Continued) **1026818378**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210729
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: JIN YAN CUI	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5050 HOOK TREE RD
Owner/Operator City,State,Zip:	LA CANADA FLINTRIDGE, CA 91011
Owner/Operator Telephone:	626-840-9011
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: JIN YAN CUI	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1545 PEGFAIR ESTATES DRIVE
Owner/Operator City,State,Zip:	PASADENA, CA 91103
Owner/Operator Telephone:	626-840-9011
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

JIN YAN CUI (Continued) **1026818378**

Historic Generators:
Receive Date: 20210726
Handler Name: JIN YAN CUI
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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23 **ZHIQIU SUN** **RCRA NonGen / NLR** **1024747997**
SSE **4943 DEL MONTE ROAD** **CAC002967775**
1/8-1/4 **LA CANADA FLINTRIDGE, CA 91011**
0.220 mi.
1163 ft.

Relative:
Lower

Actual:
1250 ft.

RCRA Listings:
Date Form Received by Agency: 20180622
Handler Name: ZHIQIU SUN
Handler Address: 4943 DEL MONTE ROAD
Handler City,State,Zip: LA CANADA FLINTRIDGE, CA 91011
EPA ID: CAC002967775
Contact Name: ZHIQIU SUN
Contact Address: 4818 LA CANADA BLVD.
Contact City,State,Zip: LA CANADA FLINTRIDGE, CA 91011
Contact Telephone: 818-404-2168
Contact Fax: Not reported
Contact Email: LUPE@FRESHAIRENVIRONMENTAL.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: 4818 LA CANADA BLVD.
Mailing City,State,Zip: LA CANADA FLINTRIDGE, CA 91011
Owner Name: ZHIQIU SUN

ZHIQIU SUN (Continued) **1024747997**

Owner Type:		Other
Operator Name:	ZHIQIU SUN	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported
Permit Workload Universe:		Not reported
Permit Progress Universe:		Not reported
Post-Closure Workload Universe:		Not reported
Closure Workload Universe:		Not reported
202 GPRA Corrective Action Baseline:		No
Corrective Action Workload Universe:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:		No
TSDFs Only Subject to CA under Discretionary Auth Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Operating TSDF Universe:		Not reported
Full Enforcement Universe:		Not reported
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:		Not reported
Handler Date of Last Change:		20180831
Recognized Trader-Importer:		No
Recognized Trader-Exporter:		No
Importer of Spent Lead Acid Batteries:		No
Exporter of Spent Lead Acid Batteries:		No
Recycler Activity Without Storage:		No
Manifest Broker:		No

ZHIQIU SUN (Continued) **1024747997**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: ZHIQIU SUN
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4818 LA CANADA BLVD.
Owner/Operator City,State,Zip: LA CANADA FLINTRIDGE, CA 91011
Owner/Operator Telephone: 818-404-2168
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: ZHIQIU SUN
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4818 LA CANADA BLVD.
Owner/Operator City,State,Zip: LA CANADA FLINTRIDGE, CA 91011
Owner/Operator Telephone: 818-404-2168
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20180622
Handler Name: ZHIQIU SUN
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

24
SSW
1/8-1/4
0.221 mi.
1165 ft.

ELIZABETH BACHMAYER
4815 GOULD AVE
LA CANADA, CA 91011

RCRA NonGen / NLR

1026043302
CAC003049503

Relative:
Lower

Actual:
1277 ft.

RCRA Listings:

Date Form Received by Agency:		20200103
Handler Name:	ELIZABETH BACHMAYER	
Handler Address:		4815 GOULD AVE
Handler City,State,Zip:		LA CANADA, CA 91011
EPA ID:		CAC003049503
Contact Name:		ELIZABETH BACHMAYER
Contact Address:		4815 GOULD AVE
Contact City,State,Zip:		LA CANADA, CA 91011
Contact Telephone:		323-401-4645
Contact Fax:		Not reported
Contact Email:		JANICE@ABSOLUTEABATEMENTINC.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		4815 GOULD AVE
Mailing City,State,Zip:		LA CANADA, CA 91011
Owner Name:	ELIZABETH BACHMAYER	
Owner Type:		Other
Operator Name:	ELIZABETH BACHMAYER	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

ELIZABETH BACHMAYER (Continued) **1026043302**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200210
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: ELIZABETH BACHMAYER	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4815 GOULD AVE
Owner/Operator City,State,Zip:	LA CANADA, CA 91011
Owner/Operator Telephone:	323-401-4645
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: ELIZABETH BACHMAYER	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4815 GOULD AVE
Owner/Operator City,State,Zip:	LA CANADA, CA 91011
Owner/Operator Telephone:	323-401-4645
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

ELIZABETH BACHMAYER (Continued) **1026043302**

Historic Generators:
- Receive Date: 20200103
- Handler Name: ELIZABETH BACHMAYER
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: Not reported
- Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
- NAICS Code: 56299
- NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

---

25 South 1/8-1/4 0.232 mi. 1226 ft.

HOMEWOOD REAL ESTATE INVESTMENTS, LLC. **RCRA NonGen / NLR** **1027084457**
4905 HAMPTON ROAD **CAC003156681**
LA CANADA FLINTRIDGE, CA 91011

Relative: Lower

Actual: 1255 ft.

RCRA Listings:
- Date Form Received by Agency: 20220112
- Handler Name: HOMEWOOD REAL ESTATE INVESTMENTS, LLC.
- Handler Address: 4905 HAMPTON ROAD
- Handler City,State,Zip: LA CANADA FLINTRIDGE, CA 91011
- EPA ID: CAC003156681
- Contact Name: HOMEWOOD REAL ESTATE INVESTMENTS, L
- Contact Address: 4905 HAMPTON ROAD
- Contact City,State,Zip: LA CANADA FLINTRIDGE, CA 91011
- Contact Telephone: 818-919-0282
- Contact Fax: Not reported
- Contact Email: WANG@FRESHAIRENVIRONMENTAL.COM
- Contact Title: Not reported
- EPA Region: 09
- Land Type: Not reported
- Federal Waste Generator Description: Not a generator, verified
- Non-Notifier: Not reported
- Biennial Report Cycle: Not reported
- Accessibility: Not reported
- Active Site Indicator: Not reported
- State District Owner: Not reported
- State District: Not reported
- Mailing Address: 4905 HAMPTON ROAD
- Mailing City,State,Zip: LA CANADA FLINTRIDGE, CA 91011
- Owner Name: HOMEWOOD REAL ESTATE INVESTMENTS, L

HOMEWOOD REAL ESTATE INVESTMENTS, LLC. (Continued) **1027084457**

Owner Type:	Other
Operator Name:	HOMEWOOD REAL ESTATE INVESTMENTS, L
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20220118
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

HOMEWOOD REAL ESTATE INVESTMENTS, LLC. (Continued) **1027084457**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: HOMEWOOD REAL ESTATE INVESTMENTS, L
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4905 HAMPTON ROAD
Owner/Operator City,State,Zip: LA CANADA FLINTRIDGE, CA 91011
Owner/Operator Telephone: 818-919-0282
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: HOMEWOOD REAL ESTATE INVESTMENTS, L
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4905 HAMPTON ROAD
Owner/Operator City,State,Zip: LA CANADA FLINTRIDGE, CA 91011
Owner/Operator Telephone: 818-919-0282
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20220112
Handler Name: HOMEWOOD REAL ESTATE INVESTMENTS, LLC.
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

26
East
1/8-1/4
0.233 mi.
1229 ft.

LYNNE GRAVES
5212 REDWILLOW LN
LA CANADA FLINTRIDGE, CA 91011

RCRA NonGen / NLR

1026720104
CAC003108788

Relative:
Higher

Actual:
1453 ft.

RCRA Listings:

Date Form Received by Agency:		20210305
Handler Name:	LYNNE GRAVES	
Handler Address:		5212 REDWILLOW LN
Handler City,State,Zip:		LA CANADA FLINTRIDGE, CA 91011
EPA ID:		CAC003108788
Contact Name:		LYNNE GRAVES
Contact Address:		5212 REDWILLOW LN
Contact City,State,Zip:		LA CANADA FLINTRIDGE, CA 91011
Contact Telephone:		818-371-8842
Contact Fax:		Not reported
Contact Email:		LYNNE.GRAVES13@GMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		5212 REDWILLOW LN
Mailing City,State,Zip:		LA CANADA FLINTRIDGE, CA 91011
Owner Name:	LYNNE GRAVES	
Owner Type:		Other
Operator Name:	LYNNE GRAVES	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

LYNNE GRAVES (Continued) **1026720104**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20210312
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name: LYNNE GRAVES	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5212 REDWILLOW LN
Owner/Operator City,State,Zip:	LA CANADA FLINTRIDGE, CA 91011
Owner/Operator Telephone:	818-371-8842
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: LYNNE GRAVES	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	5212 REDWILLOW LN
Owner/Operator City,State,Zip:	LA CANADA FLINTRIDGE, CA 91011
Owner/Operator Telephone:	818-371-8842
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

LYNNE GRAVES (Continued) **1026720104**

Historic Generators:
- Receive Date: 20210305
- Handler Name: LYNNE GRAVES
- Federal Waste Generator Description: Not a generator, verified
- State District Owner: Not reported
- Large Quantity Handler of Universal Waste: No
- Recognized Trader Importer: No
- Recognized Trader Exporter: No
- Spent Lead Acid Battery Importer: No
- Spent Lead Acid Battery Exporter: No
- Current Record: Yes
- Non Storage Recycler Activity: No
- Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
- NAICS Code: 56299
- NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
- Violations: No Violations Found

Evaluation Action Summary:
- Evaluations: No Evaluations Found

27
SSW
1/4-1/2
0.496 mi.
2619 ft.

CALIFORNIA TARGET #046/NATHAN
635 FOOTHILL BLVD E
AZUSA, CA 91702

CA LUST **S101704335**
CA Cortese **N/A**
CA HIST CORTESE
CA CERS

Relative:
Lower

Actual:
1238 ft.

LUST:
- Name: CALIFORNIA TARGET #046/NATHAN
- Address: 635 FOOTHILL BLVD E
- City,State,Zip: AZUSA, CA 91702
- Lead Agency: LOS ANGELES RWQCB (REGION 4)
- Case Type: LUST Cleanup Site
- Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603704457
- Global Id: T0603704457
- Latitude: 34.134457
- Longitude: -117.899654
- Status: Completed - Case Closed
- Status Date: 05/01/1997
- Case Worker: YR
- RB Case Number: I-20762
- Local Agency: LOS ANGELES COUNTY
- File Location: Not reported
- Local Case Number: Not reported
- Potential Media Affect: Aquifer used for drinking water supply
- Potential Contaminants of Concern: Gasoline
- Site History: Not reported

LUST:
- Global Id: T0603704457
- Contact Type: Local Agency Caseworker
- Contact Name: JOHN AWUJO

CALIFORNIA TARGET #046/NATHAN (Continued) **S101704335**

Organization Name: LOS ANGELES COUNTY
Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603704457
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603704457
Action Type: Other
Date: 02/07/1995
Action: Leak Discovery

Global Id: T0603704457
Action Type: Other
Date: 02/07/1995
Action: Leak Reported

Global Id: T0603704457
Action Type: Other
Date: 02/07/1995
Action: Leak Stopped

LUST:
Global Id: T0603704457
Status: Open - Case Begin Date
Status Date: 02/07/1995

Global Id: T0603704457
Status: Open - Site Assessment
Status Date: 04/06/1995

Global Id: T0603704457
Status: Open - Remediation
Status Date: 04/01/1996

Global Id: T0603704457
Status: Completed - Case Closed
Status Date: 05/01/1997

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: I-20762
Status: Case Closed
Substance: Gasoline

CALIFORNIA TARGET #046/NATHAN (Continued) **S101704335**

Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603704457	
W Global ID:	W0603700015	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	PASADENA AVE	
Enforcement Type:	Not reported	
Date Leak Discovered:	2/7/1995	
Date Leak First Reported:		2/7/1995
Date Leak Record Entered:	4/6/1995	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	2/7/1995	
Date Case Last Changed on Database:		7/11/1997
Date the Case was Closed:		5/1/1997
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	KREMS PROPERTY	
Water System:	HELLER FORD MITSUBISHI SUZUKI	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		3478.01775963239048224950394
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		4/6/1995
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		4/1/1996
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Yes
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	NATHAN KREMS	
RP Address:	4267 MARINA CITY DR, PH4, MARINA DEL RAY, CA 90292	
Program:	LUST	
Lat/Long:	34.1333676 / -1	
Local Agency Staff:	Not reported	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	1900015-001GEN	
Summary:	WE HAVE RECIEVED A LETTER DATED AUGUST 19, 1997, INDICATING THAT THE CITY OF AZUSA (NEW OWNERS OF THE PROPERTY) WISH TO RETAIN FOUR GROUNDWATER MONITORING WELLS ON-SITE. THE CITY WILL BE RESPONSIBLE FOR THEIR ABANDONMENT.	

CALIFORNIA TARGET #046/NATHAN (Continued) **S101704335**

CORTESE:

Name:	CALIFORNIA TARGET #046/NATHAN
Address:	635 FOOTHILL BLVD E
City,State,Zip:	AZUSA, CA 91702
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0603704457
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	CALIFORNIA TARGET #046/NA
edr_fadd1:	635 FOOTHILL
City,State,Zip:	CA 91011
Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-20762

CERS:

Name:	CALIFORNIA TARGET #046/NATHAN
Address:	635 FOOTHILL BLVD E
City,State,Zip:	AZUSA, CA 91702
Site ID:	216557
CERS ID:	T0603704457
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	JOHN AWUJO - LOS ANGELES COUNTY
Entity Title:	Not reported
Affiliation Address:	900 S FREMONT AVE
Affiliation City:	ALHAMBRA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	6264583507,
Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	YUE RONG - LOS ANGELES RWQCB (REGION 4)

CALIFORNIA TARGET #046/NATHAN (Continued) **S101704335**

Entity Title:	Not reported
Affiliation Address:	320 W. 4TH ST., SUITE 200
Affiliation City:	Los Angeles
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

D28 **NU WAY CLEANERS** **CA ENVIROSTOR** **S112057182**
SSW **525 FOOTHILL BLVD.** **N/A**
1/2-1 **LA CANADA, CA 91011**
0.574 mi.
3029 ft. **Site 1 of 2 in cluster D**

Relative:
Lower

Actual:
1203 ft.

ENVIROSTOR:

Name:	NU WAY CLEANERS
Address:	525 FOOTHILL BLVD.
City,State,Zip:	LA CANADA, CA 91011
Facility ID:	60001695
Status:	No Further Action
Status Date:	03/06/2000
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0
NPL:	NO
Regulatory Agencies:	LOS ANGELES COUNTY
Lead Agency:	LOS ANGELES COUNTY
Program Manager:	Not reported
Supervisor:	Douglas Bautista
Division Branch:	Cleanup Cypress
Assembly:	44
Senate:	25
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	34.20023
Longitude:	-118.1903
APN:	NONE SPECIFIED
Past Use:	NONE, DRY CLEANING
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	No Contaminants found
Potential Description:	NMA
Alias Name:	60001695
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	03/06/2000
Comments:	No Further Action
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported

NU WAY CLEANERS (Continued) **S112057182**

Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

D29
South
1/2-1
0.602 mi.
3178 ft.

PALACE CLEANERS **CA ENVIROSTOR** **S111842237**
510 FOOTHILL BLVD **CA LOS ANGELES CO. HMS** **N/A**
LA CANADA, CA 91011

Site 2 of 2 in cluster D

Relative:
Lower

Actual:
1199 ft.

ENVIROSTOR:
Name: PALACE CLEANERS
Address: 510 FOOTHILL BLVD
City,State,Zip: LA CANADA, CA 91011
Facility ID: 60001684
Status: Refer: EPA
Status Date: 03/13/2000
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0
NPL: NO
Regulatory Agencies: US EPA
Lead Agency: US EPA
Program Manager: Not reported
Supervisor: Douglas Bautista
Division Branch: Cleanup Cypress
Assembly: 59
Senate: 25
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: EPA Grant
Latitude: 34.19955
Longitude: -118.1896
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC: Tetrachloroethylene (PCE Trichloroethylene (TCE
Potential Description: NONE SPECIFIED
Alias Name: 60001684
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 03/13/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported

PALACE CLEANERS (Continued) **S111842237**

Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

LOS ANGELES CO. HMS:
Name: PALACE CLEANERS & LAUNDRY
Address: 510 1/2 FOOTHILL BLVD
City,State,Zip: LA CANADA FLINTRIDGE, CA 910113506
Region: LA
Permit Category: I
Facility Id: 018269-063964
Facility Type: 01
Facility Status: Permit
Area: 3Z
Permit Number: 000878721
Permit Status: Permit

30
SW
1/2-1
0.609 mi.
3213 ft.

FASHION CLEANERS **CA ENVIROSTOR** **S103964127**
834 FOOTHILL BLVD. **CA DRYCLEANERS** **N/A**
LA CANADA, CA 91011 **CA EMI**

Relative:
Lower

Actual:
1267 ft.

ENVIROSTOR:
Name: FASHION CLEANERS
Address: 834 FOOTHILL BLVD.
City,State,Zip: LA CANADA, CA 91011
Facility ID: 60002259
Status: Refer: Local Agency
Status Date: 12/14/2015
Site Code: Not reported
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Sayareh Amirebrahimi
Division Branch: Cleanup Chatsworth
Assembly: 43
Senate: 25
Special Program: EPA - PASI
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not Applicable
Latitude: 34.20274
Longitude: -118.1971
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CAD981994858
Alias Type: EPA Identification Number
Alias Name: 60002259

FASHION CLEANERS (Continued) **S103964127**

Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: PA/SI Site Screening
Completed Date: 11/22/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

DRYCLEANERS:
Name: FASHION CLEANERS #2
Address: 834 FOOTHILL BLVD
City,State,Zip: LA CANADA, CA 910010000
EPA Id: CAD981994858
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 07/03/1987
Facility Active: No
Inactive Date: 06/30/2006
Facility Addr2: Not reported
Owner Name: JOHN M SON
Owner Address: 14915 HIAWATHA ST
Owner Address 2: Not reported
Owner Telephone: 8188380949
Contact Name: JOHN M SON
Contact Address: 834 FOOTHILL BLVD
Contact Address 2: Not reported
Contact Telephone: 8188090949
Contact Fax: Not reported
Mailing Name: Not reported
Mailing Address 1: 834 FOOTHILL BLVD
Mailing Address 2: Not reported
Mailing City: LA CANADA FLINTRIDGE
Mailing State: CA
Mailing Zip: 910113336
Owner Fax: Not reported
Region Code: 3
Latitude: 34.202726
Longitude: -118.196569

EMI:
Name: FASHION CLEANERS # 2, WILLIAM
Address: 834 FOOTHILL BLVD
City,State,Zip: LA CANADA FLINTRIDGE, CA 910010000
Year: 1990

FASHION CLEANERS (Continued) **S103964127**

County Code:	19
Air Basin:	SC
Facility ID:	79810
Air District Name:	SC
SIC Code:	7216
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:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

31
South
1/2-1
0.659 mi.
3478 ft.

CRYSTAL CLEANERS **CA ENVIROSTOR** **S105954464**
444 FOOTHILL BLVD. **N/A**
LA CANADA, CA 91011

Relative:
Lower

Actual:
1182 ft.

ENVIROSTOR:

Name:	CRYSTAL CLEANERS
Address:	444 FOOTHILL BLVD.
City,State,Zip:	LA CANADA, CA 91011
Facility ID:	19530004
Status:	Inactive - Action Required
Status Date:	06/26/2003
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0.5
NPL:	NO
Regulatory Agencies:	US EPA
Lead Agency:	US EPA
Program Manager:	Not reported
Supervisor:	Juli Propes
Division Branch:	Cleanup Chatsworth
Assembly:	43
Senate:	25
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	EPA Grant
Latitude:	34.19881
Longitude:	-118.1880
APN:	NONE SPECIFIED
Past Use:	DRY CLEANING
Potential COC:	* HALOGENATED ORGANIC COMPOUNDS
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL, SV, IA
Alias Name:	CRYSTAL CLEANERS
Alias Type:	Alternate Name
Alias Name:	CAN000905745
Alias Type:	CERCLIS ID
Alias Name:	19530004
Alias Type:	Envirostor ID Number

CRYSTAL CLEANERS (Continued) **S105954464**

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Assessment Report
Completed Date:	06/26/2003
Comments:	A Preliminary Assessment was conducted for this site located in La Canada. Potential contaminants of concern include PCE.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Screening
Completed Date:	11/22/2000
Comments:	Site Screening Completed
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

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32 **JET PROPULSION LAB** **FUDS** **1024903550**
ESE **N/A**
1/2-1 **LA CANADA/FLINTRIDGE, CA**
0.738 mi.
3895 ft.

Relative: **Higher**

Actual: **1368 ft.**

FUDS:

EPA Region:	09
Installation ID:	CA99799F546700
Congressional District Number:	28
Name:	JET PROPULSION LAB
FUDS Number:	J09CA0402
City:	LA CANADA/FLINTRIDGE
State:	CA
County:	LOS ANGELES
Object ID:	1008
USACE Division:	spd
USACE District:	spl
Status:	Properties with all projects at site closeout
Current Owner:	STATE: STATE CALTECH JPL
EMS Map Link:	https://fudsportal.usace.army.mil/ems/inventory/map?id=61089
Eligibility:	Eligible
Has Projects:	Yes
NPL Status:	On the NPL
Property History:	The facility was built for the Army Air Corps between 1945 and 1958 as a research facility for rocketry and jet propulsion. In 1958, custody and jurisdiction over the laboratory was transferred.
Project Required:	Yes
Feature Description:	Not reported
Latitude:	34.20277778
Longitude:	-118.175

JET PROPULSION LAB (Continued) **1024903550**

FUDS Detail as of Jan 2015:

Fiscal Year:	2013
Federal Facility ID:	CA9799F5467
RAB:	Not reported
NPL Status:	Listed
Description:	This site consists of 150 acres in the San Gabriel Mountain foothills approximately 4 miles northwest of Pasadena. The property immediately west of the site is residential. NASA still has custody of the facility. CALTECH continues to operate the facility for research and testing under NASA.
History:	The facility was built for the Army Air Corps between 1945 and 1958 as a research facility for rocketry and jet propulsion. In 1958, custody and jurisdiction over the laboratory was transferred.
CTC:	1303.7
Current Program:	Not reported
Future Program:	Not reported
Institutional ID:	61089

33
WSW
1/2-1
0.822 mi.
4341 ft.

Relative:
Higher

Actual:
1351 ft.

FLINTRIDGE CLEANERS
1121 FOOTHILL BLVD
LA CANADA, CA 91011

RCRA-LQG **1000322754**
CA ENVIROSTOR **CAD981978265**
CA CERS HAZ WASTE
FINDS
ECHO
CA DRYCLEANERS
CA EMI
CA HAZNET
CA LOS ANGELES CO. HMS
CA CERS
CA HWTS

RCRA Listings:

Date Form Received by Agency:		19870415
Handler Name:	FLINTRIDGE CLEANERS	
Handler Address:		1121 FOOTHILL BLVD
Handler City,State,Zip:		LA CANADA, CA 91011
EPA ID:		CAD981978265
Contact Name:		ENVIRONMENTAL MANAGER
Contact Address:		1121 FOOTHILL BLVD
Contact City,State,Zip:		LA CANADA, CA 91011
Contact Telephone:		818-952-1777
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Other
Federal Waste Generator Description:		Large Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		CA
State District:		3
Mailing Address:		1121 FOOTHILL BLVD
Mailing City,State,Zip:		LA CANADA, CA 91011
Owner Name:	JOSEPH MOURADIAN	
Owner Type:		Private

FLINTRIDGE CLEANERS (Continued) **1000322754**

Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20020627
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

FLINTRIDGE CLEANERS (Continued) **1000322754**

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: JOSEPH MOURADIAN
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: NOT REQUIRED
Owner/Operator City,State,Zip: NOT REQUIRED, ME 99999
Owner/Operator Telephone: 415-555-1212
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19870415
Handler Name: FLINTRIDGE CLEANERS
Federal Waste Generator Description: Large Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violation:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported

FLINTRIDGE CLEANERS (Continued) **1000322754**

Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19930713
Evaluation Responsible Agency: State Contractor/Grantee
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R9
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

ENVIROSTOR:
Name: FLINTRIDGE CLEANERS
Address: 1121 FOOTHILL BLVD.
City,State,Zip: LA CANADA, CA 91011
Facility ID: 19170003
Status: Inactive - Action Required
Status Date: 04/22/2004
Site Code: 301212
Site Type: Evaluation
Site Type Detailed: Evaluation
Acres: 0.1
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Juli Propes
Division Branch: Cleanup Chatsworth
Assembly: 43
Senate: 25
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: EPA Grant
Latitude: 34.20602
Longitude: -118.2031
APN: 5812022012
Past Use: DRY CLEANING

FLINTRIDGE CLEANERS (Continued) **1000322754**

Potential COC: Tetrachloroethylene (PCE
Confirmed COC: Tetrachloroethylene (PCE
Potential Description: SOIL, SV
Alias Name: 5812022012
Alias Type: APN
Alias Name: CAN000905743
Alias Type: CERCLIS ID
Alias Name: 301212
Alias Type: Project Code (Site Code)
Alias Name: 19170003
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Screening
Completed Date: 11/22/2000
Comments: Site Screening Completed

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

CERS HAZ WASTE:
Name: FLINTRIDGE CLEANERS
Address: 1121 FOOTHILL BLVD
City,State,Zip: LA CANADA FLINTRIDGE, CA 91011
Site ID: 30635
CERS ID: 10292017
CERS Description: Hazardous Waste Generator

FINDS:
Registry ID: 110002762564

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

FLINTRIDGE CLEANERS (Continued) **1000322754**

ECHO:

Envid:	1000322754
Registry ID:	110002762564
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002762564
Name:	FLINTRIDGE CLEANERS
Address:	1121 FOOTHILL BLVD
City,State,Zip:	LA CANADA, CA 91011

DRYCLEANERS:

Name:	FLINTRIDGE CLEANERS
Address:	1121 FOOTHILL BLVD
City,State,Zip:	LA CANADA, CA 910110000
EPA Id:	CAD981978265
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
SIC Code:	7211
SIC Description:	Power Laundries, Family and Commercial
Create Date:	07/03/1987
Facility Active:	Yes
Inactive Date:	Not reported
Facility Addr2:	Not reported
Owner Name:	EMIN BALTAZAR
Owner Address:	1121 FOOTHILL BLVD
Owner Address 2:	Not reported
Owner Telephone:	8189521777
Contact Name:	EMIL BALTAZAR MANAGER
Contact Address:	1121 FOOTHILL BLVD
Contact Address 2:	Not reported
Contact Telephone:	8189521777
Contact Fax:	0
Mailing Name:	Not reported
Mailing Address 1:	1121 FOOTHILL BLVARD
Mailing Address 2:	Not reported
Mailing City:	LA CANADA
Mailing State:	CA
Mailing Zip:	910110000
Owner Fax:	0
Region Code:	3
Latitude:	34.205839
Longitude:	-118.203249

DRYCLEAN SOUTH COAST:

Name:	FLINTRIDGE CLEANERS
Address:	1121 FOOTHILL BLVD
City,State,Zip:	LA CANADA FLINTRIDGE, CA 91011
Facility ID:	52120
Application Number:	142029
Permit Number:	M50903
Status:	S
Representative Name:	JOSEPH MOUSADIAN
Representative Telephone:	818 9521777
Permit Status:	INACTIVE
BCAT Number:	000234
BCAT Description:	DRY CLEANING EQUIP PERCHLOROETHYLENE
CCAT Number:	04
CCAT Description:	VAPOR RECOVERY UNIT COMPRESS & CONDENSE

FLINTRIDGE CLEANERS (Continued) **1000322754**

UTM East:	389.42001343
UTM North:	3784.7800293
Application Date:	03/10/1986
PO Issue Date:	06/30/1986
NAICS Code:	Not reported
SIC Code:	7216

EMI:

Name:	FLINTRIDGE CLEANERS, J. MOUSAD
Address:	1121 FOOTHILL BL
City,State,Zip:	LA CANADA, CA 910110000
Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	52120
Air District Name:	SC
SIC Code:	7216
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:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Name:	FLINTRIDGE CLEANERS, J. MOURAD
Address:	1121 FOOTHILL BL
City,State,Zip:	LA CANADA FLINTRIDGE, CA 910110000
Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	52120
Air District Name:	SC
SIC Code:	7216
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:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HAZNET:

Name:	FLINTRIDGE CLEANERS
Address:	1121 FOOTHILL BLVD
Address 2:	Not reported
City,State,Zip:	LA CANADA, CA 910110000
Contact:	EMIL BALTAZAR MANAGER
Telephone:	8189521777
Mailing Name:	Not reported

FLINTRIDGE CLEANERS (Continued) **1000322754**

Mailing Address: 1121 FOOTHILL BLVARD

Year: 2020
Gepaid: CAD981978265
TSD EPA ID: NED981723513
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.05

Year: 2019
Gepaid: CAD981978265
TSD EPA ID: NED981723513
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.10000

Year: 2018
Gepaid: CAD981978265
TSD EPA ID: NED981723513
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.10000

Year: 2017
Gepaid: CAD981978265
TSD EPA ID: NED981723513
CA Waste Code: -
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: Not reported

Year: 2015
Gepaid: CAD981978265
TSD EPA ID: NED981723513
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Tons: 0.06

Year: 2014
Gepaid: CAD981978265
TSD EPA ID: NED981723513
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.06

Year: 2014
Gepaid: CAD981978265
TSD EPA ID: CAD044429835
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.075

Year: 2013

FLINTRIDGE CLEANERS (Continued) **1000322754**

Gepaid: CAD981978265
TSD EPA ID: CAT000613893
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.175

Year: 2012
Gepaid: CAD981978265
TSD EPA ID: CAT000613893
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.2225

Year: 2011
Gepaid: CAD981978265
TSD EPA ID: CAT000613893
CA Waste Code: 741 - Liquids with halogenated organic compounds >= 1,000 Mg./L
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.3445

Click this hyperlink while viewing on your computer to access
29 additional CA HAZNET: record(s) in the EDR Site Report.

Detail Two:
Year: 2020
EM Manifest ID: 68c218fa-a0a3-46c2-9095-03c0c0e55e2a
Shipment Date: 8/19/2020
Receipt Date: 9/4/2020
Manifest Number: 007561698SKS
Generator EPA ID: CAD981978265
Name: FLINTRIDGE CLEANERS
Address: 1121 FOOTHILL BLVD
Address 2: Not reported
City: LA CANADA FLINTRIDGE
Zip: 91011
Telephone: 800-483-3718
Contact: Main Contact
Contact Telephone: 818-952-1777
Transporter 1 EPA ID: TXR000081205
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: MAD039322250
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: NED981723513
TSDF Name: Clean Harbors Environmental Services, Inc.
TSDF Address 1: 2247 South Highway 71
TSDF Address 2: Not reported
TSDF City: Kimball
TSDF Zip: 69145
TSDF Telephone: 800-483-3718

Federal:
Year: 2020
EM Manifest ID: 68c218fa-a0a3-46c2-9095-03c0c0e55e2a

FLINTRIDGE CLEANERS (Continued) **1000322754**

Generator EPA ID:	CAD981978265
Shipment Date:	2020-08-19
Manifest Number:	007561698SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D007

Year:	2020
EM Manifest ID:	68c218fa-a0a3-46c2-9095-03c0c0e55e2a
Generator EPA ID:	CAD981978265
Shipment Date:	2020-08-19
Manifest Number:	007561698SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D039

Year:	2020
EM Manifest ID:	68c218fa-a0a3-46c2-9095-03c0c0e55e2a
Generator EPA ID:	CAD981978265
Shipment Date:	2020-08-19
Manifest Number:	007561698SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D040

Year:	2020
EM Manifest ID:	68c218fa-a0a3-46c2-9095-03c0c0e55e2a
Generator EPA ID:	CAD981978265
Shipment Date:	2020-08-19
Manifest Number:	007561698SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	F002

FLINTRIDGE CLEANERS (Continued) **1000322754**

State:

Year:	2020
EM Manifest ID:	68c218fa-a0a3-46c2-9095-03c0c0e55e2a
Generator EPA ID:	CAD981978265
Shipment Date:	2020-08-19
Manifest Number:	007561698SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.05000
Quantity Waste:	100.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
State Code:	741

Detail Two:

Year:	2019
EM Manifest ID:	624508
Shipment Date:	8/16/2019
Receipt Date:	9/5/2019
Manifest Number:	006748998SKS
Generator EPA ID:	CAD981978265
Name:	FLINTRIDGE CLEANERS
Address:	1121 FOOTHILL BLVD
Address 2:	Not reported
City:	LA CANADA FLINTRIDGE
Zip:	91011
Telephone:	800-483-3718
Contact:	Main Contact
Contact Telephone:	818-952-1777
Transporter 1 EPA ID:	TXR000081205
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	NED981723513
TSDF Name:	Clean Harbors Environmental Services, Inc.
TSDF Address 1:	2247 South Highway 71
TSDF Address 2:	Not reported
TSDF City:	Kimball
TSDF Zip:	69145
TSDF Telephone:	800-483-3718

Federal:

Year:	2019
EM Manifest ID:	624508
Generator EPA ID:	CAD981978265
Shipment Date:	2019-08-16
Manifest Number:	006748998SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.10000
Quantity Waste:	200.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs

FLINTRIDGE CLEANERS (Continued) **1000322754**

Quantity Type:	Pounds
Federal Code:	D007
Year:	2019
EM Manifest ID:	624508
Generator EPA ID:	CAD981978265
Shipment Date:	2019-08-16
Manifest Number:	006748998SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.10000
Quantity Waste:	200.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D039
Year:	2019
EM Manifest ID:	624508
Generator EPA ID:	CAD981978265
Shipment Date:	2019-08-16
Manifest Number:	006748998SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.10000
Quantity Waste:	200.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	D040
Year:	2019
EM Manifest ID:	624508
Generator EPA ID:	CAD981978265
Shipment Date:	2019-08-16
Manifest Number:	006748998SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.10000
Quantity Waste:	200.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
Federal Code:	F002

State:

Year:	2019
EM Manifest ID:	624508
Generator EPA ID:	CAD981978265
Shipment Date:	2019-08-16
Manifest Number:	006748998SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.10000

FLINTRIDGE CLEANERS (Continued) **1000322754**

Quantity Waste: 200.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
State Code: 741

Detail Two:
Year: 2018
EM Manifest ID: 152716
Shipment Date: 9/14/2018
Receipt Date: 10/1/2018
Manifest Number: 006782238SKS
Generator EPA ID: CAD981978265
Name: FLINTRIDGE CLEANERS
Address: 1121 FOOTHILL BLVD
Address 2: Not reported
City: LA CANADA FLINTRIDGE
Zip: 91011
Telephone: 800-483-3718
Contact: Main Contact
Contact Telephone: 818-952-1777
Transporter 1 EPA ID: TXR000081205
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: MAD039322250
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: NED981723513
TSDF Name: Clean Harbors Environmental Services, Inc.
TSDF Address 1: 2247 South Highway 71
TSDF Address 2: Not reported
TSDF City: Kimball
TSDF Zip: 69145
TSDF Telephone: 800-483-3718

Federal:
Year: 2018
EM Manifest ID: 152716
Generator EPA ID: CAD981978265
Shipment Date: 2018-09-14
Manifest Number: 006782238SKS
Line Number: 1
Method Code: H141
Quantity Tons: 0.10000
Quantity Waste: 200.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
Federal Code: D007

Year: 2018
EM Manifest ID: 152716
Generator EPA ID: CAD981978265
Shipment Date: 2018-09-14
Manifest Number: 006782238SKS
Line Number: 1

FLINTRIDGE CLEANERS (Continued) **1000322754**

Method Code: H141
Quantity Tons: 0.10000
Quantity Waste: 200.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
Federal Code: D039

Year: 2018
EM Manifest ID: 152716
Generator EPA ID: CAD981978265
Shipment Date: 2018-09-14
Manifest Number: 006782238SKS
Line Number: 1
Method Code: H141
Quantity Tons: 0.10000
Quantity Waste: 200.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
Federal Code: D040

Year: 2018
EM Manifest ID: 152716
Generator EPA ID: CAD981978265
Shipment Date: 2018-09-14
Manifest Number: 006782238SKS
Line Number: 1
Method Code: H141
Quantity Tons: 0.10000
Quantity Waste: 200.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
Federal Code: F002

State:
Year: 2018
EM Manifest ID: 152716
Generator EPA ID: CAD981978265
Shipment Date: 2018-09-14
Manifest Number: 006782238SKS
Line Number: 1
Method Code: H141
Quantity Tons: 0.10000
Quantity Waste: 200.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: Metal drums, barrels, kegs
Quantity Type: Pounds
State Code: 741

Year: 2018

FLINTRIDGE CLEANERS (Continued) **1000322754**

EM Manifest ID:	005841240SKS20170822_D_1
Shipment Date:	8/22/2017
Receipt Date:	8/31/2017
Manifest Number:	005841240SKS
Generator EPA ID:	CAD981978265
Name:	FLINTRIDGE CLEANERS
Address:	Not reported
Address 2:	Not reported
City:	Not reported
Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Transporter 1 EPA ID:	TXR000081205
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	NED981723513
TSDF Name:	CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City:	Not reported
TSDF Zip:	Not reported
TSDF Telephone:	Not reported

Federal:

Year:	2018
EM Manifest ID:	005841240SKS20170822_D_1
Generator EPA ID:	CAD981978265
Shipment Date:	2017-08-22
Manifest Number:	005841240SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.06250
Quantity Waste:	125.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D007

Year:	2018
EM Manifest ID:	005841240SKS20170822_D_1
Generator EPA ID:	CAD981978265
Shipment Date:	2017-08-22
Manifest Number:	005841240SKS
Line Number:	1
Method Code:	H040
Quantity Tons:	0.06250
Quantity Waste:	125.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D039

Year:	2018
EM Manifest ID:	005841240SKS20170822_D_1

FLINTRIDGE CLEANERS (Continued) **1000322754**

Generator EPA ID: CAD981978265
Shipment Date: 2017-08-22
Manifest Number: 005841240SKS
Line Number: 1
Method Code: H040
Quantity Tons: 0.06250
Quantity Waste: 125.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D040

Year: 2018
EM Manifest ID: 005841240SKS20170822_D_1
Generator EPA ID: CAD981978265
Shipment Date: 2017-08-22
Manifest Number: 005841240SKS
Line Number: 1
Method Code: H040
Quantity Tons: 0.06250
Quantity Waste: 125.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: F002

State:
Year: 2018
EM Manifest ID: 005841240SKS20170822_D_1
Generator EPA ID: CAD981978265
Shipment Date: 2017-08-22
Manifest Number: 005841240SKS
Line Number: 1
Method Code: H040
Quantity Tons: 0.06250
Quantity Waste: 125.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 741

Year: 2018
EM Manifest ID: 005895667SKS20170413_D_1
Shipment Date: 4/13/2017
Receipt Date: 5/1/2017
Manifest Number: 005895667SKS
Generator EPA ID: CAD981978265
Name: FLINTRIDGE CLEANERS
Address: Not reported
Address 2: Not reported
City: Not reported
Zip: Not reported
Telephone: Not reported

FLINTRIDGE CLEANERS (Continued) **1000322754**

Contact: Not reported
Contact Telephone: Not reported
Transporter 1 EPA ID: TXR000081205
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: MAD039322250
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: NED981723513
TSDF Name: CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Address 1: Not reported
TSDF Address 2: Not reported
TSDF City: Not reported
TSDF Zip: Not reported
TSDF Telephone: Not reported

Additional Info:
Year: 2017
Gen EPA ID: CAD981978265

Shipment Date: 20170822
Creation Date: 9/28/2018 18:30:17
Receipt Date: 20170831
Manifest ID: 005841240SKS
Trans EPA ID: TXR000081205
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: MAD039322250
Trans 2 Name: CLEAN HARBORS
TSDF EPA ID: NED981723513
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.0625
Waste Quantity: 125
Quantity Unit: P
Additional Code 1: D040
Additional Code 2: D039
Additional Code 3: D007
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20170413
Creation Date: 5/12/2018 18:31:53
Receipt Date: 20170501
Manifest ID: 005895667SKS
Trans EPA ID: TXR000081205
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: MAD039322250
Trans 2 Name: CLEAN HARBORS
TSDF EPA ID: NED981723513
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: - Not reported
RCRA Code: Not reported
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel

FLINTRIDGE CLEANERS (Continued) **1000322754**

Quantity Tons: Not reported
Waste Quantity: 150
Quantity Unit: Not reported
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2015
Gen EPA ID: CAD981978265

Shipment Date: 20151021
Creation Date: 5/4/2016 22:16:02
Receipt Date: 20151106
Manifest ID: 005095536SKS
Trans EPA ID: TXR000081205
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: ALR000007237
Trans 2 Name: ACTION RESOURCES INC
TSDF EPA ID: NED981723513
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H040 - Incineration--Thermal Destruction Other Than Use As A Fuel
Quantity Tons: 0.06
Waste Quantity: 120
Quantity Unit: P
Additional Code 1: D040
Additional Code 2: D039
Additional Code 3: D007
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2014
Gen EPA ID: CAD981978265

Shipment Date: 20141119
Creation Date: 4/9/2015 22:15:05
Receipt Date: 20141204
Manifest ID: 004511706SKS
Trans EPA ID: TXR000081205
Trans Name: SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID: AZR000513770
Trans 2 Name: SLT
TSDF EPA ID: NED981723513
Trans Name: CLEAN HARBORS ENVIRONMENTAL SERVICES IN
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code: F002
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No

FLINTRIDGE CLEANERS (Continued) **1000322754**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.06
Waste Quantity:	120
Quantity Unit:	P
Additional Code 1:	D040
Additional Code 2:	D039
Additional Code 3:	D007
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140220
Creation Date:	4/30/2014 22:15:24
Receipt Date:	20140311
Manifest ID:	004115312SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	D040
Additional Code 2:	D039
Additional Code 3:	D007
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2013
Gen EPA ID:	CAD981978265
Shipment Date:	20130809
Creation Date:	2/12/2014 22:15:06
Receipt Date:	20130815
Manifest ID:	003838515SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200

FLINTRIDGE CLEANERS (Continued) **1000322754**

Quantity Unit:	P
Additional Code 1:	D040
Additional Code 2:	D039
Additional Code 3:	D007
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130508
Creation Date:	9/17/2013 22:15:12
Receipt Date:	20130515
Manifest ID:	003811613SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	D040
Additional Code 2:	D039
Additional Code 3:	D007
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2012
Gen EPA ID:	CAD981978265
Shipment Date:	20121210
Creation Date:	8/22/2013 22:15:07
Receipt Date:	20121214
Manifest ID:	003504537SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.11
Waste Quantity:	220
Quantity Unit:	P
Additional Code 1:	D040
Additional Code 2:	D039

FLINTRIDGE CLEANERS (Continued) **1000322754**

Additional Code 3:	D029
Additional Code 4:	D007
Additional Code 5:	Not reported
Shipment Date:	20120719
Creation Date:	6/1/2013 22:15:05
Receipt Date:	20120724
Manifest ID:	003302802SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1125
Waste Quantity:	225
Quantity Unit:	P
Additional Code 1:	D040
Additional Code 2:	D039
Additional Code 3:	D029
Additional Code 4:	D007
Additional Code 5:	Not reported

Additional Info:

Year:	2011
Gen EPA ID:	CAD981978265
Shipment Date:	20111222
Creation Date:	5/24/2012 20:30:15
Receipt Date:	20120103
Manifest ID:	002867952SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	D040
Additional Code 2:	D039
Additional Code 3:	D029
Additional Code 4:	D007
Additional Code 5:	Not reported

FLINTRIDGE CLEANERS (Continued) **1000322754**

Shipment Date:	20111111
Creation Date:	4/12/2012 20:30:13
Receipt Date:	20111115
Manifest ID:	002980011SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.12
Waste Quantity:	240
Quantity Unit:	P
Additional Code 1:	D040
Additional Code 2:	D039
Additional Code 3:	D029
Additional Code 4:	D007
Additional Code 5:	Not reported

Shipment Date:	20110408
Creation Date:	9/13/2011 18:30:19
Receipt Date:	20110414
Manifest ID:	003594436FLE
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1245
Waste Quantity:	249
Quantity Unit:	P
Additional Code 1:	D040
Additional Code 2:	D039
Additional Code 3:	D029
Additional Code 4:	D007
Additional Code 5:	Not reported

Additional Info:

Year:	2010
Gen EPA ID:	CAD981978265

Shipment Date:	20100918
Creation Date:	2/8/2011 18:30:17
Receipt Date:	20100921

FLINTRIDGE CLEANERS (Continued) **1000322754**

Manifest ID:	003678798FLE
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	D040
Additional Code 2:	D039
Additional Code 3:	D029
Additional Code 4:	D007
Additional Code 5:	Not reported

Shipment Date:	20100412
Creation Date:	12/3/2010 18:30:49
Receipt Date:	20100415
Manifest ID:	002475451SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	741 - Liquids with halogenated organic compounds > 1000 mg/l
RCRA Code:	F002
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	D040
Additional Code 2:	D039
Additional Code 3:	D029
Additional Code 4:	D007
Additional Code 5:	Not reported

LOS ANGELES CO. HMS:

Name:	FLINTRIDGE CLEANERS
Address:	1121 FOOTHILL BLVD
City,State,Zip:	LA CANADA FLINTRIDGE, CA 910113207
Region:	LA
Permit Category:	I
Facility Id:	018271-025418
Facility Type:	05
Facility Status:	Permit
Area:	3Z

FLINTRIDGE CLEANERS (Continued) **1000322754**

Permit Number: 000286615
Permit Status: Closed

Name: FLINTRIDGE CLEANERS
Address: 1121 FOOTHILL BLVD
City,State,Zip: LA CANADA FLINTRIDGE, CA 910113207
Region: LA
Permit Category: I
Facility Id: 018271-025418
Facility Type: 01
Facility Status: Permit
Area: 3Z
Permit Number: 000334078
Permit Status: Permit

Name: FLINTRIDGE CLEANERS
Address: 1121 FOOTHILL BLVD
City,State,Zip: LA CANADA FLINTRIDGE, CA 910113207
Region: LA
Permit Category: Not reported
Facility Id: 018271-042173
Facility Type: Not reported
Facility Status: OPEN
Area: 3Z
Permit Number: Not reported
Permit Status: Not reported

CERS:
Name: FLINTRIDGE CLEANERS
Address: 1121 FOOTHILL BLVD
City,State,Zip: LA CANADA FLINTRIDGE, CA 91011
Site ID: 30635
CERS ID: 10292017
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 30635
Site Name: FLINTRIDGE CLEANERS
Violation Date: 09-10-2020
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler's operations that requires modification to any portion of the business plan.
Violation Notes: Returned to compliance on 09/10/2020. OBSERVATION: The business failed to update business plan within 30 days when one of the following occurs: a 100 percent or more increase in the quantity of a previously disclosed material; any handling of a previously undisclosed hazardous material; a change of business address, business ownership, or business name; or a substantial change in the handler's operations that requires modification to any portion of the business plan. *Hazardous Materials Business Plan was corrected/updated and resubmitted onto CERS. CORRECTIVE ACTION: Update all submittal

FLINTRIDGE CLEANERS (Continued) **1000322754**

elements effected by the change(s) and electronically submit the update within 30 days.
Violation Division: Los Angeles County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-21-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-10-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Emin Baltazar, Owner
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-21-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-10-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Emin Baltazar, Owner
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-12-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-12-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported

FLINTRIDGE CLEANERS (Continued) **1000322754**

Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS,

Coordinates:
Site ID: 30635
Facility Name: FLINTRIDGE CLEANERS
Env Int Type Code: HWG
Program ID: 10292017
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.,
Latitude: 34.206090
Longitude: -118.203140

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: emin baltazar
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Environmental Contact
Entity Name: edwin baltazar
Entity Title: Not reported
Affiliation Address: 1121 FOOTHILL BLVD
Affiliation City: LA CANADA FLINTRIDGE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91011
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: Los Angeles County Fire
Entity Title: Not reported
Affiliation Address: 5825 Rickenbacker Road
Affiliation City: Commerce
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90040-3027
Affiliation Phone: (323) 890-4000,

Affiliation Type Desc: Operator
Entity Name: AMOSH MIYRZAEAN
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (818) 952-1777,

Affiliation Type Desc: Parent Corporation

FLINTRIDGE CLEANERS (Continued) **1000322754**

Entity Name: FLINTRIDGE CLEANERS
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Property Owner
Entity Name: amin baltazar
Entity Title: Not reported
Affiliation Address: 1121 FOOTHILL BLVD
Affiliation City: LA CANADA FLINTRIDGE
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91011
Affiliation Phone: (818) 631-3102,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1121 FOOTHILL BLVD
Affiliation City: LA CANADA FLINTRI
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91011
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: emin baltazar
Entity Title: owner
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: AMOSH MIYRZAEAN
Entity Title: Not reported
Affiliation Address: 1121 FOOTHILL BLVD
Affiliation City: LA CANADA FLINTRI
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91011
Affiliation Phone: (818) 952-1777,

HWTS:
Name: FLINTRIDGE CLEANERS
Address: 1121 FOOTHILL BLVD
Address 2: Not reported
City,State,Zip: LA CANADA, CA 91011
EPA ID: CAL000022217
Inactive Date: 06/30/1998

FLINTRIDGE CLEANERS (Continued) **1000322754**

Create Date:	05/09/1990
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	1121 FOOTHILL BLVD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LA CANADA FLINTRIDGE, CA 910113207
Owner Name:	AMOSH MIRZAIAN
Owner Address:	Not reported
Owner Address 2:	Not reported
Owner City,State,Zip:	Not reported
Contact Name:	AMOSH MIRZAIAN
Contact Address:	INACTIVE PER VQ98 - BMI
Contact Address 2:	Not reported
City,State,Zip:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.206137
Longitude:	-118.203651

Name:	FLINTRIDGE CLEANERS
Address:	1121 FOOTHILL BLVD
Address 2:	Not reported
City,State,Zip:	LA CANADA, CA 91011
EPA ID:	CAD981978265
Inactive Date:	Not reported
Create Date:	07/03/1987
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	1121 FOOTHILL BLVARD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LA CANADA, CA 910110000
Owner Name:	EMIN BALTAZAR
Owner Address:	1121 FOOTHILL BLVD
Owner Address 2:	Not reported
Owner City,State,Zip:	LA CANADA, CA 910110000
Contact Name:	EMIL BALTAZAR MANAGER
Contact Address:	1121 FOOTHILL BLVD
Contact Address 2:	Not reported
City,State,Zip:	LA CANADA, CA 91011
Facility Status:	Active
Facility Type:	PERMANENT
Category:	FEDERAL
Latitude:	34.205839
Longitude:	-118.203249

NAICS:

EPA ID:	CAD981978265
Create Date:	2008-03-20 15:51:28.017
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
Issued EPA ID Date:	1987-07-03 00:00:00
Inactive Date:	Not reported
Facility Name:	FLINTRIDGE CLEANERS
Facility Address:	1121 FOOTHILL BLVD
Facility Address 2:	Not reported
Facility City:	LA CANADA
Facility County:	Not reported

FLINTRIDGE CLEANERS (Continued) **1000322754**

Facility State: CA
Facility Zip: 910110000

34
SE
1/2-1
0.888 mi.
4689 ft.

Relative:
Lower

Actual:
1134 ft.

JET PROPULSION LABORATORY **CA SWF/LF** **U003159486**
4800 OAK GROVE DR **CA UST** **N/A**
PASADENA, CA 91109 **CA HIST Cal-Sites**
CA CERS HAZ WASTE
CA HIST UST
CA CERS TANKS
CA EMI
CA NPDES
CA WDS
CA WIP
CA CIWQS
CA CERS

SWF/LF (SWIS):
Name: NASA-JPL DUMP AKA GEORGE HAGAN DUMP
Address: 4800 OAK GROVE DR
City,State,Zip: PASADENA, CA 91109
Region: STATE
Facility ID: 19-AC-5000
SWIS Number: 19-AC-5000
Point of Contact: Dawn Liang
Is Archived: Yes
Is Closed Illegal Abandoned: Yes
Is Site Inert Debris Engineered Fill: No
Is Financial Assurances Responsible: No
Absorbed On: Not reported
Operational Status: Closed
Absorbed By: Not reported
Closed Illegal Abandoned Category: D
EPA Federal Registry ID: Not reported
ARB District: South Coast
SWRCB Region: Los Angeles
Local Government: Pasadena
Reporting Agency Legal Name: County of Los Angeles
Reporting Agency Department: Department of Public Health
Enforcing Agency Legal Name: County of Los Angeles
Enforcing Agency Department: Department of Public Health
Regulation Status: TBD (Pending Investigation)

Owner:
SWIS Number: 19-AC-5000
Owner: National Aeronautics & Space Administr
Owner Address: 5800 Woolsey Canyon Rd
Owner City: Canoga Park
Owner State: CA
Owner Zip: 91304
Site Name: Nasa-Jpl Dump AKA George Hagan Dump
Site Operational Status: Closed
Site Type: Disposal Only
Site Regulatory Status: TBD (Pending Investigation)
Latitude: 34.1894
Longitude: -118.1894
Is Archived: Yes
Started On: Not reported

JET PROPULSION LABORATORY (Continued) **U003159486**

Contact Name: Not reported
Contact Title: Nasa Contracting Officer
Contact Email: Not reported
Contact Phone: (818) 466-8795

UST:
Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City,State,Zip: PASADENA, CA 91109
Facility ID: LACoFA0019050
Permitting Agency: Los Angeles County Fire Department
CERSID: 10151921
Latitude: 34.20281
Longitude: -118.17293

Calsite:
Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DRIVE
City: PASADENA
Region: GLENDALE
Facility ID: 19970008
Facility Type: NPRP
Type: NPL SITE, RP-FUNDED
Branch: SA
Branch Name: SO CAL - GLENDALE
File Name: Not reported
State Senate District: 09201993
Status: ANNUAL WORKPLAN (AWP) - ACTIVE SITE
Status Name: ANNUAL WORKPLAN - ACTIVE SITE
Lead Agency: DEPT OF TOXIC SUBSTANCES CONTROL
NPL: Listed
SIC Code: 97
SIC Name: NATIONAL SECURITY/INTERNATIONAL AFFAIRS
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: MISKAROU
Supervisor Responsible for Site: Not reported
Region Water Control Board: Not reported
Region Water Control Board Name: Not reported
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: 44
State Senate District Code: 21
Facility ID: 19970008
Activity: DISC
Activity Name: DISCOVERY
AWP Code: Not reported
Proposed Budget: 0
AWP Completion Date: Not reported
Revised Due Date: Not reported

JET PROPULSION LABORATORY (Continued) **U003159486**

Comments Date:	07111990
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19970008
Activity:	SS
Activity Name:	SITE SCREENING
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	03211991
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19970008
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	FFA
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	12231992
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported

JET PROPULSION LABORATORY (Continued) **U003159486**

Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19970008
Activity:	ORDER
Activity Name:	I/SE, IORSE, FFA, FFSRA, VCA, EA
AWP Code:	MOU
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09201993
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19970008
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	OU 2
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09072000
Est Person-Yrs to complete:	0
Estimated Size:	L
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19970008

JET PROPULSION LABORATORY (Continued) **U003159486**

Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	OU 1
Proposed Budget:	0
AWP Completion Date:	06302005
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	L
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19970008
Activity:	RIFS
Activity Name:	REMEDIAL INVESTIGATION / FEASIBILITY STUDY
AWP Code:	OU 3
Proposed Budget:	0
AWP Completion Date:	06302006
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	L
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19970008
Activity:	DES
Activity Name:	DESIGN
AWP Code:	OU 1
Proposed Budget:	0
AWP Completion Date:	03302006
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported

JET PROPULSION LABORATORY (Continued) **U003159486**

Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19970008
Activity:	DES
Activity Name:	DESIGN
AWP Code:	OU 2
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	11302002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19970008
Activity:	DES
Activity Name:	DESIGN
AWP Code:	OU 3
Proposed Budget:	0
AWP Completion Date:	06302007
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported

JET PROPULSION LABORATORY (Continued) **U003159486**

Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19970008
Activity:	RMDL
Activity Name:	REMEDIAL ACTION (RAP REQUIRED)
AWP Code:	OU 1
Proposed Budget:	0
AWP Completion Date:	06302007
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19970008
Activity:	RMDL
Activity Name:	REMEDIAL ACTION (RAP REQUIRED)
AWP Code:	OU 3
Proposed Budget:	0
AWP Completion Date:	06302008
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19970008
Activity:	RMDL
Activity Name:	REMEDIAL ACTION (RAP REQUIRED)
AWP Code:	OU 2

JET PROPULSION LABORATORY (Continued) **U003159486**

Proposed Budget:	0
AWP Completion Date:	07302005
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19970008
Activity:	CERT
Activity Name:	CERTIFICATION
AWP Code:	Not reported
Proposed Budget:	0
AWP Completion Date:	12312008
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19970008
Activity:	ROD
Activity Name:	RECORD OF DECISION
AWP Code:	OU 3
Proposed Budget:	0
AWP Completion Date:	12302006
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE

JET PROPULSION LABORATORY (Continued) **U003159486**

Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19970008
Activity:	ROD
Activity Name:	RECORD OF DECISION
AWP Code:	OU 1
Proposed Budget:	0
AWP Completion Date:	12302005
Revised Due Date:	Not reported
Comments Date:	Not reported
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0
For Residential Reuse:	0
Unknown Type:	0
Facility ID:	19970008
Activity:	ROD
Activity Name:	RECORD OF DECISION
AWP Code:	OU2
Proposed Budget:	0
AWP Completion Date:	Not reported
Revised Due Date:	Not reported
Comments Date:	09232002
Est Person-Yrs to complete:	0
Estimated Size:	Not reported
Request to Delete Activity:	Not reported
Activity Status:	AWP
Definition of Status:	ANNUAL WORKPLAN - ACTIVE SITE
Liquids Removed (Gals):	0
Liquids Treated (Gals):	0
Action Included Capping:	Not reported
Well Decommissioned:	Not reported
Action Included Fencing:	Not reported
Removal Action Certification:	Not reported
Activity Comments:	Not reported
For Commercial Reuse:	0
For Industrial Reuse:	0

JET PROPULSION LABORATORY (Continued) **U003159486**

For Residential Reuse: 0
Unknown Type: 0
Alternate Address: 4800 OAK GROVE DRIVE
Alternate City,St,Zip: PASADENA, CA 91109
Alternate Address: NE OF INTERSTATE 210 (FOOTHILL FREEWAY)
Alternate City,St,Zip: PASADENA, CA 91109
Background Info: The Jet Propulsion Labratory (JPL) is a NASA owned facility managed by the California Institute of Technology, involved in the research and development of aeronautics, space technology, and space transportation. The 176-acre site is located at the base of the southern rim of the San Gabriel Mountains about 12 miles north of Los Angeles. Up until the early 1950's, the facility used cesspools for disposal of liquid and solid wastes, domestic sewage, chemistry lab wastes, solid and liquid rocket propellants, solvents, cooling tower chemicals, sulfuric acid, freon, mercury, lead and flouride. In 1982, a preliminary hydrologic assessment of VOC's in groundwater was performed, identifying carbon tetrachloride (CCLs), trichloroethlene (TCE) and tetrachloroethylene (PCE) at concentrations above the federal MCLs. The PA/SI, performed in 1988, identified six waste disposal pits on and adjacent to JPL. These pits are suspected of being the major contributors to the contamination of the groundwater. The City of Pasadena wells located down-gradient from JPL contained concentrations of TCE, PCE, CCL4 above the MCLs. A monitoring well installed midway between JPL and the City of Pasadena wells detected the presence of VOCs. JPL then installed a groundwater treatment plant in the Arroyo Seco. In 1990, five monitoring wells were installed during an expanded site investigation (ESI) to collect data.
Not reported
The site was placed on the National Priorities List (NPL) in October 1991. The Federal Facilities Agreement was signed December 23, 1992.
Not reported
The Remedial Investigation (RI) field work, report, and health risk assessment was completed on three Operable Units (OU)s. OU-1 deals with on-site groundwater contamination; OU-2 deals with on-site soil/source contamination; and OU-3 is for the off-site groundwater contamination.
Comments Date: 07111990
Comments: remedial investigation/feasibility study. EPA/CERCLA Site
Comments Date: 07111990
Comments: Pending Status: EPA SITE.
Comments Date: 07302000
Comments: OU-2, on-site soil - Finalized Feasibility Study Report.
Comments Date: 07302004
Comments: OU-3 off-site gw - Installed an Ion Exchange Plant to Treat
Comments Date: 07302004
Comments: Groundwater from Lincoln Aveune Water Company Wells: Well No.3
Comments Date: 07302004
Comments: and Well No.5.
Comments Date: 08111989
Comments: Preliminary Assessment done on August 11, 1989 recommends a site
Comments Date: 08111989
Comments: inspection.
Comments Date: 08301999
Comments: OU-1, on-site gw - Finalized Remedial Investigation Report.

JET PROPULSION LABORATORY (Continued) **U003159486**

Comments Date:	08301999
Comments:	OU-3, off-site gw - Finalized Remedial Investigation Report
Comments Date:	08302004
Comments:	OU-3, off-site gw - Finalized Action Memorandum for Perchlorate
Comments Date:	08302004
Comments:	Treatment for Lincoln Avenue Water Company.
Comments Date:	09201993
Comments:	A Memorandum of Agreement for NASA to reimburse the Department
Comments Date:	09201993
Comments:	for oversight of remedial activities at JPL was signed. Since
Comments Date:	09201993
Comments:	this time, the Department has continued to work on the project.
Comments Date:	09302002
Comments:	OU-2, on-site soil - Finalized the Record of Decision.
Comments Date:	10141991
Comments:	Site was listed on the NPL on this date.
Comments Date:	10302003
Comments:	OU-1, on-site gw - Final Expanded Treatability Study Work Plan
Comments Date:	10302003
Comments:	by Battelle.
Comments Date:	11301999
Comments:	OU-2, on-site soil - Finalized Remedial Investigation Report.
Comments Date:	11302004
Comments:	OU-3, off-site gw - Finalized Remedial Investigation Addendum
Comments Date:	11302004
Comments:	Workplan.
Comments Date:	12231992
Comments:	Federal Facilities Agreement reached between EPA, DTSC, NASA/JPL
Comments Date:	12231992
Comments:	and RWQCB.
Comments Date:	12301991
Comments:	OU-3, off-site gw - Installed an Air Stripping Treatment from
Comments Date:	12301991
Comments:	City of Pasadena Wells: Arroyo Well, Well 52, Ventura Well, and
Comments Date:	12301991
Comments:	Windsor Well.
Comments Date:	12301992
Comments:	OU-3, Off-site gw - Installed a Granular Activated Carbon Plant
Comments Date:	12301992
Comments:	to Treat Groundwater from Lincoln Avenue Water Company Wells:
Comments Date:	12301992
Comments:	Well No. 3 and Well No 5.
Comments Date:	12302002
Comments:	OU-2, on-site soil - Finalized the Remedial Design/Remedial
Comments Date:	12302002
Comments:	Action Workplan.
Comments Date:	01302005
Comments:	OU-1, on-site gw - Completed Construction the Expanded
Comments Date:	01302005
Comments:	Treatability Study system.
Comments Date:	03111991
Comments:	EPA currently preparing HRS package. EPA suspects this site may
Comments Date:	03111991
Comments:	be listed on NPL.
Comments Date:	03211991
Comments:	Groundwater contaminated with VOCs. EPA is the lead agency.
Comments Date:	03302004

JET PROPULSION LABORATORY (Continued) **U003159486**

Comments:	OU-1, on-site gw - Final Report on the In Situ Bioremediation
Comments Date:	03302004
Comments:	Pilot Study by ARCADIS.
Comments Date:	04241995
Comments:	The groundwater monitoring wells for OU-1 have been installed
Comments Date:	04241995
Comments:	and soil sampling and soil vapor samples have been collected for
Comments Date:	04241995
Comments:	OU-2. Results should be available within two months. The OU-3
Comments Date:	04241995
Comments:	groundwater monitoring wells are being installed to characterize
Comments Date:	04241995
Comments:	the groundwater contaminant plume off-site.
Comments Date:	04301998
Comments:	OU2, on-site Soil - Initiated Soil Vapor Extraction Pilot Study.
Comments Date:	04302001
Comments:	OU-1, on-site gw - Final Report on GAC-Fluidized Bed Reactor
Comments Date:	04302001
Comments:	Pilot Study by US Filter and Envirogen.
Comments Date:	05042005
Comments:	OU-1, on-site gw - Preparing the Feasibility Study and
Comments Date:	05042005
Comments:	Implementing the Expanded Treatability Study for Removal of VOCs
Comments Date:	05042005
Comments:	and Perchlorate from Groundwater. OU-2, on-site soil -
Comments Date:	05042005
Comments:	Operating a Full-Scale Soil Vapor Extraction Treatment system to
Comments Date:	05042005
Comments:	Clean Up Soils. OU-3, off-site gw - Preparing Engineering
Comments Date:	05042005
Comments:	Evaluation/Cost Analysis Report for Perchlorate Treatment at
Comments Date:	05042005
Comments:	City of Pasadena Wells: Arroyo Well, Well 52, Ventura Well, and
Comments Date:	05042005
Comments:	Windsor Well.
Comments Date:	06301999
Comments:	Operable Unit 1 (OU-1) on-site groundwater gw - Final Report on
Comments Date:	06301999
Comments:	Ion Exchange Pilot Study by Calgon Carbon Corporation.
Comments Date:	06302001
Comments:	OU-2, on-site soil - May-June 2001 - Finalized Proposed Plan to
Comments Date:	06302001
Comments:	Select a Remedy to Clean Up Soils and Conducted Public Meetings
Comments Date:	06302003
Comments:	OU-1, on-site gw - Field Pilot Testing of a Dynamic Suspended
Comments Date:	06302003
Comments:	Bed Reactor for Removal of Perchlorate in GW at JPL.
Comments Date:	07111990
Comments:	Facility identified EPA expanded site inspection report. EPA
Comments Date:	07111990
Comments:	completed expanded site inspection and will continue with a
ID Name:	CALSTARS CODE
ID Value:	300318
ID Name:	EPA IDENTIFICATION NUMBER
ID Value:	CA9800013030
Alternate Name:	NASA - JET PROPULSION LABORATORY
Alternate Name:	JET PROPULSION LABORATORY (NASA)

JET PROPULSION LABORATORY (Continued) **U003159486**

Alternate Name: JET PROPULSION LABORATORY
Alternate Name: JPL
Alternate Name: Not reported
Special Programs Code: Not reported
Special Programs Name: Not reported

CERS HAZ WASTE:
Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City,State,Zip: PASADENA, CA 91109
Site ID: 395465
CERS ID: 10151921
CERS Description: Hazardous Waste Onsite Treatment

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City,State,Zip: PASADENA, CA 91109
Site ID: 395465
CERS ID: 10151921
CERS Description: Hazardous Waste Generator

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City,State,Zip: PASADENA, CA 91109
Site ID: 395465
CERS ID: 10151921
CERS Description: RCRA LQ HW Generator

HIST UST:
Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City,State,Zip: PASADENA, CA 91109
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000050516
Facility Type: Other
Other Type: U.S. GOVERNMENT
Contact Name: B.E. FISCHER, 200-213
Telephone: 8183542539
Owner Name: NATIONAL AERONAUTICS AND SPACE
Owner Address: 4800 OAK GROVE DRIVE
Owner City,St,Zip: PASADENA, CA 91109
Total Tanks: 0019

Tank Num: 001
Container Num: B/80
Year Installed: 1957
Tank Capacity: 00001000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: B/117

JET PROPULSION LABORATORY (Continued) **U003159486**

Year Installed:	1974
Tank Capacity:	00001000
Tank Used for:	WASTE
Type of Fuel:	DIESEL
Container Construction Thickness:	6
Leak Detection:	Stock Inventor, None

Tank Num:	003
Container Num:	B/170
Year Installed:	1962
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	6
Leak Detection:	Stock Inventor

Tank Num:	004
Container Num:	B/177A
Year Installed:	1972
Tank Capacity:	00009940
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	005
Container Num:	B/177B
Year Installed:	1972
Tank Capacity:	00009940
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor

Tank Num:	006
Container Num:	B/177C
Year Installed:	1972
Tank Capacity:	00003000
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	007
Container Num:	B/183
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Visual

Tank Num:	008
Container Num:	B/183
Year Installed:	Not reported
Tank Capacity:	00000000
Tank Used for:	WASTE

JET PROPULSION LABORATORY (Continued) **U003159486**

Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 009
Container Num: B/183B
Year Installed: 1978
Tank Capacity: 00020000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 12
Leak Detection: Stock Inventor

Tank Num: 010
Container Num: B/197
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 5
Leak Detection: Stock Inventor

Tank Num: 011
Container Num: B/231
Year Installed: 1964
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6
Leak Detection: Stock Inventor

Tank Num: 012
Container Num: B/230
Year Installed: 1978
Tank Capacity: 00015000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 12
Leak Detection: Stock Inventor

Tank Num: 013
Container Num: B/230A
Year Installed: Not reported
Tank Capacity: 00007000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 014
Container Num: B/230B
Year Installed: Not reported
Tank Capacity: 00000700
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

JET PROPULSION LABORATORY (Continued) **U003159486**

Tank Num: 015
Container Num: B/238S
Year Installed: 1978
Tank Capacity: 00015000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 12
Leak Detection: Stock Inventor

Tank Num: 016
Container Num: B/238B
Year Installed: 1978
Tank Capacity: 00015000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 12
Leak Detection: Stock Inventor

Tank Num: 017
Container Num: B/277
Year Installed: 1978
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: 12
Leak Detection: Stock Inventor

Tank Num: 018
Container Num: B/278
Year Installed: Not reported
Tank Capacity: 00005000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 019
Container Num: TBMB/19
Year Installed: 1972
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: 10
Leak Detection: Visual, Stock Inventor

CERS TANKS:
Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City,State,Zip: PASADENA, CA 91109
Site ID: 395465
CERS ID: 10151921
CERS Description: Aboveground Petroleum Storage

Name: JET PROPULSION LABORATORY
Address: 4800 OAK GROVE DR
City,State,Zip: PASADENA, CA 91109
Site ID: 395465

JET PROPULSION LABORATORY (Continued) **U003159486**

CERS ID: 10151921
CERS Description: Underground Storage Tank

EMI:

Name:	JET PROPULSION LAB - 200/213
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	8731
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:	20
Reactive Organic Gases Tons/Yr:	19
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	14
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Name:	NASA JET PROPULSION LAB; BLDG
Address:	4800 OAK GROVE DR,BLDG 277-288
City,State,Zip:	PASADENA, CA 91109
Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	8731
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:	20
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	6
NOX - Oxides of Nitrogen Tons/Yr:	27
SOX - Oxides of Sulphur Tons/Yr:	1
Particulate Matter Tons/Yr:	2
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	30

JET PROPULSION LABORATORY (Continued) **U003159486**

Reactive Organic Gases Tons/Yr:	18
Carbon Monoxide Emissions Tons/Yr:	4
NOX - Oxides of Nitrogen Tons/Yr:	15
SOX - Oxides of Sulphur Tons/Yr:	1
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	1996
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	16
Reactive Organic Gases Tons/Yr:	11
Carbon Monoxide Emissions Tons/Yr:	4
NOX - Oxides of Nitrogen Tons/Yr:	12
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	1997
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	14
Reactive Organic Gases Tons/Yr:	9
Carbon Monoxide Emissions Tons/Yr:	3
NOX - Oxides of Nitrogen Tons/Yr:	8
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	1998
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
Air District Name:	SOUTH COAST AQMD

JET PROPULSION LABORATORY (Continued) **U003159486**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	13
Reactive Organic Gases Tons/Yr:	8
Carbon Monoxide Emissions Tons/Yr:	3
NOX - Oxides of Nitrogen Tons/Yr:	8
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	1999
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	14
Reactive Organic Gases Tons/Yr:	9
Carbon Monoxide Emissions Tons/Yr:	3
NOX - Oxides of Nitrogen Tons/Yr:	8
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	2000
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	14
Reactive Organic Gases Tons/Yr:	9
Carbon Monoxide Emissions Tons/Yr:	3
NOX - Oxides of Nitrogen Tons/Yr:	8
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	2001
County Code:	19
Air Basin:	SC
Facility ID:	11887

JET PROPULSION LABORATORY (Continued) **U003159486**

Air District Name:	SC
SIC Code:	9661
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:	4
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	6
NOX - Oxides of Nitrogen Tons/Yr:	8
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	2002
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	3
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	6
NOX - Oxides of Nitrogen Tons/Yr:	11
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	2003
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	3
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	6
NOX - Oxides of Nitrogen Tons/Yr:	11
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	1
Part. Matter 10 Micrometers and Smllr Tons/Yr:	1

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	2004

JET PROPULSION LABORATORY (Continued) **U003159486**

County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	3.495498996
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	5.94547
NOX - Oxides of Nitrogen Tons/Yr:	10.5924
SOX - Oxides of Sulphur Tons/Yr:	0.097098
Particulate Matter Tons/Yr:	0.712216
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.7

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	2005
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	1.7046828
Reactive Organic Gases Tons/Yr:	1.5146518594
Carbon Monoxide Emissions Tons/Yr:	4.81139
NOX - Oxides of Nitrogen Tons/Yr:	6.65857
SOX - Oxides of Sulphur Tons/Yr:	.048495
Particulate Matter Tons/Yr:	.46293
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.46083841

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	2006
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	1.948721441845900959
Reactive Organic Gases Tons/Yr:	1.495
Carbon Monoxide Emissions Tons/Yr:	4.574
NOX - Oxides of Nitrogen Tons/Yr:	8.02
SOX - Oxides of Sulphur Tons/Yr:	.057
Particulate Matter Tons/Yr:	.803
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.7088893

Name:	NASA JET PROPULSION LAB

JET PROPULSION LABORATORY (Continued) **U003159486**

Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 946040000
Year:	2007
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	1.915077826309688557
Reactive Organic Gases Tons/Yr:	1.495
Carbon Monoxide Emissions Tons/Yr:	4.574
NOX - Oxides of Nitrogen Tons/Yr:	8.02
SOX - Oxides of Sulphur Tons/Yr:	.057
Particulate Matter Tons/Yr:	.803
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.7088893

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	2008
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	4.437283444436867854
Reactive Organic Gases Tons/Yr:	3.97756493492162486
Carbon Monoxide Emissions Tons/Yr:	4.902142
NOX - Oxides of Nitrogen Tons/Yr:	7.379056692474006505
SOX - Oxides of Sulphur Tons/Yr:	.0363918
Particulate Matter Tons/Yr:	.79824107
Part. Matter 10 Micrometers and Smllr Tons/Yr:	.699190433291

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	2009
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	2.6298785471847199
Reactive Organic Gases Tons/Yr:	2.1444766
Carbon Monoxide Emissions Tons/Yr:	5.6422220000000003
NOX - Oxides of Nitrogen Tons/Yr:	8.7370695000000005
SOX - Oxides of Sulphur Tons/Yr:	4.4078430000000002E-2
Particulate Matter Tons/Yr:	0.81315559999999998

JET PROPULSION LABORATORY (Continued) **U003159486**

Part. Matter 10 Micrometers and Smllr Tons/Yr:0.72716281738999999

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	2010
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	2.6651446675993098
Reactive Organic Gases Tons/Yr:	2.1062400000000001
Carbon Monoxide Emissions Tons/Yr:	6.0567299999999999
NOX - Oxides of Nitrogen Tons/Yr:	10.21397
SOX - Oxides of Sulphur Tons/Yr:	7.0779999999999996E-2
Particulate Matter Tons/Yr:	0.93381999999999998
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.84436511999999997

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	2011
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	2.3350531548
Reactive Organic Gases Tons/Yr:	1.75677
Carbon Monoxide Emissions Tons/Yr:	6.04151
NOX - Oxides of Nitrogen Tons/Yr:	10.28497
SOX - Oxides of Sulphur Tons/Yr:	0.06260144
Particulate Matter Tons/Yr:	0.83939
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.76910832

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	2012
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	2.5337091379
Reactive Organic Gases Tons/Yr:	1.98947
Carbon Monoxide Emissions Tons/Yr:	5.88361

JET PROPULSION LABORATORY (Continued) **U003159486**

NOX - Oxides of Nitrogen Tons/Yr:	9.95348
SOX - Oxides of Sulphur Tons/Yr:	0.03901034
Particulate Matter Tons/Yr:	0.90726
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.811953532

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	2013
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	2.3033175146
Reactive Organic Gases Tons/Yr:	1.75024
Carbon Monoxide Emissions Tons/Yr:	5.93008
NOX - Oxides of Nitrogen Tons/Yr:	9.67647
SOX - Oxides of Sulphur Tons/Yr:	0.03972982
Particulate Matter Tons/Yr:	0.903060275
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.802517629

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	2014
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	3.3396525761
Reactive Organic Gases Tons/Yr:	2.64588
Carbon Monoxide Emissions Tons/Yr:	5.01661
NOX - Oxides of Nitrogen Tons/Yr:	6.97567
SOX - Oxides of Sulphur Tons/Yr:	0.033475
Particulate Matter Tons/Yr:	0.84533
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.739341

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	2015
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported

JET PROPULSION LABORATORY (Continued) **U003159486**

Total Organic Hydrocarbon Gases Tons/Yr:	4.6976798871
Reactive Organic Gases Tons/Yr:	3.983033427
Carbon Monoxide Emissions Tons/Yr:	5.70592403
NOX - Oxides of Nitrogen Tons/Yr:	7.48012457
SOX - Oxides of Sulphur Tons/Yr:	0.037182244
Particulate Matter Tons/Yr:	0.912756852
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.79892460917

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	2016
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	3.032771863
Reactive Organic Gases Tons/Yr:	2.282295
Carbon Monoxide Emissions Tons/Yr:	5.921502
NOX - Oxides of Nitrogen Tons/Yr:	7.62743
SOX - Oxides of Sulphur Tons/Yr:	0.031289711
Particulate Matter Tons/Yr:	0.896215225
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.789143548

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	2017
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	3.6808320405
Reactive Organic Gases Tons/Yr:	2.8195262
Carbon Monoxide Emissions Tons/Yr:	5.73923
NOX - Oxides of Nitrogen Tons/Yr:	9.45768
SOX - Oxides of Sulphur Tons/Yr:	0.03115014
Particulate Matter Tons/Yr:	0.888518192
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.78683954272

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	2018
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9660

JET PROPULSION LABORATORY (Continued) **U003159486**

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:	4.9747793224
Reactive Organic Gases Tons/Yr:	3.908283037
Carbon Monoxide Emissions Tons/Yr:	5.73880245
NOX - Oxides of Nitrogen Tons/Yr:	8.73772985
SOX - Oxides of Sulphur Tons/Yr:	0.035960134
Particulate Matter Tons/Yr:	0.92296897
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.7967368464

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	2019
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	4.2546751555
Reactive Organic Gases Tons/Yr:	3.271786228
Carbon Monoxide Emissions Tons/Yr:	5.9440111
NOX - Oxides of Nitrogen Tons/Yr:	9.4684271
SOX - Oxides of Sulphur Tons/Yr:	0.0396735427
Particulate Matter Tons/Yr:	0.92034783433
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.81242380528

Name:	NASA JET PROPULSION LAB
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Year:	2020
County Code:	19
Air Basin:	SC
Facility ID:	11887
Air District Name:	SC
SIC Code:	9661
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:	2.6086120172
Reactive Organic Gases Tons/Yr:	1.932509
Carbon Monoxide Emissions Tons/Yr:	5.179172
NOX - Oxides of Nitrogen Tons/Yr:	8.77076
SOX - Oxides of Sulphur Tons/Yr:	0.03101324
Particulate Matter Tons/Yr:	0.885365197
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.77653953912

NPDES:

Name:	JPL FIEF BLDG
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Facility Status:	Not reported
NPDES Number:	Not reported

JET PROPULSION LABORATORY (Continued) **U003159486**

Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	4 19C394732
Regulatory Measure Type:	Construction
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	08/10/2021
Operator Name:	Jet Propulsion Laboratory
Operator Address:	4800 Oak Grove Drive
Operator City:	Pasadena
Operator State:	California
Operator Zip:	91109

Name:	JPL FIEF BLDG
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Facility Status:	Active
NPDES Number:	CAS000002
Region:	4
Agency Number:	0
Regulatory Measure ID:	536917
Place ID:	Not reported
Order Number:	2009-0009-DWQ
WDID:	4 19C394732
Regulatory Measure Type:	Enrollee
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	08/10/2021
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	4800 Oak Grove Drive
Discharge Name:	Jet Propulsion Laboratory
Discharge City:	Pasadena
Discharge State:	California
Discharge Zip:	91109
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

WDS:
Name: JET PROPULSION LAB.

JET PROPULSION LABORATORY (Continued) **U003159486**

Address:	4800 Oak Grove Dr M/S171-225
City:	PASADENA
Facility ID:	Los Angeles River 196000430
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:	CAG994004 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	4
Facility Telephone:	8183542873
Facility Contact:	Henry Koyamatsu
Agency Name:	JET PROPULSION LABORATORY
Agency Address:	Not reported
Agency City,St,Zip:	0
Agency Contact:	Not reported
Agency Telephone:	Not reported
Agency Type:	Private
SIC Code:	3761
SIC Code 2:	Not reported
Primary Waste Type:	Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Primary Waste:	MISCEL
Waste Type2:	Not reported
Waste2:	Miscellaneous (Includes wastes from dewatering, recreational lake overflow, swimming pool wastes, water ride wastewater, ground water seepage and other wastes of this type)
Primary Waste Type:	Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	No reclamation requirements associated with this facility.
POTW:	The facility is not a POTW.
Treat To Water:	0
Complexity:	Not reported

WIP:

Name:	NASA-JPL
Address:	4800 Oak Grove Dr
City,State,Zip:	PASADENA, CA 91109-8099
Region:	4
File Number:	117.0001
File Status:	**Active**
Staff:	DYOUNG
Facility Suite:	Not reported

CIWQS:

Name:	JPL FIEF BLDG
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109

JET PROPULSION LABORATORY (Continued) **U003159486**

Agency:	Jet Propulsion Laboratory
Agency Address:	4800 Oak Grove Drive MS 171 225, Pasadena, CA 91109
Place/Project Type:	Construction - Commercial
SIC/NAICS:	Not reported
Region:	4
Program:	CONSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water construction
Order Number:	2009-0009-DWQ
WDID:	4 19C394732
NPDES Number:	CAS000002
Adoption Date:	Not reported
Effective Date:	08/10/2021
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.19924
Longitude:	-118.17497

CERS:

Name:	JET PROPULSION LABORATORY
Address:	4800 OAK GROVE DR
City,State,Zip:	PASADENA, CA 91109
Site ID:	395465
CERS ID:	10151921
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	395465
Site Name:	JET PROPULSION LABORATORY
Violation Date:	07-16-2019
Citation:	23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description:	Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1, 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October 1, 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days

JET PROPULSION LABORATORY (Continued) **U003159486**

after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.
Violation Notes: Returned to compliance on 07/17/2019.
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 395465
Site Name: JET PROPULSION LABORATORY
Violation Date: 02-18-2015
Citation: HSC 6.7 25298 - California Health and Safety Code, Chapter 6.7, Section(s) 25298
Violation Description: UST system was abandoned or not properly closed, or failure to comply with all permanent closure requirements.
Violation Notes: Returned to compliance on 03/01/2016.
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 395465
Site Name: JET PROPULSION LABORATORY
Violation Date: 06-15-2021
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description: Failure to have an approved UST Monitoring Plan.
Violation Notes: Returned to compliance on 08/16/2021. 1.CERS;2.87 001 UDC SENSOR RELAY TO SHUT DOWN TURBINE,PER VR SHOULD SHUT DOWN DISPENSER FIX,CERTIFY+;3.87 D.O. TRANING O/DUE SHOW 2021+; 4.DSL D.O. RPT LIST WRONG OVFL DATE SHOW FIXED+|DISCUSSED@INSP:D.O. LATE/MISS MONTHS;UST OWN/OP NOT LIST FOLLOW-UP ACTIONS IN SECT.5
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 395465
Site Name: JET PROPULSION LABORATORY
Violation Date: 06-15-2021
Citation: 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description: Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes: Returned to compliance on 08/16/2021. 1.CERS;2.87 001 UDC SENSOR RELAY TO SHUT DOWN TURBINE,PER VR SHOULD SHUT DOWN DISPENSER FIX,CERTIFY+;3.87 D.O. TRANING O/DUE SHOW 2021+; 4.DSL D.O. RPT LIST WRONG OVFL DATE SHOW FIXED+|DISCUSSED@INSP:D.O. LATE/MISS MONTHS;UST OWN/OP NOT LIST FOLLOW-UP ACTIONS IN SECT.5
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 395465
Site Name: JET PROPULSION LABORATORY
Violation Date: 02-13-2018
Citation: HSC 6.7 25290.2(c) - California Health and Safety Code, Chapter 6.7,

JET PROPULSION LABORATORY (Continued) **U003159486**

	Section(s) 25290.2(c)
Violation Description:	Failure to maintain secondary containment (e.g., failure of secondary containment testing).
Violation Notes:	Returned to compliance on 01/25/2019.
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	395465
Site Name:	JET PROPULSION LABORATORY
Violation Date:	03-11-2016
Citation:	23 CCR 16 2638 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638
Violation Description:	Failure to test leak detection equipment as required every 12 months (VPH, sensor, LLD, ATG, etc.) and/or submit monitoring system certification to the CUPA within 30 days of completion of the test
Violation Notes:	Returned to compliance on 03/14/2016.
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	395465
Site Name:	JET PROPULSION LABORATORY
Violation Date:	01-31-2018
Citation:	23 CCR 16 2636(f)(6) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(6)
Violation Description:	Failure to meet one or more of the following requirements in lieu of a line leak detector (LLD) for emergency generator tank systems: Continuous monitoring system activates an audible and visual alarm. Monitoring system is checked daily. A log of daily checks is available for the UPA to review.
Violation Notes:	Returned to compliance on 02/12/2019.
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	395465
Site Name:	JET PROPULSION LABORATORY
Violation Date:	01-26-2022
Citation:	23 CCR 16 2716(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(f)
Violation Description:	Failure to maintain on-site, or off-site at a readily available location if approved by the UPA, copies of Designated Operator inspection records as follows: Designated operator monthly inspection records for inspections performed before October 1, 2018 must be kept for 12 months from the month of inspection. For inspections performed on or after October 1, 2018, copies of the "Designated Underground Storage Tank Operator Visual Inspection Report" must be kept for 36 months from the month of inspection.
Violation Notes:	1.DO LATE 1/10/22(DENIED ACCESS 12/28/21),PRIOR WAS 12/2/21. 2.ABOVEGROUND FUEL LINE LEAKS IN GEN ROOM..REPAIRS LIKELY(REQ PERM?) 1.NO FURTHER ACTION:RESOLVED AT INSP.DO CONDUCTED AGAIN 1/26/22. 2.REPAIR.PROVIDE W.O..LIKELY NO PERMIT IF UST/UNDERGROUND NOT TOUCHD
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,

JET PROPULSION LABORATORY (Continued) **U003159486**

Site ID: 395465
Site Name: JET PROPULSION LABORATORY
Violation Date: 01-26-2022
Citation: 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description: Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes: 1.DO LATE 1/10/22(DENIED ACCESS 12/28/21),PRIOR WAS 12/2/21. 2.ABOVEGROUND FUEL LINE LEAKS IN GEN ROOM..REPAIRS LIKELY(REQ PERM?) 1.NO FURTHER ACTION:RESOLVED AT INSP.DO CONDUCTED AGAIN 1/26/22. 2.REPAIR.PROVIDE W.O..LIKELY NO PERMIT IF UST/UNDERGROUND NOT TOUCHD
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 395465
Site Name: JET PROPULSION LABORATORY
Violation Date: 06-15-2021
Citation: 23 CCR 16 2715(a)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)(2)
Violation Description: Failure to submit the Underground Storage Tank Statement of Understanding and Compliance Form.
Violation Notes: Returned to compliance on 08/16/2021. 1.CERS;2.87 001 UDC SENSOR RELAY TO SHUT DOWN TURBINE,PER VR SHOULD SHUT DOWN DISPENSER FIX,CERTIFY+;3.87 D.O. TRANING O/DUE SHOW 2021+; 4.DSL D.O. RPT LIST WRONG OVFL DATE SHOW FIXED+|DISCUSSED@INSP:D.O. LATE/MISS MONTHS;UST OWN/OP NOT LIST FOLLOW-UP ACTIONS IN SECT.5
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 395465
Site Name: JET PROPULSION LABORATORY
Violation Date: 01-31-2018
Citation: 23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Description: Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(f)(2).
Violation Notes: Returned to compliance on 02/12/2019.
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 395465
Site Name: JET PROPULSION LABORATORY
Violation Date: 06-15-2021
Citation: 23 CCR 16 2716(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(e)

JET PROPULSION LABORATORY (Continued) **U003159486**

Violation Description: For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(c). For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days.
Violation Notes: Returned to compliance on 08/16/2021. 1.CERS;2.87 001 UDC SENSOR RELAY TO SHUT DOWN TURBINE,PER VR SHOULD SHUT DOWN DISPENSER FIX,CERTIFY+;3.87 D.O. TRANING O/DUE SHOW 2021+; 4.DSL D.O. RPT LIST WRONG OVFL DATE SHOW FIXED+|DISCUSSED@INSP:D.O. LATE/MISS MONTHS;UST OWN/OP NOT LIST FOLLOW-UP ACTIONS IN SECT.5
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 395465
Site Name: JET PROPULSION LABORATORY
Violation Date: 01-28-2019
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description: Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1, 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October 1, 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.
Violation Notes: Returned to compliance on 07/16/2019.
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

JET PROPULSION LABORATORY (Continued) **U003159486**

Site ID: 395465
Site Name: JET PROPULSION LABORATORY
Violation Date: 01-31-2018
Citation: 23 CCR 16 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2711(a)(8)
Violation Description: Failure to submit or maintain a current facility plot plan.
Violation Notes: Returned to compliance on 02/12/2019.
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 395465
Site Name: JET PROPULSION LABORATORY
Violation Date: 02-18-2015
Citation: HSC 6.7 25292(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25292(e)
Violation Description: Failure to maintain secondary containment, as evidenced by failure of secondary containment testing.
Violation Notes: Returned to compliance on 03/01/2016.
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 395465
Site Name: JET PROPULSION LABORATORY
Violation Date: 03-11-2016
Citation: HSC 6.7 25299 - California Health and Safety Code, Chapter 6.7, Section(s) 25299
Violation Description: Failure to comply with one or more of the operating permit conditions.
Violation Notes: Returned to compliance on 03/14/2016.
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 395465
Site Name: JET PROPULSION LABORATORY
Violation Date: 06-15-2021
Citation: 23 CCR 16 2715(c)(4) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(4)
Violation Description: Failure to maintain a list of employees trained by the designated operator on-site or off-site at a readily available location, if approved by the UPA. For training that occurs on or after October 1, 2018, failure to maintain a copy of the "Facility Employee Training Certificate" on-site or off-site at a readily available location, if approved by the UPA.
Violation Notes: Returned to compliance on 08/16/2021. 1.CERS;2.87 001 UDC SENSOR RELAY TO SHUT DOWN TURBINE,PER VR SHOULD SHUT DOWN DISPENSER FIX,CERTIFY+;3.87 D.O. TRANING O/DUE SHOW 2021+; 4.DSL D.O. RPT LIST WRONG OVFL DATE SHOW FIXED+|DISCUSSED@INSP:D.O. LATE/MISS MONTHS;UST OWN/OP NOT LIST FOLLOW-UP ACTIONS IN SECT.5
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 395465
Site Name: JET PROPULSION LABORATORY
Violation Date: 06-15-2021

JET PROPULSION LABORATORY (Continued) **U003159486**

Citation:	HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Description:	Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes:	Returned to compliance on 08/16/2021. 1.CERS;2.87 001 UDC SENSOR RELAY TO SHUT DOWN TURBINE,PER VR SHOULD SHUT DOWN DISPENSER FIX,CERTIFY+;3.87 D.O. TRANING O/DUE SHOW 2021+; 4.DSL D.O. RPT LIST WRONG OVFL DATE SHOW FIXED+|DISCUSSED@INSP:D.O. LATE/MISS MONTHS;UST OWN/OP NOT LIST FOLLOW-UP ACTIONS IN SECT.5
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	395465
Site Name:	JET PROPULSION LABORATORY
Violation Date:	01-31-2018
Citation:	23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description:	Failure to have an approved UST Monitoring Plan.
Violation Notes:	Returned to compliance on 02/12/2019.
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,

Evaluation:

Eval General Type:	Other/Unknown
Eval Date:	02-13-2018
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	06/06/17 SCTR: NOVC FOR MISSING MANUF INFO AND EQUIPMENT RESOLUTION. INCORRECT TESTING OF SPBKS, EXTRA INFO IN REPORT NOT PERTINENT
Eval Division:	Los Angeles County Department of Public Works
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-08-2022
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	HENRY KOYAMATSU, TECHNICAL STAFF
Eval Division:	Los Angeles County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-11-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	230-C CTES O'DUE SINCE 2/18/16;DONE 3/11/16.177-B LAST CTLS 6/8/15; ACCESS PROVIDED.SB989 BOTH USTS 6/23/14.MINOR CERS CORRS PROVIDED...
Eval Division:	Los Angeles County Department of Public Works
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-18-2019
Violations Found:	No

JET PROPULSION LABORATORY (Continued) **U003159486**

Eval Type:	Routine done by local agency
Eval Notes:	Henry Koyamatsu, Environmental Engineer
Eval Division:	Los Angeles County Fire Department
Eval Program:	HWLQG
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	03-21-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	Los Angeles County Fire Department
Eval Program:	APSA
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-18-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Henry Koyamatsu, Environmental Engineer
Eval Division:	Los Angeles County Fire Department
Eval Program:	CE
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-27-2007
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Inspector Name: ROUTINE INSPECTION
Eval Division:	Los Angeles County Fire Department
Eval Program:	HWLQG
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-31-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	HENRY KOYAMATSU
Eval Division:	Los Angeles County Fire Department
Eval Program:	CE
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-15-2021
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	NOVC:CERS;87 001 SENSOR NOT SETUP PER VEEDER ROOT;87 DO TRAIN O/DUE; DSL:DO RPT LIST WRONG OVFL DATE;BOTH:DO LATE,NO FOLLOW-UP
Eval Division:	Los Angeles County Department of Public Works
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	08-26-2021
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST REMOVAL NOT OBS(2 SAMPLE LOC DISCUSSD);SAMPLE/5035 OBS@UDC(2FT)&

JET PROPULSION LABORATORY (Continued) **U003159486**

PIPE(2FT UNDER);CONCRETE/SOME PIPE REMAIN,SEE RPT.NO OBS CONTAMINATE
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-28-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: NOVC:OVERFILL PREVENTION-INSPECTION REPORT NOT RECEIVED ON TIME, AND DIESEL TANK REQUIRES FLAPPER, 87-GAS MAY REQUIRE FLAPPER ALSO.
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-31-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: NOVC:CERS CORR(MONITORING PLAN); MONTHLY DO INSPECTIONS DID NOT HAVE ALARM PRINTOUT ATTACHED, DAILY INSPECTION NOT BEING DONE FOR EGT.
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-08-2022
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HENRY KOYAMATSU, TECHNICAL STAFF
Eval Division: Los Angeles County Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-08-2022
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HENRY KOYAMATSU, TECHNICAL STAFF
Eval Division: Los Angeles County Fire Department
Eval Program: HWLQG
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-31-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HENRY KOYAMATSU SPCC Available on site.
Eval Division: Los Angeles County Fire Department
Eval Program: APSA
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-31-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Henry koyamatsu-Env. Eng

JET PROPULSION LABORATORY (Continued) **U003159486**

Eval Division:	Los Angeles County Fire Department
Eval Program:	HWLQG
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	02-09-2017
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	ONE OF THE TWO TANKS BEING CERTIFIED, BOTH TANKS PASSED INSPECTION ,ONE CORRECTION TO CERS, CORRECTED DURING INSPECTION
Eval Division:	Los Angeles County Department of Public Works
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-18-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Henry Koyamatsu, Environmental Engineer
Eval Division:	Los Angeles County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-31-2016
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Henry Koyamatsu
Eval Division:	Los Angeles County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-16-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	NOVC: OVERFILL INSP RQRD PER A923130; OPEN V#913937: INSTALL MECH FLAPPR VALVE(DIESEL UST) & 87 UST MAY REQ FLPPR VALVE;RCRDS ONSITE
Eval Division:	Los Angeles County Department of Public Works
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Other/Unknown
Eval Date:	08-11-2021
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	E-GEN UST:ONLY 1 PRODUCT LINE(DW SUPPLY).SW FG LINE=VENT.DAY TANK W/ 90% ALARM/OFF;UST RETURN LINE CAPPED INSIDE.SUPPLY,RETURN TO E-GEN.
Eval Division:	Los Angeles County Department of Public Works
Eval Program:	UST
Eval Source:	CERS,
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	08-24-2011
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported

JET PROPULSION LABORATORY (Continued) **U003159486**

Eval Division: Los Angeles County Fire Department
Eval Program: HWLQG
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-26-2022
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: NOVC:DO LATE 1/10/22(PRIOR 12/2/21);**GEN ROOM ABOVEGROUND PIPE LEAK ..REPAIRS SCHEDULED(NEED W.O.)|CERS,SUMPS DRY,MONTHLY INSP,ALL DOC
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-18-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: NOV-SCTR DONE 022414 ON DSL TANK-DID NOT TEST SEC PIPING,CERS UPDATE REQ,CTES-022014-DSL,CTLS-061214-GAS,SCTR-022014-DSL,062314-GAS
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-08-2022
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HENRY KOYAMATSU, TECHNICAL STAFF
Eval Division: Los Angeles County Fire Department
Eval Program: CE
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-18-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Henry Koyamatsu, Environmental Engineer
Eval Division: Los Angeles County Fire Department
Eval Program: APSA
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 4800 OAK GROVE DR MS 190-112
Affiliation City: PASADENA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91109
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: NATIONAL AERONAUTICS & SPACE
Entity Title: Not reported
Affiliation Address: 4800 OAK GROVE DR, MS 171-225

JET PROPULSION LABORATORY (Continued) **U003159486**

Affiliation City:	PASADENA
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91109
Affiliation Phone:	(202) 453-8910,
Affiliation Type Desc:	Property Owner
Entity Name:	NATIONAL AERONAUTICS & SPACE
Entity Title:	Not reported
Affiliation Address:	4800 OAK GROVE DR
Affiliation City:	PASADENA
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91109
Affiliation Phone:	(202) 453-8910,
Affiliation Type Desc:	Identification Signer
Entity Name:	David Larriva
Entity Title:	Safety and Health Professional
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Onsite Treatment Unit Owner Operator
Entity Name:	Mark Araki
Entity Title:	Environmental Engineer
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Onsite Treatment Unit Owner Operator
Entity Name:	Sharon Harriman
Entity Title:	Environmental Engineer
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	Larry James
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(818) 354-3400,
Affiliation Type Desc:	Parent Corporation

JET PROPULSION LABORATORY (Continued) **U003159486**

Entity Name: Jet Propulsion Laboratory
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: CUPA District
Entity Name: Los Angeles County Fire
Entity Title: Not reported
Affiliation Address: 5825 Rickenbacker Road
Affiliation City: Commerce
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90040-3027
Affiliation Phone: (323) 890-4000,

Affiliation Type Desc: Environmental Contact
Entity Name: CHARLES BURIL
Entity Title: Not reported
Affiliation Address: 4800 OAK GROVE DR, MS 171-225
Affiliation City: PASADENA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91109
Affiliation Phone: ,

Affiliation Type Desc: UST Permit Applicant
Entity Name: Charles Buril
Entity Title: Manager; JPL/EAPO
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (818) 354-0180,

Affiliation Type Desc: UST Tank Operator
Entity Name: JPL (ATTN: Charles Buril)
Entity Title: Not reported
Affiliation Address: 4800 Oak Grove Drive (mail stop:171-225)
Affiliation City: Pasadena
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91109
Affiliation Phone: (818) 354-0180,

Affiliation Type Desc: UST Tank Owner
Entity Name: NASA (ATTN: Steve Slaten)
Entity Title: Not reported
Affiliation Address: 4800 Oak Grove Drive (mail stop:180-801)
Affiliation City: Pasadena
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91109

JET PROPULSION LABORATORY (Continued) **U003159486**

Affiliation Phone: (818) 393-6683,

Affiliation Type Desc: Document Preparer
Entity Name: David Larriva
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: UST Property Owner Name
Entity Name: NASA (ATTN: Steve Slaten)
Entity Title: Not reported
Affiliation Address: 4800 Oak Grove Drive (mail stop:180-801)
Affiliation City: Pasadena
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91109
Affiliation Phone: (818) 393-6683,

Name: JPL FIEF BLDG
Address: 4800 OAK GROVE DR
City,State,Zip: PASADENA, CA 91109
Site ID: 592636
CERS ID: 894586
CERS Description: Construction Storm Water

Affiliation:
Affiliation Type Desc: Owner/Operator
Entity Name: Jet Propulsion Laboratory
Entity Title: Operator
Affiliation Address: 4800 Oak Grove DriveMS 171 225
Affiliation City: Pasadena
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91109
Affiliation Phone: ,

Count: 0 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/09/2023
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/09/2023
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: N/A
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/09/2023
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 09/06/2022
Next Scheduled EDR Contact: 01/10/2023
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/19/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 71

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/03/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/14/2022
Date Data Arrived at EDR: 06/15/2022
Date Made Active in Reports: 06/21/2022
Number of Days to Update: 6

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/20/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 07/25/2022
Date Data Arrived at EDR: 07/25/2022
Date Made Active in Reports: 10/05/2022
Number of Days to Update: 72

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/25/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 07/25/2022
Date Data Arrived at EDR: 07/25/2022
Date Made Active in Reports: 10/05/2022
Number of Days to Update: 72

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/25/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/09/2022
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 81

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/08/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/14/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 06/02/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 79

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/11/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/28/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 1
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 88

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 09/27/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 06/01/2022
Date Data Arrived at EDR: 06/09/2022
Date Made Active in Reports: 08/26/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/06/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/24/2022
Number of Days to Update: 78

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 09/07/2022
Next Scheduled EDR Contact: 12/26/2022
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 06/02/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 79

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/07/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/14/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/20/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/28/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/11/2022
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/16/2022
Number of Days to Update: 64

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 06/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 07/25/2022
Date Data Arrived at EDR: 07/25/2022
Date Made Active in Reports: 10/05/2022
Number of Days to Update: 72

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/25/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/13/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 06/21/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 09/08/2022
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/09/2022
Next Scheduled EDR Contact: 12/26/2022
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 06/06/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/23/2022
Number of Days to Update: 77

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 08/12/2022
Date Data Arrived at EDR: 08/16/2022
Date Made Active in Reports: 08/26/2022
Number of Days to Update: 10

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176
Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 04/30/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 66
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/18/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21
Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 07/25/2022
Date Data Arrived at EDR: 07/25/2022
Date Made Active in Reports: 10/05/2022
Number of Days to Update: 72
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/25/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs
A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78
Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 09/27/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites
Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27
Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 07/18/2022
Date Data Arrived at EDR: 07/18/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 74

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 04/30/2022
Date Data Arrived at EDR: 05/24/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 66

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/18/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Quarterly

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 12/10/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 09/06/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 06/06/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/24/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 05/05/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/21/2022
Number of Days to Update: 76

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 07/18/2022
Date Data Arrived at EDR: 07/18/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 74

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 05/25/2022
Date Data Arrived at EDR: 05/26/2022
Date Made Active in Reports: 08/11/2022
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/09/2023
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 05/31/2022
Date Data Arrived at EDR: 05/31/2022
Date Made Active in Reports: 08/18/2022
Number of Days to Update: 79

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 08/25/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/19/2022
Date Data Arrived at EDR: 09/19/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 11

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 06/30/2022
Date Data Arrived at EDR: 07/18/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 74

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 1

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 05/24/2022
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 06/28/2022
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 08/11/2022
Date Data Arrived at EDR: 08/11/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 50

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/03/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/03/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/20/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/20/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/29/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/04/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/12/2022
Next Scheduled EDR Contact: 12/26/2022
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82
Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/18/2022
Date Data Arrived at EDR: 07/18/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 11
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20
Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/27/2022
Date Data Arrived at EDR: 05/04/2022
Date Made Active in Reports: 05/10/2022
Number of Days to Update: 6
Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/14/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35
Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 29
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 64
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/06/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 09/27/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/10/2022
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 69
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 84
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 08/25/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 08/25/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/04/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 09/21/2022
Next Scheduled EDR Contact: 01/10/2023
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 06/30/2022
Date Data Arrived at EDR: 07/21/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 71

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/27/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/06/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/24/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/26/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 20

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/09/2023
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 08/01/2022
Date Data Arrived at EDR: 08/02/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 59

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 10/04/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/03/2022
Date Data Arrived at EDR: 08/17/2022
Date Made Active in Reports: 08/31/2022
Number of Days to Update: 14

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 06/14/2022
Date Data Arrived at EDR: 06/15/2022
Date Made Active in Reports: 08/22/2022
Number of Days to Update: 68

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/13/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 05/13/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 13

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 08/25/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 06/25/2022
Date Data Arrived at EDR: 07/01/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 91

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 09/30/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 34
Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/22/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/11/2022
Date Data Arrived at EDR: 08/11/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 50
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 06/21/2022
Date Data Arrived at EDR: 06/21/2022
Date Made Active in Reports: 09/08/2022
Number of Days to Update: 79
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 12/07/2021
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 05/17/2022
Number of Days to Update: 8
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/27/2021
Date Data Arrived at EDR: 09/01/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 79

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 09/07/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Annually

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 05/25/2022
Date Data Arrived at EDR: 05/26/2022
Date Made Active in Reports: 08/11/2022
Number of Days to Update: 77

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 05/20/2022
Date Data Arrived at EDR: 05/20/2022
Date Made Active in Reports: 08/09/2022
Number of Days to Update: 81

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/13/2022
Date Made Active in Reports: 08/30/2022
Number of Days to Update: 78

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/16/2022
Next Scheduled EDR Contact: 12/26/2022
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 07/12/2022
Date Data Arrived at EDR: 07/18/2022
Date Made Active in Reports: 09/29/2022
Number of Days to Update: 73

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 07/06/2022
Date Data Arrived at EDR: 07/21/2022
Date Made Active in Reports: 10/03/2022
Number of Days to Update: 74

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/21/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/09/2022
Date Data Arrived at EDR: 08/10/2022
Date Made Active in Reports: 08/30/2022
Number of Days to Update: 20

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 07/05/2022
Date Made Active in Reports: 09/19/2022
Number of Days to Update: 76

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 09/27/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/17/2022
Date Made Active in Reports: 08/03/2022
Number of Days to Update: 78

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/17/2022
Date Made Active in Reports: 08/03/2022
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/11/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/05/2022
Date Data Arrived at EDR: 07/05/2022
Date Made Active in Reports: 09/19/2022
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 10/03/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 06/06/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/23/2022
Number of Days to Update: 77

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 05/06/2022
Date Data Arrived at EDR: 05/31/2022
Date Made Active in Reports: 08/18/2022
Number of Days to Update: 79

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 08/25/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 05/09/2022
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 07/29/2022
Number of Days to Update: 81

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/08/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 05/31/2022
Date Data Arrived at EDR: 05/31/2022
Date Made Active in Reports: 08/18/2022
Number of Days to Update: 79

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 08/25/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 06/06/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/23/2022
Number of Days to Update: 77

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 06/10/2022
Date Data Arrived at EDR: 06/10/2022
Date Made Active in Reports: 08/26/2022
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 09/07/2022
Next Scheduled EDR Contact: 12/26/2022
Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 06/06/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/23/2022
Number of Days to Update: 77

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 10/06/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 09/13/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 06/06/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/24/2022
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 08/16/2022
Date Data Arrived at EDR: 08/17/2022
Date Made Active in Reports: 08/18/2022
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 07/18/2022
Date Data Arrived at EDR: 07/18/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 74

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 05/23/2022
Date Data Arrived at EDR: 05/23/2022
Date Made Active in Reports: 06/02/2022
Number of Days to Update: 10

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/05/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 04/26/2022
Number of Days to Update: 21

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 10/03/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Varies

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 09/28/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 09/28/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/28/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Semi-Annually

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 08/17/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 09/27/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 06/29/2022
Date Data Arrived at EDR: 06/29/2022
Date Made Active in Reports: 07/21/2022
Number of Days to Update: 22

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 09/27/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List

Cupa Facility List

Date of Government Version: 07/22/2022
Date Data Arrived at EDR: 07/27/2022
Date Made Active in Reports: 08/01/2022
Number of Days to Update: 5

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 09/27/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 06/14/2022
Date Data Arrived at EDR: 06/15/2022
Date Made Active in Reports: 09/02/2022
Number of Days to Update: 79

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 09/27/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 07/20/2022
Date Data Arrived at EDR: 07/20/2022
Date Made Active in Reports: 10/03/2022
Number of Days to Update: 75

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 05/04/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 83

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/08/2022
Date Data Arrived at EDR: 08/09/2022
Date Made Active in Reports: 09/01/2022
Number of Days to Update: 23

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/20/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 09/30/2022
Next Scheduled EDR Contact: 01/09/2023
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 07/13/2022
Date Data Arrived at EDR: 07/14/2022
Date Made Active in Reports: 09/29/2022
Number of Days to Update: 77

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 05/06/2022
Date Data Arrived at EDR: 05/12/2022
Date Made Active in Reports: 08/01/2022
Number of Days to Update: 81

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 09/21/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 05/06/2022
Date Data Arrived at EDR: 05/12/2022
Date Made Active in Reports: 08/01/2022
Number of Days to Update: 81

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 09/21/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 07/22/2022
Date Data Arrived at EDR: 07/25/2022
Date Made Active in Reports: 10/05/2022
Number of Days to Update: 72

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/04/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 09/07/2022
Next Scheduled EDR Contact: 12/26/2022
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/06/2022
Date Data Arrived at EDR: 07/07/2022
Date Made Active in Reports: 09/21/2022
Number of Days to Update: 76

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 09/27/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/11/2022
Date Data Arrived at EDR: 07/11/2022
Date Made Active in Reports: 09/23/2022
Number of Days to Update: 74

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/07/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 01/21/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 80

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 10/04/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/19/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 01/10/2022
Date Data Arrived at EDR: 01/12/2022
Date Made Active in Reports: 04/04/2022
Number of Days to Update: 82

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 10/04/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 01/13/2022
Date Data Arrived at EDR: 03/21/2022
Date Made Active in Reports: 06/15/2022
Number of Days to Update: 86

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/20/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 03/22/2022
Date Data Arrived at EDR: 06/24/2022
Date Made Active in Reports: 09/08/2022
Number of Days to Update: 76

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/20/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 05/26/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/14/2022
Next Scheduled EDR Contact: 10/24/2022
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 10/04/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/22/2022
Date Data Arrived at EDR: 07/19/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 73

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 09/21/2022
Next Scheduled EDR Contact: 01/10/2023
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 08/16/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/15/2022
Date Data Arrived at EDR: 02/17/2022
Date Made Active in Reports: 05/11/2022
Number of Days to Update: 83

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/15/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 10/04/2022
Next Scheduled EDR Contact: 01/10/2023
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/15/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/15/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/21/2022
Date Data Arrived at EDR: 07/25/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 3

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/19/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/29/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 08/03/2022
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/29/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/08/2022
Date Data Arrived at EDR: 05/03/2022
Date Made Active in Reports: 07/20/2022
Number of Days to Update: 78

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/01/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 05/25/2022
Date Data Arrived at EDR: 05/26/2022
Date Made Active in Reports: 06/01/2022
Number of Days to Update: 6

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 07/07/2022
Date Data Arrived at EDR: 07/08/2022
Date Made Active in Reports: 09/21/2022
Number of Days to Update: 75

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/07/2022
Next Scheduled EDR Contact: 12/26/2022
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 07/07/2022
Date Data Arrived at EDR: 07/08/2022
Date Made Active in Reports: 09/21/2022
Number of Days to Update: 75
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/07/2022
Next Scheduled EDR Contact: 12/26/2022
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 06/18/2021
Date Data Arrived at EDR: 09/28/2021
Date Made Active in Reports: 12/14/2021
Number of Days to Update: 77
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 09/30/2022
Next Scheduled EDR Contact: 01/09/2023
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/04/2022
Date Data Arrived at EDR: 06/30/2022
Date Made Active in Reports: 07/05/2022
Number of Days to Update: 5
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 09/26/2022
Next Scheduled EDR Contact: 01/10/2023
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 04/29/2022
Date Data Arrived at EDR: 04/29/2022
Date Made Active in Reports: 05/05/2022
Number of Days to Update: 6
Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 05/12/2022
Date Data Arrived at EDR: 05/12/2022
Date Made Active in Reports: 05/18/2022
Number of Days to Update: 6
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/31/2022
Date Data Arrived at EDR: 05/31/2022
Date Made Active in Reports: 08/18/2022
Number of Days to Update: 79

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 08/25/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/27/2021
Date Data Arrived at EDR: 03/04/2022
Date Made Active in Reports: 05/31/2022
Number of Days to Update: 88

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 05/05/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 83

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 05/05/2022
Date Data Arrived at EDR: 05/06/2022
Date Made Active in Reports: 07/20/2022
Number of Days to Update: 75

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Quarterly

SAN FRANCISO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing
a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 01/18/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 04/27/2022
Number of Days to Update: 97

Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 10/07/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 09/07/2022
Next Scheduled EDR Contact: 12/26/2022
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 08/04/2022
Number of Days to Update: 78

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/09/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 08/29/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 05/16/2022
Date Data Arrived at EDR: 05/18/2022
Date Made Active in Reports: 08/04/2022
Number of Days to Update: 78

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 08/15/2022
Next Scheduled EDR Contact: 12/05/2022
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/09/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 09/13/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/13/2022
Next Scheduled EDR Contact: 01/02/2023
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/10/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 10/04/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 05/03/2022
Date Data Arrived at EDR: 05/27/2022
Date Made Active in Reports: 08/11/2022
Number of Days to Update: 76

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 08/23/2022
Next Scheduled EDR Contact: 12/12/2022
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 07/26/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 07/13/2022
Date Data Arrived at EDR: 07/14/2022
Date Made Active in Reports: 09/29/2022
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/13/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 04/26/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 11/14/2022
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 07/12/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 05/26/2022
Date Data Arrived at EDR: 07/21/2022
Date Made Active in Reports: 09/30/2022
Number of Days to Update: 71

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/21/2022
Next Scheduled EDR Contact: 01/10/2023
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 05/26/2022
Date Data Arrived at EDR: 07/25/2022
Date Made Active in Reports: 10/05/2022
Number of Days to Update: 72

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/18/2022
Next Scheduled EDR Contact: 10/31/2022
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/26/2022
Date Data Arrived at EDR: 06/07/2022
Date Made Active in Reports: 08/24/2022
Number of Days to Update: 78

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/31/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 06/22/2022
Date Data Arrived at EDR: 06/30/2022
Date Made Active in Reports: 09/14/2022
Number of Days to Update: 76

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 09/21/2022
Next Scheduled EDR Contact: 01/10/2023
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 05/03/2022
Date Data Arrived at EDR: 05/05/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 84

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 08/02/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/08/2022
Date Data Arrived at EDR: 05/09/2022
Date Made Active in Reports: 07/28/2022
Number of Days to Update: 80

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/08/2022
Next Scheduled EDR Contact: 11/21/2022
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/03/2022
Next Scheduled EDR Contact: 01/16/2023
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/29/2022
Next Scheduled EDR Contact: 11/07/2022
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/05/2022
Next Scheduled EDR Contact: 01/23/2023
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/10/2022
Next Scheduled EDR Contact: 11/28/2022
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 08/29/2022
Next Scheduled EDR Contact: 12/19/2022
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

PARADISE CANYON ELEMENTARY SCHOOL
471 KNIGHT WAY
LA CANADA FLINTRIDGE, CA 91011

TARGET PROPERTY COORDINATES

Latitude (North):	34.208896 - 34ˆ 12’ 32.03’’
Longitude (West):	118.187717 - 118ˆ 11’ 15.78’’
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	390580.8
UTM Y (Meters):	3785761.0
Elevation:	1315 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	12021711 PASADENA, CA
Version Date:	2018

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

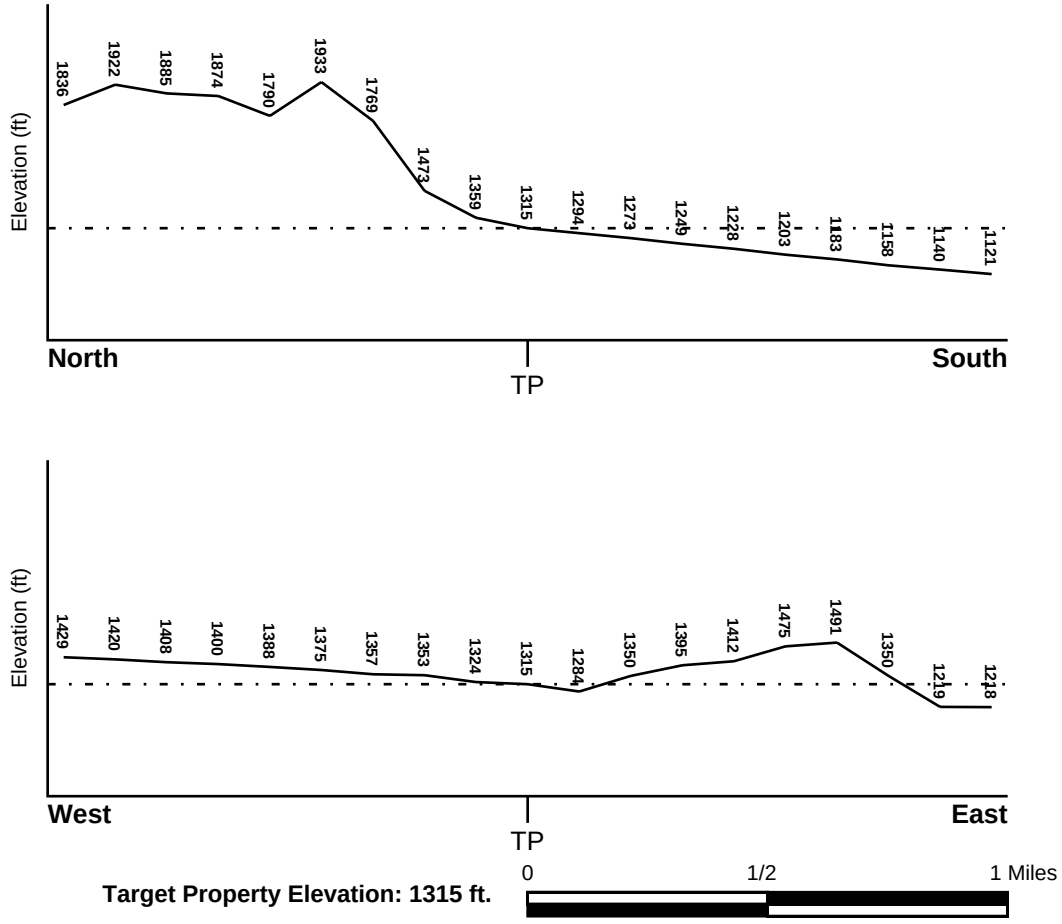
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 1315 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C1375F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
Not Reported	

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
PASADENA	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	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							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
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 subordinant soil types may appear within the general area of target property.

Soil Surface Textures:
sandy loam
gravelly - sandy loam
silt loam
clay
fine sand
gravelly - sand
sand
fine sandy loam

Surficial Soil Types:
sandy loam
gravelly - sandy loam
silt loam
clay
fine sand
gravelly - sand
sand
fine sandy loam

Shallow Soil Types:
fine sandy loam
gravelly - loam
sandy clay
sandy clay loam
clay
silty clay
sand

Deeper Soil Types:
gravelly - sandy loam
sandy loam
very gravelly - sandy loam
stratified
very fine sandy loam
weathered bedrock
sand
gravelly - fine sandy loam
silty clay loam
clay 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
A5	USGS40000142467	1/2 - 1 Mile South
A9	USGS40000142466	1/2 - 1 Mile South

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
41	CA1910054	1/2 - 1 Mile West

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

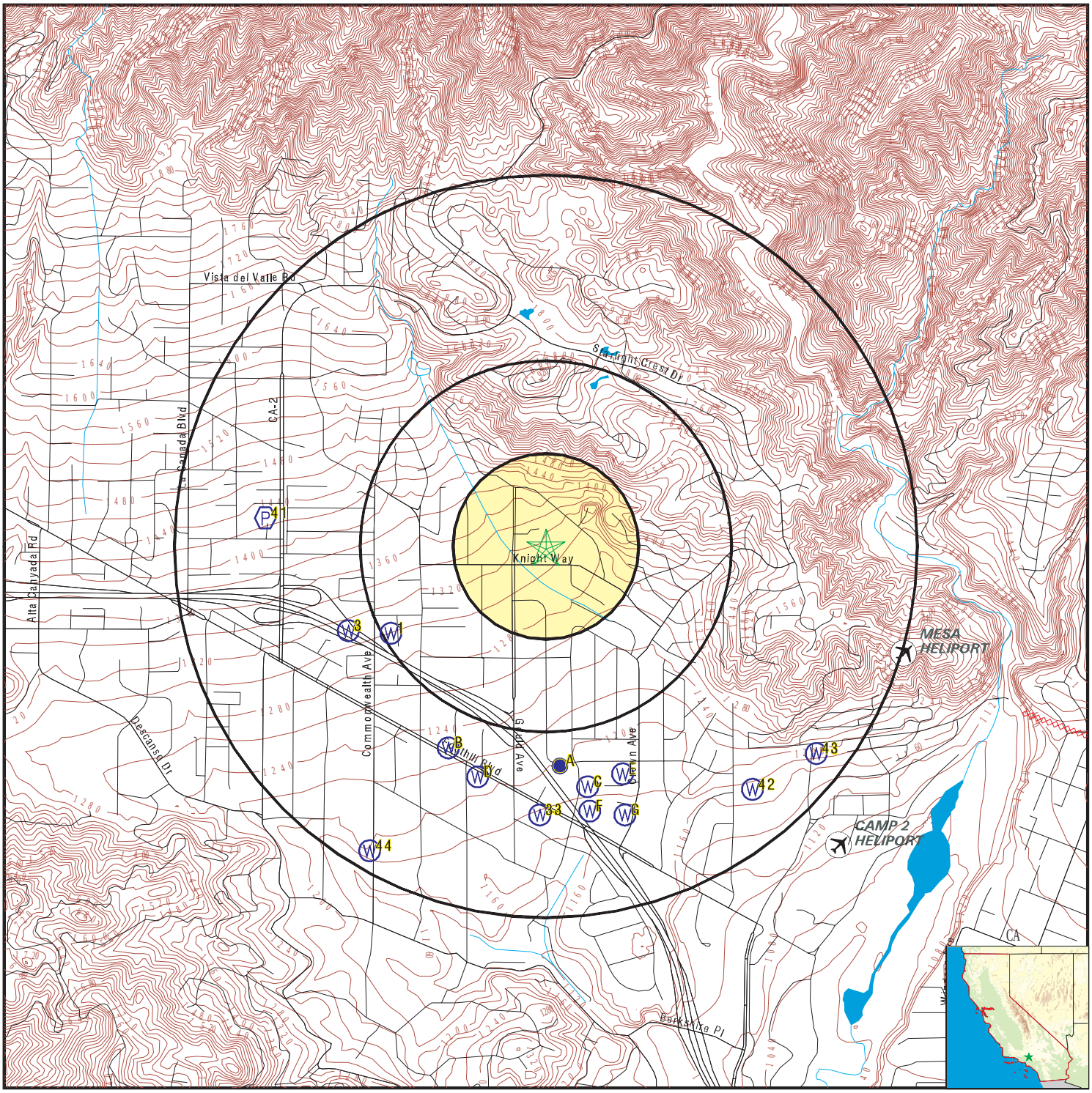
MAP ID	WELL ID	LOCATION FROM TP
1	CADWR9000007612	1/4 - 1/2 Mile WSW
A2	501	1/2 - 1 Mile South
3	CADWR0000026467	1/2 - 1 Mile WSW
B4	CAEDF0000106674	1/2 - 1 Mile SSW
B6	CAEDF0000017253	1/2 - 1 Mile SSW
B7	CAEDF0000081779	1/2 - 1 Mile SSW
A8	CADDW0000020316	1/2 - 1 Mile South
B10	CAEDF0000116352	1/2 - 1 Mile SSW
A11	CADDW0000018908	1/2 - 1 Mile South
B12	CAEDF0000125762	1/2 - 1 Mile SSW
C13	CADDW0000010570	1/2 - 1 Mile South
D14	CAEDF0000118857	1/2 - 1 Mile SSW
D15	CAEDF0000038374	1/2 - 1 Mile SSW
D16	CAEDF0000019051	1/2 - 1 Mile SSW
D17	CAEDF0000000212	1/2 - 1 Mile SSW
E18	447	1/2 - 1 Mile SSE
E19	448	1/2 - 1 Mile SSE
E20	22931	1/2 - 1 Mile SSE
E21	446	1/2 - 1 Mile SSE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
E22	451	1/2 - 1 Mile SSE
E23	500	1/2 - 1 Mile SSE
E24	449	1/2 - 1 Mile SSE
E25	450	1/2 - 1 Mile SSE
D26	CAEDF0000004579	1/2 - 1 Mile SSW
D27	CAEDF0000095501	1/2 - 1 Mile SSW
D28	CAEDF0000085785	1/2 - 1 Mile SSW
D29	CAEDF0000071191	1/2 - 1 Mile SSW
E30	CADDW0000013412	1/2 - 1 Mile SSE
C31	CADDW0000015485	1/2 - 1 Mile South
F32	CADDW0000016991	1/2 - 1 Mile South
33	CADWR0000020462	1/2 - 1 Mile South
F34	CADDW0000017886	1/2 - 1 Mile South
G35	CADWR0000007319	1/2 - 1 Mile SSE
G36	CADWR0000007290	1/2 - 1 Mile SSE
G37	CADWR0000012150	1/2 - 1 Mile SSE
G38	CADWR0000000098	1/2 - 1 Mile SSE
G39	CADWR0000023999	1/2 - 1 Mile SSE
G40	CADWR0000026454	1/2 - 1 Mile SSE
42	CADWR9000007578	1/2 - 1 Mile SE
43	CADWR9000007586	1/2 - 1 Mile SE
44	CADWR9000007565	1/2 - 1 Mile SSW

PHYSICAL SETTING SOURCE MAP - 7144104.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Paradise Canyon Elementary School	CLIENT:	Leighton Consulting
ADDRESS:	471 Knight Way La Canada Flintridge CA 91011	CONTACT:	Zachary Freeman
LAT/LONG:	34.208896 / 118.187717	INQUIRY #:	7144104.2s
		DATE:	October 11, 2022 2:24 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database	EDR ID Number
CA WELLS	CADWR9000007612

1
WSW
1/4 - 1/2 Mile
Lower

State Well #:	01N13W01B001S	Station ID:	48969
Well Name:	F-3LC	Basin Name:	Raymond
Well Use:	Observation	Well Type:	Single Well
Well Depth:	195	Well Completion Rpt #:	Not Reported

Database	EDR ID Number
CA WELLS	501

A2
South
1/2 - 1 Mile
Lower

Seq:	501	Prim sta c:	01N/13W-01J02 S
Frds no:	1910054003	County:	19
District:	07	User id:	4TH
System no:	1910054	Water type:	G
Source nam:	WELL 06	Station ty:	WELL/AMBNT
Latitude:	341203.0	Longitude:	1181110.0
Precision:	3	Status:	AR
Comment 1:	VIENETA & BAPTISTE	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910054	System nam:	La Canada Irrigation Dist.
Hqname:	Not Reported	Address:	P.O. BOX 39
City:	LA CANADA	State:	CA
Zip:	91012	Zip ext:	0039
Pop serv:	9300	Connection:	2830
Area serve:	LA CANADA -FLINTRDG		

Sample date:	05-JUN-17	Finding:	820.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		

Sample date:	05-JUN-17	Finding:	10.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	05-JUN-17	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	12-MAR-17	Finding:	830.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		

Sample date:	12-MAR-17	Finding:	0.31
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Sample date:	12-MAR-17	Finding:	10.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	12-MAR-17	Finding:	0.93
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-DEC-16	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-DEC-16	Finding:	0.55
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-DEC-16	Finding:	26.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	12-DEC-16	Finding:	740.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	12-DEC-16	Finding:	10.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-DEC-16	Finding:	4.9
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	12-SEP-16	Finding:	8.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-SEP-16	Finding:	1.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-SEP-16	Finding:	0.73
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-SEP-16	Finding:	1300.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	07-JUL-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-JUN-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	20-JUN-16	Finding:	3.6
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	20-JUN-16	Finding:	29.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	20-JUN-16	Finding:	1000.
Chemical:	IRON	Report units:	UG/L

Dlr:	100.		
Sample date:	20-JUN-16	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-MAR-16	Finding:	0.78
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-MAR-16	Finding:	9.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-DEC-15	Finding:	8.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-DEC-15	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-DEC-15	Finding:	220.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	07-DEC-15	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-DEC-15	Finding:	11.89
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-DEC-15	Finding:	3.7
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	07-DEC-15	Finding:	54.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-DEC-15	Finding:	5.e-002
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-DEC-15	Finding:	0.66
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-DEC-15	Finding:	550.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	07-DEC-15	Finding:	0.94
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-DEC-15	Finding:	0.23
Chemical:	FOAMING AGENTS (MBAS)	Report units:	MG/L
Dlr:	0.		

Sample date:	07-DEC-15	Finding:	9.9
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	07-DEC-15	Finding:	340.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	07-DEC-15	Finding:	110.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	07-DEC-15	Finding:	0.33
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	07-DEC-15	Finding:	84.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	07-DEC-15	Finding:	62.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	07-DEC-15	Finding:	20.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	07-DEC-15	Finding:	7.5
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	07-DEC-15	Finding:	760.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	07-DEC-15	Finding:	7.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	07-DEC-15	Finding:	180.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-DEC-15	Finding:	12.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-DEC-15	Finding:	350.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	07-DEC-15	Finding:	89.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-DEC-15	Finding:	30.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	07-DEC-15	Finding:	34.
Chemical:	SODIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	07-DEC-15	Finding:	2.7
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	28-SEP-15	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-SEP-15	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-JUL-15	Finding:	0.592
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-JUL-15	Finding:	3.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-JUL-15	Finding:	0.47
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Report units:	PCI/L	Dlr:	0.
Sample date:	13-JUL-15	Finding:	0.144
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-JUL-15	Finding:	0.2
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-JUL-15	Finding:	9.5
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	13-JUL-15	Finding:	5.2e-002
Chemical:	RADIUM 228	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-JUL-15	Finding:	8.3e-002
Chemical:	RADIUM 226	Report units:	PCI/L
Dlr:	1.		
Sample date:	13-JUL-15	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-JUL-15	Finding:	2.6
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-JUL-15	Finding:	1.2
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	13-JUL-15	Finding:	6.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	08-JUN-15	Finding:	0.86
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-JUN-15	Finding:	38.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	09-MAR-15	Finding:	0.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-MAR-15	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-DEC-14	Finding:	34.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-DEC-14	Finding:	45.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-DEC-14	Finding:	0.97
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-DEC-14	Finding:	0.52
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-SEP-14	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-SEP-14	Finding:	0.64
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-SEP-14	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-SEP-14	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-JUN-14	Finding:	0.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-JUN-14	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-MAR-14	Finding:	33.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-MAR-14	Finding:	0.63
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	17-MAR-14	Finding:	1.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-DEC-13	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	30-DEC-13	Finding:	0.84
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	16-SEP-13	Finding:	2.
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	09-SEP-13	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-JUN-13	Finding:	0.81
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-JUN-13	Finding:	33.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-MAR-13	Finding:	0.61
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-MAR-13	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-JAN-13	Finding:	31.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-DEC-12	Finding:	12.13
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	17-DEC-12	Finding:	0.7
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	17-DEC-12	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-DEC-12	Finding:	0.3
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	17-DEC-12	Finding:	0.9
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		

Sample date:	17-DEC-12	Finding:	430.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	17-DEC-12	Finding:	0.89
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-DEC-12	Finding:	0.1
Chemical:	FOAMING AGENTS (MBAS)	Report units:	MG/L
Dlr:	0.		
Sample date:	17-DEC-12	Finding:	170.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	17-DEC-12	Finding:	0.43
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	17-DEC-12	Finding:	67.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	17-DEC-12	Finding:	57.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	17-DEC-12	Finding:	2.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	17-DEC-12	Finding:	29.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	17-DEC-12	Finding:	24.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	17-DEC-12	Finding:	75.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	17-DEC-12	Finding:	280.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	17-DEC-12	Finding:	220.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	17-DEC-12	Finding:	180.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	17-DEC-12	Finding:	7.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	17-DEC-12	Finding:	20.
Chemical:	SOURCE TEMPERATURE C	Report units:	C

Dlr:	0.		
Sample date:	17-DEC-12	Finding:	10000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-DEC-12	Finding:	720.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	09-OCT-12	Finding:	0.439
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Report units:	PCI/L	Dlr:	0.
Sample date:	09-OCT-12	Finding:	0.217
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-OCT-12	Finding:	0.235
Chemical:	RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0		
Report units:	PCI/L	Dlr:	0.
Sample date:	09-OCT-12	Finding:	0.248
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-OCT-12	Finding:	0.662
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-OCT-12	Finding:	2.1
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-OCT-12	Finding:	1.1
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-OCT-12	Finding:	7.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	09-OCT-12	Finding:	3.
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	09-OCT-12	Finding:	0.87
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	24-SEP-12	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-SEP-12	Finding:	0.82
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-SEP-12	Finding:	2.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	30-AUG-12	Finding:	0.87
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-AUG-12	Finding:	2.1
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-AUG-12	Finding:	0.98
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-AUG-12	Finding:	5.6
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	30-AUG-12	Finding:	3.3
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	30-JUN-12	Finding:	0.86
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-MAR-12	Finding:	32.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-MAR-12	Finding:	0.68
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

3
WSW **CA WELLS** **CADWR0000026467**
1/2 - 1 Mile
Lower

Well ID:	01N13W01C001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01N13W01C001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01N13W01C001S&store_num=		
GeoTracker Data:	Not Reported		

B4
SSW **CA WELLS** **CAEDF0000106674**
1/2 - 1 Mile
Lower

Well ID:	T10000003396-MW-2	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-2
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T10000003396&assigned_name=MW-2&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000003396&assigned_name=MW-2		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
A5 **South** **1/2 - 1 Mile** **Lower**	**FED USGS**	**USGS40000142467**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001N013W01J001S	Type:	Well
Description:	Not Reported	HUC:	18070105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	550
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

B6 **SSW** **1/2 - 1 Mile** **Lower**		**CA WELLS**	**CAEDF0000017253**
Well ID:	T10000003396-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T10000003396&assigned_name=MW-1&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000003396&assigned_name=MW-1		

B7 **SSW** **1/2 - 1 Mile** **Lower**		**CA WELLS**	**CAEDF0000081779**
Well ID:	T10000003396-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T10000003396&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000003396&assigned_name=MW-3		

A8 **South** **1/2 - 1 Mile** **Lower**		**CA WELLS**	**CADDW0000020316**
Well ID:	1910054-002	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 01 - INACTIVE	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1910054-002&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A9
South
1/2 - 1 Mile
Lower

FED USGS **USGS40000142466**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001N012W06M005S	Type:	Well
Description:	Not Reported	HUC:	18070105
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	California Coastal Basin aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	492
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

B10
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000116352**

Well ID:	T10000003396-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T10000003396&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000003396&assigned_name=MW-5		

A11
South
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000018908**

Well ID:	1910054-003	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 06	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1910054-003&store_num=		
GeoTracker Data:	Not Reported		

B12
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000125762**

Well ID:	T10000003396-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T10000003396&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T10000003396&assigned_name=MW-4		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C13
South
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000010570**

Well ID:	1910166-004	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 03	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1910166-004&store_num=		
GeoTracker Data:	Not Reported		

D14
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000118857**

Well ID:	T0603763485-MW-3	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-3
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0603763485&assigned_name=MW-3&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0603763485&assigned_name=MW-3		

D15
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000038374**

Well ID:	T0603763485-MW-6	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-6
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0603763485&assigned_name=MW-6&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0603763485&assigned_name=MW-6		

D16
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000019051**

Well ID:	T0603763485-MW-4	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-4
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0603763485&assigned_name=MW-4&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0603763485&assigned_name=MW-4		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D17
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000000212**

Well ID:	T0603763485-MW-7	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-7
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0603763485&assigned_name=MW-7&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0603763485&assigned_name=MW-7		

E18
SSE
1/2 - 1 Mile
Lower

CA WELLS **447**

Seq:	447	Prim sta c:	01N/12W-06M02 S
Frds no:	1910166001	County:	19
District:	07	User id:	4TH
System no:	1910166	Water type:	G
Source nam:	FLINT WELL - DESTROYED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	341200.0	Longitude:	1181100.0
Precision:	8	Status:	DS
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910166	System nam:	Valley Water Co.
Hqname:	Not Reported	Address:	4524 HAMPTON RD,BOX 706
City:	LA CANADA FLINTRIGE	State:	CA
Zip:	91011	Zip ext:	Not Reported
Pop serv:	13000	Connection:	3505
Area serve:	Not Reported		

E19
SSE
1/2 - 1 Mile
Lower

CA WELLS **448**

Seq:	448	Prim sta c:	01N/12W-06M04 S
Frds no:	1910166003	County:	19
District:	07	User id:	4TH
System no:	1910166	Water type:	G
Source nam:	WELL 02	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	341200.0	Longitude:	1181100.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910166	System nam:	Valley Water Co.
Hqname:	Not Reported	Address:	4524 HAMPTON RD,BOX 706
City:	LA CANADA FLINTRIGE	State:	CA

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Zip:	91011	Zip ext:	Not Reported
Pop serv:	13000	Connection:	3505
Area serve:	Not Reported		
Sample date:	12-MAR-18	Finding:	20.
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	12-MAR-18	Finding:	0.57
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-MAR-18	Finding:	0.57
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-MAR-18	Finding:	88.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAR-18	Finding:	380.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAR-18	Finding:	4.9
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	12-MAR-18	Finding:	6.1
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	12-MAR-18	Finding:	7.5
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	12-MAR-18	Finding:	1.9
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	12-MAR-18	Finding:	91.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	02-NOV-17	Finding:	0.71
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-NOV-17	Finding:	0.89
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-NOV-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-NOV-17	Finding:	0.66
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	03-OCT-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	03-OCT-17	Finding:	0.69
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	03-OCT-17	Finding:	0.66
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-OCT-17	Finding:	0.56
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-SEP-17	Finding:	0.74
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-SEP-17	Finding:	0.86
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-SEP-17	Finding:	0.65
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	06-SEP-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-AUG-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-AUG-17	Finding:	0.68
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-AUG-17	Finding:	0.85
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-JUL-17	Finding:	24.4
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	0.79
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JUL-17	Finding:	680.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	0.758
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	12.1
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		

Sample date:	11-JUL-17	Finding:	0.84
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JUL-17	Finding:	160.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	11-JUL-17	Finding:	0.26
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-JUL-17	Finding:	120.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	11-JUL-17	Finding:	98.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	3.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	45.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	35.7
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	106.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	411.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	12.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JUL-17	Finding:	280.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	230.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	7.36
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	1100.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	2.1
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L

Dlr:	1.		
Sample date:	02-JUN-17	Finding:	0.78
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUN-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-JUN-17	Finding:	0.67
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-MAY-17	Finding:	0.61
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-MAY-17	Finding:	0.77
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-MAY-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	18-OCT-16	Finding:	0.69
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	18-OCT-16	Finding:	0.78
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-OCT-16	Finding:	0.76
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-OCT-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-AUG-16	Finding:	0.86
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-AUG-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-AUG-16	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-AUG-16	Finding:	1.2
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	01-JUL-16	Finding:	0.84
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	01-JUL-16	Finding:	0.92
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUL-16	Finding:	1.7
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	01-JUL-16	Finding:	10.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-JUN-16	Finding:	0.67
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUN-16	Finding:	0.85
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUN-16	Finding:	2.3
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	01-JUN-16	Finding:	1.3
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	01-JUN-16	Finding:	1.9
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	01-JUN-16	Finding:	9.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-JUN-16	Finding:	5.5
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	17-MAY-16	Finding:	1.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-MAY-16	Finding:	2.4
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	17-MAY-16	Finding:	1.2
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	17-MAY-16	Finding:	1.5
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	17-MAY-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-MAY-16	Finding:	5.1
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L

Dlr:	0.		
Sample date:	13-MAY-16	Finding:	13.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-MAY-16	Finding:	1.3
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	13-MAY-16	Finding:	1.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-MAY-16	Finding:	2.5
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	01-MAR-16	Finding:	0.84
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-MAR-16	Finding:	17.
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	01-MAR-16	Finding:	25.
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	01-MAR-16	Finding:	0.84
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-MAR-16	Finding:	5.1
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	01-MAR-16	Finding:	79.
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	01-MAR-16	Finding:	32.
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	02-NOV-15	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-NOV-15	Finding:	0.68
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	02-NOV-15	Finding:	53.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-NOV-15	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	02-NOV-15	Finding:	1.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-NOV-15	Finding:	12.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-NOV-15	Finding:	4.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-OCT-15	Finding:	1.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-OCT-15	Finding:	4.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-OCT-15	Finding:	13000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-OCT-15	Finding:	0.82
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	05-OCT-15	Finding:	56.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-OCT-15	Finding:	0.69
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-SEP-15	Finding:	0.65
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	02-SEP-15	Finding:	2.2
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-SEP-15	Finding:	60.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-AUG-15	Finding:	60.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-AUG-15	Finding:	2.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUN-15	Finding:	59.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-JUN-15	Finding:	4.4
Chemical:	PERCHLORATE	Report units:	UG/L

Dlr:	4.		
Sample date:	01-JUN-15	Finding:	1.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUN-15	Finding:	0.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAY-15	Finding:	200.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	07-MAY-15	Finding:	880.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-15	Finding:	140.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	07-OCT-14	Finding:	1.5
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-OCT-14	Finding:	52.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-OCT-14	Finding:	0.81
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	07-OCT-14	Finding:	1.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-OCT-14	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-SEP-14	Finding:	4.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-SEP-14	Finding:	11000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-SEP-14	Finding:	50.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-SEP-14	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-SEP-14	Finding:	1.5
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	03-SEP-14	Finding:	1.1
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	03-SEP-14	Finding:	1.1
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	55.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-AUG-14	Finding:	1.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-AUG-14	Finding:	1.7
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-AUG-14	Finding:	1.7
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	02-JUL-14	Finding:	20.1
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	4.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	02-JUL-14	Finding:	1.6e-002
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	11.9
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	50.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-14	Finding:	2.8e-002
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	0.54
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	6.e-003
Chemical:	RADIUM 228	Report units:	PCI/L
Dlr:	1.		
Sample date:	02-JUL-14	Finding:	0.484
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	0.2
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L

Dlr:	0.		
Sample date:	02-JUL-14	Finding:	0.125
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	0.418
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Report units:	PCI/L	Dlr:	0.
Sample date:	02-JUL-14	Finding:	1100.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	7.08
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	250.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	300.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	443.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	113.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	39.4
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	51.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	3.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	83.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	130.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	02-JUL-14	Finding:	0.24
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	02-JUL-14	Finding:	160.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		

Sample date:	02-JUL-14	Finding:	4.18
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	02-JUL-14	Finding:	0.331
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	6.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	02-JUL-14	Finding:	1.9
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-14	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-14	Finding:	690.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	04-JUN-14	Finding:	4.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	04-JUN-14	Finding:	56.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-JUN-14	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-JUN-14	Finding:	2.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAY-14	Finding:	3.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAY-14	Finding:	4.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	07-MAY-14	Finding:	0.89
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-OCT-13	Finding:	1.5
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-OCT-13	Finding:	0.91
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-OCT-13	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	03-OCT-13	Finding:	54.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-OCT-13	Finding:	0.8
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	03-SEP-13	Finding:	2.2
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-SEP-13	Finding:	0.76
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-SEP-13	Finding:	0.88
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	03-SEP-13	Finding:	5.3
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-SEP-13	Finding:	58.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-AUG-13	Finding:	3.3
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-AUG-13	Finding:	1.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	06-AUG-13	Finding:	63.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-13	Finding:	4.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	02-JUL-13	Finding:	4.3
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-13	Finding:	63.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-13	Finding:	0.55
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUN-13	Finding:	3.4
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	10-JUN-13	Finding:	0.53
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUN-13	Finding:	63.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAY-13	Finding:	3.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAY-13	Finding:	59.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAY-13	Finding:	1.2
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	13-FEB-13	Finding:	5.9
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	13-FEB-13	Finding:	15.
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	13-FEB-13	Finding:	17.
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	13-FEB-13	Finding:	8.9
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	13-FEB-13	Finding:	47.
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	13-FEB-13	Finding:	410.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-SEP-12	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-SEP-12	Finding:	15000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-AUG-12	Finding:	4.4
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-AUG-12	Finding:	68.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-AUG-12	Finding:	0.61
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	05-JUL-12	Finding:	66.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-JUL-12	Finding:	0.55
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-JUL-12	Finding:	4.7
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUN-12	Finding:	0.67
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUN-12	Finding:	5.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUN-12	Finding:	65.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-MAY-12	Finding:	0.74
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-MAY-12	Finding:	4.7
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-MAY-12	Finding:	4.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	23-MAY-12	Finding:	70.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

E20
SSE **CA WELLS** **22931**
1/2 - 1 Mile
Lower

Seq:	22931	Prim sta c:	G19/166-VOASEF1
Frds no:	1910166008	County:	19
District:	07	User id:	4TH
System no:	1910166	Water type:	G
Source nam:	WELLS 1,2,3 & 4 AIR STRIPPING TOWER EFF		
Station ty:	WELLS/AMBNT/MUN/INTAKE	Latitude:	341200.0
Longitude:	1181100.0	Precision:	3
Status:	CT	Comment 1:	Not Reported
Comment 2:	Not Reported	Comment 3:	Not Reported
Comment 4:	Not Reported	Comment 5:	Not Reported
Comment 6:	Not Reported	Comment 7:	Not Reported
System no:	1910166	System nam:	Valley Water Co.
Hqname:	Not Reported	Address:	4524 HAMPTON RD,BOX 706

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

City:	LA CANADA FLINTRIGE	State:	CA
Zip:	91011	Zip ext:	Not Reported
Pop serv:	13000	Connection:	3505
Area serve:	Not Reported		

Sample date:	26-MAR-18	Finding:	1.8
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		

Sample date:	26-MAR-18	Finding:	1.8
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		

Sample date:	26-MAR-18	Finding:	4.2
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		

Sample date:	19-MAR-18	Finding:	2.6
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		

Sample date:	19-MAR-18	Finding:	2.7
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		

Sample date:	12-MAR-18	Finding:	1.6
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		

Sample date:	12-MAR-18	Finding:	2.1
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		

Sample date:	12-MAR-18	Finding:	3.7
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		

Sample date:	02-NOV-17	Finding:	12.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	02-OCT-17	Finding:	11.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	02-OCT-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	05-SEP-17	Finding:	11.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	05-SEP-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	01-AUG-17	Finding:	12.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	01-AUG-17	Finding:	12.

Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-JUL-17	Finding:	12.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-JUL-17	Finding:	12.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-JUN-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-MAY-17	Finding:	11.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-MAY-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	15-MAY-17	Finding:	11.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	15-MAY-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-OCT-16	Finding:	11.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-OCT-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-AUG-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-JUL-16	Finding:	10.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-JUL-16	Finding:	10.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-APR-16	Finding:	0.59
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	01-MAR-16	Finding:	19.
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	01-MAR-16	Finding:	1.8
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		

Sample date:	01-MAR-16	Finding:	9.9
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	01-MAR-16	Finding:	6.9
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	02-NOV-15	Finding:	53.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-NOV-15	Finding:	12.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-NOV-15	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-OCT-15	Finding:	56.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-OCT-15	Finding:	13000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-SEP-15	Finding:	56.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-SEP-15	Finding:	13000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	31-AUG-15	Finding:	4.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-AUG-15	Finding:	55.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-OCT-14	Finding:	51.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-OCT-14	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-SEP-14	Finding:	0.72
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	02-SEP-14	Finding:	49.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-SEP-14	Finding:	11000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	04-AUG-14	Finding:	54.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-AUG-14	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-JUL-14	Finding:	54.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-14	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-OCT-13	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-OCT-13	Finding:	52.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-SEP-13	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-SEP-13	Finding:	54.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-AUG-13	Finding:	57.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	27-AUG-13	Finding:	13000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-AUG-13	Finding:	50.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-AUG-13	Finding:	11000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-JUL-13	Finding:	49.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-JUL-13	Finding:	11000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-JUN-13	Finding:	10000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	10-JUN-13	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-JUN-13	Finding:	11000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-JUN-13	Finding:	50.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	25-FEB-13	Finding:	2.
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	25-FEB-13	Finding:	9.2
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	25-FEB-13	Finding:	4.
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	25-FEB-13	Finding:	2.4
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	21-FEB-13	Finding:	2.5
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	21-FEB-13	Finding:	1.8
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	21-FEB-13	Finding:	9.9
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	21-FEB-13	Finding:	1.1
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	21-FEB-13	Finding:	4.6
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	15-OCT-12	Finding:	55.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-OCT-12	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-SEP-12	Finding:	13000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	10-SEP-12	Finding:	55.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	04-SEP-12	Finding:	54.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-SEP-12	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-AUG-12	Finding:	55.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	13-AUG-12	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-AUG-12	Finding:	54.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-AUG-12	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	16-JUL-12	Finding:	13000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	16-JUL-12	Finding:	56.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-12	Finding:	13000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-JUL-12	Finding:	59.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-JUN-12	Finding:	59.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-JUN-12	Finding:	13000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	29-MAY-12	Finding:	58.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	29-MAY-12	Finding:	13000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E21
SSE
1/2 - 1 Mile
Lower

CA WELLS **446**

Seq:	446	Prim sta c:	01N/12W-06M01 S
Frds no:	1910166004	County:	19
District:	07	User id:	4TH
System no:	1910166	Water type:	G
Source nam:	WELL 03	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	341200.0	Longitude:	1181100.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1910166	System nam:	Valley Water Co.
Hqname:	Not Reported	Address:	4524 HAMPTON RD,BOX 706
City:	LA CANADA FLINTRIGE	State:	CA
Zip:	91011	Zip ext:	Not Reported
Pop serv:	13000	Connection:	3505
Area serve:	Not Reported		
Sample date:	12-MAR-18	Finding:	9.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-MAR-18	Finding:	9.2
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-MAR-18	Finding:	130.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	12-MAR-18	Finding:	630.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAR-18	Finding:	94.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	02-AUG-17	Finding:	8.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-JUL-17	Finding:	2.4
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-JUL-17	Finding:	11.9
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	13-JUL-17	Finding:	12.
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		

Sample date:	13-JUL-17	Finding:	2.6
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	13-JUL-17	Finding:	1.4
Chemical:	MERCURY	Report units:	UG/L
Dlr:	1.		
Sample date:	13-JUL-17	Finding:	25.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	13-JUL-17	Finding:	710.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	13-JUL-17	Finding:	7.48
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	13-JUL-17	Finding:	160.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	13-JUL-17	Finding:	200.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	13-JUL-17	Finding:	7.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-JUL-17	Finding:	261.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	13-JUL-17	Finding:	67.2
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-JUL-17	Finding:	22.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-JUL-17	Finding:	35.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	13-JUL-17	Finding:	58.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	13-JUL-17	Finding:	81.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	13-JUL-17	Finding:	0.37
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	13-JUL-17	Finding:	1.4
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L

Dlr:	1.		
Sample date:	13-JUL-17	Finding:	420.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	13-JUL-17	Finding:	3.8
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	13-JUL-17	Finding:	2.7
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	13-JUL-17	Finding:	4.4
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	13-JUL-17	Finding:	450.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	13-JUL-17	Finding:	0.571
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	13-JUL-17	Finding:	0.125
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUN-17	Finding:	0.51
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUN-17	Finding:	8.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-MAY-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	17-MAY-17	Finding:	0.69
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-MAY-17	Finding:	1.2
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-NOV-16	Finding:	4.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-AUG-16	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-AUG-16	Finding:	1.4
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	03-AUG-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-JUL-16	Finding:	4.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	01-JUL-16	Finding:	0.92
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUL-16	Finding:	1.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUL-16	Finding:	13.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-JUN-16	Finding:	0.84
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUN-16	Finding:	1.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUN-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-MAY-16	Finding:	0.86
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-MAY-16	Finding:	1.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-MAY-16	Finding:	13.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-MAY-16	Finding:	2.6
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	02-SEP-15	Finding:	57.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-SEP-15	Finding:	4.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	04-AUG-15	Finding:	57.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-AUG-15	Finding:	0.91
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	04-AUG-15	Finding:	1.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUL-15	Finding:	0.95
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUL-15	Finding:	4.3
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	01-JUL-15	Finding:	57.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-JUL-15	Finding:	0.86
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUN-15	Finding:	0.95
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUN-15	Finding:	4.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	01-JUN-15	Finding:	0.98
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUN-15	Finding:	57.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAY-15	Finding:	99.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-15	Finding:	160.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	07-MAY-15	Finding:	670.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	03-SEP-14	Finding:	4.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-AUG-14	Finding:	1.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-AUG-14	Finding:	56.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	05-AUG-14	Finding:	170.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	05-AUG-14	Finding:	0.98
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-14	Finding:	4.8
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	02-JUL-14	Finding:	6.3e-002
Chemical:	RADIUM 228	Report units:	PCI/L
Dlr:	1.		
Sample date:	02-JUL-14	Finding:	0.53
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	0.253
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	0.108
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	0.418
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Report units:	PCI/L	Dlr:	0.
Sample date:	02-JUL-14	Finding:	20.8
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	3.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	1100.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	6.94
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	240.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	300.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	464.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	120.
Chemical:	CALCIUM	Report units:	MG/L

Dlr:	0.		
Sample date:	02-JUL-14	Finding:	40.2
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	46.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	3.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	95.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	150.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	02-JUL-14	Finding:	0.21
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	02-JUL-14	Finding:	180.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	02-JUL-14	Finding:	370.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	02-JUL-14	Finding:	4.36
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	02-JUL-14	Finding:	0.337
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	7.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	02-JUL-14	Finding:	1.5
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-14	Finding:	1.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-14	Finding:	720.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	0.403
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		

Sample date:	02-JUL-14	Finding:	54.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-14	Finding:	0.78
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	02-JUL-14	Finding:	11.8
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	1.6e-002
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	04-JUN-14	Finding:	56.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-JUN-14	Finding:	1.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-JUN-14	Finding:	4.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	04-JUN-14	Finding:	1.4
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAY-14	Finding:	4.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	07-MAY-14	Finding:	1.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAY-14	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-SEP-13	Finding:	4.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	06-AUG-13	Finding:	56.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-AUG-13	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-AUG-13	Finding:	1.2
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-AUG-13	Finding:	1.2
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L

Dlr:	1.		
Sample date:	02-JUL-13	Finding:	4.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	02-JUL-13	Finding:	1.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-13	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-13	Finding:	58.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUN-13	Finding:	4.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	10-JUN-13	Finding:	1.2
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUN-13	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUN-13	Finding:	58.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAY-13	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAY-13	Finding:	1.5
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAY-13	Finding:	56.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-SEP-12	Finding:	14000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-SEP-12	Finding:	63.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-AUG-12	Finding:	1.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-AUG-12	Finding:	61.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	02-AUG-12	Finding:	1.5
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-AUG-12	Finding:	4.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-JUL-12	Finding:	1.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-JUL-12	Finding:	0.86
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-JUL-12	Finding:	62.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-JUL-12	Finding:	4.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	07-JUN-12	Finding:	0.89
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUN-12	Finding:	2.2
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUN-12	Finding:	4.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	07-JUN-12	Finding:	62.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-MAY-12	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-MAY-12	Finding:	0.99
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-MAY-12	Finding:	1.9
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-MAY-12	Finding:	4.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E22
SSE
1/2 - 1 Mile
Lower

CA WELLS **451**

Seq:	451	Prim sta c:	01N/12W-06M09 S
Frds no:	1910166005	County:	19
District:	07	User id:	4TH
System no:	1910166	Water type:	G
Source nam:	WELL 04	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	341200.0	Longitude:	1181100.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910166	System nam:	Valley Water Co.
Hqname:	Not Reported	Address:	4524 HAMPTON RD,BOX 706
City:	LA CANADA FLINTRIGE	State:	CA
Zip:	91011	Zip ext:	Not Reported
Pop serv:	13000	Connection:	3505
Area serve:	Not Reported		

Sample date:	12-MAR-18	Finding:	2.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	12-MAR-18	Finding:	2.7
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	12-MAR-18	Finding:	100.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	12-MAR-18	Finding:	440.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		

Sample date:	12-MAR-18	Finding:	89.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	02-AUG-17	Finding:	0.244
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	02-AUG-17	Finding:	1.3
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	02-AUG-17	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	02-AUG-17	Finding:	3.4e-002
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		

Sample date:	02-AUG-17	Finding:	10.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-AUG-17	Finding:	4.3
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	13-JUL-17	Finding:	23.4
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	100.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	32.8
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	42.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	2.8
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	110.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	11-JUL-17	Finding:	0.29
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-JUL-17	Finding:	1.7
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	11-JUL-17	Finding:	52.
Chemical:	ZINC	Report units:	UG/L
Dlr:	50.		
Sample date:	11-JUL-17	Finding:	7.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	11-JUL-17	Finding:	1.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JUL-17	Finding:	0.83
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JUL-17	Finding:	630.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	0.623
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported

Dlr:	0.		
Sample date:	11-JUL-17	Finding:	0.13
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	11-JUL-17	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	385.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JUL-17	Finding:	270.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	220.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	7.26
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	1000.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	89.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUN-17	Finding:	0.9
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUN-17	Finding:	9.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-JUN-17	Finding:	0.72
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-MAY-17	Finding:	0.91
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-MAY-17	Finding:	0.94
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-MAY-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	08-NOV-16	Finding:	4.3
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-AUG-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-AUG-16	Finding:	0.89
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-AUG-16	Finding:	0.82
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUL-16	Finding:	0.94
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUL-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-JUL-16	Finding:	4.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	01-JUL-16	Finding:	0.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUN-16	Finding:	1.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUN-16	Finding:	0.94
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUN-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-MAY-16	Finding:	8.4
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	13-MAY-16	Finding:	0.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-MAY-16	Finding:	0.59
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-MAY-16	Finding:	3.1
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	13-MAY-16	Finding:	2.2
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L

Dlr:	1.		
Sample date:	13-MAY-16	Finding:	2.3
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	13-MAY-16	Finding:	9.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-MAY-16	Finding:	8.6
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-MAY-16	Finding:	8.6
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-MAY-16	Finding:	8.4
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	04-MAY-16	Finding:	0.89
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-MAY-16	Finding:	0.69
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-MAY-16	Finding:	3.3
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	04-MAY-16	Finding:	2.2
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	04-MAY-16	Finding:	2.1
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	04-APR-16	Finding:	2.
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	04-APR-16	Finding:	5.9
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	04-APR-16	Finding:	6.
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	04-APR-16	Finding:	0.61
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-APR-16	Finding:	6.5
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	04-APR-16	Finding:	20.
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	04-APR-16	Finding:	6.5
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	04-APR-16	Finding:	5.8
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	04-APR-16	Finding:	0.62
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-SEP-15	Finding:	0.8
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	09-SEP-15	Finding:	1.5
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-SEP-15	Finding:	0.67
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-SEP-15	Finding:	4.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	02-SEP-15	Finding:	52.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-AUG-15	Finding:	51.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-AUG-15	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-AUG-15	Finding:	0.71
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUL-15	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUL-15	Finding:	0.76
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUL-15	Finding:	53.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-JUN-15	Finding:	1.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	01-JUN-15	Finding:	0.69
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUN-15	Finding:	4.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	01-JUN-15	Finding:	56.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAY-15	Finding:	730.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-15	Finding:	150.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	07-MAY-15	Finding:	120.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	05-AUG-14	Finding:	2.5
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	05-AUG-14	Finding:	1.8
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	05-AUG-14	Finding:	2.6
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	05-AUG-14	Finding:	3.4
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	05-AUG-14	Finding:	0.98
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-AUG-14	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-AUG-14	Finding:	53.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-AUG-14	Finding:	10.
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	564.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	02-JUL-14	Finding:	2.7
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	02-JUL-14	Finding:	57.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-14	Finding:	0.517
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	920.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-14	Finding:	1.5
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-14	Finding:	0.562
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	0.2
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	0.124
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	0.418
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Report units:	PCI/L	Dlr:	0.
Sample date:	02-JUL-14	Finding:	18.8
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	3.
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	1500.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	6.89
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	310.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	370.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L

Dlr:	0.		
Sample date:	02-JUL-14	Finding:	11.9
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	146.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	48.6
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	60.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	3.9
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	140.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	180.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	02-JUL-14	Finding:	0.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	02-JUL-14	Finding:	180.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	02-JUL-14	Finding:	1000.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	02-JUL-14	Finding:	53.
Chemical:	ZINC	Report units:	UG/L
Dlr:	50.		
Sample date:	04-JUN-14	Finding:	52.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-JUN-14	Finding:	2.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-JUN-14	Finding:	1.3
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAY-14	Finding:	2.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	07-MAY-14	Finding:	1.5
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAY-14	Finding:	4.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-SEP-13	Finding:	4.6
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	06-AUG-13	Finding:	1.5
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-AUG-13	Finding:	53.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	06-AUG-13	Finding:	1.6
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	06-AUG-13	Finding:	1.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-13	Finding:	4.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	02-JUL-13	Finding:	1.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-13	Finding:	52.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-13	Finding:	2.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUN-13	Finding:	1.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUN-13	Finding:	1.4
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUN-13	Finding:	1.2
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	10-JUN-13	Finding:	50.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAY-13	Finding:	1.2
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L

Dlr:	1.		
Sample date:	07-MAY-13	Finding:	1.4
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	07-MAY-13	Finding:	2.2
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	07-MAY-13	Finding:	47.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAY-13	Finding:	1.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAY-13	Finding:	1.3
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-MAY-13	Finding:	10000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-MAY-13	Finding:	6.4
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	01-MAY-13	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-MAY-13	Finding:	1.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-MAY-13	Finding:	1.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-MAY-13	Finding:	3.6
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	01-MAY-13	Finding:	4.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	01-MAY-13	Finding:	2.
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	04-JAN-13	Finding:	53.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-JAN-13	Finding:	100.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	04-JAN-13	Finding:	140.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	04-JAN-13	Finding:	740.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	04-JAN-13	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-OCT-12	Finding:	100.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	02-OCT-12	Finding:	13000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-OCT-12	Finding:	0.94
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	02-OCT-12	Finding:	140.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	02-OCT-12	Finding:	1.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-OCT-12	Finding:	1.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-OCT-12	Finding:	56.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-OCT-12	Finding:	4.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-SEP-12	Finding:	58.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-SEP-12	Finding:	0.9
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	05-SEP-12	Finding:	13000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-SEP-12	Finding:	4.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-SEP-12	Finding:	1.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	05-SEP-12	Finding:	2.2
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-AUG-12	Finding:	58.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-AUG-12	Finding:	2.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-AUG-12	Finding:	4.4
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	02-AUG-12	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-JUL-12	Finding:	57.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-JUL-12	Finding:	1.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-JUL-12	Finding:	1.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-12	Finding:	4.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	07-JUN-12	Finding:	4.3
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	07-JUN-12	Finding:	1.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUN-12	Finding:	57.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-JUN-12	Finding:	2.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-MAY-12	Finding:	2.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-MAY-12	Finding:	1.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	23-MAY-12	Finding:	4.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	23-MAY-12	Finding:	62.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

E23
SSE **CA WELLS 500**
1/2 - 1 Mile
Lower

Seq:	500	Prim sta c:	01N/13W-01J01 S
Frds no:	1910054004	County:	19
District:	07	User id:	4TH
System no:	1910054	Water type:	G
Source nam:	WELL 06 - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	341200.0	Longitude:	1181100.0
Precision:	8	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1910054	System nam:	La Canada Irrigation Dist.
Hqname:	Not Reported	Address:	P.O. BOX 39
City:	LA CANADA	State:	CA
Zip:	91012	Zip ext:	0039
Pop serv:	9300	Connection:	2830
Area serve:	LA CANADA -FLINTRDG		

E24
SSE **CA WELLS 449**
1/2 - 1 Mile
Lower

Seq:	449	Prim sta c:	01N/12W-06M05 S
Frds no:	1910054002	County:	19
District:	07	User id:	4TH
System no:	1910054	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	341200.0	Longitude:	1181100.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1910054	System nam:	La Canada Irrigation Dist.
Hqname:	Not Reported	Address:	P.O. BOX 39
City:	LA CANADA	State:	CA
Zip:	91012	Zip ext:	0039
Pop serv:	9300	Connection:	2830
Area serve:	LA CANADA -FLINTRDG		
Sample date:	06-SEP-16	Finding:	6.3
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		

Sample date:	06-SEP-16	Finding:	0.81
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-SEP-16	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-SEP-16	Finding:	1.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-SEP-16	Finding:	640.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	06-SEP-16	Finding:	56.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	06-JUN-16	Finding:	76.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	06-JUN-16	Finding:	1400.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	06-JUN-16	Finding:	1.4
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	06-JUN-16	Finding:	1.2
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	06-JUN-16	Finding:	3.9
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	06-JUN-16	Finding:	0.55
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-JUN-16	Finding:	18.
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	06-JUN-16	Finding:	6.5
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	06-JUN-16	Finding:	0.56
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-APR-16	Finding:	6.1
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	18-APR-16	Finding:	6.
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU

Dlr:	0.1		
Sample date:	18-APR-16	Finding:	0.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-APR-16	Finding:	3.2
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	18-APR-16	Finding:	1.5
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	18-APR-16	Finding:	1.4
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	18-APR-16	Finding:	79.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	18-APR-16	Finding:	430.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	18-APR-16	Finding:	94.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	18-APR-16	Finding:	65.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAR-16	Finding:	3.3
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAR-16	Finding:	94.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	21-MAR-16	Finding:	34.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAR-16	Finding:	73.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAR-16	Finding:	220.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAR-16	Finding:	180.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAR-16	Finding:	8.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		

Sample date:	21-MAR-16	Finding:	840.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	21-MAR-16	Finding:	7.5
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		
Sample date:	21-MAR-16	Finding:	120.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	21-MAR-16	Finding:	0.32
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	21-MAR-16	Finding:	160.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	21-MAR-16	Finding:	90.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAR-16	Finding:	510.
Chemical:	IRON	Report units:	UG/L
Dlr:	100.		
Sample date:	21-MAR-16	Finding:	5.6
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	21-MAR-16	Finding:	6.6
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	21-MAR-16	Finding:	510.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAR-16	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-MAR-16	Finding:	0.21
Chemical:	FOAMING AGENTS (MBAS)	Report units:	MG/L
Dlr:	0.		
Sample date:	21-MAR-16	Finding:	0.9
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	21-MAR-16	Finding:	2.9
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	21-MAR-16	Finding:	1.3
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	21-MAR-16	Finding:	1.4
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L

Dlr:	1.		
Sample date:	21-MAR-16	Finding:	54.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	30-DEC-15	Finding:	12.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-DEC-15	Finding:	53.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-DEC-15	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-DEC-15	Finding:	1.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-DEC-15	Finding:	12.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	21-SEP-15	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-SEP-15	Finding:	1.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	14-SEP-15	Finding:	52.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	14-SEP-15	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-JUN-15	Finding:	53.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-JUN-15	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUN-15	Finding:	1.2
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUN-15	Finding:	52.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-MAR-15	Finding:	1.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	16-MAR-15	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	16-MAR-15	Finding:	2.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-DEC-14	Finding:	1.5
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-DEC-14	Finding:	55.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-DEC-14	Finding:	2.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-SEP-14	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-SEP-14	Finding:	1.3
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-SEP-14	Finding:	1.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-SEP-14	Finding:	55.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-JUN-14	Finding:	0.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-JUN-14	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-MAR-14	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	17-MAR-14	Finding:	0.87
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-MAR-14	Finding:	1.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	15-JAN-14	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-DEC-13	Finding:	0.655
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L

Dlr:	0.		
Sample date:	22-DEC-13	Finding:	0.166
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-DEC-13	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-DEC-13	Finding:	2.1
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-DEC-13	Finding:	1.2
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-DEC-13	Finding:	49.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	22-DEC-13	Finding:	2.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-DEC-13	Finding:	0.89
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	22-DEC-13	Finding:	7.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	22-DEC-13	Finding:	3.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	22-DEC-13	Finding:	8.5e-002
Chemical:	RADIUM 228	Report units:	PCI/L
Dlr:	1.		
Sample date:	22-DEC-13	Finding:	0.418
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Report units:	PCI/L	Dlr:	0.
Sample date:	22-DEC-13	Finding:	0.2
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	03-SEP-13	Finding:	0.72
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-SEP-13	Finding:	1.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-SEP-13	Finding:	37.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	10-JUN-13	Finding:	42.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUN-13	Finding:	1.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUN-13	Finding:	0.62
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-APR-13	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-MAR-13	Finding:	0.7
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-MAR-13	Finding:	0.1
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-MAR-13	Finding:	0.8
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	11-MAR-13	Finding:	11.94
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-MAR-13	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-MAR-13	Finding:	4.9
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	11-MAR-13	Finding:	590.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAR-13	Finding:	2.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-MAR-13	Finding:	0.13
Chemical:	FOAMING AGENTS (MBAS)	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAR-13	Finding:	0.83
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-MAR-13	Finding:	7.
Chemical:	VANADIUM	Report units:	UG/L
Dlr:	3.		
Sample date:	11-MAR-13	Finding:	120.
Chemical:	IRON	Report units:	UG/L

Dlr:	100.		
Sample date:	11-MAR-13	Finding:	0.33
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-MAR-13	Finding:	110.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	11-MAR-13	Finding:	76.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAR-13	Finding:	2.9
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAR-13	Finding:	40.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAR-13	Finding:	30.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAR-13	Finding:	90.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAR-13	Finding:	350.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAR-13	Finding:	250.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAR-13	Finding:	200.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-MAR-13	Finding:	7.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-MAR-13	Finding:	910.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	11-MAR-13	Finding:	20.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	11-MAR-13	Finding:	51.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	28-JAN-13	Finding:	43.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	26-DEC-12	Finding:	2.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-DEC-12	Finding:	0.62
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-DEC-12	Finding:	44.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-SEP-12	Finding:	0.77
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	24-SEP-12	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	24-SEP-12	Finding:	2.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	27-AUG-12	Finding:	4.7
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	30-JUN-12	Finding:	0.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	30-JUN-12	Finding:	1.9
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-MAR-12	Finding:	1.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-MAR-12	Finding:	0.56
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	26-MAR-12	Finding:	41.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

E25
SSE
1/2 - 1 Mile
Lower

CA WELLS 450

Seq:	450	Prim sta c:	01N/12W-06M06 S
Frds no:	1910166002	County:	19
District:	07	User id:	4TH
System no:	1910166	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	341200.0	Longitude:	1181100.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported

Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1910166	System nam:	Valley Water Co.
Hqname:	Not Reported	Address:	4524 HAMPTON RD,BOX 706
City:	LA CANADA FLINTRIGE	State:	CA
Zip:	91011	Zip ext:	Not Reported
Pop serv:	13000	Connection:	3505
Area serve:	Not Reported		
Sample date:	12-MAR-18	Finding:	77.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAR-18	Finding:	4.4
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-MAR-18	Finding:	4.4
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	12-MAR-18	Finding:	110.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	12-MAR-18	Finding:	3.9
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	12-MAR-18	Finding:	2.3
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	12-MAR-18	Finding:	4.2
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	12-MAR-18	Finding:	0.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	12-MAR-18	Finding:	480.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAR-18	Finding:	10.
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	02-NOV-17	Finding:	12.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-NOV-17	Finding:	12.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-NOV-17	Finding:	0.97
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		

Sample date:	02-NOV-17	Finding:	2.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-NOV-17	Finding:	1.4
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-OCT-17	Finding:	1.3
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-OCT-17	Finding:	12.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-OCT-17	Finding:	12.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-OCT-17	Finding:	0.76
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	03-OCT-17	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-SEP-17	Finding:	1.2
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-SEP-17	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	28-SEP-17	Finding:	0.82
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	06-SEP-17	Finding:	12.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-AUG-17	Finding:	12.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-AUG-17	Finding:	1.3
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-AUG-17	Finding:	1.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-JUL-17	Finding:	22.8
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	0.618
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported

Dlr:	0.		
Sample date:	11-JUL-17	Finding:	700.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	1.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JUL-17	Finding:	1.2
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	11-JUL-17	Finding:	8.9
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	11-JUL-17	Finding:	1.9
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	11-JUL-17	Finding:	150.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	11-JUL-17	Finding:	0.26
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-JUL-17	Finding:	140.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	11-JUL-17	Finding:	96.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	3.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	45.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	37.4
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	112.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	432.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	12.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	11-JUL-17	Finding:	280.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	230.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	7.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	1100.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	11-JUL-17	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUN-17	Finding:	1.4
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUN-17	Finding:	12.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-JUN-17	Finding:	1.8
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-MAY-17	Finding:	0.96
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-MAY-17	Finding:	1.4
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	17-MAY-17	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-NOV-16	Finding:	4.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	18-OCT-16	Finding:	1.1
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	18-OCT-16	Finding:	1.1
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	18-OCT-16	Finding:	1.9
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	18-OCT-16	Finding:	2.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	04-OCT-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-AUG-16	Finding:	1.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-AUG-16	Finding:	1.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-AUG-16	Finding:	1.7
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	03-AUG-16	Finding:	11.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-JUL-16	Finding:	10.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-JUL-16	Finding:	4.8
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	01-JUL-16	Finding:	1.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUL-16	Finding:	1.3
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUL-16	Finding:	2.8
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	01-JUL-16	Finding:	1.2
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	01-JUN-16	Finding:	10.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-JUN-16	Finding:	1.5
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUN-16	Finding:	0.68
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	13-MAY-16	Finding:	6.3
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		

Sample date:	13-MAY-16	Finding:	1.8
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	13-MAY-16	Finding:	1.4
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	13-MAY-16	Finding:	3.1
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	13-MAY-16	Finding:	10.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	13-MAY-16	Finding:	1.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-NOV-15	Finding:	1.2
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-NOV-15	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-NOV-15	Finding:	53.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-NOV-15	Finding:	4.3
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	02-NOV-15	Finding:	0.85
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	02-NOV-15	Finding:	12.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-NOV-15	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-OCT-15	Finding:	1.5
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-OCT-15	Finding:	1.7
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-OCT-15	Finding:	53.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-OCT-15	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	05-OCT-15	Finding:	4.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-OCT-15	Finding:	0.87
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	09-SEP-15	Finding:	1.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-SEP-15	Finding:	1.3
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	09-SEP-15	Finding:	0.75
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	02-SEP-15	Finding:	4.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	02-SEP-15	Finding:	53.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-AUG-15	Finding:	1.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-AUG-15	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-AUG-15	Finding:	4.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	04-AUG-15	Finding:	54.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-JUL-15	Finding:	1.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUL-15	Finding:	55.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-JUL-15	Finding:	0.81
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUN-15	Finding:	4.3
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		

Sample date:	01-JUN-15	Finding:	53.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-JUN-15	Finding:	0.77
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUN-15	Finding:	1.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	01-JUN-15	Finding:	1.1
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	07-MAY-15	Finding:	110.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	07-MAY-15	Finding:	160.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	07-MAY-15	Finding:	4.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	07-MAY-15	Finding:	710.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	10-APR-15	Finding:	0.82
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	10-APR-15	Finding:	57.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-APR-15	Finding:	2.
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-APR-15	Finding:	1.4
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-APR-15	Finding:	13000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-APR-15	Finding:	5.
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-SEP-14	Finding:	51.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-SEP-14	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L

Dlr:	0.4		
Sample date:	03-SEP-14	Finding:	4.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-SEP-14	Finding:	1.
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	03-SEP-14	Finding:	1.5
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-SEP-14	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-AUG-14	Finding:	55.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-AUG-14	Finding:	1.2
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	05-AUG-14	Finding:	2.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-AUG-14	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-14	Finding:	370.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	559.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	142.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	49.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	3.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	140.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	180.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	02-JUL-14	Finding:	0.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	02-JUL-14	Finding:	170.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	02-JUL-14	Finding:	2.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-14	Finding:	1.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-JUL-14	Finding:	900.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	0.564
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	2.3e-002
Chemical:	LANGELIER INDEX AT SOURCE TEMP.	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	48.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-14	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	300.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	6.96
Chemical:	PH, FIELD	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	1500.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	17.9
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	0.418
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Report units:	PCI/L	Dlr:	0.
Sample date:	02-JUL-14	Finding:	0.177
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	0.127
Chemical:	RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0		

Report units:	PCI/L	Dlr:	0.
Sample date:	02-JUL-14	Finding:	0.253
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	0.579
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	62.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	04-JUN-14	Finding:	2.5
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	04-JUN-14	Finding:	51.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAY-14	Finding:	1.6e-002
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-MAY-14	Finding:	2.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAY-14	Finding:	1.6
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	07-MAY-14	Finding:	0.408
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	07-MAY-14	Finding:	6.33
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	03-OCT-13	Finding:	1.2
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	03-OCT-13	Finding:	1.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-OCT-13	Finding:	11000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-OCT-13	Finding:	1.2
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	03-OCT-13	Finding:	50.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

Sample date:	03-OCT-13	Finding:	1.5
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-SEP-13	Finding:	1.3
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	03-SEP-13	Finding:	1.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	03-SEP-13	Finding:	52.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	03-SEP-13	Finding:	1.3
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	03-SEP-13	Finding:	5.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	03-SEP-13	Finding:	1.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-AUG-13	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-AUG-13	Finding:	1.5
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	06-AUG-13	Finding:	1.1
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	06-AUG-13	Finding:	1.6
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	06-AUG-13	Finding:	52.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-13	Finding:	1.8
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	02-JUL-13	Finding:	1.2
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	02-JUL-13	Finding:	4.5
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	02-JUL-13	Finding:	2.2
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L

Dlr:	0.5		
Sample date:	02-JUL-13	Finding:	3.8
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	02-JUL-13	Finding:	49.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-JUL-13	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUN-13	Finding:	2.4
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	10-JUN-13	Finding:	1.5
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUN-13	Finding:	5.9
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	10-JUN-13	Finding:	1.1
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	10-JUN-13	Finding:	1.5
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	10-JUN-13	Finding:	2.
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	10-JUN-13	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAY-13	Finding:	1.4
Chemical:	BROMODICHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	07-MAY-13	Finding:	1.5
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	07-MAY-13	Finding:	1.6
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-MAY-13	Finding:	46.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-MAY-13	Finding:	1.9
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		

Sample date:	04-JAN-13	Finding:	54.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	04-JAN-13	Finding:	140.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	04-JAN-13	Finding:	180.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	04-JAN-13	Finding:	900.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	04-JAN-13	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-NOV-12	Finding:	1.2
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	08-NOV-12	Finding:	56.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	08-NOV-12	Finding:	4.1
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	08-NOV-12	Finding:	13000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	08-NOV-12	Finding:	1.6
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-NOV-12	Finding:	2.1
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	08-NOV-12	Finding:	1.2
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	02-OCT-12	Finding:	12000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-OCT-12	Finding:	1.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-OCT-12	Finding:	55.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-OCT-12	Finding:	4.3
Chemical:	PERCHLORATE	Report units:	UG/L

Dlr:	4.		
Sample date:	02-OCT-12	Finding:	1.4
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	02-OCT-12	Finding:	1.9
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-OCT-12	Finding:	1.4
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	02-OCT-12	Finding:	160.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	02-OCT-12	Finding:	110.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	05-SEP-12	Finding:	13000.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	05-SEP-12	Finding:	1.3
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	05-SEP-12	Finding:	4.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	05-SEP-12	Finding:	1.3
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	05-SEP-12	Finding:	2.
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-SEP-12	Finding:	1.4
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-SEP-12	Finding:	57.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-AUG-12	Finding:	58.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	02-AUG-12	Finding:	1.8
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	02-AUG-12	Finding:	1.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		

Sample date:	05-JUL-12	Finding:	58.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-JUL-12	Finding:	1.3
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-JUL-12	Finding:	2.4
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	05-JUL-12	Finding:	1.2
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	02-JUL-12	Finding:	4.2
Chemical:	PERCHLORATE	Report units:	UG/L
Dlr:	4.		
Sample date:	07-JUN-12	Finding:	57.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	07-JUN-12	Finding:	1.2
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	07-JUN-12	Finding:	1.8
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	07-JUN-12	Finding:	2.4
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-MAY-12	Finding:	64.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	23-MAY-12	Finding:	0.62
Chemical:	TRICHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-MAY-12	Finding:	2.2
Chemical:	TETRACHLOROETHYLENE	Report units:	UG/L
Dlr:	0.5		
Sample date:	23-MAY-12	Finding:	1.7
Chemical:	CHLOROFORM (THM)	Report units:	UG/L
Dlr:	1.		

D26
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000004579**

Well ID:	T0603763485-MW-1	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-1
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0603763485&assigned_name=MW-1&store_num=		

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0603763485&assigned_name=MW-1

D27
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000095501**

Well ID:	T0603763485-MW-5	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-5
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0603763485&assigned_name=MW-5&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0603763485&assigned_name=MW-5		

D28
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000085785**

Well ID:	T0603763485-MW-9	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-9
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0603763485&assigned_name=MW-9&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0603763485&assigned_name=MW-9		

D29
SSW
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000071191**

Well ID:	T0603763485-MW-8	Well Type:	MONITORING
Source:	EDF	Other Name:	MW-8
GAMA PFAS Testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0603763485&assigned_name=MW-8&store_num=		
GeoTracker Data:	https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0603763485&assigned_name=MW-8		

E30
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000013412**

Well ID:	1910054-004	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 06	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1910054-004&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C31
South
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000015485**

Well ID:	1910166-003	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 02	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1910166-003&store_num=		
GeoTracker Data:	Not Reported		

F32
South
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000016991**

Well ID:	1910166-005	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 04	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1910166-005&store_num=		
GeoTracker Data:	Not Reported		

33
South
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000020462**

Well ID:	01N13W01J001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01N13W01J001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01N13W01J001S&store_num=		
GeoTracker Data:	Not Reported		

F34
South
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000017886**

Well ID:	1910166-002	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 01	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1910166-002&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G35
SSE **CA WELLS** **CADWR0000007319**
1/2 - 1 Mile
Lower

Well ID:	01N12W06M009S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01N12W06M009S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01N12W06M009S&store_num=		
GeoTracker Data:	Not Reported		

G36
SSE **CA WELLS** **CADWR0000007290**
1/2 - 1 Mile
Lower

Well ID:	01N12W06M006S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01N12W06M006S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01N12W06M006S&store_num=		
GeoTracker Data:	Not Reported		

G37
SSE **CA WELLS** **CADWR0000012150**
1/2 - 1 Mile
Lower

Well ID:	01N12W06M001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01N12W06M001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01N12W06M001S&store_num=		
GeoTracker Data:	Not Reported		

G38
SSE **CA WELLS** **CADWR0000000098**
1/2 - 1 Mile
Lower

Well ID:	01N12W06M004S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01N12W06M004S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01N12W06M004S&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G39
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000023999**

Well ID:	01N12W06M005S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01N12W06M005S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01N12W06M005S&store_num=		
GeoTracker Data:	Not Reported		

G40
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000026454**

Well ID:	01N12W06M002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	01N12W06M002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01N12W06M002S&store_num=		
GeoTracker Data:	Not Reported		

41
West
1/2 - 1 Mile
Higher

FRDS PWS **CA1910054**

Epa region:	09	State:	CA
Pwsid:	CA1910054	Pwsname:	LA CANADA IRRIGATION DIST.
Cityserved:	Not Reported	Stateserved:	CA
Zipserved:	Not Reported	Fipscounty:	06037
Status:	Active	Retpopsrvd:	9300
Pwssvcconn:	2910	Psource longname:	Purch_surface_water
Pwstype:	CWS	Owner:	Local_Govt
Contact:	CAISTER, DOUGLAS	Contactorgname:	CAISTER, DOUGLAS
Contactphone:	818-790-6749	Contactaddress1:	P.O. BOX 39
Contactaddress2:	Not Reported	Contactcity:	LA CANADA
Contactstate:	CA	Contactzip:	91012
Pwsactivitycode:	A		

Pwsid:	CA1910054	Facid:	3144
Facname:	PICKENS TUNNEL-CHLORINAION		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	hypochlorination, post
Factypecode:	TP		

Pwsid:	CA1910054	Facid:	3145
Facname:	WELL 01-CHLORINATION	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP

Pwsid:	CA1910054	Facid:	3146
Facname:	WELL 06-CHLORINATION	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection

Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	CA1910054	Facid:	6
Facname:	PICKENS TUNNEL-CHLORINAION		
Factype:	Treatment_plant	Facactivitycode:	A
Trtobjective:	disinfection	Trtprocess:	gaseous chlorination, post
Factypecode:	TP		
Pwsid:	CA1910054	Facid:	7
Facname:	WELL 01-CHLORINATION	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		
Pwsid:	CA1910054	Facid:	8
Facname:	WELL 06-CHLORINATION	Factype:	Treatment_plant
Facactivitycode:	A	Trtobjective:	disinfection
Trtprocess:	gaseous chlorination, post		
Factypecode:	TP		
PWS ID:	CA1910054	PWS name:	LA CANADA IRRIGATION DIST.
Address:	Not Reported	Care of:	Not Reported
City:	LA CANADA	State:	CA
Zip:	910120039	Owner:	LA CANADA IRRIGATION DIST.
Source code:	Purchases surface water	Population:	9400
PWS ID:	CA1910054	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS name:	LA CANADA IRRIGATION DIST.
PWS type code:	C	Retail population served:	9300
Contact:	David K. Hiroto	Contact address:	P.O. Box 39
Contact address:	La Canada	Contact city:	CA
Contact state:	91	Contact zip:	8187906749
Contact telephone:	Not Reported		
PWS ID:	CA1910054	Activity status:	Active
Date system activated:	7706	Date system deactivated:	Not Reported
Retail population:	00009300	System name:	LA CANADA IRRIGATION DIST.
System address:	Not Reported	System address:	PO BOX 39
System city:	LA CANADA	System state:	CA
System zip:	910110039		
County FIPS:	037	City served:	LA CANADA -FLIN
Population served:	5,001 - 10,000 Persons	Treatment:	Mixed (treated and untreated)
Latitude:	341236	Longitude:	1181200
Violation id:	116002	Orig code:	S
State:	CA	Violation Year:	2000
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	26	Violation name:	Monitoring, Repeat Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	12/01/2000
Cmp edt:	12/31/2000		
Violation ID:	116002	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	03/05/2001
Enforcement Detail:	St AO (w/o penalty) issued		
Enforcement Category:	Formal		

Violation ID:	116002	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	03/05/2001
Enforcement Detail:	St Compliance achieved	Enforcement Category:	Resolving
Violation ID:	Not Reported	Orig Code:	F
Enforcemnt FY:	2000	Enforcement Action:	03/01/2000
Enforcement Detail:	Fed Compliance achieved	Enforcement Category:	Not Reported
PWS name:	LA CANADA IRRIGATION DIST.		
Population served:	9300	PWS type code:	C
Violation ID:	0116002	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Repeat Minor (TCR)		
Compliance start date:	12/1/2000 0:00:00	Compliance end date:	12/31/2000 0:00:00
Enforcement date:	3/5/2001 0:00:00	Enforcement action:	State AO (w/o Penalty) Issued
Violation measurement:	Not Reported		
PWS name:	LA CANADA IRRIGATION DIST.		
Population served:	9300	PWS type code:	C
Violation ID:	0116002	Contaminant:	COLIFORM (TCR)
Violation type:	Monitoring, Repeat Minor (TCR)		
Compliance start date:	12/1/2000 0:00:00	Compliance end date:	12/31/2000 0:00:00
Enforcement date:	3/5/2001 0:00:00	Enforcement action:	State Compliance Achieved
Violation measurement:	Not Reported		

42
SE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000007578**

State Well #:	Not Reported	Station ID:	48954
Well Name:	MW-14	Basin Name:	Raymond
Well Use:	Observation	Well Type:	Single Well
Well Depth:	588	Well Completion Rpt #:	Not Reported

43
SE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000007586**

State Well #:	Not Reported	Station ID:	48960
Well Name:	MW-22	Basin Name:	Raymond
Well Use:	Observation	Well Type:	Single Well
Well Depth:	634	Well Completion Rpt #:	Not Reported

44
SSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000007565**

State Well #:	01N13W01N001S	Station ID:	48968
Well Name:	D-13F	Basin Name:	Raymond
Well Use:	Observation	Well Type:	Single Well
Well Depth:	120	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91011	57	2

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	98%	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.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX E
HISTORICAL RESEARCH DOCUMENTATION

Paradise Canyon Elementary School

471 Knight Way

La Canada Flintridge, CA 91011

Inquiry Number: 7144104.11

October 12, 2022

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

10/12/22

Site Name:

Paradise Canyon Elementary S
471 Knight Way
La Canada Flintridge, CA 9101
EDR Inquiry # 7144104.11

Client Name:

Leighton Consulting
17781 Cowan
Irvine, CA 92614
Contact: Zachary Freeman

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Acquisition Date: January 01, 2002	USGS/DOQQ
1994	1"=500'	Acquisition Date: May 31, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August 22, 1989	USDA
1983	1"=500'	Flight Date: November 19, 1983	EDR Proprietary Brewster Pacific
1979	1"=500'	Flight Date: February 05, 1979	EDR Proprietary Brewster Pacific
1977	1"=500'	Flight Date: February 14, 1977	EDR Proprietary Brewster Pacific
1964	1"=500'	Flight Date: August 08, 1964	USGS
1954	1"=500'	Flight Date: March 02, 1954	USDA
1952	1"=500'	Flight Date: July 31, 1952	USGS
1944	1"=500'	Flight Date: January 01, 1944	USDA
1938	1"=500'	Flight Date: March 07, 1938	USDA
1928	1"=500'	Flight Date: January 01, 1928	FAIR

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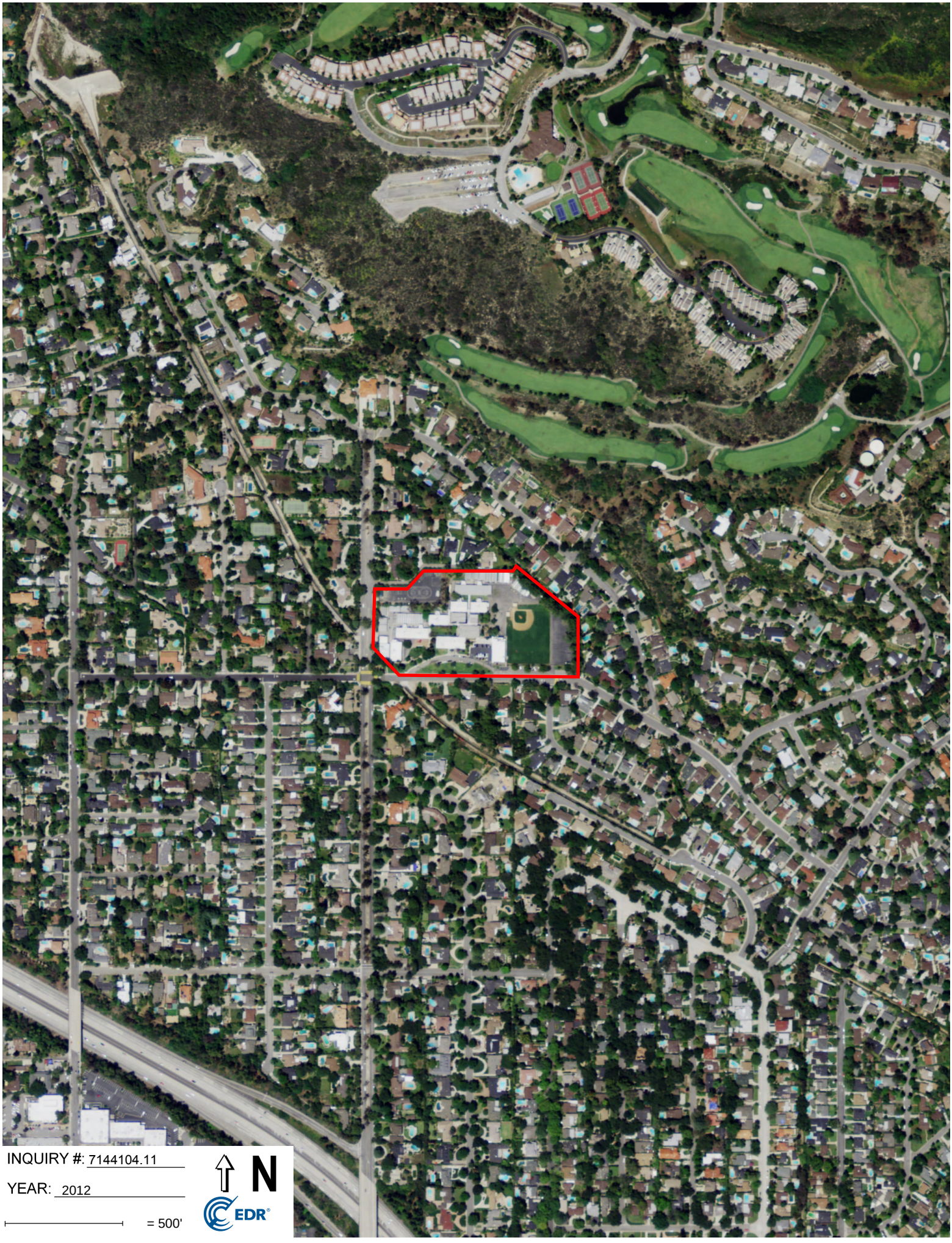
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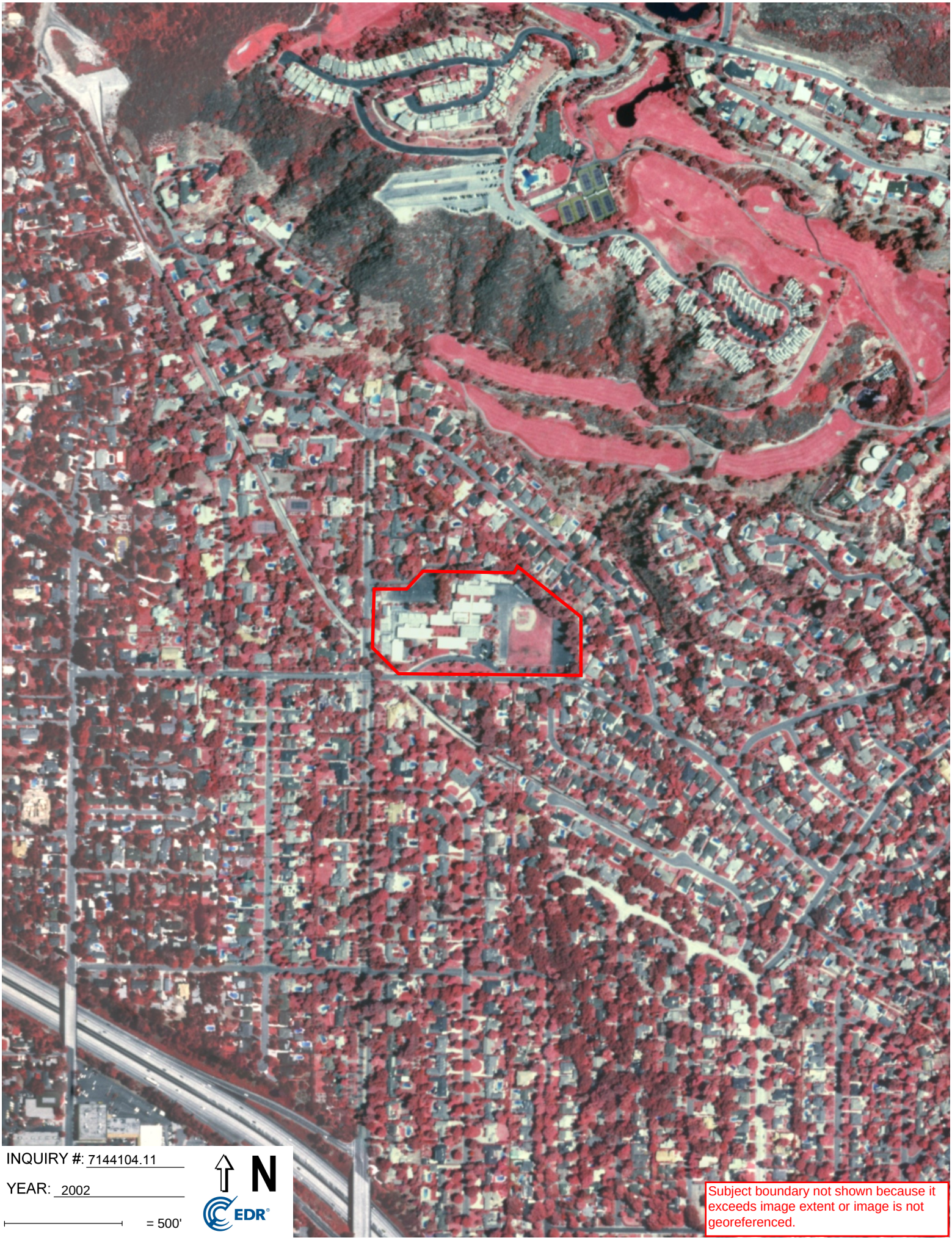
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= 500'
N
EDR


INQUIRY #: 7144104.11
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 7144104.11
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 7144104.11
YEAR: 2005
= 500'
N
EDR


INQUIRY #: 7144104.11
YEAR: 2002
= 500'
N
EDR
Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 7144104.11

YEAR: 1994

= 500'

N

EDR


INQUIRY #: 7144104.11
YEAR: 1989
= 500'
N
EDR



INQUIRY #: 7144104.11

YEAR: 1983

= 500'

N

EDR


INQUIRY #: 7144104.11
YEAR: 1979
= 500'
N
EDR


INQUIRY #: 7144104.11
YEAR: 1977
= 500'
N
EDR



INQUIRY #: 7144104.11

YEAR: 1964

= 500'

N

EDR


INQUIRY #: 7144104.11
YEAR: 1954
= 500'
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EDR



INQUIRY #: 7144104.11

YEAR: 1952

= 500'

N

EDR



INQUIRY #: 7144104.11

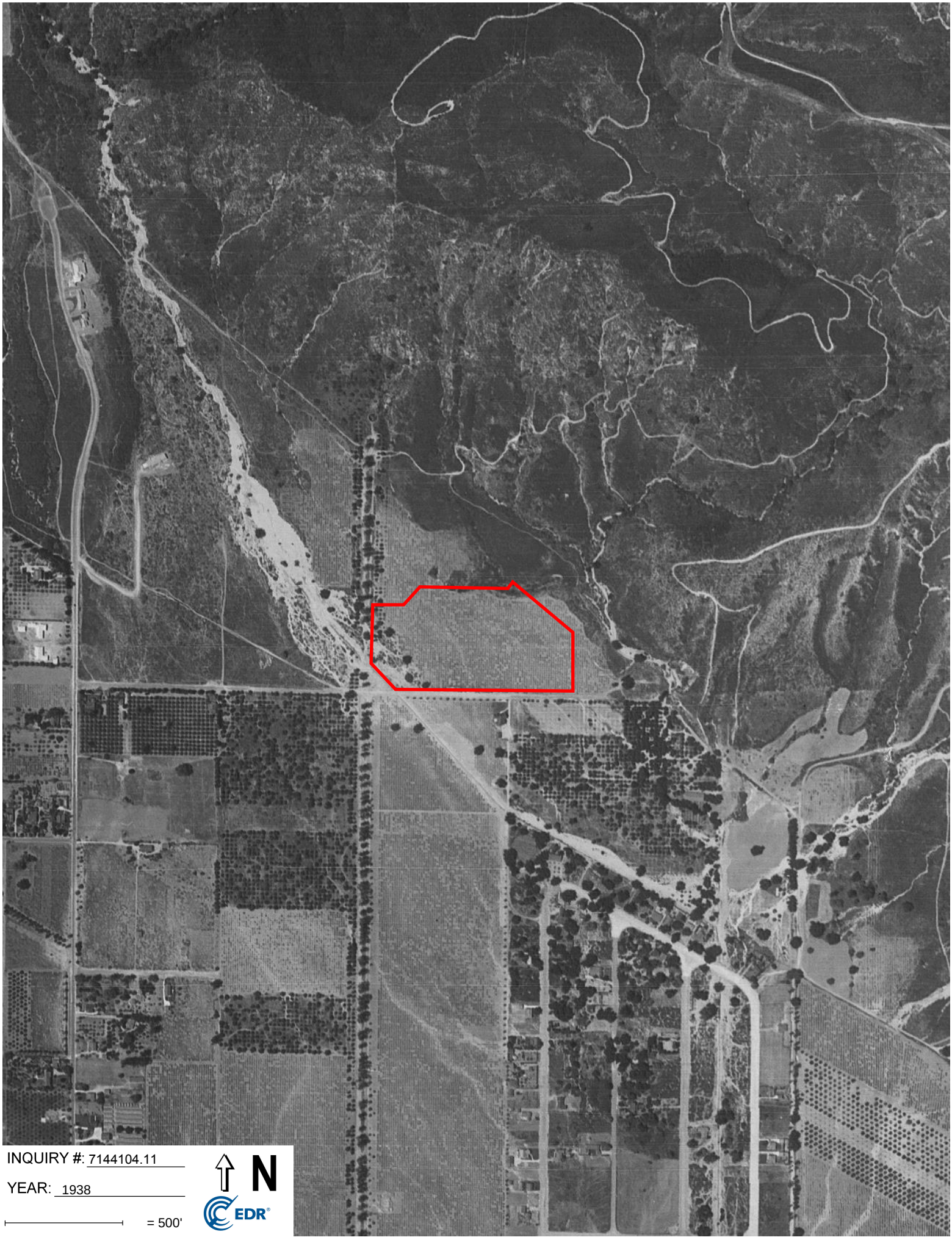
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EDR

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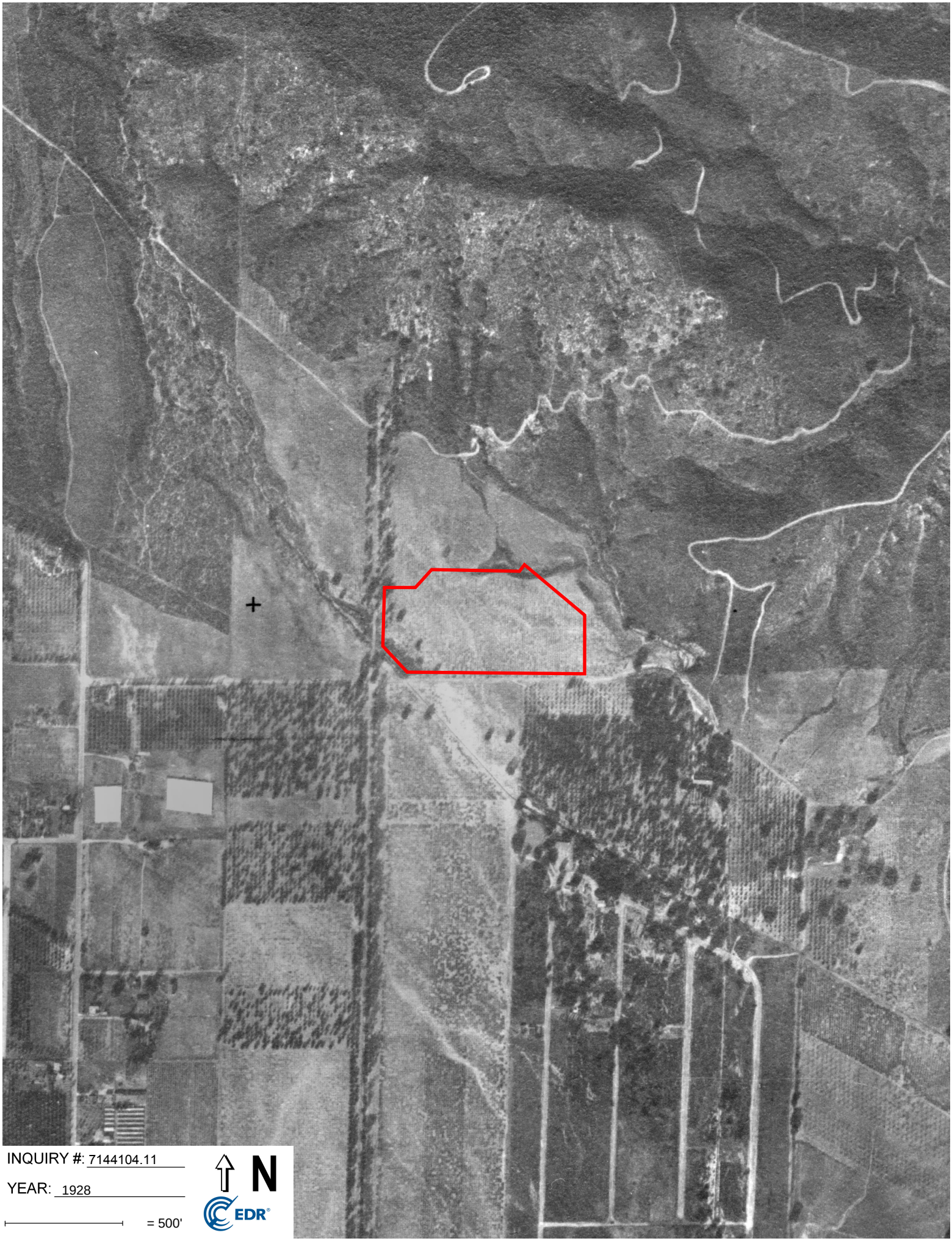
INQUIRY #: 7144104.11

YEAR: 1938

= 500'

N

EDR



INQUIRY #: 7144104.11

YEAR: 1928

= 500'

N

EDR

Paradise Canyon Elementary School
471 Knight Way
La Canada Flintridge, CA 91011

Inquiry Number: 7144104.4
October 11, 2022

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

10/11/22

Site Name:	Client Name:
Paradise Canyon Elementary S	Leighton Consulting
471 Knight Way	17781 Cowan
La Canada Flintridge, CA 9101	Irvine, CA 92614
EDR Inquiry # 7144104.4	Contact: Zachary Freeman

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Leighton Consulting were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	13714.001	**Latitude:**	34.208896 34° 12' 32" North
Project:	Paradise Canyon Elementary S	**Longitude:**	-118.187717 -118° 11' 16" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	390583.22
		UTM Y Meters:	3785955.99
		Elevation:	1314.22' above sea level

Maps Provided:

2018	1940
2015	1939
2012	1934
1995	1928
1988	1900
1972	1896
1966	1894
1953	

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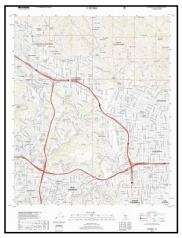
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Topo Sheet Key

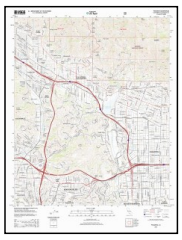
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2018 Source Sheets



Pasadena
2018
7.5-minute, 24000

2015 Source Sheets



Pasadena
2015
7.5-minute, 24000

2012 Source Sheets



Pasadena
2012
7.5-minute, 24000

1995 Source Sheets



Pasadena
1995
7.5-minute, 24000
Aerial Photo Revised 1993

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1988 Source Sheets



Pasadena
1988
7.5-minute, 24000
Aerial Photo Revised 1986

1972 Source Sheets



Pasadena
1972
7.5-minute, 24000
Aerial Photo Revised 1972

1966 Source Sheets



Pasadena
1966
7.5-minute, 24000
Aerial Photo Revised 1964

1953 Source Sheets



Pasadena
1953
7.5-minute, 24000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1940 Source Sheets



Altadena
1940
7.5-minute, 24000

1939 Source Sheets



Mt. Lowe
1939
7.5-minute, 24000



La Crescenta
1939
7.5-minute, 24000

1934 Source Sheets



Mt. Lowe
1934
7.5-minute, 24000

1928 Source Sheets



Altadena
1928
7.5-minute, 24000



Glendale
1928
7.5-minute, 24000



La Crescenta
1928
7.5-minute, 24000

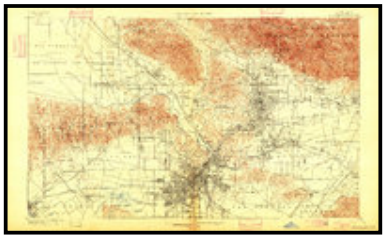
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1900 Source Sheets



Pasadena
1900
15-minute, 62500



Los Angeles
1900
15-minute, 62500

1896 Source Sheets



Pasadena
1896
15-minute, 62500

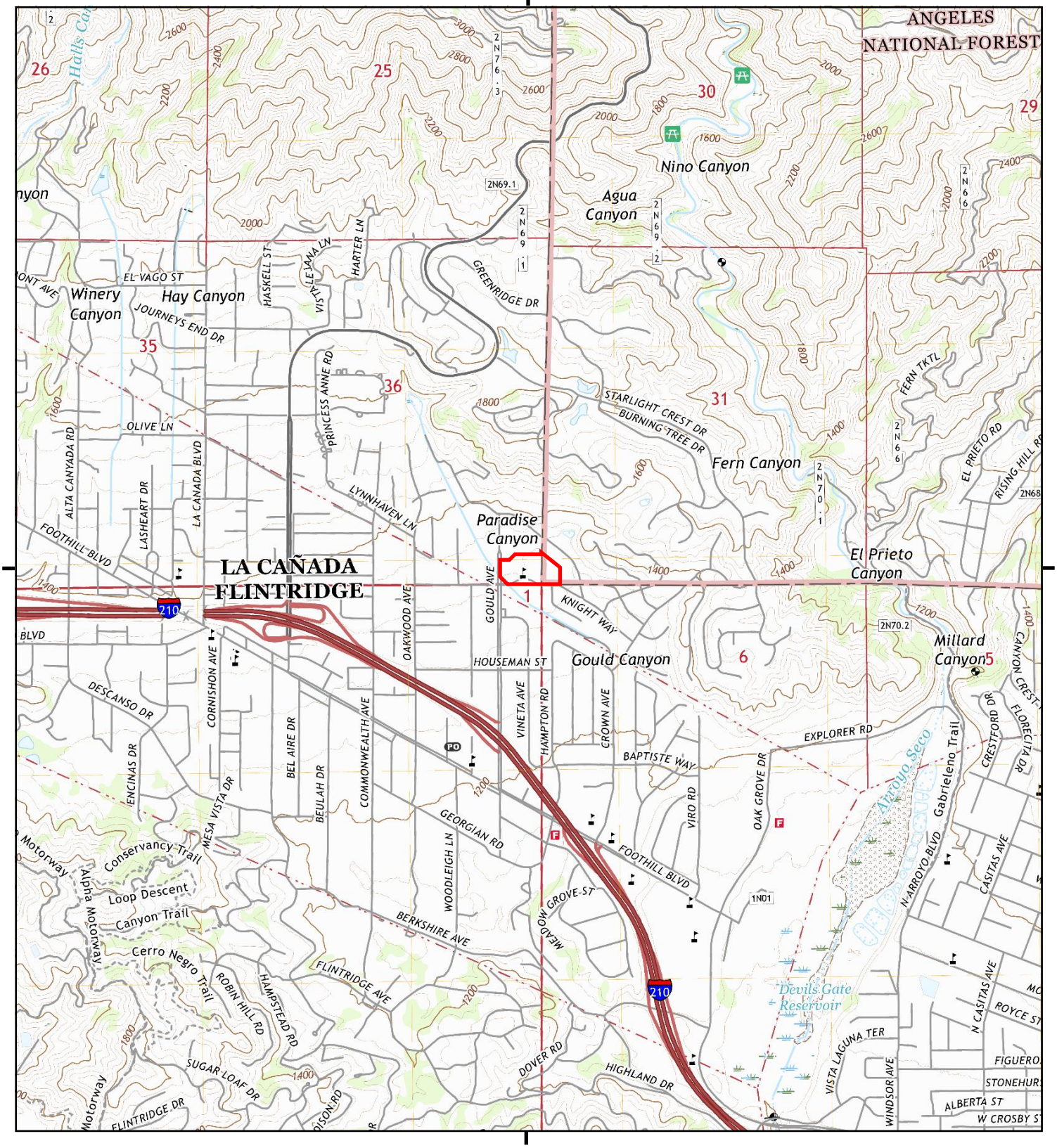
1894 Source Sheets



Los Angeles
1894
15-minute, 62500

Historical Topo Map

2018



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Pasadena, 2018, 7.5-minute

SITE NAME: Paradise Canyon Elementary School
ADDRESS: 471 Knight Way
La Canada Flintridge, CA 91011
CLIENT: Leighton Consulting

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

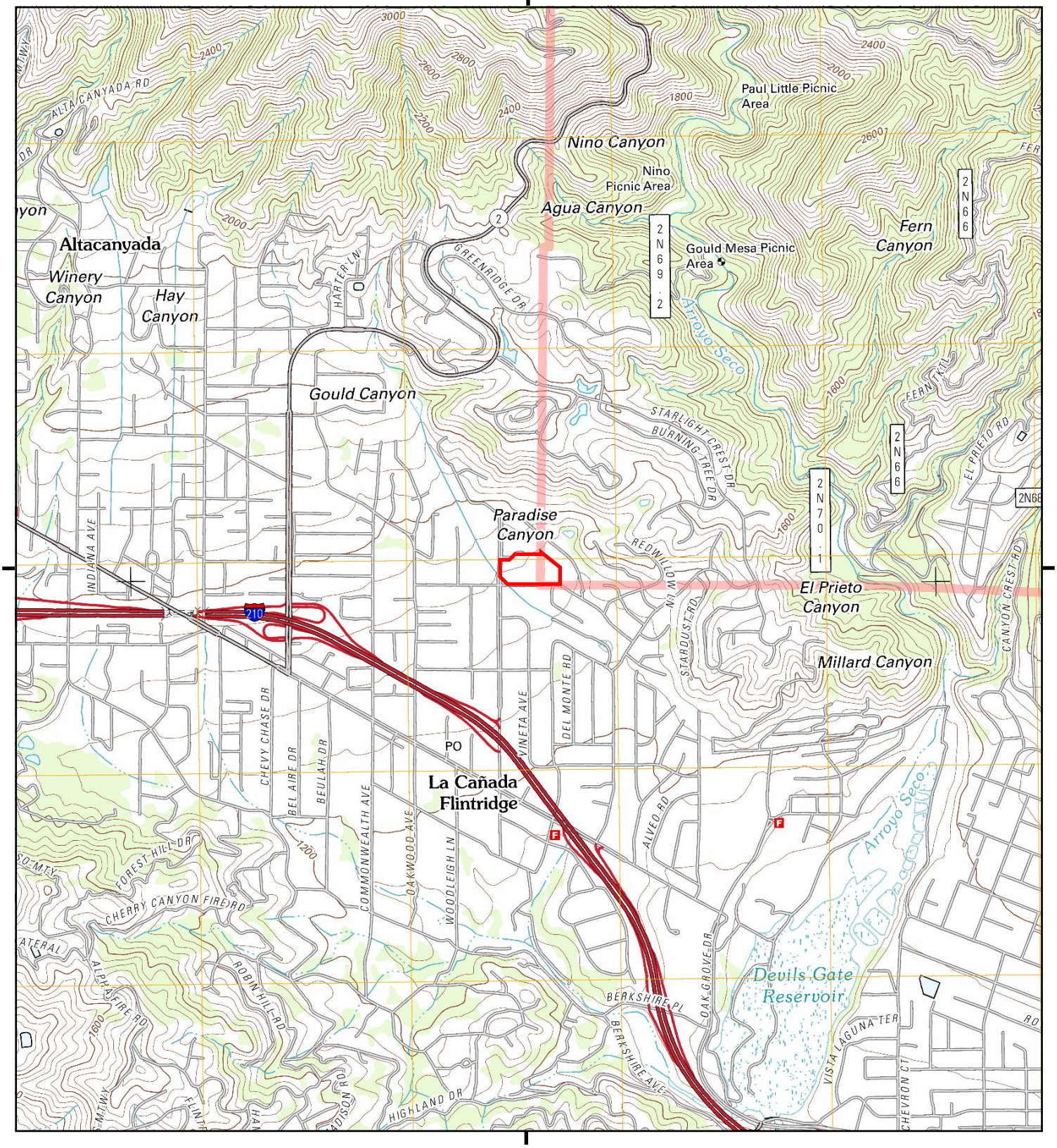
TP, Pasadena, 2015, 7.5-minute

SITE NAME: Paradise Canyon Elementary School
ADDRESS: 471 Knight Way
La Canada Flintridge, CA 91011
CLIENT: Leighton Consulting

N

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

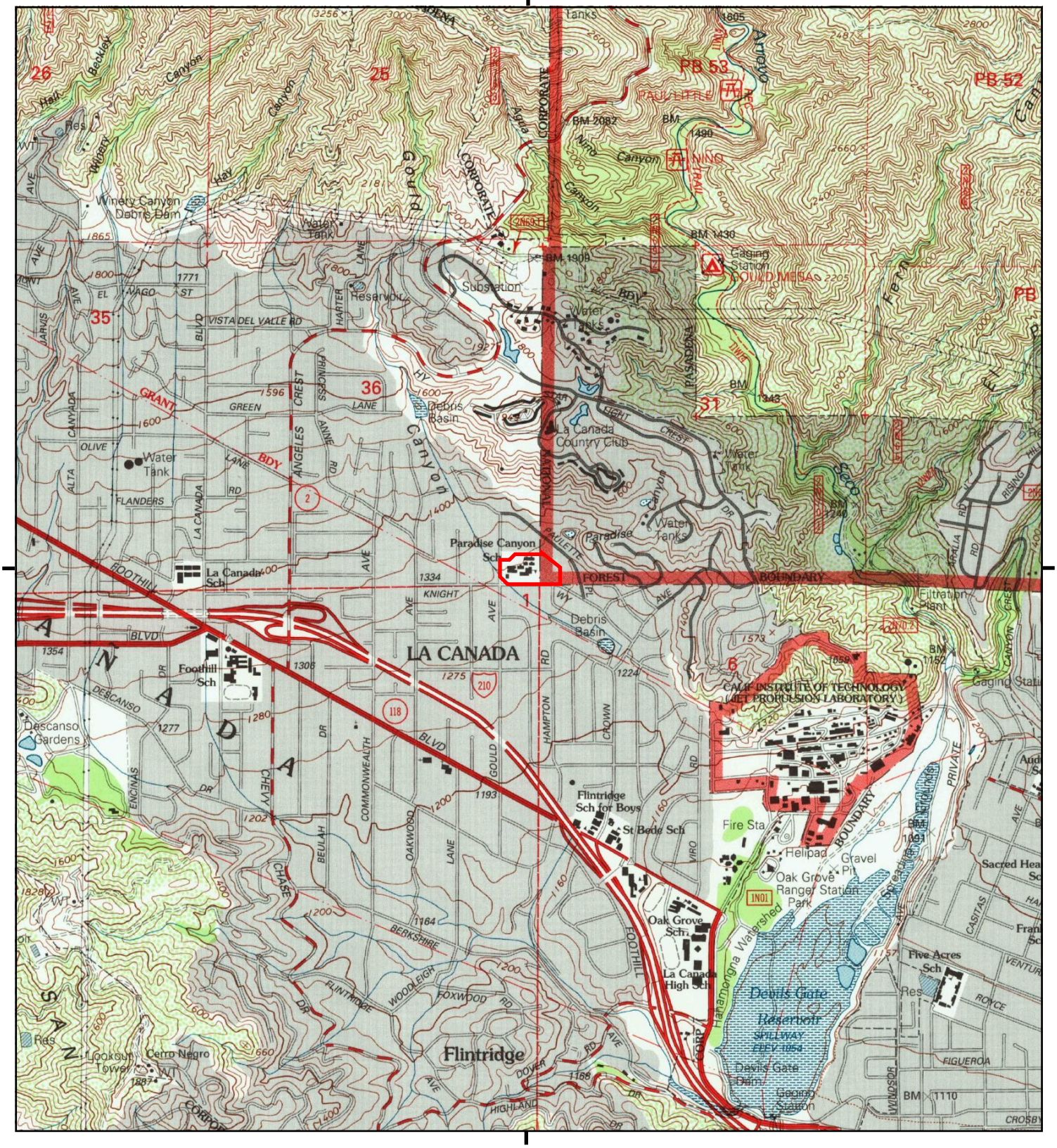
TP, Pasadena, 2012, 7.5-minute

SITE NAME: Paradise Canyon Elementary School
ADDRESS: 471 Knight Way
La Canada Flintridge, CA 91011
CLIENT: Leighton Consulting

N

Historical Topo Map

1995



This report includes information from the following map sheet(s).

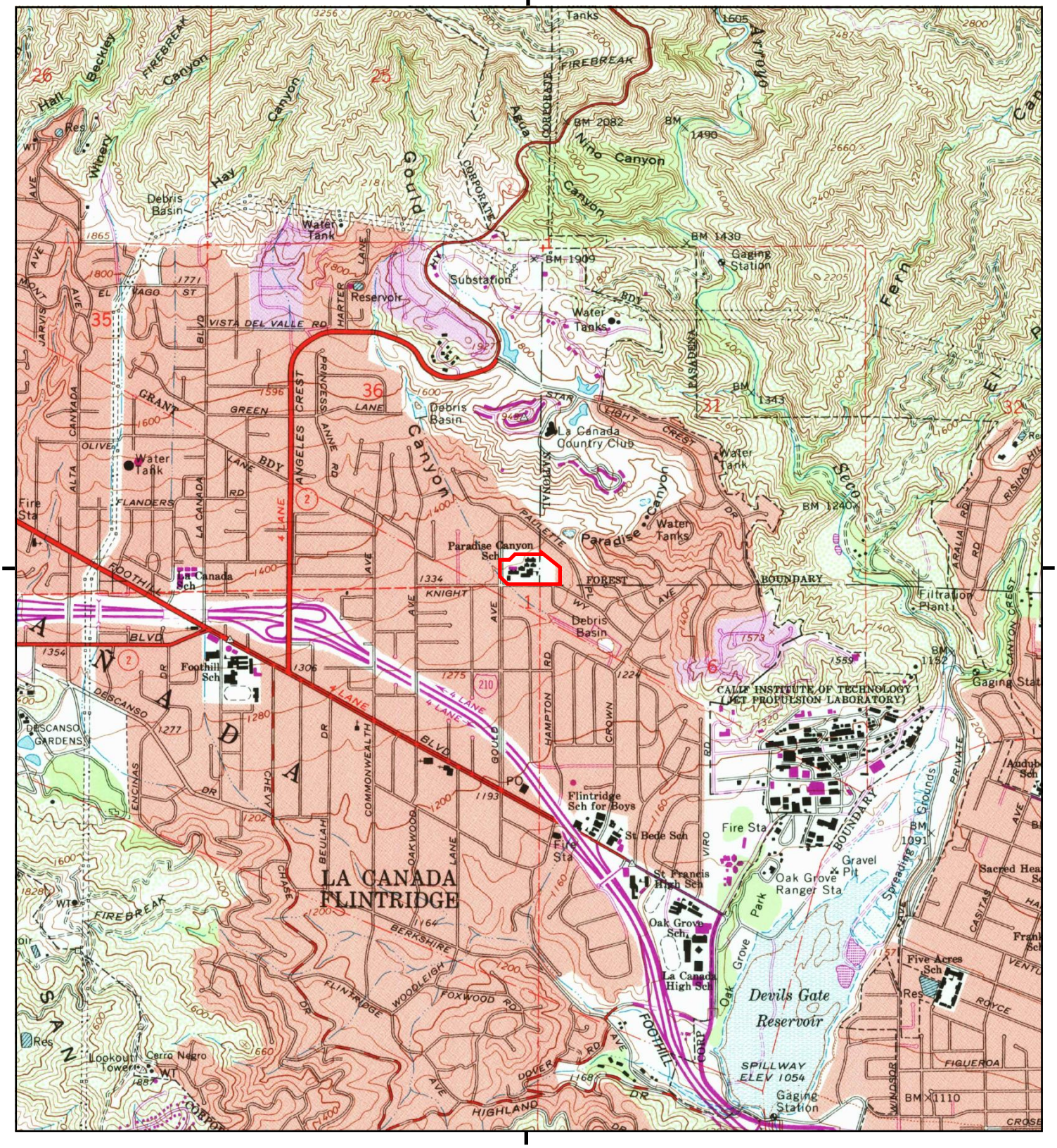
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Pasadena, 1995, 7.5-minute

SITE NAME: Paradise Canyon Elementary School
ADDRESS: 471 Knight Way
La Canada Flintridge, CA 91011
CLIENT: Leighton Consulting

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

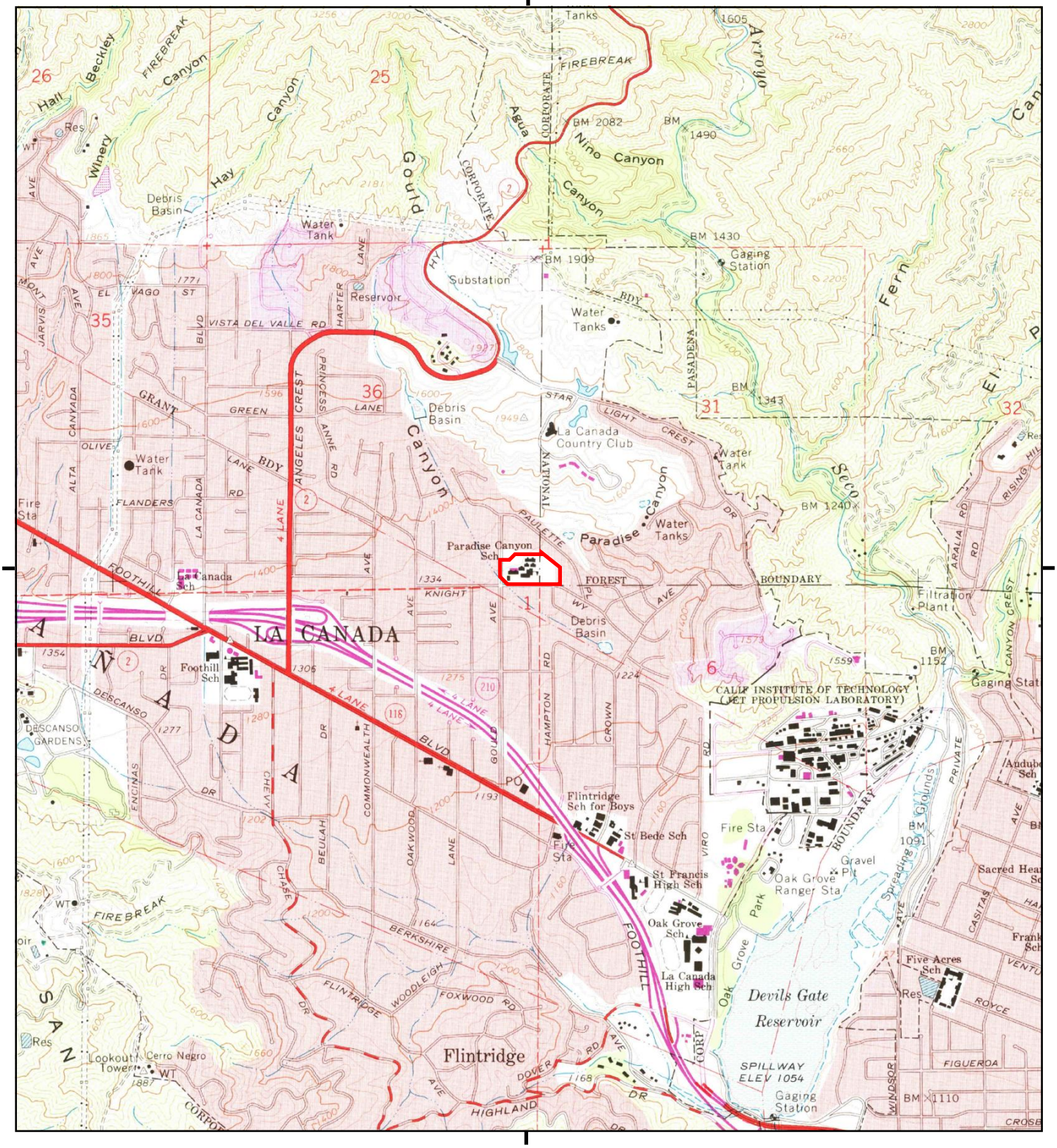
TP, Pasadena, 1988, 7.5-minute

SITE NAME: Paradise Canyon Elementary School
ADDRESS: 471 Knight Way
La Canada Flintridge, CA 91011
CLIENT: Leighton Consulting

N

Historical Topo Map

1972



This report includes information from the following map sheet(s).

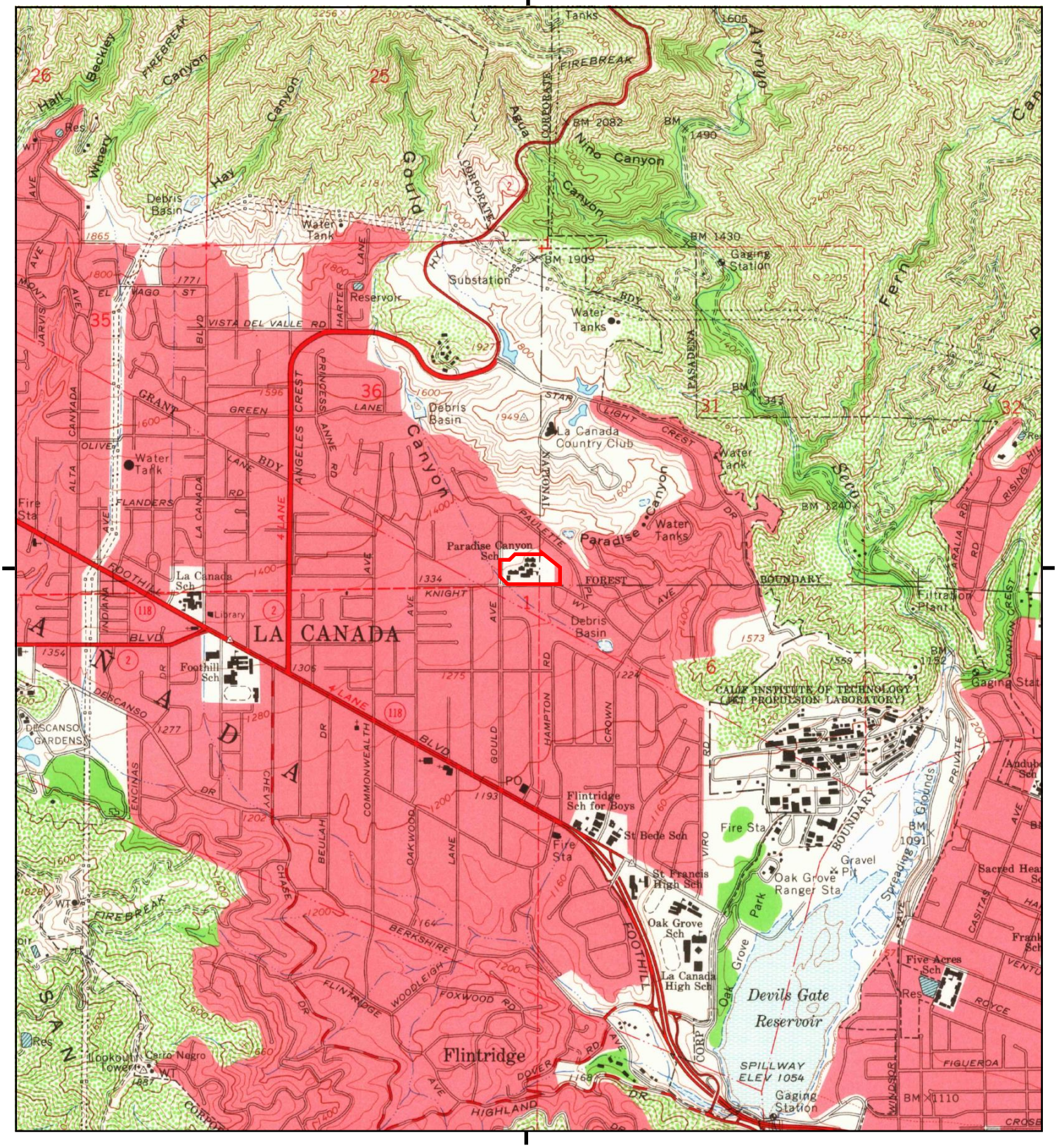
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Pasadena, 1972, 7.5-minute

SITE NAME: Paradise Canyon Elementary School
ADDRESS: 471 Knight Way
La Canada Flintridge, CA 91011
CLIENT: Leighton Consulting

N



This report includes information from the following map sheet(s).

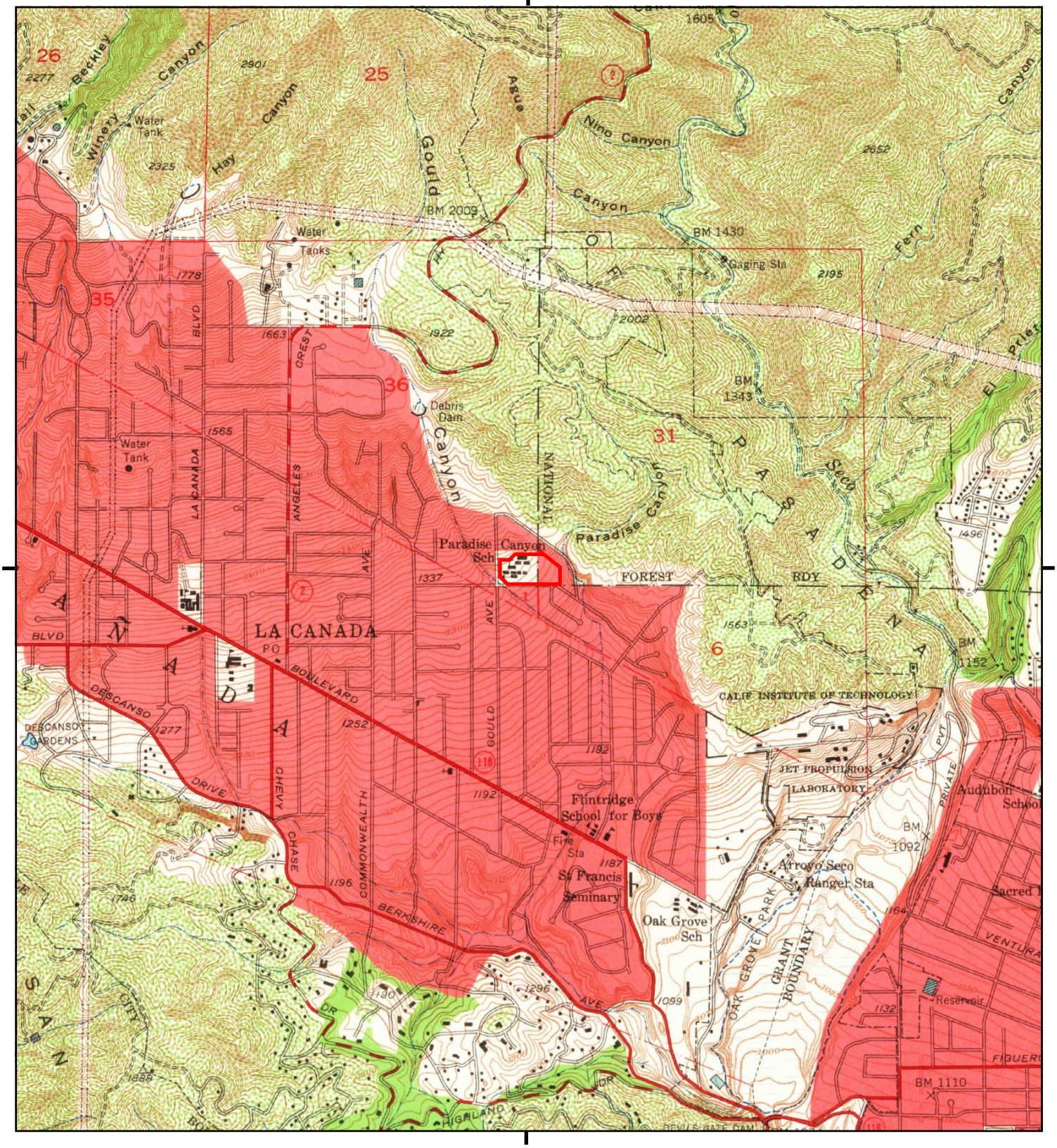
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Pasadena, 1966, 7.5-minute

SITE NAME: Paradise Canyon Elementary School
ADDRESS: 471 Knight Way
La Canada Flintridge, CA 91011
CLIENT: Leighton Consulting

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

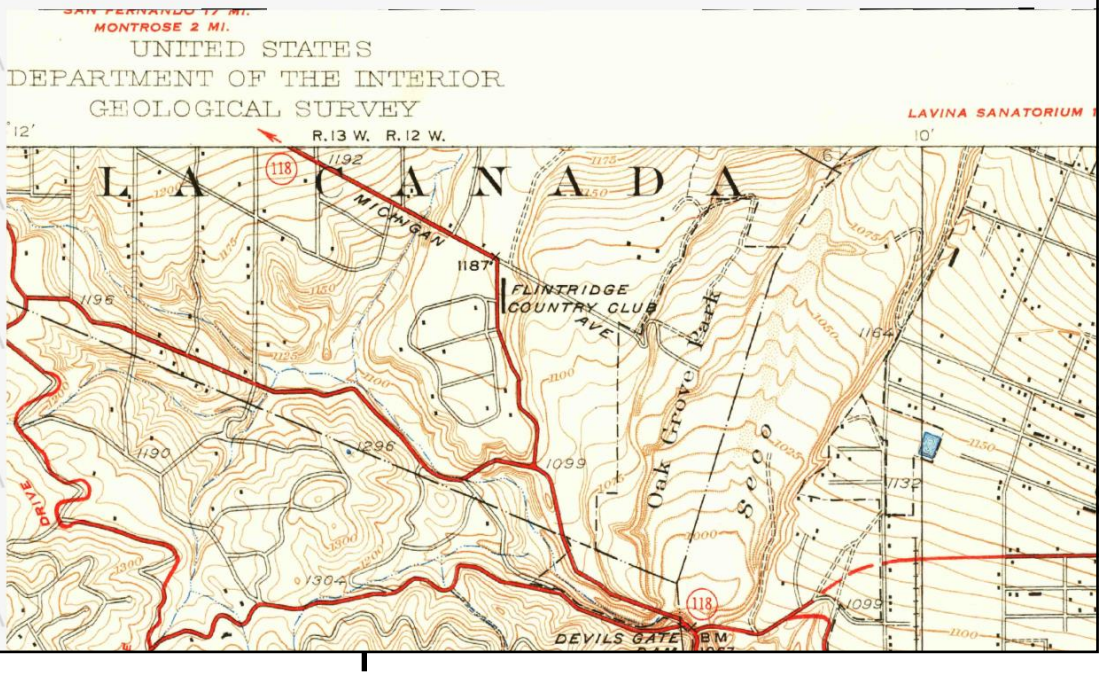
NW N NE
W E
SW S SE

TP, Pasadena, 1953, 7.5-minute

SITE NAME: Paradise Canyon Elementary School
ADDRESS: 471 Knight Way
La Canada Flintridge, CA 91011
CLIENT: Leighton Consulting

N

UNMAPPED



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Altadena, 1940, 7.5-minute

SITE NAME: Paradise Canyon Elementary School
ADDRESS: 471 Knight Way
La Canada Flintridge, CA 91011
CLIENT: Leighton Consulting

N



UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED
UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED
UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED
UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED UNMAPPED

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

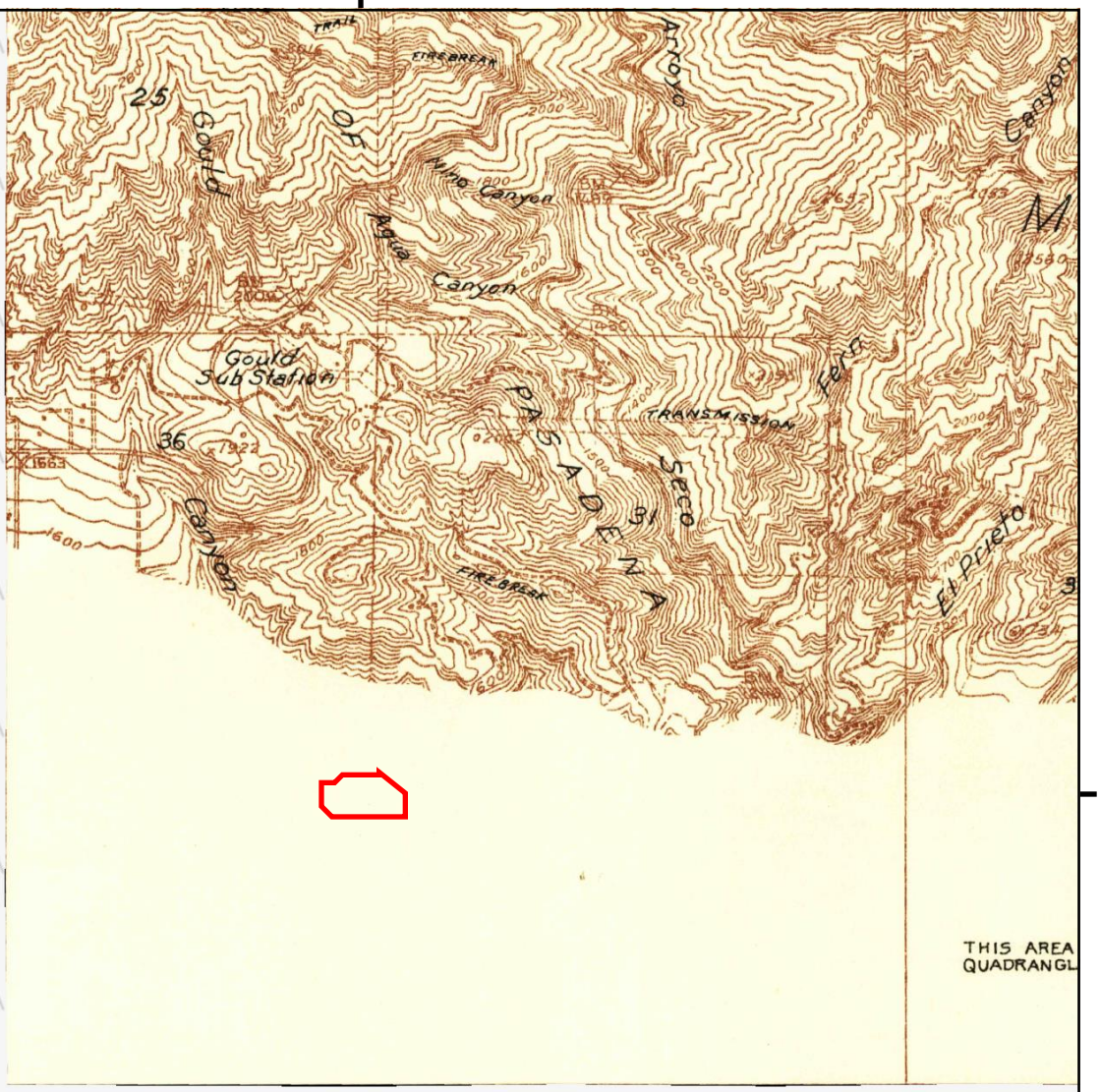
TP, Mt. Lowe, 1939, 7.5-minute
NW, La Crescenta, 1939, 7.5-minute

SITE NAME: Paradise Canyon Elementary School
ADDRESS: 471 Knight Way
La Canada Flintridge, CA 91011
CLIENT: Leighton Consulting

N

Historical Topo Map

1934



UNMAPPED

This report includes information from the following map sheet(s).

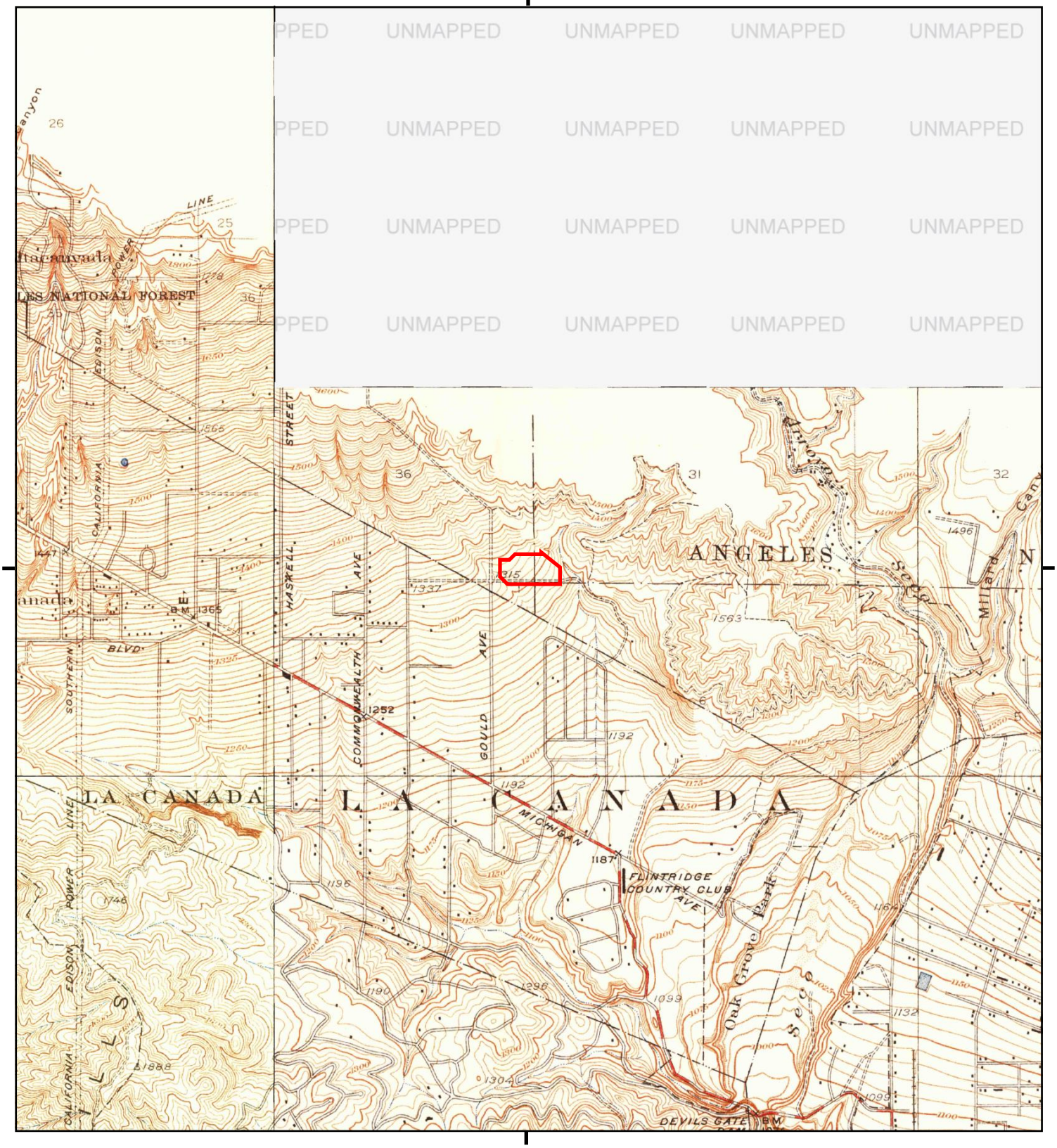
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Mt. Lowe, 1934, 7.5-minute

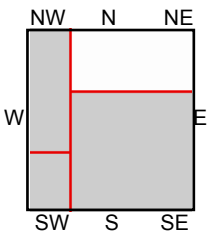
SITE NAME: Paradise Canyon Elementary School
ADDRESS: 471 Knight Way
La Canada Flintridge, CA 91011
CLIENT: Leighton Consulting

N



This report includes information from the following map sheet(s).

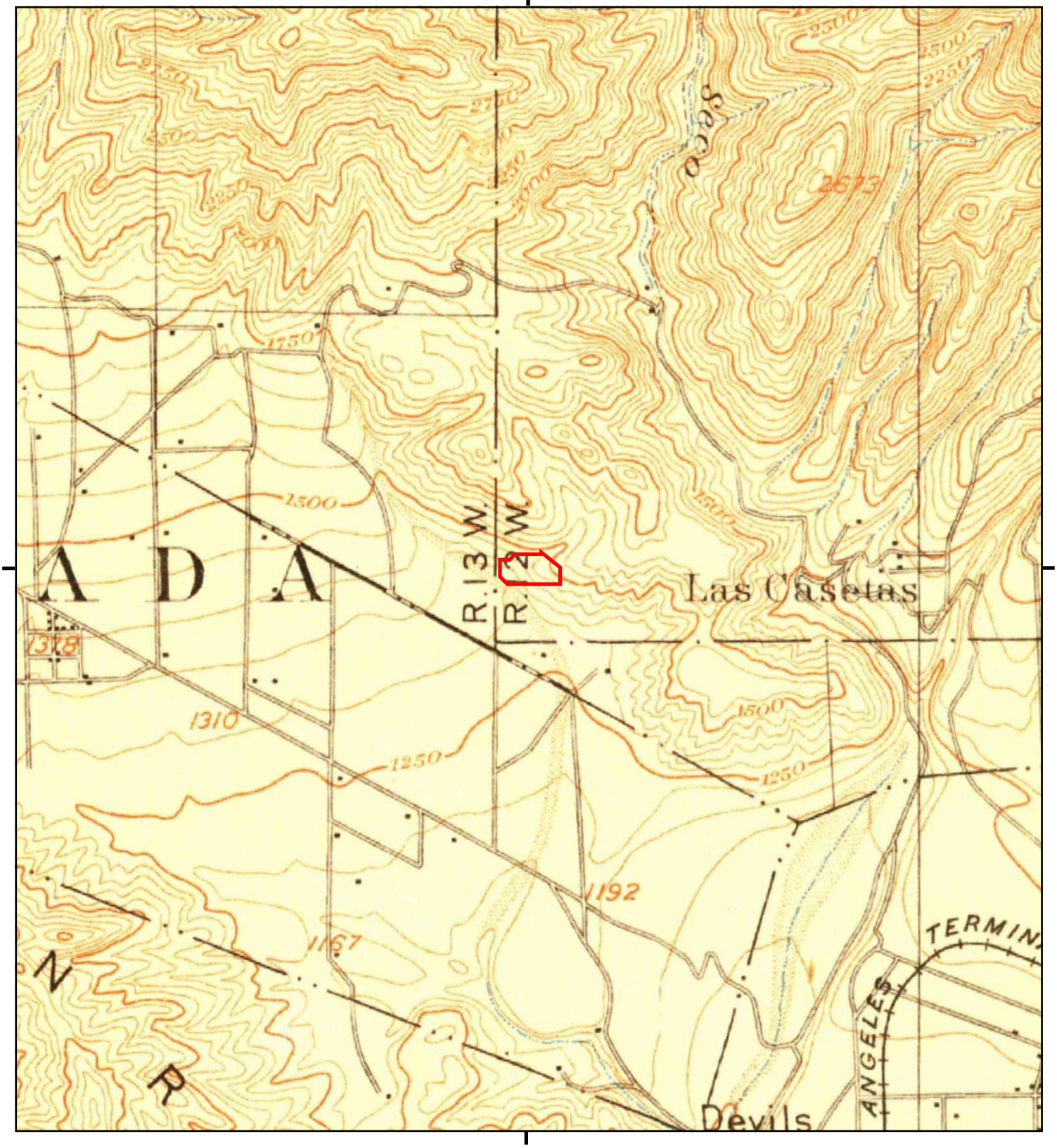
0 Miles 0.25 0.5 1 1.5



TP, Altadena, 1928, 7.5-minute
SW, Glendale, 1928, 7.5-minute
NW, La Crescenta, 1928, 7.5-minute

SITE NAME: Paradise Canyon Elementary School
ADDRESS: 471 Knight Way
La Canada Flintridge, CA 91011
CLIENT: Leighton Consulting

N



This report includes information from the following map sheet(s).

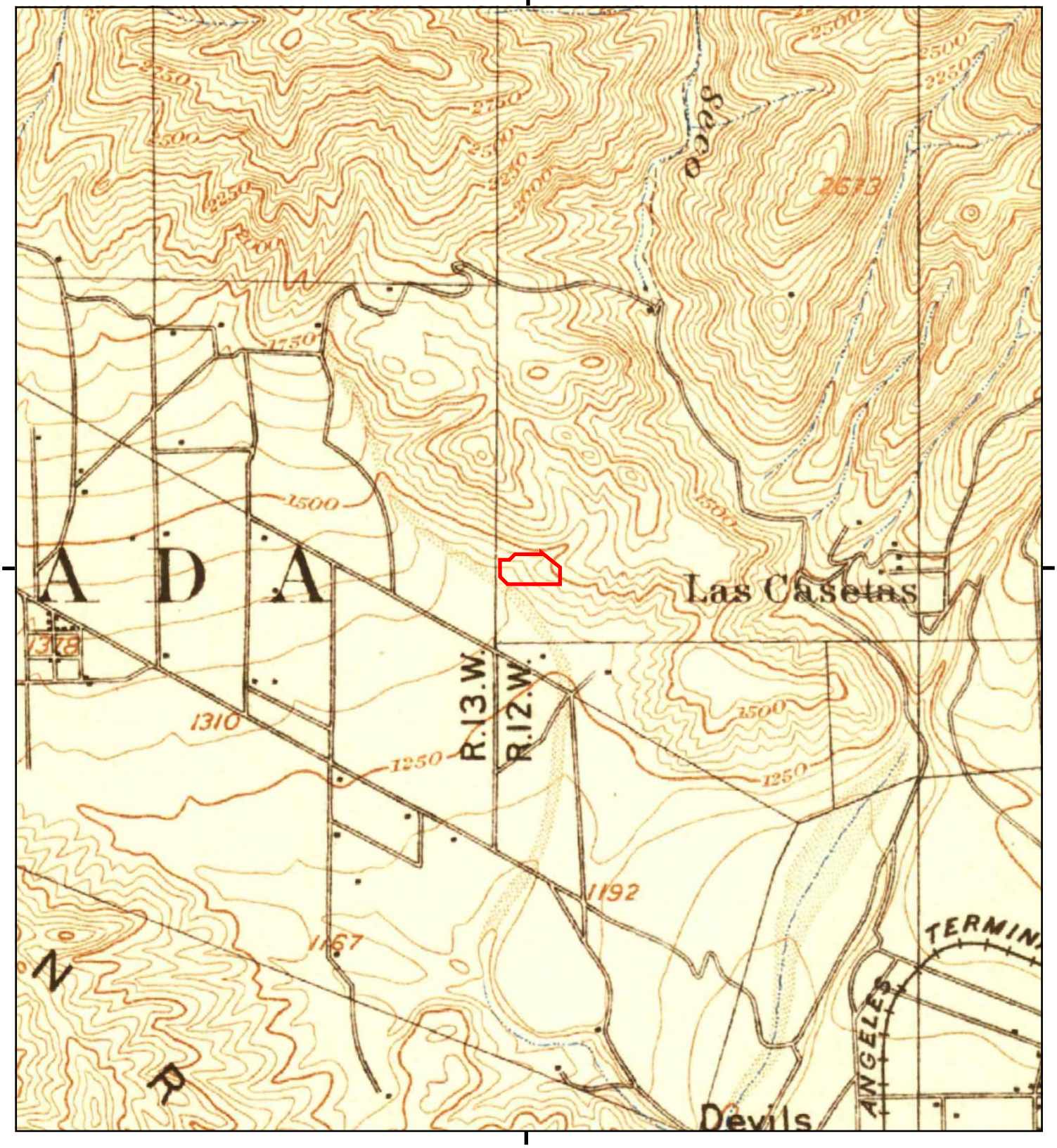
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Pasadena, 1900, 15-minute
TP, Los Angeles, 1900, 15-minute

SITE NAME: Paradise Canyon Elementary School
ADDRESS: 471 Knight Way
La Canada Flintridge, CA 91011
CLIENT: Leighton Consulting

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

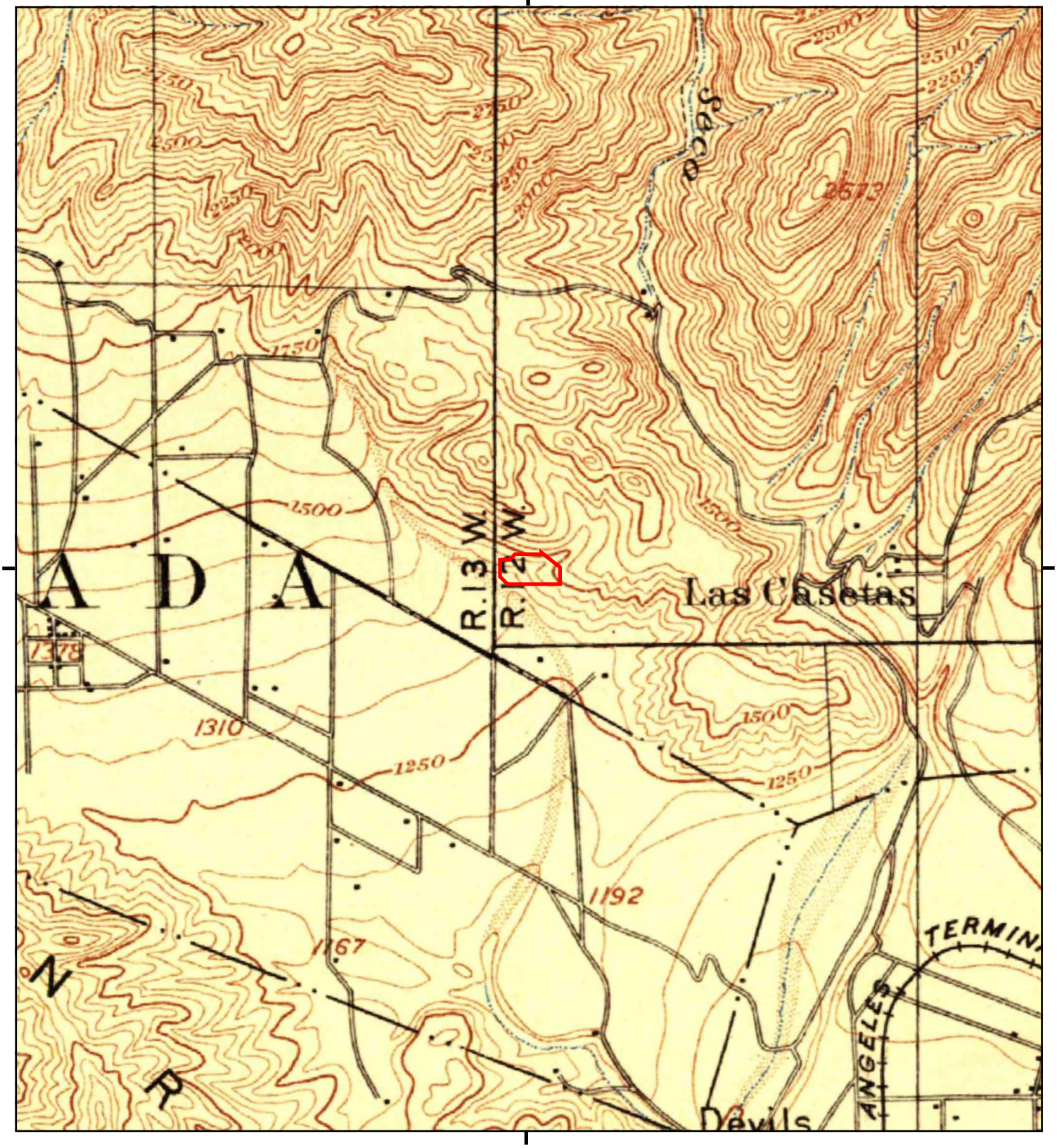
TP, Pasadena, 1896, 15-minute

SITE NAME: Paradise Canyon Elementary School
ADDRESS: 471 Knight Way
La Canada Flintridge, CA 91011
CLIENT: Leighton Consulting

N

Historical Topo Map

1894



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Los Angeles, 1894, 15-minute

SITE NAME: Paradise Canyon Elementary School
ADDRESS: 471 Knight Way
La Canada Flintridge, CA 91011
CLIENT: Leighton Consulting

N

Paradise Canyon Elementary School
471 Knight Way
La Canada Flintridge, CA 91011

Inquiry Number: 7144104.5
October 12, 2022

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	Target Street	Cross Street	Source
2014	☑	☑	EDR Digital Archive
2010	☑	☑	EDR Digital Archive
2005	☑	☑	EDR Digital Archive
2000	☑	☑	EDR Digital Archive
1995	☑	☑	EDR Digital Archive
1992	☑	☑	EDR Digital Archive
1987	☑	☑	Haines Criss-Cross Directory
1982	☑	☑	Haines Criss-Cross Directory
1976	☑	☑	Haines Criss-Cross Directory
1973	☑	☑	Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

471 Knight Way
La Canada Flintridge, CA 91011

Year	*CD Image*	*Source*

KNIGHT WAY

2014	pg A4	EDR Digital Archive
2010	pg A8	EDR Digital Archive
2005	pg A12	EDR Digital Archive
2000	pg A16	EDR Digital Archive
1995	pg A20	EDR Digital Archive
1992	pg A24	EDR Digital Archive
1987	pg A27	Haines Criss-Cross Directory
1982	pg A29	Haines Criss-Cross Directory
1982	pg A30	Haines Criss-Cross Directory
1976	pg A33	Haines Criss-Cross Directory
1976	pg A34	Haines Criss-Cross Directory
1973	pg A37	Haines Criss-Cross Directory
1973	pg A38	Haines Criss-Cross Directory

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*
GOULD AVE		
2014	pg. A2	EDR Digital Archive
2010	pg. A6	EDR Digital Archive
2005	pg. A10	EDR Digital Archive
2000	pg. A14	EDR Digital Archive
1995	pg. A18	EDR Digital Archive
1992	pg. A22	EDR Digital Archive
1987	pg. A25	Haines Criss-Cross Directory
1987	pg. A26	Haines Criss-Cross Directory
1982	pg. A28	Haines Criss-Cross Directory
1976	pg. A31	Haines Criss-Cross Directory
1976	pg. A32	Haines Criss-Cross Directory
1973	pg. A35	Haines Criss-Cross Directory
1973	pg. A36	Haines Criss-Cross Directory

City Directory Images

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

GOULD AVE 2014

4420	DECARDENAS, MARLENE M
4433	MUJU, SANDEEP
4443	BOREHAM, JAMES F
4449	WEBSTER, JULIE A
4465	BETSARGHEZ, HAMLET
4630	INSPRUCKER, LOU A
4640	KOBLIN, ALLEN M
4646	HENNON, ROBERT D
4701	THACKRAY, JOAN
	THREE SYCAMORE
4708	FLORENTIN, ILIA
4711	PINTO, PATRICK V
4712	RADNER, GARY W
4720	HEDRICK, WAYMAN M
4727	SCHULMAN, LINDA
4728	MAROUTSOS, NICK
4735	OCCUPANT UNKNOWN,
4736	ENDO, JENNIFER S
4746	GIAIMO, GARY A
4747	COMSTOCK, SCOTT P
4803	SKANDALE, ELIZABETH
4808	LEWIS, NATHAN S
4812	EHRENBERG, JAMES I
4820	GROCHOW, TIMOTHY E
4823	MARCHETTI, RONALD C
4828	PENG, STEVEN T
4833	SON, JOO S
4838	FRANKLIN, MORTON B
4839	FABRE, JEAN P
4846	BARNES, JAMES J
4900	PANTAZIS, DEMETRIOS
4901	FOLB, SCOTT G
4909	BAUGHMAN, EUGENE E
4919	OCCUPANT UNKNOWN,
4920	ROSEKOS, ROBERT L
4927	MCQUAY, TIMOTHY C
4937	REILLY, ROBERT T
4938	CHOI, WARREN W
4945	ZARRABI, HOMAYOUN V
5027	HING, RICHARD A
	ROBERTS, KEVIN T
5032	MANNING, DONALD L
5034	YOUG, JACK
5036	WU, FRANK H
5038	YASUDA, ROBERT S
5040	MERRIFIELD, FRED E
5043	HERRMANN, BRYAN L
5100	HWANG, SEAN
5101	CHOI, DAVID K
5109	SARAFIAN, NORMAN R

GOULD AVE 2014 (Cont'd)

5114 THOMPSON, JORDON R
5117 FIGGE, GEORGE J
5120 JAMES, THOMAS E
SPEED PROHOME OFFICE
5123 SOHN, HYANG E
5130 HONG, NAM
5131 WANNIER, TIMOTHY
5144 PARK, SHI J
5150 VELASCO, JEFFREY C
5155 DUNDEE, VINCE
5156 OCCUPANT UNKNOWN,
5165 HARRIS, JEFFREY B
5168 OCCUPANT UNKNOWN,
5171 OCCUPANT UNKNOWN,
5201 BOZANIC, MARILYN H
5202 KIM, JI W
5209 MELILLO, JASON C
5219 LEE, KYU D
5222 BARRON, ANDREW E
5224 ROBERTS, MARGARET C
5235 COHEN, PANS
5236 MURTHI, RAVI K
5241 ALLEN, DAVID M
5246 CHAMBERLAIN, PAUL H
5249 AMEND, ERIC W
5250 OH, KI Y
5252 OCCUPANT UNKNOWN,
5255 HARWOOD, STEVE N
5256 SIMONIAN, FRED
5259 NI, ANKANG
5260 LEFLANG, EVELYN B
5263 WILSON, GINA
5267 DONATO, VIRGINIA I
5270 LEW, LUNG P
5271 WEST REMODELING INC
WEST, RICK D
5276 TAYLOUR, NANCY
5277 BRUTOCAO, GIANCARLO A
5284 ANDERSON, CRAIG H
5288 HADDAD, NABIL K

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

KNIGHT WAY 2014

310 ROSE, DAVID L
311 ZAMANI, PAYAM A
315 PUNJ, VASU
316 CHEN, YUEHSIN C
319 MASTERS, JOHN S
320 OCCUPANT UNKNOWN,
324 OCCUPANT UNKNOWN,
325 OCCUPANT UNKNOWN,
329 MAYA, CHARLOTTE F
330 MARR, MAUREEN C
334 YIM, SOON Y
337 YERETSIAN, NELLIE
338 WOO, DENNIS R
342 KENNEY, ROBERT D
346 HART, MATTHEW
347 MCCARTHY, DOROTHY
354 ANDERSON, WILLIAM D
357 MCCARTHY, ROBERT L
358 BAXTER, CONNIE M
364 KAYALI, MOHAMED I
367 PARKER, THOMAS W
372 GODDARD, DAVID B
373 LEE, HARRY S
379 FOOTHILL AUDIO SECURITY TEAM
FRITZ, ALICE U
380 DAY, JOHN C
384 NOMOTO, BRUCE I
388 SHIMODA, ROBERT S
402 CHO, ILMYUNG
405 ROBERTS, TYLER J
408 OCCUPANT UNKNOWN,
412 CHENEY, MATTHEW D
415 COSTELLO, FRANCIS W
423 LAWTON, REESE
448 SHERIF, JUDY A
450 KLUMPE, BRIAN A
458 SCHERBERT, JASON
464 HERRMANN, CHRISTOPHER M
470 OCCUPANT UNKNOWN,
471 CHILD EDUCATIONAL CENTER AT PARADISE
LA CANADA UNIFIED SCHOOL DISTRICT
PARADISE CANYON ELEMENTARY SCHOOL
476 BERMAN, GERALD B
507 DEAN, KENNETH M
510 LEE, SANG I
513 SIMPSON, EDWIN M
521 BALISY, HUSAM B
523 HAMILTON, MICHAEL A
525 OCCUPANT UNKNOWN,
527 EVELYN, JOSEPH B

KNIGHT WAY 2014 (Cont'd)

535	OCCUPANT UNKNOWN,
543	HAHN, DONALD P
600	GRUBER, STEPHEN B
606	TANG, KENNETH S
607	EMI, RODERICK M
608	OCCUPANT UNKNOWN,
612	READ, CHARLES B
618	IRVINE, JOHN A
619	FRIED, HOWARD B
621	CHOI, MARK E
624	LEE, JAMES J
627	YANG, SEON K
628	GODDARD, DOUGLAS J
633	SMITH, RONALD L
634	CLARK, JOHN G
636	VANDERHOEVEN, MILDRED L
639	FRIED, JOEL
640	KUNIMUNE, NAOMI

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

GOULD AVE 2010

4420	CARDENAS, GILBERT B
4433	CHUNG, KWAN B
4443	BOREHAM, JAMES F
4449	FORD, HENRI R
4455	FITIUAN, MARGUERITE R
4465	OCCUPANT UNKNOWN,
4630	INSPRUCKER, LOU A
4640	KOBLIN, RONALD L
4646	HENNON, ROBERT D
4701	THACKRAY, JOAN
4708	OAKES, ROYAL F
4711	PINTO, PRAKASH S
4712	RADNER, GARY W
4720	EDWARDS, JEANNE S
4721	OCCUPANT UNKNOWN,
4727	ROH, CHANG E
4728	MAROUTSOS, NICK
4735	KIM, HAE S
4736	ENDO, JENNIFER S
4746	GIAIMO, ROBERT F
4747	COMSTOCK, SCOTT P
4803	SKANDALE, ELIZABETH
4808	LEWIS, NATHAN S
4812	PARK, KRIS
4815	BACHMAYER, LEE M
4820	GROCHOW, TIMOTHY E
4823	MARCHETTI, RONALD C
4828	PENG, STEVEN T
4833	KOTICK, RON L
	SON, JOO S
4838	FRANKLIN, MORTON B
4839	OCCUPANT UNKNOWN,
4846	BARNES, JAMES J
4900	PANTAZIS, DEMETRIOS K
4901	FOLB, SCOTT G
4909	BAUGHMAN, EUGENE E
4919	SANBAR, SHADI S
4920	ROSEKOS, ROBERT L
4927	MCQUAY, TIMOTHY C
4928	OCCUPANT UNKNOWN,
4937	REILLY, ROBERT T
4938	LEE, SUNG Y
	YAMATO TRADING INC
4945	ZARRABI, HOMAYOUN V
5027	HING, RICHARD A
5032	MANNING, DONALD O
5034	CHOI, YANG J
5036	WU, FRANK H
5038	YASUDA, ROBERT S
5040	MERRIFIELD, FRED E

GOULD AVE 2010 (Cont'd)

5042	NEWQUIST, EDWARD S
5043	HERRMANN, BRYAN L
5100	HAUTER, CHRISTIAN
5101	ALEJO, ENRIQUE M
5109	SARAFIAN, NORMAN R
5114	THOMPSON, ISABELLE
5117	FIGGE, GEORGE J
5120	JAMES, THOMAS E
5123	ROBERTSON, ANTHONY J
5127	OCCUPANT UNKNOWN,
5130	HONG, NAM
5131	SHULL, LENORA R
	WANNIER, PETER G
5144	PARK, SHI J
5150	VELASCO, JEFFREY C
5155	DUNDEE, VINCE
5156	VANVALER, ROBERT T
5165	HARRIS, JEFFREY B
5168	BURKE, PAULA K
5171	SLATTERY, WILLIAM H
5201	BOZANIC, GEORGE
5202	KIM, CHONG M
5209	MELILLO, JASON C
5219	LEE, KYU M
5222	OCCUPANT UNKNOWN,
5224	ROBERTS, MARGARET C
5225	ENGLAND, ALBERT O
5235	COHEN, PARIS
5236	MURTHI, VENUGOPALAN K
5241	ALLEN, DAVID M
5246	COLE, MARGARET C
5249	AMEND, ERIC W
5252	OCCUPANT UNKNOWN,
5255	HARWOOD, STEVE N
5256	WERHANE, HILLARY H
5259	LORD, RODRICK H
5260	OCCUPANT UNKNOWN,
5263	CASTIGLIA, PHILIP A
5267	DONATO, VIRGINIA I
5270	LEW, LUNG P
5271	APARICIO, DAVID B
	WEST REMODELING INC
5276	BURNS, SCOTT A
5277	BRUTOCAO, WILLIAM J
5280	OCCUPANT UNKNOWN,
5288	KELLEY, BRIAN H

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

KNIGHT WAY 2010

310	OBERG, NEAL S
311	ZAMANI, PAYAM A
315	ROGAN, SEAN K
316	CHEN, YUE H
319	MASTERS, JOHN
320	OCCUPANT UNKNOWN,
324	OCCUPANT UNKNOWN,
325	EYSTER, EUGENE R
329	MAYA, CHARLOTTE F
330	MARR, WILLIAM L
334	YIM, SOON Y
337	SCHMITT, MARIA J
338	WOO, ROBERT P
342	KENNEY, ROBERT D
346	ERICKSON, JAY S
354	ANDERSON, JUAN
357	MCCARTHY, ROBERT L
358	BAXTER, JERRY B
367	PARKER, THOMAS A
372	GODDARD, DAVID H
373	LEE, HARRY S
379	FRITZ, ALICE U
380	OROURKE, PATRICK K
384	NOMOTO, BRUCE I
388	SHIMODA, ROBERT S
402	CHO, ILMYUNG
405	ALBUERNE, CARLOS J
408	KIN, JOOTAE
412	CHENEY, MATTHEW
415	COSTELLO, FRANCIS W
416	SIMPSON, DONALD E
423	SPAIN, KYLE M
448	SHERIF, JUDY A
450	KLUMPE, TAMARA J
458	VALERIL, HELENA
464	HERRMANN, CHRISTOPHER M
470	RICHMOND, WALTON B
471	CHILD EDUCATIONAL CTR
	PARADISE CANYON ELEMENTARY
	UNITED CONTRACTORS CO INC
476	OCCUPANT UNKNOWN,
507	DEAN, BEVERLY H
510	LEE, SANG I
513	SIMPSON, EDWIN M
521	BALISY, HUSAM B
523	OCCUPANT UNKNOWN,
525	HERMAN, RICK A
527	EVELYN, JOSEPH B
535	ACHTERMAN, RAYMOND L
543	HAHN, DONALD P

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

KNIGHT WAY 2010 (Cont'd)

600 GALPER, MICHAEL R
606 TANG, KENNETH S
607 EMI, LANCE K
608 DAVIDSON, CHARLIE
612 READ, CHARLES B
618 IRVINE, JOHN A
619 FRIED, JOEL P
621 CHOI, MARK E
624 MCCHESNEY, IRENE M
627 YANG, CHEOL S
628 GODDARD, DOUGLAS J
633 SMITH, RONALD L
634 CLARK, JOHN G
636 VANDERHOEVEN, MILDRED L

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

GOULD AVE 2005

4420	DECARDENAS, GILBERT B
4433	LEE, DAE Y
4443	BOREHAM, JAMES F
4449	FORD, HENRI R
4455	OCCUPANT UNKNOWN,
4465	AYVAZIAN, HAKOB
4630	JOHNSTON, ANN E
4640	KOBLIN, ALLEN M
4646	HENNON, ROBERT D
4701	CALENDAR VISIONS
	TEC XCEL MICROCOMPUTER SERVICES
	VANBOGAERT, JEFFREY M
4708	OAKES, ROYAL F
4711	OCCUPANT UNKNOWN,
4712	KAYNE, S
4720	EDWARDS, JOHN S
4721	ASATOORIAN, ALBERT P
4727	LEE, KEE J
4728	BEAUCLAIR, JOHN P
4735	LOCKE, MELVIN A
4736	WOODFORD, BRENT A
4746	GIAIMO, ROBERT F
4747	COMSTOCK, SCOTT P
4803	SKANDALE, GEORGE C
4808	LEWIS, NATHAN S
4812	KIM, YOUNG J
4815	BACHMAYER, LEE M
4820	GROCHOW, TIMOTHY E
4823	MARCHETTI, RONALD C
4828	PENG, STEVEN T
4833	BRIAN, MICHAEL
	KO JO PROMOTIONS
	KOTICK, RON L
4838	MILLER, GREGORY E
4839	OCCUPANT UNKNOWN,
4846	BARNES, JAMES J
4900	PANTAZIS, DEMETRIOS K
4901	OCCUPANT UNKNOWN,
4909	BAUGHMAN, L E
4919	SANBAR, SHADI S
4920	ROSEKOS, ROBERT L
4927	MCQUAY, TIMOTHY C
4928	MONTGOMERY, ROBERT A
4937	REILLY, ROBERT T
4938	JOUNG, YIE J
4945	OCCUPANT UNKNOWN,
5027	HING, RICHARD A
5032	MANNING, DONALD O
5034	MUMPER, DONALD E
5036	DUCA, DOMINIC N

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

GOULD AVE 2005 (Cont'd)

5038 OCCUPANT UNKNOWN,
5040 MERRIFIELD, FRED E
5042 NEWQUIST, EDWARD S
5043 HERRMANN, BRYAN L
5100 HAUTERFRED, E
5101 ALEJO, ENRIQUE
5109 SARAFIAN, NORMAN R
5114 THOMPSON, ISABELLE
5117 FIGGE, GEORGE J
5120 JAMES, THOMAS E
5123 ROBERTSON, ANTHONY J
5127 OCCUPANT UNKNOWN,
5130 HONG, SOON I
5144 PARK, SHI J
5150 VELASCO, ROBERT M
5155 DUNDEE, VINCE
5156 VANVALER, ROBERT T
5165 HARRIS, JEFFREY B
5168 BURKE, RICHARD F
5171 SLATTERY, WILLIAM H
5201 BOZANIC, GEORGE
5202 KIM, CHONG M
5209 MELILLO, JASON C
5219 LEE, KYU M
5222 BARRON, ANDREW E
WHITE TRASH GIRLS
5224 ROBERTS, MARGARET C
5225 HSIAO, SHUCHI V
PERFECTION REALTY
5235 OCCUPANT UNKNOWN,
5236 OCCUPANT UNKNOWN,
5241 LINN, MICHAEL G
5249 AMEND, ERIC W
5250 OH, KEVIN K
5252 OCCUPANT UNKNOWN,
5255 HARWOOD, STEVE N
5256 WERHANE, HILLARY H
5260 LEFLANG, JOHN G
5263 KING, NORA M
5267 DONATO, VIRGINIA
5270 LEW, LUNG R
5276 YUO, PETER Z
5277 BRUTOCAO, WILLIAM J
5280 DUMAIN, WILFIRD J

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

KNIGHT WAY 2005

310	OBERG, NEAL S
311	ZAMANI, PAYAM A
315	EVENSON, NELLIE C
316	CHEN, YUE H
319	MASTERS, ALBERT J
320	HOBBS, GUY S
324	KUANG, DAVID A
325	EYSTER, EUGENE R
329	MAYA, SAMUEL L
330	MARR, WILLIAM L
334	JOHNSON, DORA J
337	SCHMITT, PAUL J
338	EMI, RODERICK M
342	KENNEY, ROBERT D
346	CRAWFORD, JIM V
354	ANDERSON, JUAN
357	MCCARTHY, ROBERT L
	THRO RITE
358	BAXTER, JERRY B
367	PARKER, THOMAS W
372	GODDARD, DAVID H
373	LEE, FRANKLIN Y
379	FRITZ, ALICE U
380	OROURKE, PATRICK K
388	SHIMODA, ROBERT S
402	CUNNINGHAM, TIMOTHY M
405	ALBUERNE, CARLOS J
408	CONROY, GERALD J
412	CHENEY, MATTHEW
415	OCCUPANT UNKNOWN,
416	SIMPSON, DONALD E
423	OCCUPANT UNKNOWN,
448	SHERIF, JUDY A
450	KLUMPE, TAMARA J
458	DURDEN, JAMES V
464	HERRMANN, CHRISTOPHER M
470	KULAWIK, ALAN
471	LA CANADA UNIFIED SCHOOL DST
	PACK 519
	PARADISE CANYON ELEMENTARY SCHOOL
476	BERMAN, GERALD B
507	DEAN, BEVERLY H
510	JUN, TAE H
513	SIMPSON, EDWIN M
521	BALISY, HUSAM S
523	HAMILTON, MICHAEL A
525	HERMAN, RICK A
527	EVELYN, JOSEPH B
535	ACHTERMAN, KERMIT L
600	PENROD, GAYLE A

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

KNIGHT WAY 2005 (Cont'd)

606	TANG, KENNETH S
607	EMI, LANCE K
608	OCCUPANT UNKNOWN,
612	READ, CHARLES B
618	IRVINE, JOHN A
619	OCCUPANT UNKNOWN,
621	CHOI, MARK E
622	HECK, DONALD D
624	MCCHESNEY, IRENE M
628	GODDARD, DOUGLAS J
633	SMITH, RONALD L
634	REED, LYNETTE R
636	VANDERHOEVEN, MILDRED L
640	DORAM, MICHAEL M

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

GOULD AVE 2000

4443	BOREHAM, JAMES
	CHUMO, NATALIA
4449	GORVETZIAN, KENNETH R
4465	AVESYAN, A
4630	JOHNSON, LOUIS A
4646	NEUMEIER, GARY G
4708	OAKES, ROYAL F
4711	PINTO, PATRICK
4712	KAYNE, S
4720	EDWARDS, JOHN S
4721	BUCHALTER, WILLIAM O
4727	NOVAK, MATILDA S
4728	DORAN, P L
4735	LOCKE, MELVIN W
4736	ARJANI, T A
4746	GIAIMO, GARY A
4803	SKANDALE, GEORGE C
4808	DRAKE, EDWARD G
4811	FRANCIS, NANCY H
4812	KIM, YOUNG J
4815	BACHMAYER, R W
4820	VANROOY, WILLIAM C
4823	MARCHETTI, RONALD C
4828	PENG, STEVEN
4833	KOTICK, RONALD L
4838	MILLER, GREGORY
4839	BUNN, WILEY D
4846	BARNES, JAMES J
4909	BAUGHMAN, L E
4919	HENRY, A B
4920	ROSZKOS, ROBERT
4927	MCQUAY, TIM
4928	MONTGOMERY, JOHN O
4937	HEINZ, JUDITH
	OREILLY, ROBERT T
	REILLY, ROBERT T
4938	WEE, MICHAEL M
4945	PREHN, ROY F
5027	HING, RICHARD
5032	MANNING, DONALD O
5034	MUMPER, DONALD E
5036	DEIDUCA, DAYNA I
5038	YASUDA, JAMES S
5040	MERRIFIELD, FRED E
5042	ARMAN, HAROLD
5043	HERRMANN, BRYAN L
5100	HAUTER, LOUISE E
5101	ALEJO, ENRIQUE M
5109	OCCUPANT UNKNOWN,
5114	OCCUPANT UNKNOWN,

GOULD AVE 2000 (Cont'd)

5117	FIGGE, GEORGE J
5120	MISSAKIAN, BETTY
5123	OCCUPANT UNKNOWN,
5127	KORESKO, CHRIS D
5131	WANNIER, PETER
5144	OCCUPANT UNKNOWN,
5150	VELASCO, ROBERT
5155	DUNDEE, SCOTT A
5156	VANVALER, ROBERT A
5165	OCCUPANT UNKNOWN,
5168	BURKE, RICHARD F
5171	SLATTERY, WILLIAM H
5201	BOZANIC, GEORGE
5202	OCCUPANT UNKNOWN,
5209	CARBONETTI, GORDON G
5219	LEE, KYU
5222	OCCUPANT UNKNOWN,
5224	ROBERTS, M C
5225	ENGLAND, ALBERT O
5235	OCCUPANT UNKNOWN,
5236	MURTHI, PRITVI K
5241	LINN, MICHAEL E
5246	COLE, TERRY
5249	OCCUPANT UNKNOWN,
5250	REINEN, BARBARA W
5252	LANE, BARRY J
5255	HARWOOD, STEVE
5256	DAMON, SUZANNE
5259	LEWIS, NATHAN
5260	OCCUPANT UNKNOWN,
5263	SABOURIN, DAVID
5267	OCCUPANT UNKNOWN,
5270	LEW, LUNG P
5271	OCCUPANT UNKNOWN,
5276	YUO, PETER Z

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

KNIGHT WAY 2000

310	OBERG, NEAL
311	ZAMANI, PAYAM
315	BURNETT, KATHY J
	EVENSON, NELL C
316	OCCUPANT UNKNOWN,
319	MASTERS, JOHN
320	JAMES, THOMAS E
324	PATON, FRANK
325	EYSTER, EUGENE R
329	MAYA, SAMUEL L
330	RANSOM, L E
337	MAYER, WADE
338	EMI, RODERIC
342	KENNEY, ROBERT D
346	SHUMKA, E
354	SCHIRDING, DOROTHY E
357	MCCARTHY, DOROTHY
358	BAXTER, JERRY B
364	OCCUPANT UNKNOWN,
367	PARKER, THOMAS W
372	GODDARD, DAVID H
373	WENDLANDT, EDWARD C
379	FRITZ, A
380	OROURKE, PATRICK J
384	GURLEY, ROGER S
388	CHAMBERLAIN, MICHAEL E
402	CUNNINGHAM, RUTH M
405	ALBUERNE, CARLOS
408	JORGE, DIGNA
412	OCCUPANT UNKNOWN,
415	COSTELLO, FRANCIS W
416	OCCUPANT UNKNOWN,
423	SPAIN, KYLE
448	STOUT, JOHN T
450	KLUMPE, F A
458	SRACK, SAM
464	HERRMANN, C M
470	RICHMOND, WALTON B
476	BERMAN, GERALD B
510	DOEHLER, WALTER
	YAMAOKA, AYA
513	SIMPSON, EDWIN M
521	BALISY, HUSAM S
523	HAMILTON, MICHAEL A
525	HERMAN, DONALD P
527	EVELYN, JOSEPH
535	ACHTERMAN, KERMIT L
543	STUHR, F V
600	GALPER, MICHAEL
606	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

KNIGHT WAY 2000 (Cont'd)

607	EMI, SUSIE T
608	DAVIDSON, W
612	READ, CHARLES B
618	LINN, JEAN K
619	BLOOD, EDWARD L
621	OCCUPANT UNKNOWN,
622	HECK, DONALD D
624	MCCHESNEY, JOHN B
627	CALLOW, ERIC
628	GODDARD, DOUGLAS
633	WALKUP, MICHAEL
634	HAWLEY, JOHN E
636	VANDERHOEVEN, JOHN
640	DORAM, MICHAEL R

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

GOULD AVE 1995

4433	SINCLITCO, DENNIS
4443	CHUMO, GEORGE
4449	RODRIGUEZ, ROLAND
	STANGE, ROBERT G
4465	BOGEN, DAVID
4630	JOHNSTON, LOUIS A
4640	SPINKA, ANGELA
4646	NEUMEIER, GARY G
4701	TEC XCEL MICROCOMPUTER SVC
	VANBOGAERT, JEFFREY M
4708	OAKES, ROYAL F
4711	PINTO, VIJAY P
4720	OCCUPANT UNKNOWNN
4721	MARR, WILLIAM L
4727	NELSON, WESLEY A
4728	DORAN, THOMAS A
4735	LOCKE, MELVIN W JR
4736	ARIANI, T A
4746	BENNRA, ROBERT T
4747	JONES, ROBERT E
4803	SKANDALE, GEORGE C
4808	DRAKE, EDWARD G
4811	FRANCIS, NANCY H
4812	OCCUPANT UNKNOWNN
4815	BACHMAYER, R W
4820	VANROOY, WILLIAM C
4823	MARCHETTI, RONALD
4828	OCCUPANT UNKNOWNN
4833	KOTICK, RONALD L
4838	VANWOERKOM, TED
4839	BUNN, WILEY D
4846	WHITE, VERNIS R
4900	PANTAZIS, D
4901	OCCUPANT UNKNOWNN
4909	BAUGHMAN, L E
4919	PROBANDT, CAROLYN
4920	OCCUPANT UNKNOWNN
4927	MCQUAY, TIM
4928	MONTGOMERY, JOHN O
4937	HUFF, HELEN H
4938	WEE, MICHAEL M
4945	PREHN, ROY F
5027	HING, RICHARD
5032	OCCUPANT UNKNOWNN
5034	MUMPER, DONALD E
5036	DELDUCA, DOMINIC N
5038	OCCUPANT UNKNOWNN
5040	MERRIFIELD, FRED E
5042	ARMAN, HAROLD
5043	HERRMANN, BRYAN L

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

GOULD AVE 1995 (Cont'd)

5100	OCCUPANT UNKNOWNN
5101	COLE, CLAY
5109	SARAFIAN, NORMAN
5114	LEVINE, VICTOR D
5117	FIGGE, GEORGE J
5120	OCCUPANT UNKNOWNN
5123	OCCUPANT UNKNOWNN
5127	OCCUPANT UNKNOWNN
5130	MALIS, BRYAN L
5131	SALEZ, M
	WANNIER, PETER G
5144	UM, KEE H
5150	NEUMANN, DAVID B
5155	DUNDEE, SCOTT A
5156	FLETCHER, K
	MCPHUN, D
	VANVALER, ROBERT A
5165	CHERRIX, JOHN E
5168	BURKE, RICHARD F
5171	SLATTERY, WILLIAM H
5201	BOZANIC, GEORGE
5202	PACKARD GRAPHICS
	PACKARD, DOUGLAS T
5209	SCOTT, LORETTA
5219	LEE, KYU
5222	ANGELONI, ELVIO V
5224	ROBERTS, RICHARD W
5225	ENGLAND, ALBERT O JR
5235	YAMAUCHI, HANAKO
5236	JOHNSON, JAY
5241	BELL, VERNON R
5246	COLE, TERRY
5249	BORMAN, RENNY
5250	OCCUPANT UNKNOWNN
5252	OCCUPANT UNKNOWNN
5255	OCCUPANT UNKNOWNN
5256	OCCUPANT UNKNOWNN
5259	LEWIS, NATHAN
5260	LEFLANG, JOHN G
5263	OCCUPANT UNKNOWNN
5267	OCCUPANT UNKNOWNN
5270	LEW, LUNG P
5271	APARICIO, JOSEPH R
5276	MACGREGOR, C J
5277	BRUTOCAO, WILLIAM J
5280	DUMAIN, STACEY

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

KNIGHT WAY 1995

310	OBERG, PHIL M
311	OCCUPANT UNKNOWNN
315	EVENSON, NELLIE C
316	CHEN, GUN S
319	MASTERS, JOHN
320	OCCUPANT UNKNOWNN
324	BELCHER, C
325	EYSTER, EUGENE R
329	ASHER, LAUREL G
330	RANSOM, L E
334	OCCUPANT UNKNOWNN
337	OCCUPANT UNKNOWNN
338	EMI, R
342	SACKS, EARL M
346	OCCUPANT UNKNOWNN
354	SCHIRDING, CHARLES
357	MCCARTHY, ROBERT L
358	BAXTER, JERRY B
364	BILHEIMER LANDSCAPING
	OCCUPANT UNKNOWNN
367	PARKER, THOMAS W
	WALSCH, CHARLIE
	WALSH, RAYMOND J
372	GODDARD, DAVID H
373	WENDLANDT TAX MANAGEMENT INC
	WENDLANDT, EDWARD C
379	FRITZ, A
380	OROURKE, PATRICK J
384	GURLEY, ROGER A
388	CHAMBERLAIN, MICHAEL E
402	CUNNINGHAM, RUTH M
405	ALBUERNE, CARLOS
408	JORGE, DIGNA
415	COSTELLO, FRANCIS W
416	SIMPSON, HILDA
423	FURMAN, WALTER M
448	MANSFIELD & ASSOC
	MANSFIELD, RONALD C
450	KLUMPE, F
458	DURDEN, JAMES V
464	PETERSEN, C
470	USTICA, CARRIE
471	HIGBEE, M A
	PARADISE CANYON ELEM SCHOOL
510	DOEHLER, WALTER
513	SIMPSON, EDWIN M JR
521	YU, CHUNG H
525	HERMAN, DONALD P
527	EVELYN, JOSEPH
535	OCCUPANT UNKNOWNN

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

KNIGHT WAY 1995 (Cont'd)

543	PADGETT, C M
	STUHR, FREDER V
600	THOMAN, BROCK W
606	NELSON, JAMES W
607	EMI, ARTHUR
608	FORRESTEL, JACK
612	READ, CHARLES B
618	IRVINE, JOHN
	KENDALL CO
619	HERRELL, F V
621	BANG, KI
622	HECK, KRISTEN L
624	MCCHESNEY, JOHN B
627	OCCUPANT UNKNOWNN
628	GODDARD, DOUGLAS J
629	OCCUPANT UNKNOWNN
633	LEE, TAI Y
634	HARMON, ROBERT B
636	VANDERHOEVEN, JOHN
640	DORAM, MICHAEL R

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

GOULD AVE 1992

4443	CHUMO, GEORGE
4449	STANGE, ROBERT G
4630	JOHNSTON, LOUIS A
4646	NEUMEIER, GARY G
4701	TECXCEL MICROCMPTR
4708	ABREU, K S
4721	MARR, WILLIAM L
4727	NELSON, WESLEY A
4728	DORAN, THOMAS A
4735	LOCKE, MELVIN W JR
4736	ARJANI, T A
4746	BENNRA, ROBERT T
4803	SKANDALE, GEORGE C
4808	DRAKE, EDWARD G
4815	BACHMAYER, R W
4820	VANROOY, WILLIAM C
4823	POLTERE, JOHN C
4838	VANWOERKOM, TED
4846	WHITE, VERNIS R
4901	KENNEDY, ROBERT B
4909	BAUGHMAN, L E
4920	PARKER, THOMAS A
4927	MCQUAY, TIM
4928	MONTGOMERY, JOHN O
4937	HUFF, LARRY
5032	MANNING, DONALD O
5034	MUMPER, DONALD E
5036	DELDUCA, DOMINIC N
5040	MERRIFIELD, FRED E
5042	ARMAN, HAROLD
5100	HAUTER, FRED E
5101	COLE, CLAY
5109	SARAFIAN, NORMAN
5114	LEVINE, VICTOR D
5117	FIGGE, GEORGE J
5120	VERNAND, ROBERT K
5131	WANNIER, PETER G
5144	UM, KEE H
5150	NEUMANN, DAVID B
5155	MEYER, ANDREW
5165	CHERRIX, JOHN E
	J C M ASSOCTS INC
5171	PROUT, PARKER H
5201	BOZANIC, GEORGE
5202	PACKARD GRAPHICS
	PACKARD, DOUGLAS T
5209	KUEKES, GEORGE C
5219	LEE, KYU
5224	ROBERTS, RICHARD W
5235	YAMAUCHI HIDETAKE

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

GOULD AVE 1992 (Cont'd)

5235 YAMAUCHI, HANAKO
5241 BELL, VERNON R
5246 COLE, TERRY
5250 REINEN, BARBARA W
5256 URBAN, BILL
5259 LEWIS, NATHAN
5260 LEFLANG, JOHN G
5263 FORD, TOMMY M

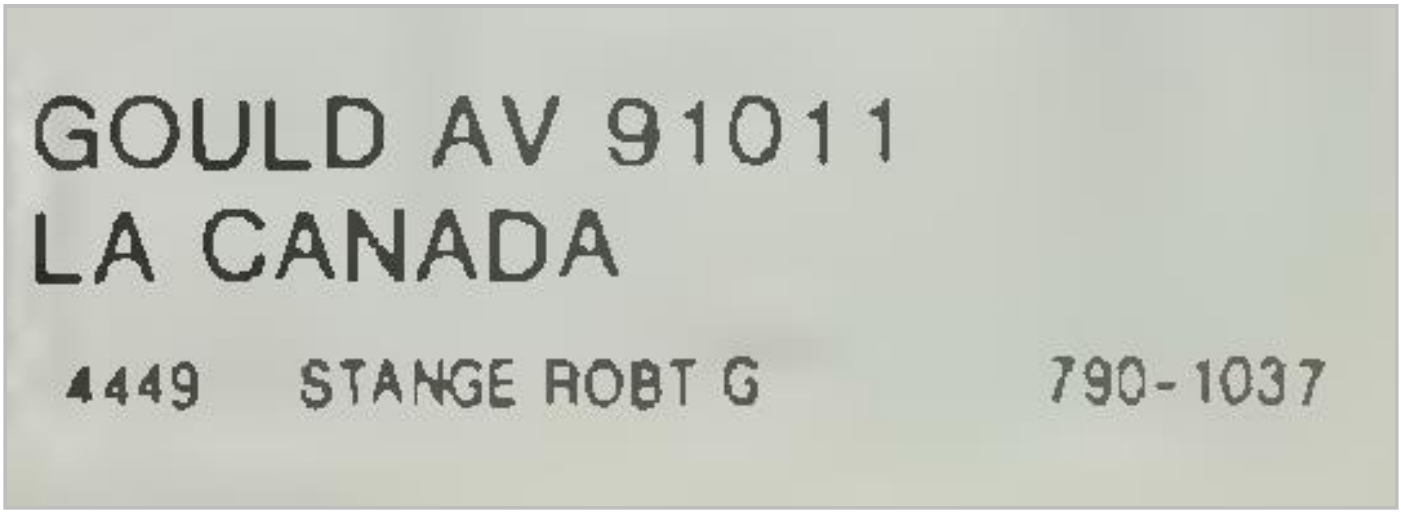
Target Street	Cross Street	Source
✓	-	EDR Digital Archive

KNIGHT WAY 1992

310	OBERG, PHIL M
311	PAXTON, IVY M
315	EVENSON, VERNON M
316	MCKEE, ROBERT M
319	MASTERS, JOHN
320	RENIER, JOAN
324	STADLER, HENRY
330	RANSOM, L E
338	EMI, R
342	SACKS, EARL M
346	LEE, MU T
354	SCHIRDING, HENRY C
357	MCCARTHY, ROBERT L
358	BAXTER, JERRY B
367	WALSH, RAYMOND J JR
372	GODDARD, DAVID H
373	GERDA WENDLANDT AG
	WENDLANDT, EDWARD C
379	FRITZ, A
380	OROURKE, PATRICK J
384	GURLEY, ROGER A
402	CUNNINGHAM, RUTH M
405	ALBUERNE, CARLOS
423	FURMAN, WALTER M
	SHENFELD, MIRIAM
450	KLUMPE, TAMARA J
458	DURDEN, JAMES V
471	PARADISE CANYN ELEM
510	DOEHLER, WALTER
513	SIMPSON, EDWIN M JR
527	EVELYN, JOSEPH
600	THOMAN, BROCK W
606	NELSON, JAMES W
607	EMI, ARTHUR
608	FORRESTEL, JACK
612	READ, CHARLES B
618	KENDALL CO THE
	MCKIBBEN, RICHARD K
619	HERRELL, F V
624	MCCHESNEY, J B
627	CALLOW, ERIC
628	CHIAN, EDDIE
634	HARMON, ROBERT B
636	VANDERHOEVEN, JOHN
640	DORAM, MICHAEL R

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

GOULD AVE 1987



Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

GOULD AVE 1987

..GOULD AV 91011 CONT..

4455	XXXX	00	
4526	REPOVICH PETE	790-2519	9
4630	JOHNSTON LOUIS A	790-5841	
4640	XXXX	00	
4646	NEUMEIER GARY G	790-6698	1
4701	*BOGAERT ENTERPRISES	952-1006	4
4708	XXXX	00	
4711	XXXX	00	
4712	SCHECHTER KENNETH A	790-1031	
4720	XXXX	00	
4721	MARR WM L	790-7085	0
4727	NELSON W A	790-5366	
4728	DORAN THOS A	790-3819	
4735	LOCKE MELVIN W JR	952-3147	6
4736	ARJANI T A	790-8161	0
4746	BENNRA ROBT T	790-3645	
4747	XXXX	00	
4803	SKANDALE ELIZABETH	790-8444	4
	SKANDALE GEO C	790-5028	
4808	DRAKE BARBARA	790-9742	3
	DRAKE E0W G	790-1455	
4812	FRANCIS M R CHLD	790-2417	+7
	FRANCIS MERRILL R	790-2400	
4815	BACHMAYER R W	790-2763	
4820	VANROOY WM C	790-7411	1
4823	POLTERE JOHN C	952-2347	5
4828	WASSON MARK	790-4668	3
	WASSON NICHOLAS R	952-7006	4
4833	LAVALLEY MELVIN	952-1470	5
4838	VANWOERKOM TED	790-0776	0
4839	BUNN DOUGLAS W	790-3103	2
	BUNN WILEY D	790-5733	
4846	XXXX	00	
4900	XXXX	00	
4901	KENNEDY ROBT B	790-2774	
4909	BAUGHMAN L E	790-1648	
	NEMETH ELIZABETH	952-0283	5
4919	BUTTERWORTH G W JR	790-0193	
4920	XXXX	00	
4927	GUTHRIE RICHARD P	790-5831	
4928	MONTGOMERY JOHN O	790-2990	
4937	HUFF H H	790-3442	
4938	XXXX	00	
5032	MANNING DONALD O	790-0938	
5034	MUMPER DONALD E	790-3085	
5036	DELDUCA DOMINIC N	790-7159	8
5038	SCHUEHLE J	790-9640	
	SCHUEHLE JOHN	790-9460	
	SCHUEHLE KRIS	790-9460	
	SCHUEHLE S	790-9640	
5040	MERRIFIELD FRED E	790-5960	0
5042	ARMAN HAROLD	790-4145	
5043	HERRMANN BRYAN L	790-7228	
	HERRMANN K	790-6504	
	HERRMANN PATRICK	790-6504	
5100	HAUTER FRED E	790-4362	
5101	COLE CLAY	952-2197	
	COLE LINDA	952-2197	
5109	XXXX	00	
5114	LEVINE VICTOR D DR	790-6301	
5117	FIGGE GEO J	790-5818	
5120	VERNANO ROBT K	790-2922	8
5123	XXXX	00	
5127	XXXX	00	
5131	WANNIER PETER G	952-1304	5
5144	STEVENS GEO M	790-0015	
	STEVENS RUTH J	790-0015	
5150	NEUMANN DAVID B	952-1331	5
5155	MARSH JANE	790-3237	+7
	MARSH MICHAEL	790-3237	+7
5156	FLETCHER K	952-1685	5
	MCPHUN D	952-1685	5
5165	CHERRIX JOHN E	790-1308	
	*J C M ASSOCTS INC	952-5330	4
5168	XXXX	00	
5171	ZIMMERMANN DON	790-8566	
5201	BOZANIC GEO	790-2242	
	BOZANIC GEO	790-7985	+7
5202	PACKARD DOUGLAS T	790-1813	9
5209	KUEKES GEO C	790-6652	
5219	SANDELMANN WERNER J	790-7699	8
5222	XXXX	00	
5224	ROBERTS RICHARD W	790-1415	
5225	ENGLAND ALBERT O JR	790-2669	
5235	XXXX	00	
5236	XXXX	00	
5241	BELL VERNON R	790-1695	1
5246	COLE TERRY	790-8445	2
5249	MOON GERALD L	790-1636	
5250	REINEN B W	952-1333	5
5252	LANE BARRY J	790-1091	
5255	SANDERS WM M	790-1373	4
5256	URBAN AMY	790-1490	4
	URBAN BILL	790-2305	
	URBAN JAINE	790-2305	
5260	LEFLANG JOHN G	790-5099	
5263	FORD TOMMY M	790-4765	0
	FORD TOMMY M	952-6216	+7
5270	PURVES WALTER R	790-6350	
5271	XXXX	00	
5276	MACGREGOR C JAS	790-4651	8
5277	XXXX	00	
5280	XXXX	00	

* 2 BUS 102 RES 5 NEW

Target Street	Cross Street	Source
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KNIGHT WAY 1987

KNIGHT WAY W 91011
LA CANADA

310	OBERG PHIL M	790-4653	
311	PAXTON I M	790-2521	
315	EVENSON VERNON M	790-4163	
316	MCKEE ROBERT M	790-9942	+7
319	MASTERS JOHN	790-5716	+7
	MASTERS SHEILA	790-5716	+7
320	RENIER J	952-6084	4
324	STADLER CAROL	790-9096	
	STADLER HENRY	790-9096	
325	XXXX	00	
329	ROBINSON P ALBERT	790-6211	3
	ROBINSON PAUL	790-9941	
	ROBINSON ROSEMARY	790-9941	
330	RANSOM L E	790-4490	
334	XXXX	00	
337	GEORGE JAS L	790-5380	
338	XXXX	00	
342	SACKS EARL M	790-5869	
346	XXXX	00	
354	SCHIRDING HENRY C	790-0392	
357	MCCARTHY DOROTHY	790-4858	
	MCCARTHY ROBT L	790-4858	
358	BAXTER JERRY B	79D-7640	
364	ROGERS DON L	790-2839	+7
367	HAWGOOD A PHIL JR	952-3000	3
372	GODDARD DAVID H	790-1320	
373	WENDLANDT EDW C	790-0953	
379	FRITZ A	790-7386	
380	OROURKE P J	952-6200	+7
384	GURLEY ROGER A	790-6505	
388	CHAMBERLAIN MICHAEL	79D-8140	
402	CUNNINGHAM RUTH M	79D-4545	0
405	ALBUERNE CARLOS	790-9397	2
408	XXXX	00	
412	FARGO J	790-5173	+7
415	MILLER JUNE C	790-0792	
416	MANLEY THOMAS J	790-3000	5
423	★FLINTRIDGE ACREAGE	952-0475	+7
	SCHERBEL PAUL A	790-9338	+7
448	PARIS AARON	790-7480	4
450	KLUMPE FRANKLYN	790-9820	2
458	DURDEN JAS V	790-4412	
470	XXXX	00	
471	★PARADISE CNYN ELEM	790-1109	
476	XXXX	00	
507	HOOVER KEITH	790-1726	
510	OOEHLER WALTER	790-7004	
513	SIMPSON EDWIN M JR	790-7256	
521	BONE GORDON F	952-1257	5
523	HAMILTON MICHAEL A	790-0978	9
525	HERMAN DONALD P	790-6516	
527	EVELYN JOS	790-5149	
535	XXXX	00	
643	STUHR FREDERICK V	790-6313	
600	THOMAN BROCK W	952-1390	5
606	NELSON J W	790-4948	9
607	EMI ARTHUR	790-5849	
608	XXXX	00	
612	READ CHARLES B	790-0518	
618	★KENOALL CO THE	952-2129	5
	MCKIBBEN RICHARD K	790-0303	
619	HERRELL F VICTOR	790-7019	
	HERRELL KAREN	790-7019	
621	XXXX	00	
624	MCCHESNEY J B	790-4171	
627	PETERSEN ERIK A	790-6163	
	PETERSEN KIM	790-6163	
	PETERSEN KNUD	790-0218	
628	XXXX	00	
833	★SHELTON COOK&CO	952-1523	+7
	SHELTON ROBT M	952-1718	+7
634	HARMON ROBT B	790-6293	
636	VANDERHOEVEN JOHN	79D-3525	
640	OORAM M	952-4032	4
	OORAM MICHAEL R	790-8220	9

★ 4 BUS 71 RES 10 NEW

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

GOULD AVE 1982

GOULD AV 91011
LA CANADA

4526	REPOVICH PETE	790-2519	9
4630	JOHNSTON LOUIS A	790-5841	
4640	XXXX	00	
4646	NEUMEIER GARY G	790-6698	1
4701	BERGET ARNE	790-0183	5
4708	ABREU K S	790-6602	7
	ABREU STEPHANIE A	790-1660	7
4711	PINTO S	790-2581	1
4712	SCHECHTER KENNETH A	790-1031	
4720	EDWARDS JOHN S	790-0022	
4721	MARR WM L	790-7085	0
4727	NELSON W A	790-5366	
4728	DORAN THOS A	790-3819	4
4735	BRINKMAN VIRGIL R	790-1150	
4736	ARJANI T A	790-8161	0
4746	BENNRA ROBT T	790-3645	
4747	JONES ROBT E	790-3229	7
	JONES TERI	790-9696	+2
4803	SKANDALE ELIZABETH	790-8444	0
	SKANDALE GEO C	790-5028	
4808	DRAKE EDW G	790-1455	
4812	FRANCIS M R CHLD	790-2417	6
	FRANCIS MERRILL R	790-2400	
4815	BACHMAYER R W	790-2763	
4820	VANROOY WM C	790-7411	1
4823	XXXX	00	
4828	WASSON NICHOLAS R	790-6978	
4833	LAVALLEY BETTY JO	790-6345	
	LAVALLEY MELVIN	790-6345	
4838	VANWOERKOM TED	790-0776	0
4839	BUNN DOUGLAS W	790-3103	+2
	BUNN WILEY D	790-5733	
4846	WHITE VERNIS R	790-7922	
4900	WATTS JOHN S	790-5852	3
4901	KENNEDY ROBT B	790-2774	
4909	BAUGHMAN L E	790-1648	
4919	BUTTERWORTH G W JR	790-0193	
4920	XXXX	00	
4927	GUTHRIE RICHARD P	790-5831	
4928	MONTGOMERY JOHN O	790-2990	
4937	HUFF H H	790-3442	3
4938	XXXX	00	
5032	MANNING DONALD O	790-0938	
5034	MUMPER DONALD E	790-3085	4
5036	DELDUCA DOMINIC N	790-7159	8
5038	XXXX	00	
5040	ABARTA HELEN R	790-1992	1
	MERRIFIELD FRED E	790-5960	0
5042	ARMAN HAROLD	790-4145	
5043	HERRMANN BRYAN L	790-7228	7
	HERRMANN K	790-6504	7
5100	HAUTER FRED E	790-4362	
5101	KIRST B J	790-1596	
5109	XXXX	00	
5114	LEVINE VICTOR D DR	790-6301	6
5117	FIGGE GEO J	790-5818	
5120	VERNAND ROBT K	790-2922	8
5123	WHITTET RICHARD J	790-7145	7
5127	HOUGHTON THOS A	790-7662	+2
5131	GAMMELGARD KREIG A	790-7850	1
	MENETREY GEORGEA H	790-7624	5
5144	STEVENS GEO M	790-0015	8
5150	XXXX	00	
5155	COWAN DEIDRE M	790-6748	0
	COWAN R R	790-7997	
5156	LEAVER GEO	790-0526	4
	LEAVER JOAN	790-0526	
5165	CHERRIX JOHN E	790-1303	
5168	XXXX	00	
5171	ZIMMERMANN DON	790-8566	7
5201	BOZANIC DANA	790-2242	
	BOZANIC GEO	790-7985	4
	BOZANIC JULIE	790-2242	9
	BOZANIC ROBT	790-2242	9
5202	PACKARD DOUGLAS T	790-1813	9
5209	KUEKES GEO C	790-6652	
5219	SANDELMANN WERNER J	790-7699	8
5222	XXXX	00	
5224	ROBERTS RICHARD W	790-1415	3
5225	ENGLAND ALBERT O JR	790-2669	
5235	XXXX	00	
5236	XXXX	00	
5241	BELL VERNON R	790-1695	1
5246	COLE TERRY	790-8445	+2
5249	MOON GERALD L	790-1636	6
5250	GLADHART LARRY	790-9571	+2
5252	LANE BARRY J	790-1091	5
5255	BROWN PHIL	790-6568	
	BROWNE JOHN P	790-6568	
	BROWNE VIRGINIA C	790-6568	
5256	SCHMEITINK C A	790-6390	+2
5260	LEFLANG JOHN G	790-5009	3
5263	FORD TOMMY M	790-4765	0
5270	PURVES WALTER R	790-6350	
5271	XXXX	00	
5276	MACGREGOR C JAS	790-4651	8
5277	XXXX	00	
5280	XXXX	00	

* 0 BUS 98 RES 6 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

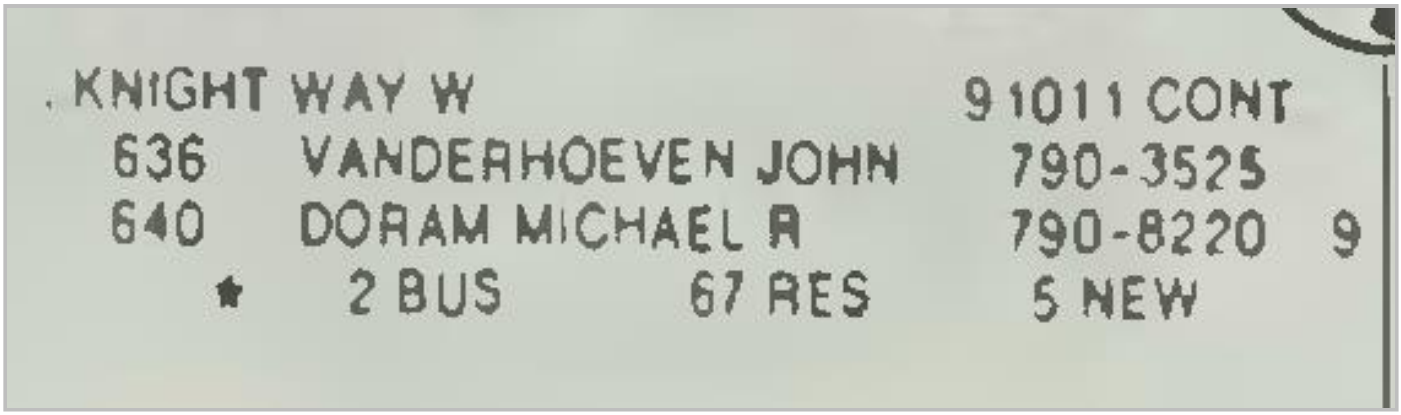
KNIGHT WAY 1982

KNIGHT WAY W 91011
LA CANADA

310	OBERG PHIL M	790-4653	
311	PAXTON ROBT C	790-2521	7
315	EVENSON VERNON M	790-4163	
316	TILLMAN SKIP	790-3038	0
319	MAUER MILDRED L	790-4087	3
320	RENIER J	790-0478	9
324	XXXX	00	
325	XXXX	00	
329	ROBINSON PAUL	790-9941	+2
330	RANSOM L E	790-4490	7
334	JOHNSON DORA JEAN	790-0866	
337	GEORGE JAMES L	790-5380	
338	XXXX	00	
342	SACKS EARL M	790-5869	
346	XXXX	00	
354	SCHIRDING HENRY C	790-0392	3
357	MCCARTHY DOROTHY	790-4858	1
	MCCARTHY ROBT L	790-4858	1
358	BAXTER JERRY B	790-7640	3
	LACANADA ENGINEERNG	790-1530	8
364	POLETTI BEN	790-0968	4
367	HAWGOOD A PHIL JR	790-3337	8
372	GODDARD DAVID H	790-1320	4
373	WENDLANDT EDW C	790-0953	
379	FRITZ A	790-7386	3
380	OROURKE P J	790-3052	6
384	GURLEY ROBT A	790-6505	
388	CHAMBERLAIN MICHAEL	790-8140	7
402	CUNNINGHAM RUTH M	790-4545	0
405	ALBUERNE CARLOS	790-9397	+2
408	XXXX	00	
412	RICH NORMAN E	790-4062	
415	MILLER GEORGE R	790-0792	7
	MILLER JUNE C	790-0792	7
416	OBERG BERT	790-4447	
423	BURKE JACK W	790-7530	0
	BURKE TREY	790-8541	0
448	DANIELSON G EDW	790-1272	0
450	KLUMPE FRANKLYN	790-9820	+2
458	DURDEN JAS V	790-4412	5
470	XXXX	00	
471	PARADISE CNYN ELEM	790-1109	
476	SONES THOMAS H	790-5013	0
507	HOOVER KEITH	790-1726	
510	DOEHLER WALTER	790-7004	7
513	SIMPSON EDWIN M JR	790-7256	
521	BONE GORDON F	790-0840	5
523	HAMILTON MICHAEL A	790-0978	9
525	HERMAN DONALD P	790-6516	
527	EVELYN JOS	790-5149	5
535	ACHTERMAN KERMIT L	790-3615	5
543	STUHR FREDERICK V	790-6313	7
600	NEAL JAS M	790-5735	+2
606	NELSON J W	790-4948	9
607	EMI ARTHUR	790-5849	3
606	SPENCER R	790-3890	1
612	READ CHARLES B	790-0518	
618	MCKIBBEN RICHARD	790-0303	
619	HERRELL F VICTOR	790-7019	1
624	MCCHESNEY J B	790-4171	3
627	PETERSEN ERIK A	790-8163	0
	PETERSEN KIM	790-6163	0
	PETERSEN KNUD	790-0218	4
628	CHIAN EDDIE	790-9589	+2
633	BELTRAMI LISA	790-2468	9
	BELTRAMI RICHARD	790-5438	4
634	HARMON ROBT B	790-6293	

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

KNIGHT WAY 1982



. KNIGHT WAY W 91011 CONT
636 VANDERHOEVEN JOHN 790-3525
640 DORAM MICHAEL A 790-8220 9
★ 2 BUS 67 RES 5 NEW

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

GOULD AVE 1976

GOULD AV 91011 LA CANADA

4526	REPOVICH PETE	790-2519	
463D	JOHNSTON LOUIS A	790-5841	
4640	PARSONS FRANK R	790-6250	
4646	HENN THOS A	790-4102	
4701	BERGET ARNE	790-0183	5
4708	GRISWOLD HAL F	790-0104	
	GRISWOLD MICKEY	790-0104	
4711	JONES CHAS	790-5134	+6
	JONES V J	681-2137	4
4712	SCHECHTER KENNETH	790-1031	
4720	EDWARDS JOHN S	790-0022	
4727	NELSON W A	790-5366	
4728	DORAN THOS A	790-3819	4
4735	BRINKMAN VIRGIL R	790-115D	
4736	GROSSMAN ROBT B	790-1613	
4746	BENNRA ROBT T	790-3645	
4747	XXXX	00	
4803	SKANDALE GEO C	790-5028	
4808	DRAKE EDW G	790-1455	
4812	FRANCIS M R CHILDRN	790-2417	+6
	FRANCIS MERRILL R	790-2400	
4815	BACHMAYER R W	790-2763	
4820	SHIRLEY WALTER E	790-6076	
4823	XXXX	00	
4828	WASSON NICHOLAS R	790-6978	2
4833	LAVALLEY MELVIN	790-6345	4
4838	VANWOERKOM TED J	790-3023	
4839	BUNN WILEY D	790-5733	
4846	WHITE VERNIS R	79D-7922	2

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

GOULD AVE 1976

..GOULD AV 91011 CONT..

4900	WATTS JOHN S	790-5852 3
4901	KENNEDY ROBT B	790-2774
4909	BAUGHMAN L E	790-1648
4919	BUTTERWORTH G W JR	790-0193
4920	ACKERMAN G W	790-4796
4927	GUTHRIE RICHARD P	790-5831
4928	MONTGOMERY JOHN O	790-2990
4937	HUFF H H	790-3442 3
4938	SWITZER FLORIS C	790-4636
	SWITZER WM R	790-4636
5032	MANNING DONALD O	790-0938
5034	MUMPER DONALD E	790-3085 4
5036	LYANS J ROBT	790-3527
5038	MAHONEY FRANK J	790-6937 4
5040	HAGAMAN J	790-4960+6
	MERRIFIELD FRED E	790-5960
5042	ARMAN HAROLD	790-4145
5043	WILLIAMS W B	790-3319+6
5100	HAUTER FRED E	790-4362
5101	KIRST B J	790-1596 2
5109	XXXX	00
5114	LEVINE VICTOR D DR	790-6301+6
5117	FIGGE GEO J	790-5818
5123	BOURGON DOUGLAS	790-5094 5
5131	MENETREY BERTHA	790-7624 5
5144	JANSSON HENRY K	790-2398
5150	WALLACE RICHARD C	790-6987 3
5155	COWAN R R	790-7997
5156	LEAVER GEO	790-0526 4
	LEAVER JOAN	790-0526 4
5165	CHERRIX JOHN E	790-1308 2
5168	YOUNG JAMES W	790-0610
5171	SMITH RICHARD H	790-2687
	SMITH S	790-7628+6
5201	BOZANIC GEO	790-7985 4
5202	BROWN WILLIAM J	790-4700+6
5209	KUEKES GEO C	790-6652
5219	ROBERTS GLENN C	790-4405 5
5222	KING M M	790-1403 4
5224	ROBERTS RICHARD W	790-1415 3
5225	ENGLAND ALBERT O JR	790-2669
5235	IPPEL GERALD L	790-2502+6
5236	GRAHAM ROBERT L	790-7104
5241	WARNER DONALD	790-0986
5246	PARRISH GEO L	790-7006 2
5249	COLELLA MIKE	790-3561+6
	MOON GERALD L	790-1636+6
5250	REINEN R H	790-2817 5
5252	LANE BARRY J	790-1091 5
5255	BROWNE JOHN P	790-6568
	BROWNE PHIL	790-6568
	BROWNE VIRGINIA C	790-6568
5256	HATCH R P	790-5756 5
5260	LEFLANG JOHN G	790-5099 3
5270	PURVES WALTER R	790-6350
5280	XXXX	00

* 0 BUS 85 RES 10 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

KNIGHT WAY 1976

KNIGHT WAY W 91011 LA CANADA

310	OBERG PHIL M	790-4653
311	BROOKS G B	790-5979 4
315	EVENSON VERNON M	790-4163
	HUNT ELIZABETH	790-4163
316	IANNALFO L J	790-1365 5
319	MAUER MILDRED L	790-4087 3
320	ANDERSON ROGER	790-7839 2
324	DAKAN DONALD L	790-3152 3
325	CULBERTSON DONALD	790-4867 3
	SHEMDIN OMAR H	790-7450+6
329	SCHULTZ FRANK H	790-5694 3
330	RANSOME L E	790-4490+6
334	JOHNSON DORA JEAN	790-0866
337	GEORGE JAMES L	790-5380 2
	GEORGE TONY	790-0786+6
338	MACK FRANK	790-5644
342	SACKS EARL M	790-5869

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

KNIGHT WAY 1976

..KNIGHT WAY W 91011 CONT..

346 XXXX 00
354 SCHIRDING HENRY C 790-0392 3
357 MCGEE JAMES F 790-1036 3
358 BAXTER BETH 790-2769 5
BAXTER JERRY B 790-7640 3
364 POLETTI BEN 790-0968 4
367 MANNING HARRY F 790-5697
372 GODDARD DAVID H 790-1320 4
373 WENDLANDT EDW C 790-0953
WENDLANDT ERIK L 790-3762
379 FRITZ A 790-7386 3
380 OROURKE P J 790-3052+6
384 GURLEY ROGER A 790-6505 2
388 COONEY E T JR 790-3234
402 SPENCER STEPHEN F 790-3016+6
405 SCHNEIDEWIND DEAN 790-2797 2
408 HENRIE J C 790-1862
412 RICH NORMAN E 790-4062
415 HANSEN H W 790-4573+6
416 OBERG BERT 790-4447
423 QUINLEY HENRY C 790-1246
450 DANIELSON G E JR 790-1272 3
458 DURDEN JAS V 790-4412 5
470 XXXX 00
471*PARADISE CNYN ELEM 790-1109
476 BANKS GARY L 790-6750 5
507 HOOVER KEITH 790-1726
510 WOOLEMS JIM 790-3369 5
513 SIMPSON EDWIN M JR 790-7256
521 BONE GORDON F 790-0840 5
523 ROSE JAS L 790-7642
525 HERMAN DONALD P 790-6516
527 EVELYN JOS 790-5149 5
535 ACHTERMAN KERMIT L 790-3615 5
543 BENSON HERBERT B 790-0580 4
600 KNIGHT JULIA M 681-1393
606 KNIGHT T F JR 681-2522 5
KNIGHT THOS F JR 790-1768
607 EMI ARTHUR 790-5849 3
608 ORLANDINI VINCENT 790-2750
612 READ CHARLES B 790-0518
618 MCKIBBEN RICHARD 790-0303
619 KLINGERMAN K 790-4604 5
LEAVENWORTH R J JR 790-4604 5
624 MCCHESNEY J B 790-4171 3
627 PETERSEN KNUD 790-0218 4
628 LEWIS FRANK R 790-6129
633 BELTRAMI RICHARD 790-5438 4
634 HARMON ROBT B 790-6293
636 VANDERHOEVEN JOHN 790-3525
640 HEWSON SHERMAN H 790-5463
* 1 BUS 67 RES 6 NEW

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

GOULD AVE 1973

GOULD AV 91011 LA CANADA

4526	REPOVICH PETE	790-2519
4630	JOHNSTON LOUIS A	790-5841
4640	PARSONS FRANK R	790-6250
4646	HENN THOS A	790-4102
4701	XXXX	00
4708	GRISWOLD HAL F	790-0104
	GRISWOLD MICKEY	790-0104
4711	XXXX	00
4712	SCHECHTER KENNETH	790-1031
4720	EDWARDS JOHN S	790-0022
4727	NELSON W A	790-5366
4728	XXXX	00
4735	BRINKMAN VIRGIL R	790-1150
4736	GROSSMAN ROBT B	790-1613
4746	BENNRA ROBT T	790-3645
4747	MOON G	790-3694+3
	MOON WM L	790-1660
4803	SKANDALE GEO C	790-5028
4808	DRAKE EDW G	790-1455
4812	FRANCIS MERRILL R	790-2400
4815	BACHMAYER R W	790-2763
4820	SHIRLEY WALTER E	790-6076
4823	XXXX	00
4828	WASSON NICHOLAS R	790-6978 2
4833	XXXX	00
4838	VANWOERKOM TED J	790-3023
4839	BUNN WILEY D	790-5733
4846	WHITE VERNIS R	790-7922 2
4900	WATTS JOHN S	790-5852+3
4901	KENNEDY ROBT B	790-2774
4909	BAUGHMAN L E	790-1648
4919	BUTTERWORTH G W JR	790-0193
4920	ACKERMAN G W	790-4796
4927	GUTHRIE RICHARD P	790-5831
4928	MONTGOMERY JOHN O	790-2990
4937	HUFF H H	790-3442+3
	HUFF N A	790-4562+3
4938	SWITZER FLORIS C	790-4636
	SWITZER WM R	790-4636
5032	MANNING DONALD C	790-0938
5034	CLARK VERNON A	790-4172
5036	LYANS J ROBT	790-3527
5038	ENGLAND CARL D JR	790-3798 2
5040	MERRIFIELD FRED E	790-5960
5042	ARMAN HAROLD	790-4145
5043	HERRMANN BRYAN L	790-0228
5100	HAUTER FRED E	790-4362
5101	KIRST B J	790-1596 2
5109	KIRST PHILIP P	790-2563
5114	XXXX	00
5117	FIGGE GEO J	790-5818
5123	PERRINE THEO F	790-4580
	VANDERBILT ELVA	790-4580
5131	MENETREY WALTER	790-7624+3
5144	JANSSON HENRY K	790-2398
5150	WALLACE RICHARD C	790-6987+3
5155	COWAN R R	790-7997
5156	TAPLEY JOHN K	790-6703+3
5165	CHERRIX JOHN E	790-1308 2
5168	YOUNG JAS W	790-0610
5171	SMITH RICHARD H	790-2687
5201	BOZANIK GEO	790-7985+3
5202	MADISON H N	790-2012
5209	KUEKES GEO C	790-6652
5219	RICHARDSON THOS J	790-3049+3
5222	HART WALTER	790-3095+3
5224	ROBERTS RICHARD W	790-1415+3
5225	ENGLAND ALBERT O JR	790-2669
5235	COLEMAN ROBT M	790-5792
5236	GRAHAM ROBT L	790-7104
5241	WARNER DONALD	790-0986

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

GOULD AVE 1973

..GOULD AV 91011 CONT..

5246	PARRISH GEO L	790-7006 2
5249	FRISBIE CHARLES MRS	790-1207 2
	FRISBIE CHAS R	79D-7400 2
5250	CAMPBELL BARRY	790-0058
5252	KEYES JOHN W	790-1574
5255	BROWNE JOHN P	790-6568
	BROWNE PHIL	790-6568
	BROWNE VIRGINIA C	790-6568
5256	FISCHER NEIL R	79D-7429
5260	LEFLANG JOHN G	79D-5099+3
5270	PURVES WALTER R	790-6350
5280	HERBERT CLAUDE S	790-2983

* 0 BUS 83 RES 12 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

KNIGHT WAY 1973

KNIGHT WAY W 91011 LA CANADA

310 OBERG PHIL M 790-4653

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

KNIGHT WAY 1973

..KNIGHT WAY W 91011 CONT..

311	BRECKHEIMER PETER	790-5938
315	EVENSON VERNON M	790-4163
	HUNT ELIZABETH	790-4163
316	FRASER DOUGLAS	790-2058
319	MAUER MILDRED L	790-4087+3
320	ANDERSON ROGER	790-7839 2
324	DAKAN DONALD L	790-3152+3
325	CULBERTSON DONALD	790-4867+3
329	NOBLES T W	790-0509+3
	SCHULTZ FRANK H	790-5694+3
330	NELSEN E DALE	790-5708
334	JOHNSON DORA JEAN	790-0866
337	GEORGE JAMES L	790-5380 2
338	MACK FRANK	790-5644
342	SACKS EARL M	790-5869
346	SHUMKA ALEX	790-4525
354	SCHIRDING HENRY C	790-0392+3
357	MCGEE JAS F	790-1036+3
358	BAXTER JERRY B	790-7640+3
364	XXXX	00
367	MANNING HARRY F	790-5697
372	YUNKER JOHN M JR	790-4316
373	WENDLANDT EDW C	790-0953
	WENDLANDT ERIK L	790-3762
379	FRITZ A	790-7386+3
380	SULLIVAN RONALD L	790-0273
384	GURLEY ROGER A	790-6505 2
388	COONEY E T JR	790-3234
402	HELLEWELL ROBT	790-7995+3
405	SCHNEIDEWIND DEAN	790-2797 2
408	HENRIE J C	790-1862
412	RICH NORMAN E	790-4062
415	BORING DOYAL S	790-0302
416	OBERG BERT	790-4447
423	QUINLEY HENRY C	790-1246
450	DANIELSON G E JR	790-1272+3
458	CHRISTENSEN MARIAN	790-6253
470	XXXX	00
471	*PARADISE CANYON SCH	790-1109
476	XXXX	00
507	HOOVER KEITH	790-1726
510	COOPER ALLEN M	790-6357
513	SIMPSON EDWIN M JR	790-7256
523	ROSE JAS L	790-7642
525	HERMAN DONALD R	790-6516
527	BEHLOW LEWIS B	790-1659
535	BURNETT ROBT JR DR	790-0859
543	LAMBERT FRED A	790-1323
600	KNIGHT JULIA M	681-1393
606	KNIGHT THOS F JR	790-1768
607	EMI ARTHUR	790-5849+3
608	ORLANDINI VINCENT	790-2750
612	READ CHAS B	790-0518
618	MCKIBBEN RICHARD	790-0303
624	MCCHESNEY J B	790-4171+3
627	WINTRODE RALPH O	790-5467
628	LEWIS FRANK R	790-6129
633	HILLEN JON R	790-7279
634	HARMON ROBT B	790-6293
636	VANDERHOEVEN JOHN	790-3525
640	HEWSON SHERMAN H	790-5463

* 1 BUS 61 RES 13 NEW

Paradise Canyon Elementary School
471 Knight Way
La Canada Flintridge, CA 91011

Inquiry Number: 7144104.3
October 11, 2022

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

10/11/22

Site Name:

Paradise Canyon Elementary S
471 Knight Way
La Canada Flintridge, CA 9101
EDR Inquiry # 7144104.3

Client Name:

Leighton Consulting
17781 Cowan
Irvine, CA 92614
Contact: Zachary Freeman

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Certified Sanborn Results:

Certification # 4C4F-490A-9644

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Project Paradise Canyon Elementary Sch

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Paradise Canyon Elementary School
471 Knight Way
La Canada Flintridge, CA 91011

Inquiry Number: 7144104.8
October 11, 2022

EDR Building Permit Report

Target Property and Adjoining Properties

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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with any questions or comments.

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EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.

EDR® Environmental Data Resources Inc

BUILD FAX PROPERTY HISTORY

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

A search of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of Leighton Consulting on Oct 11, 2022.

TARGET PROPERTY

471 Knight Way
La Canada Flintridge, CA 91011

SEARCH METHODS

EDR searches available lists for both the Target Property and Surrounding Properties.

RESEARCH SUMMARY

Building permits identified: **YES**

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Los Angeles County

Year	*Source*	*TP*	*Adjoining*
2022	Los Angeles County, Building and Safety		
2021	Los Angeles County, Building and Safety		
2020	Los Angeles County, Building and Safety		
2019	Los Angeles County, Building and Safety		
2018	Los Angeles County, Building and Safety		X
2017	Los Angeles County, Building and Safety		X
2016	Los Angeles County, Building and Safety		X
2015	Los Angeles County, Building and Safety		X
2014	Los Angeles County, Building and Safety		X
2013	Los Angeles County, Building and Safety		X
2012	Los Angeles County, Building and Safety		X
2011	Los Angeles County, Building and Safety		X
2010	Los Angeles County, Building and Safety		
2009	Los Angeles County, Building and Safety		
2008	Los Angeles County, Building and Safety		
2007	Los Angeles County, Building and Safety		
2006	Los Angeles County, Building and Safety		
2005	Los Angeles County, Building and Safety		
2004	Los Angeles County, Building and Safety		
2003	Los Angeles County, Building and Safety		
2002	Los Angeles County, Building and Safety		
2001	Los Angeles County, Building and Safety		
2000	Los Angeles County, Building and Safety		
1999	Los Angeles County, Building and Safety		
1998	Los Angeles County, Building and Safety		
1997	Los Angeles County, Building and Safety		
1996	Los Angeles County, Building and Safety		
1995	Los Angeles County, Building and Safety		

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

Year	Source	TP	Adjoining
1994	Los Angeles County, Building and Safety		
1993	Los Angeles County, Building and Safety		
1992	Los Angeles County, Building and Safety		
1991	Los Angeles County, Building and Safety		
1990	Los Angeles County, Building and Safety		
1989	Los Angeles County, Building and Safety		
1988	Los Angeles County, Building and Safety		
1987	Los Angeles County, Building and Safety		
1986	Los Angeles County, Building and Safety		
1985	Los Angeles County, Building and Safety		
1984	Los Angeles County, Building and Safety		
1983	Los Angeles County, Building and Safety		
1982	Los Angeles County, Building and Safety		
1981	Los Angeles County, Building and Safety		
1980	Los Angeles County, Building and Safety		
1979	Los Angeles County, Building and Safety		
1978	Los Angeles County, Building and Safety		
1977	Los Angeles County, Building and Safety		
1976	Los Angeles County, Building and Safety		
1975	Los Angeles County, Building and Safety		
1974	Los Angeles County, Building and Safety		
1973	Los Angeles County, Building and Safety		
1972	Los Angeles County, Building and Safety		
1971	Los Angeles County, Building and Safety		
1970	Los Angeles County, Building and Safety		

Name: JurisdictionName
Years: Years
Source: Source
Phone: Phone

BUILDING DEPARTMENT RECORDS SEARCHED

Name: Los Angeles County
Years: 1970-2022
Source: Los Angeles County, Building and Safety, LA CANADA FLINTRIDGE, CA
Phone: (626) 458-6368

TARGET PROPERTY FINDINGS

TARGET PROPERTY DETAIL

471 Knight Way
La Canada Flintridge, CA 91011

No Permits Found

ADJOINING PROPERTY FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

GOULD AVE

4900 GOULD AVE

Date:	**3/4/2014**
Permit Type:	**EL**
Description:	**ELECTRICAL FOR OUTSIDE KITCHEN AND ARBORS**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1403040007
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GARDEN VIEW, INC.

Date:	**3/4/2014**
Permit Type:	**CP**
Description:	**POOL REMODEL EXTENDING EXISTING POOL AND RELOCATE POOL EQUIPMENT**
Permit Description:	**COMBINATION POOL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1403040002
Status:	FINALED
Valuation:	$77,500.00
Contractor Company:	
Contractor Name:	GARDEN VIEW, INC.

ADJOINING PROPERTY FINDINGS

Date:	**3/4/2014**
Permit Type:	**PL**
Description:	**PLUMBING FOR KITCHEN**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1403040002
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GARDEN VIEW, INC.

Date:	**3/4/2014**
Permit Type:	**BL**
Description:	**NEW ARBOR WITH KITCHEN**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	1403040008
Status:	FINALED
Valuation:	$19,700.00
Contractor Company:	
Contractor Name:	GARDEN VIEW, INC.

Date:	**3/4/2014**
Permit Type:	**BL**
Description:	**NEW ARBOR 300 SQ.FT.**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	1403040011
Status:	FINALED
Valuation:	$12,500.00
Contractor Company:	
Contractor Name:	GARDEN VIEW, INC.

ADJOINING PROPERTY FINDINGS

4919 GOULD AVE

Date:	**10/8/2014**
Permit Type:	**EL**
Description:	**ELECTRICAL FOR ADDITION**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1410080006
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	H M H ELECTRIC AND G C

Date:	**10/6/2014**
Permit Type:	**ME**
Description:	**ALTERATION OF DUCT SYSTEM**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1410060011
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	AMT AIR CONDITIONING

ADJOINING PROPERTY FINDINGS

Date:	**8/26/2014**
Permit Type:	**BL**
Description:	**147 SQ FT ADDITION TO CONNECT (E) CABANA TO SINGLE FAMILY DWELLING UNIT, AND ENCLOSE 317 SQ FT (E) BREEZEWAY**
Permit Description:	**BUILDING PERMIT**
Work Class:	RESIDENTIAL ADDITION
Proposed Use:	
Permit Number:	1403130059
Status:	PERMISUD
Valuation:	$25,000.00
Contractor Company:	
Contractor Name:	KHACHIK PILIPOSSIAN

4927 GOULD AVE

Date:	**1/22/2016**
Permit Type:	**ME**
Description:	**REPLACE 2 FURNACES AND REPLACE 1 AIR CONDITIONER**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1601220008
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	LA CANADA AIR CONDITIONING, INC.

ADJOINING PROPERTY FINDINGS

Date:	**3/20/2014**
Permit Type:	**CB**
Description:	**INSTALL ROOF MOUNTED SOLAR PV SYSTEM; 37 MODULES; 9.25 KW; 2 INVERTERS; 641 SQ.FT.**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1403040001
Status:	FINALED
Valuation:	$20,440.00
Contractor Company:	
Contractor Name:	SOLARCITY COPORATION

4937 GOULD AVE

Date:	**5/16/2012**
Permit Type:	**BL**
Description:	**ADD 242 SQ FT TO 1ST FL OF SFD TO CREATE (N) BEDROOM WITH 2 CLOSETS; DEMO (E) 550 SQ FT ATTACHED CARPORT;& BUILD (N) 470 SQ FT ATTACHED GARAGE.**
Permit Description:	**BUILDING PERMIT**
Work Class:	RESIDENTIAL ADDITION
Proposed Use:	
Permit Number:	1112290020
Status:	FINALED
Valuation:	$75,000.00
Contractor Company:	
Contractor Name:	JOHN OLIVER CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date:	**5/16/2012**
Permit Type:	**BL**
Description:	**NEW RET WALL - 7'H X 28'L**
Permit Description:	**BUILDING PERMIT**
Work Class:	RETAINING WALL
Proposed Use:	
Permit Number:	1112290026
Status:	FINALED
Valuation:	$5,000.00
Contractor Company:	
Contractor Name:	JOHN OLIVER CONSTRUCTION

Date:	**5/16/2012**
Permit Type:	**EL**
Description:	**ELECTRICAL FOR ADDITION & NEW ATTACHED GARAGE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1205160004
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	JOHN OLIVER CONSTRUCTION

Date:	**5/16/2012**
Permit Type:	**ME**
Description:	**MECHANICAL FOR ADDITION & NEW ATTACHED GARAGE**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1205160005
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	JOHN OLIVER CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date:	**5/16/2012**
Permit Type:	**PL**
Description:	**PLUMBING FOR ADDITION & NEW ATTACHED GARAGE**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1205160005
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	JOHN OLIVER CONSTRUCTION

5027 GOULD AVE

Date:	**11/4/2014**
Permit Type:	**PL**
Description:	**COPPER REPIPE**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1411040006
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	REPIPE PRO

ADJOINING PROPERTY FINDINGS

KNIGHT WAY

416 KNIGHT WAY

Date:	**9/14/2011**
Permit Type:	**EL**
Description:	**RELOCATE SERVICE AND INSTALL NEW 200 AMP PANEL**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1109140002
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

448 KNIGHT WAY

Date:	**5/27/2011**
Permit Type:	**EL**
Description:	**ROOF MOUNTED SOLAR SYSTEM**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1105270010
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **5/27/2011**
Permit Type: **BL**
Description: **ROOF MOUNTED SOLAR SYSTEM**

Permit Description: **BUILDING PERMIT**
Work Class: ALTERATION/REPAIR
Proposed Use:
Permit Number: 1105270018
Status: FINALED
Valuation: $10,500.00
Contractor Company:
Contractor Name:

458 KNIGHT WAY

Date: **4/14/2014**
Permit Type: **PL**
Description: **PLUMBING FOR ADDITION BL-1311190013**

Permit Description: **PLUMBING PERMIT**
Work Class:
Proposed Use:
Permit Number: 1404140010
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: NUTSWOODWORK@DESIGN

Date: **4/14/2014**
Permit Type: **EL**
Description: **ELECTRICAL FOR ADDITION; 200 AMP PANEL UPGRADE BL-131119001**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 1404140013
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: NUTSWOODWORK@DESIGN

ADJOINING PROPERTY FINDINGS

Date:	**2/18/2014**
Permit Type:	**BL**
Description:	**ADDITION 723 SQ.FT; EXTEND KITCHEN AND LIVING ROOM; STUDY ROOM; TRELLIS 290 SQ.FT; REMODEL 100 SQ.FT.**
Permit Description:	**BUILDING PERMIT**
Work Class:	RESIDENTIAL ADD/ALT
Proposed Use:	
Permit Number:	1311190013
Status:	PERMISUD
Valuation:	$145,755.00
Contractor Company:	
Contractor Name:	NUTSWOODWORK@DESIGN

464 KNIGHT WAY

Date:	**12/12/2016**
Permit Type:	**CB**
Description:	**INSTALL (N) ROOF MOUNTED SOLAR PV SYSTEM; 24 PANELS, 6.24KW, 1 INVERTER, 432 SQ.FT.**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1612050035
Status:	FINALED
Valuation:	$12,000.00
Contractor Company:	
Contractor Name:	SOLARCITY

ADJOINING PROPERTY FINDINGS

470 KNIGHT WAY

Date:	**10/14/2016**
Permit Type:	**EL**
Description:	**NEW 200A SERVICE, NEW 100A SUBPANEL AND NEW OUTLETS IN GAR**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1610140010
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GREGG ELECTRIC

Date:	**4/18/2016**
Permit Type:	**BL**
Description:	**ADDITION TO GARAGE 539 SQ.FT.**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	1510210012
Status:	FINALED
Valuation:	$50,000.00
Contractor Company:	
Contractor Name:	

Date:	**11/21/2014**
Permit Type:	**EL**
Description:	**ELECTRICAL FOR ADDITION BL-1410090004**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1411200011
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**11/21/2014**
Permit Type:	**PL**
Description:	**PLUMBING FOR ADDITION BL-1410090004**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1411210002
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	BARNETT PLUMBING

Date:	**10/24/2014**
Permit Type:	**BL**
Description:	**ADDITION 113 SQ.FT.; ENCLOSE PORCH TO LIVING SPACE AND REMODEL KITCHEN 400 SQ.FT.**
Permit Description:	**BUILDING PERMIT**
Work Class:	RESIDENTIAL ADD/ALT
Proposed Use:	
Permit Number:	1410090004
Status:	FINALED
Valuation:	$40,000.00
Contractor Company:	
Contractor Name:	

Date:	**2/21/2013**
Permit Type:	**BL**
Description:	**REROOF SFD/GAR: REMOVE (E) WOOD SHAKE; (E) SHEATHING TO REMAIN; REROOF WITH 30 YR CLASS A COMP SHINGLE: 2.5PSF; 3000 SQ FT**
Permit Description:	**BUILDING PERMIT**
Work Class:	RESIDENTIAL ADD/ALT
Proposed Use:	
Permit Number:	1302210018
Status:	FINALED
Valuation:	$15,000.00
Contractor Company:	
Contractor Name:	TOP ROOFING, INC.

ADJOINING PROPERTY FINDINGS

Date:	**12/26/2012**
Permit Type:	**CB**
Description:	**INSTALL ROOF MOUNTED SOLAR: 16 PANELS; 1 INVERTER; 3680 KW; 215 SQ FT**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1212190001
Status:	PERMISUD
Valuation:	$14,000.00
Contractor Company:	
Contractor Name:	PHAT ENERGY CORPORATION

510 KNIGHT WAY

Date:	**8/16/2017**
Permit Type:	**BL**
Description:	**INSTALL TWO NEW AUTOMATIC DRIVEWAY ENTRY GATES, EACH WITH 2 4X4 TUBE STEEL POSTS AND 1 SINGLE 10'-0" WIDE GATE.**
Permit Description:	**BUILDING PERMIT**
Work Class:	RETAINING WALL
Proposed Use:	
Permit Number:	1708040006
Status:	FINALED
Valuation:	$2,500.00
Contractor Company:	
Contractor Name:	HIREX CORPORATION

ADJOINING PROPERTY FINDINGS

Date:	**4/21/2016**
Permit Type:	**BL**
Description:	**661 SQ.FT. ADDITION; MASTER BATH, FOYER, KITCHEN, DINING RM, BATHROOM; INTERIOR REMODEL 1083 SQ.FT.**
Permit Description:	**BUILDING PERMIT**
Work Class:	RESIDENTIAL ADD/ALT
Proposed Use:	
Permit Number:	1510050024
Status:	PERMISUD
Valuation:	$159,170.00
Contractor Company:	
Contractor Name:	HIREX CORPORATION

Date:	**4/21/2016**
Permit Type:	**ME**
Description:	**MECHANICAL FOR 661 SQ.FT. ADDITION AND INTERIOR REMODEL 1083 SQ.FT.; 1 GAS FIREPLACE, 4 VENT FANS**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1604210001
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	HIREX CORPORATION

ADJOINING PROPERTY FINDINGS

Date:	**4/21/2016**
Permit Type:	**EL**
Description:	**ELECTRICAL FOR 661 SQ.FT. ADDITION AND INTERIOR REMODEL (E) 1083 SQ.FT.; 10 OUTLETS, 25 LIGHT FIXTURES, 200 AMP PANEL, 1 OVEN, 1 GARBAGE DIS., 1 DISHWASHER, 1 HOOD, 4 FANS, 1 WASH**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1604210003
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	HIREX CORPORATION

Date:	**4/21/2016**
Permit Type:	**PL**
Description:	**PLUMBING FOR 661 SQ.FT. ADDITION AND INTERIOR REMODEL 1083 SQ.FT.; 5 TUB/SHWR FIXTURES, 1 CLOTHES WASHER FIXTURE, 1 DISHWASHER FIXTURE, 2 HOSE BIBBS, 5 SINKS, 4 TOILETS**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1604210005
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	HIREX CORPORATION

ADJOINING PROPERTY FINDINGS

513 KNIGHT WAY

Date:	**7/10/2014**
Permit Type:	**SE**
Description:	**INSTALL SEWER CONNECTION TO MAIN AND ABANDONED SEPTIC SYSTEM A 41900908**
Permit Description:	**SEWER PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1407100026
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GOPHER CONSTRUCTION CO.

523 KNIGHT WAY

Date:	**5/17/2013**
Permit Type:	**PL**
Description:	**COPPER WATER SERVICE**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1305170002
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GRIPP PLUMBING SERVICE

ADJOINING PROPERTY FINDINGS

525 KNIGHT WAY

Date:	**5/14/2013**
Permit Type:	**PL**
Description:	**REPLACING COPPER WATER PIPING**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1305140007
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GRIPP PLUMBING SERVICE

OLIVETA PL

442 OLIVETA PL

Date:	**4/10/2013**
Permit Type:	**ME**
Description:	**REPLACE HVAC SYSTEM - SAME LOCATION**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1304090005
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **4/10/2013**
Permit Type: **EL**
Description: **ELECTRICAL FOR HVAC REPLACEMENT**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 1304090040
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name:

446 OLIVETA PL

Date: **10/12/2011**
Permit Type: **EL**
Description: **ADDITIONAL LIGHTING AND OUTLETS**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 1110120012
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name:

Date: **9/23/2011**
Permit Type: **PL**
Description: **PLUMBING FOR FAMILY ROOM AND BATHROOM ADDITION**

Permit Description: **PLUMBING PERMIT**
Work Class:
Proposed Use:
Permit Number: 1109230003
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date: **9/23/2011**
Permit Type: **EL**
Description: **ELECTRICAL FOR FAMILY ROOM AND BATHROOM ADDITION**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 1109230004
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name:

450 OLIVETA PL

Date: **12/9/2011**
Permit Type: **EL**
Description: **ELECTRICAL FOR SFD REMODEL/ADDITION; REWIRE, PANEL UPGRADE; NEW INTERIOR/EXTERIOR LIGHTING**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 1110060017
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**10/20/2011**
Permit Type:	**BL**
Description:	**REMOVE EXISTING COMP SHINGLES AND REPLACE WITH CERTAINTEED LANDSMARK COMP SHINGLE LEAVING EXISTING ROOD DECK. PITCH IS 4:12**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	1110200014
Status:	PERMISUD
Valuation:	$9,800.00
Contractor Company:	
Contractor Name:	

Date:	**10/19/2011**
Permit Type:	**PL**
Description:	**REMODELING BATHROOM/KITCHEN AND LAUNDRY ROOM**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1110190003
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**9/26/2011**
Permit Type:	**BL**
Description:	**REMODEL SFD. REPLACE 25 WINDOWS (11 TO BE ENLARGED) & 6 DOORS; REMODEL KITCHEN; REMODEL & RELOCATE BATHROOM; AND RE- STUCCO ENTIRE OUTSIDE OF SFD.**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	1109190019
Status:	PERMISUD
Valuation:	$75,000.00
Contractor Company:	
Contractor Name:	

PAULETTE PL

468 PAULETTE PL

Date:	**2/8/2012**
Permit Type:	**BL**
Description:	**REROOF SFD/GAR: REMOVE 1 LAYER COMP SHINGLE & 1 LAYER OF FELT & REPLACE W/ 1 LAYER CLASS "A" 30 YR COMP SHINGLE & 1 LAYER OF FELT. 4:12; 3500 SQ FT; 2.8 LBS/SQ FT**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	1202080016
Status:	FINALED
Valuation:	$7,800.00
Contractor Company:	
Contractor Name:	ROOFING USA AND WATERPROOFING, INC.

ADJOINING PROPERTY FINDINGS

474 PAULETTE PL

Date:	**5/5/2016**
Permit Type:	**ME**
Description:	**REPLACE A/C AND FURNACE**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1512090003
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ALL AIR APPLIANCE MASTERS

Date:	**3/22/2016**
Permit Type:	**BL**
Description:	**REROOF HOUSE AND GARAGE COMPLETE TEAR-OFF, NEW 1/2" OSB CLASS A SHINGLES**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	1309030033
Status:	PERMISUD
Valuation:	$15,000.00
Contractor Company:	
Contractor Name:	LONGLIFE CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date: **6/20/2012**
Permit Type: **SE**
Description: **4" SEWER REPAIR TO MAIN LINE. CONNECTION IS EXISTING**

Permit Description: **SEWER PERMIT**
Work Class:
Proposed Use:
Permit Number: 1206200004
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: AMERICAN RESIDENTIAL SERVICES

Date: **6/18/2012**
Permit Type: **PL**
Description: **REPLACE DRAIN LINES UNDER SFD**

Permit Description: **PLUMBING PERMIT**
Work Class:
Proposed Use:
Permit Number: 1206180009
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: AMERICAN RESIDENTIAL SERVICES

484 PAULETTE PL

Date: **5/10/2013**
Permit Type: **PL**
Description: **PLUMBING FOR GAS FIRE PIT**

Permit Description: **PLUMBING PERMIT**
Work Class:
Proposed Use:
Permit Number: 1305100001
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: PACIFIC PAVINGSTONE, INC.

ADJOINING PROPERTY FINDINGS

Date:	**5/9/2013**
Permit Type:	**PL**
Description:	**PLUMBING FOR GAS FIRE PIT**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1305090009
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PACIFIC PAVINGSTONE, INC.

Date:	**5/9/2013**
Permit Type:	**CP**
Description:	**NEW 48 SQ FT IN GROUND SPA - LACO STD PLAN # 260077-13**
Permit Description:	**COMBINATION POOL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1305090002
Status:	FINALED
Valuation:	$13,000.00
Contractor Company:	
Contractor Name:	PACIFIC PAVINGSTONE, INC.

Date:	**4/12/2013**
Permit Type:	**EL**
Description:	**ELCTRICAL FOR NEW SFD**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1304120006
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	L P ROBINSON ELECTRIC, INC.

ADJOINING PROPERTY FINDINGS

Date:	**3/26/2013**
Permit Type:	**ME**
Description:	**MECHANICAL FOR NEW SFD - BL1209140011 NO ELECTRICAL WORK TO BE PERFORMED**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1303260003
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SO-CAL HEATING AND AIR

Date:	**1/22/2013**
Permit Type:	**BL**
Description:	**808 SF ADD: (N) FAMILY RM, EXPAND (E) BEDRM, & RELOCATE BDRM TO CREATE MASTER SUITE; (N) 160 SF SOLID PATIO COVER; REMODEL: 1 BATHRM, KITCHEN, CONVERT FAMILY RM TO LIVING RM****
Permit Description:	**BUILDING PERMIT**
Work Class:	RESIDENTIAL ADD/ALT
Proposed Use:	
Permit Number:	1209140011
Status:	PERMISUD
Valuation:	$258,750.00
Contractor Company:	
Contractor Name:	ABEL BUILDERS, INC. GEN CONTRACTORS

ADJOINING PROPERTY FINDINGS

490 PAULETTE PL

Date:	**5/16/2018**
Permit Type:	**CP**
Description:	**NEW POOL AND SPA**
Permit Description:	**COMBINATION POOL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1805160001
Status:	FINALED
Valuation:	$30,000.00
Contractor Company:	
Contractor Name:	C. E. CONTRACTORS, INC.

Date:	**11/5/2015**
Permit Type:	**BL**
Description:	**ADDITION 1274 SQ.FT. AND REMODEL 2000 SQ.FT.**
Permit Description:	**BUILDING PERMIT**
Work Class:	RESIDENTIAL ADD/ALT
Proposed Use:	
Permit Number:	1510150001
Status:	PERMISUD
Valuation:	$230,000.00
Contractor Company:	
Contractor Name:	KALSTEEL CONSTRUCTION

Date:	**11/5/2015**
Permit Type:	**PL**
Description:	**PLUMBING FOR ADDITION AND REMODEL**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1511050002
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	KALSTEEL CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date: **11/5/2015**
Permit Type: **ME**
Description: **MECHANICAL FOR ADDITION AND REMODEL**

Permit Description: **MECHANICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 1511050003
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: KALSTEEL CONSTRUCTION

Date: **11/5/2015**
Permit Type: **EL**
Description: **ELECTRICAL FOR ADDITION AND REMODEL**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 1511050005
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: KALSTEEL CONSTRUCTION

494 PAULETTE PL

Date: **8/15/2011**
Permit Type: **EL**
Description: **RELOCATE & UPGRADE TO 200 AMP PANEL**

Permit Description: **ELECTRICAL PERMIT**
Work Class:
Proposed Use:
Permit Number: 1108150003
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

Date:	**8/5/2011**
Permit Type:	**ME**
Description:	**NEW HEATING AND AIR SYSTEM**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1108050001
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

SANTA INEZ WAY

387 SANTA INEZ WAY

Date:	**7/19/2016**
Permit Type:	**BL**
Description:	**3000 SF REROOF SFD&GAR;REMOVE 1 LYR COMP SHINGLE & REROOF WITH(N) CLASS "A" 30 YR COMP SHINGLE & FIBERTITE SNGL PLY;(E) SHEATHNG REMAIN;ESR1389(PITCH),ESR1456(FLAT), 235 PSF**
Permit Description:	**BUILDING PERMIT**
Work Class:	ALTERATION/REPAIR
Proposed Use:	
Permit Number:	1607180052
Status:	FINALED
Valuation:	$15,000.00
Contractor Company:	
Contractor Name:	FCG AND SONS ROOFING CO.

ADJOINING PROPERTY FINDINGS

VINETA AVE

4902 VINETA AVE

Date:	**9/26/2016**
Permit Type:	**ME**
Description:	**MECHANICAL FOR NEW SINGLE FAMILY DWELLING**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1609260006
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	OAKWOOD BUILDERS, INC.

Date:	**9/26/2016**
Permit Type:	**EL**
Description:	**ELECTRICAL FOR NEW SINGLE FAMILY DWELLING**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1609260008
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	OAKWOOD BUILDERS, INC.

ADJOINING PROPERTY FINDINGS

Date:	**6/9/2016**
Permit Type:	**PL**
Description:	**PLUMBING FOR SFD**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1606090007
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CHARLES SANFORD

Date:	**6/1/2016**
Permit Type:	**BL**
Description:	**(N) 6 FT. HIGH WOOD FENCE ATOP 2 FT. RETAINING WALL; 153 FT LONG; LOCATED AT EAST SIDE OF PROPERTY**
Permit Description:	**BUILDING PERMIT**
Work Class:	RETAINING WALL
Proposed Use:	
Permit Number:	1606010004
Status:	FINALED
Valuation:	$7,420.00
Contractor Company:	
Contractor Name:	ENVIRONMENTAL LANDSCAPE

Date:	**5/31/2016**
Permit Type:	**BL**
Description:	**4,151 SF NEW 2 STORY SINGLE FAMILY DWELLING WITH 802 SF 3-CAR GARAGE. 5 BEDROOM, 5.5 BATHS, DECORATIVE TRELLIS.**
Permit Description:	**BUILDING PERMIT**
Work Class:	NEW RESIDENTIAL
Proposed Use:	
Permit Number:	1601290001
Status:	FINALED
Valuation:	$910,400.00
Contractor Company:	
Contractor Name:	OAKWOOD BUILDERS, INC.

ADJOINING PROPERTY FINDINGS

Date:	**5/24/2016**
Permit Type:	**EL**
Description:	**TEMPORARY POWER**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1605240016
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	OAKWOOD BUILDERS, INC.

Date:	**5/6/2016**
Permit Type:	**CP**
Description:	**NEW 20X40 POOL W 10X8 SPA**
Permit Description:	**COMBINATION POOL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1605060001
Status:	PERMISUD
Valuation:	$40,000.00
Contractor Company:	
Contractor Name:	ENVIRONMENTAL LANDSCAPE

Date:	**5/5/2016**
Permit Type:	**GR**
Description:	**GRADING FOR NEW SFD**
Permit Description:	**GRADING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1605030001
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	OAKWOOD BUILDERS, INC.

ADJOINING PROPERTY FINDINGS

Date: **5/3/2016**
Permit Type: **GR**
Description: **GRADING FOR POOL**

Permit Description: **GRADING PERMIT**
Work Class:
Proposed Use:
Permit Number: 1602190002
Status: FINALED
Valuation: $0.00
Contractor Company:
Contractor Name: OAKWOOD BUILDERS, INC.

Date: **4/12/2016**
Permit Type: **BL**
Description: **DEMO (E) 3000 SQ.FT. SFD AND ATTACHED 400 SQ.FT. GARAGE**

Permit Description: **BUILDING PERMIT**
Work Class: DEMOLITION
Proposed Use:
Permit Number: 1604120001
Status: PERMISUD
Valuation: $0.00
Contractor Company:
Contractor Name: OAKWOOD BUILDERS, INC.

Date: **4/12/2016**
Permit Type: **BL**
Description: **DEMO (E) POOL 15X30**

Permit Description: **BUILDING PERMIT**
Work Class: DEMOLITION
Proposed Use:
Permit Number: 1604120004
Status: PERMISUD
Valuation: $10,000.00
Contractor Company:
Contractor Name: OAKWOOD BUILDERS, INC.

ADJOINING PROPERTY FINDINGS

4910 VINETA AVE

Date:	**2/10/2015**
Permit Type:	**CB**
Description:	**INSTALL NEW ROOF MOUNTED SOLAR PV SYSTEM: 3 PANELS, AT GUEST HOUSE**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1502050003
Status:	FINALED
Valuation:	$5,000.00
Contractor Company:	
Contractor Name:	REEN CONVERGENCE

Date:	**9/24/2014**
Permit Type:	**CB**
Description:	**INSTALL NEW ROOF MOUNTED SOLAR PV SYSTEM: 26 PANELS, INVERTERS, 7.8 KW, SQ FT**
Permit Description:	**BUILDING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1409170001
Status:	FINALED
Valuation:	$59,740.00
Contractor Company:	
Contractor Name:	GREEN CONVERGENCE

ADJOINING PROPERTY FINDINGS

Date:	**8/2/2012**
Permit Type:	**SE**
Description:	**TIE IN NEW SEWER LINE SEPTIC SYSTEM DELETED BY PRIOR CONTRACTOR. BACKWATER VALVE INSTALLED**
Permit Description:	**SEWER PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1208020001
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CHARLES SANFORD PLUMBING INC.

Date:	**7/12/2012**
Permit Type:	**BL**
Description:	**NEW 1-3'H BLOCK WALL W/ 5'11" WOOD FENCE ON TOP - TOTAL: 1-9'H X 386'L.**
Permit Description:	**BUILDING PERMIT**
Work Class:	RETAINING WALL
Proposed Use:	
Permit Number:	1207030024
Status:	FINALED
Valuation:	$40,000.00
Contractor Company:	
Contractor Name:	J FRAME PROPERTIES

Date:	**6/7/2012**
Permit Type:	**EL**
Description:	**ELECTRICAL FOR SUMP PUMP IN GARAGE**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1206070013
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SCENIC POOL AND SPA

ADJOINING PROPERTY FINDINGS

Date:	**5/8/2012**
Permit Type:	**CP**
Description:	**NEW POOL/SPA (600/40 SQ FT) LACO STD PLANS# 26077-12**
Permit Description:	**COMBINATION POOL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1205080001
Status:	FINALED
Valuation:	$40,000.00
Contractor Company:	
Contractor Name:	SCENIC POOL AND SPA

Date:	**3/7/2012**
Permit Type:	**ME**
Description:	**MECHANICAL FOR NEW SFD**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1203070002
Status:	FINALED
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SO-CAL HEATING AND AIR

Date:	**8/24/2011**
Permit Type:	**PL**
Description:	**PLUMBING FOR NEW SFR AND POOL HOUSE**
Permit Description:	**PLUMBING PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1108240012
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**8/23/2011**
Permit Type:	**EL**
Description:	**ELECTRICAL PERMIT FOR NEW SFR/GARAGE/POOL HOUSE/OFFICE 48 KVA GENERATOR**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1108230026
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**5/19/2011**
Permit Type:	**BL**
Description:	**NEW SFD/SHADEBAR PATIO 5154/688 SQ FT (3195 SQ FT ON 1ST FLOOR & 1959 SQ FT ON 2ND FLOOR)**
Permit Description:	**BUILDING PERMIT**
Work Class:	NEW RESIDENTIAL
Proposed Use:	
Permit Number:	1105190052
Status:	PERMISUD
Valuation:	$901,350.00
Contractor Company:	
Contractor Name:	

Date:	**5/19/2011**
Permit Type:	**BL**
Description:	**NEW DETACHED 3 CAR GARAGE WITH BASEMENT 1011/811 SQ FT**
Permit Description:	**BUILDING PERMIT**
Work Class:	NEW RESIDENTIAL
Proposed Use:	
Permit Number:	1105190056
Status:	PERMISUD
Valuation:	$136,650.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**5/19/2011**
Permit Type:	**BL**
Description:	**NEW DETACHED POOL HOUSE/OFFICE 1123/1000 SQ FT**
Permit Description:	**BUILDING PERMIT**
Work Class:	NEW RESIDENTIAL
Proposed Use:	
Permit Number:	1105190058
Status:	PERMISUD
Valuation:	$371,525.00
Contractor Company:	
Contractor Name:	

Date:	**4/27/2011**
Permit Type:	**EL**
Description:	**TPP FOR DEMO CONSTRUCTION FOR BL1104120030**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1104270007
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**4/12/2011**
Permit Type:	**BL**
Description:	**DEMO ENTIRE HOUSE WHICH IS 2251 SQUARE FEET**
Permit Description:	**BUILDING PERMIT**
Work Class:	DEMOLITION
Proposed Use:	
Permit Number:	1104120030
Status:	PERMISUD
Valuation:	$12,000.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

4918 VINETA AVE

Date:	**11/13/2017**
Permit Type:	**ME**
Description:	**HVAC CHANGEOUT - REPLACE (E) FURNACE,(E)CONDENSER, DUCTWORK IN (E) LOCATION; 1 COMPRESSOR,1 FURNACE,4 AIR INLET/OUTLET UNITS**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1711130017
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	LA CANADA AIR CONDITIONING, INC.

Date:	**11/30/2012**
Permit Type:	**ME**
Description:	**REPLACE FURNACE & 9 INLETS/OUTLETS**
Permit Description:	**MECHANICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1211300005
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	LA CANADA AIR CONDITIONING, INC.

ADJOINING PROPERTY FINDINGS

Date:	**11/30/2012**
Permit Type:	**EL**
Description:	**ELECTRICAL FOR FURANCE CHANGE OUT**
Permit Description:	**ELECTRICAL PERMIT**
Work Class:	
Proposed Use:	
Permit Number:	1211300013
Status:	PERMISUD
Valuation:	$0.00
Contractor Company:	
Contractor Name:	LA CANADA AIR CONDITIONING, INC.

GLOSSARY

General Building Department concepts

- **ICC:** The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- **Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections):** This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- **Jurisdiction:** This is the geographic area representing the properties over which a Permitting Authority has responsibility.
- **GC:** General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- **Sub:** Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- **Journeymen:** Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- **HVAC (Mechanical, Heating & Air companies):** HVAC = Heating, Ventilation, and Air Conditioning.
- **ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release):** Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other commons reason for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- **"Pull" a permit:** To obtain and pay for a building permit.
- **CBO:** Chief Building Official
- **Planning Department:** The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- **Zoning Department:** The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- **Zoning District:** A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- **PIN (TMS, GIS ID, Parcel#):** Property Identification Number and Tax Map System number.
- **State Card (Business license):** A license card issued to a contractor to conduct business.
- **Building Inspector (Inspector):** The inspector is a building department employee that inspects building construction for compliance to codes.
- **C.O.:** Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

GLOSSARY

Permit Content Definitions

- Permit Number: The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- Description: A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use (s) of the property.
- Permit Type: Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

Sample Building Permit Data

Date: Nov 09, 2000
Permit Type: Bldg -
New Permit Number: 101000000405
Status: Valuation: $1,000,000.00
Contractor Company: OWNER-BUILDER
Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

Paradise Canyon Elementary School
471 Knight Way
La Canada Flintridge, CA 91011

Inquiry Number: 7144104.6
October 11, 2022

The EDR Property Tax Map Report

Environmental Data Resources Inc
6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

NO COVERAGE

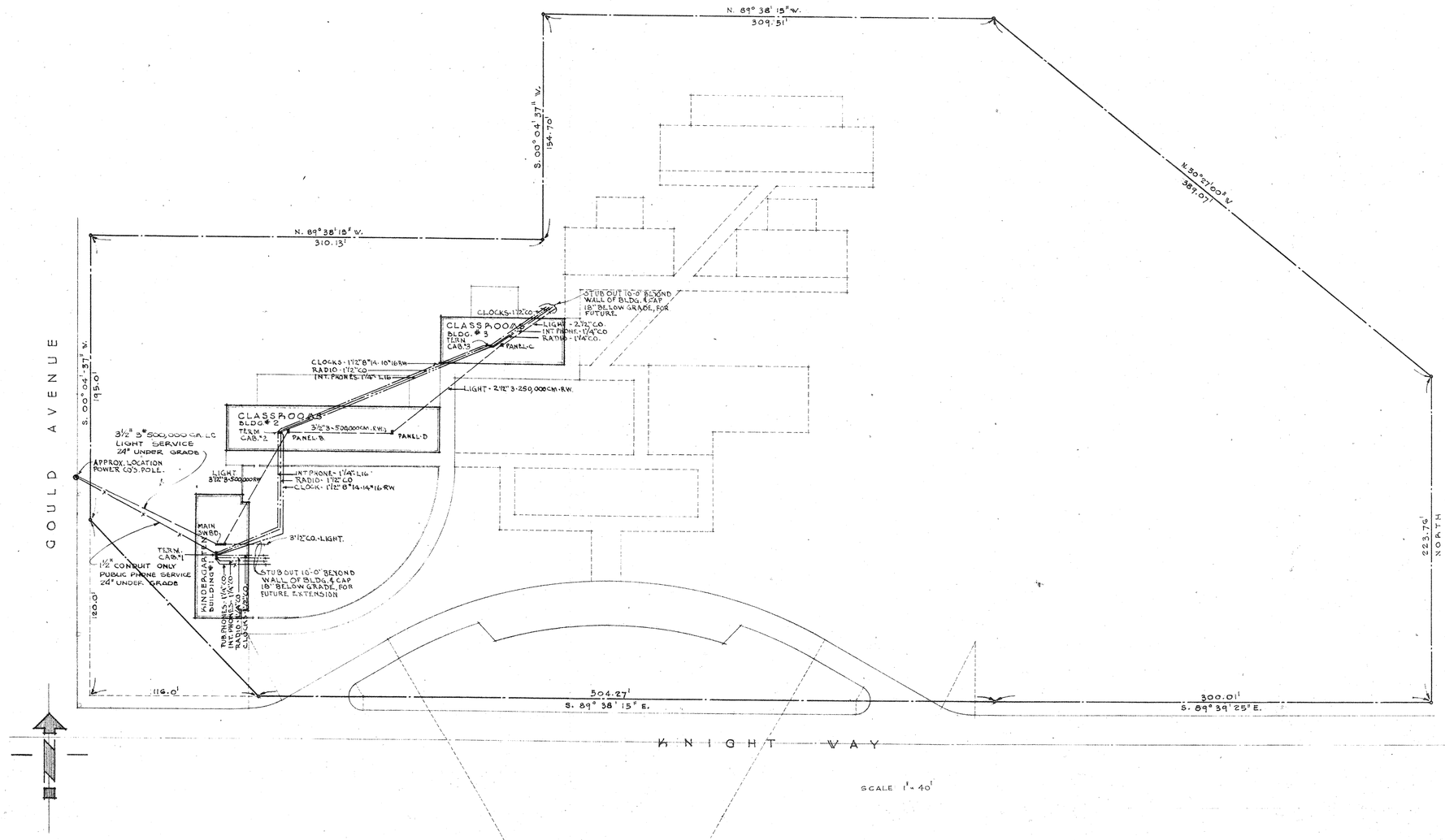
Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

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SCALE 1" = 40'

STATE OF CALIFORNIA-DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPROVED 1-28-49
C587

REVISIONS			
REV.	DATE	DESCRIPTION	APPROVED

JOB FILE NO. 250

DRAWN BY

TRACED BY

CHECKED BY

ARCHITECT

ELECTRICAL DISTRIBUTION

KNIGHT WAY SCHOOL

LA CANADA CALIFORNIA

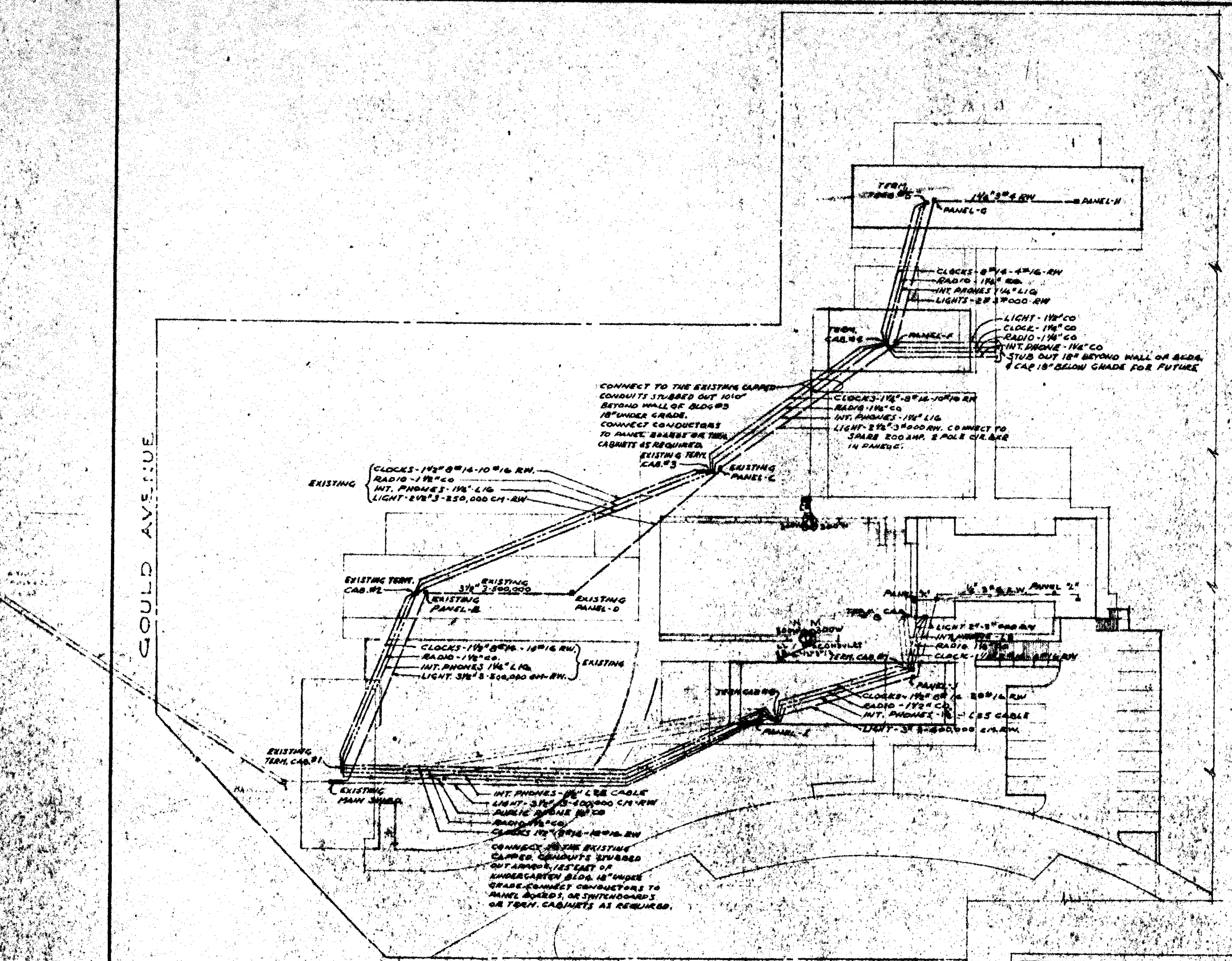
OFFICE OF

RALPH C. FLEWELLING AND WALTER L. MOODY — ARCHITECTS

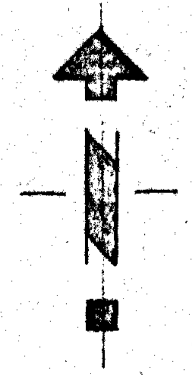
3112 LOS FELIZ BOULEVARD LOS ANGELES 26, CALIFORNIA

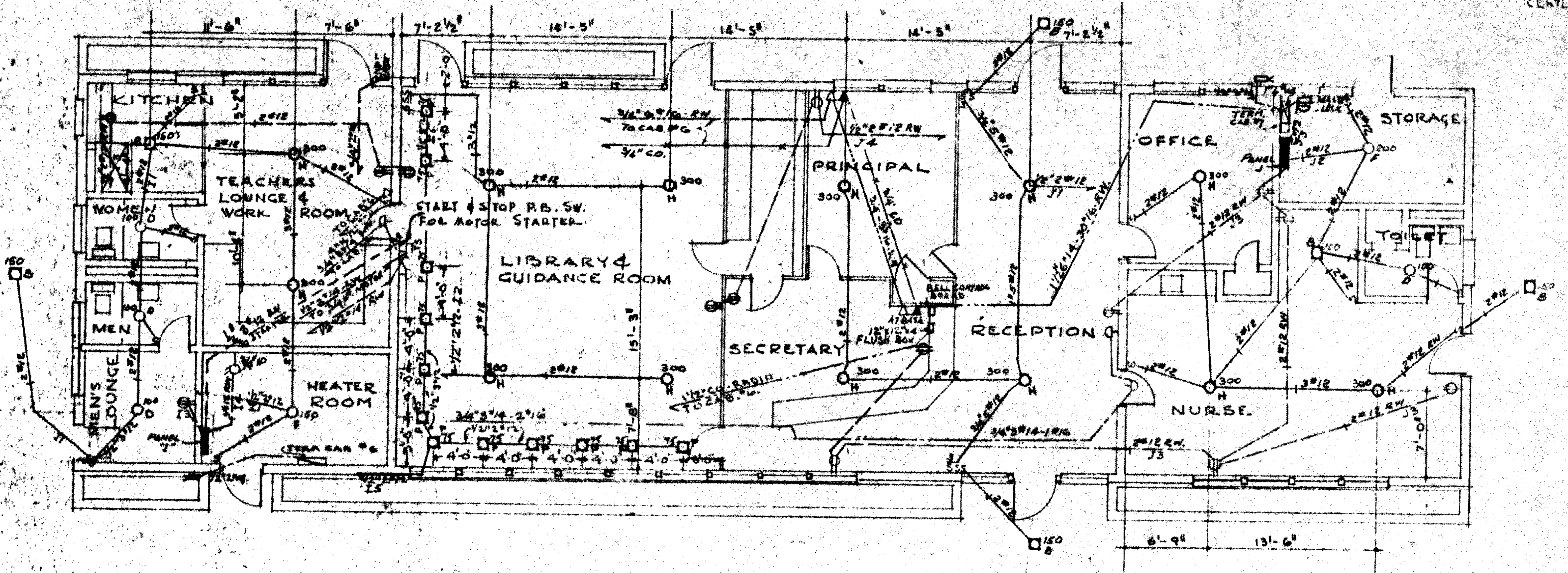
DRAWING NUMBER 4

DATE DEC 14 1948

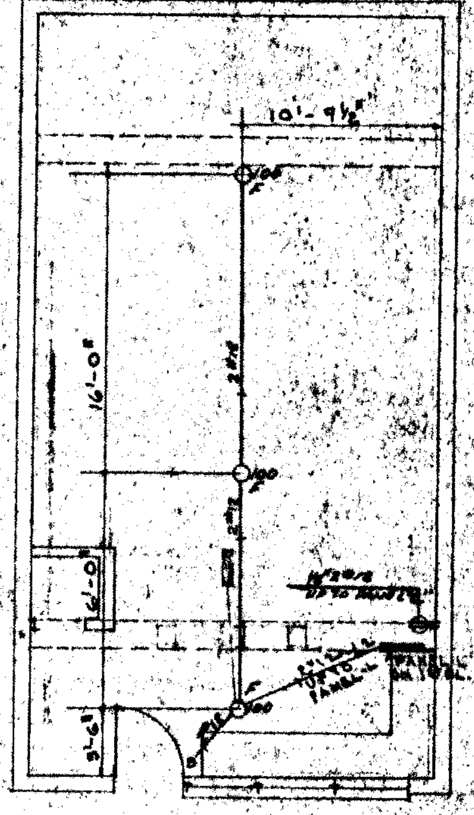


SITE PLAN
SCALE: 1" = 40'-0"

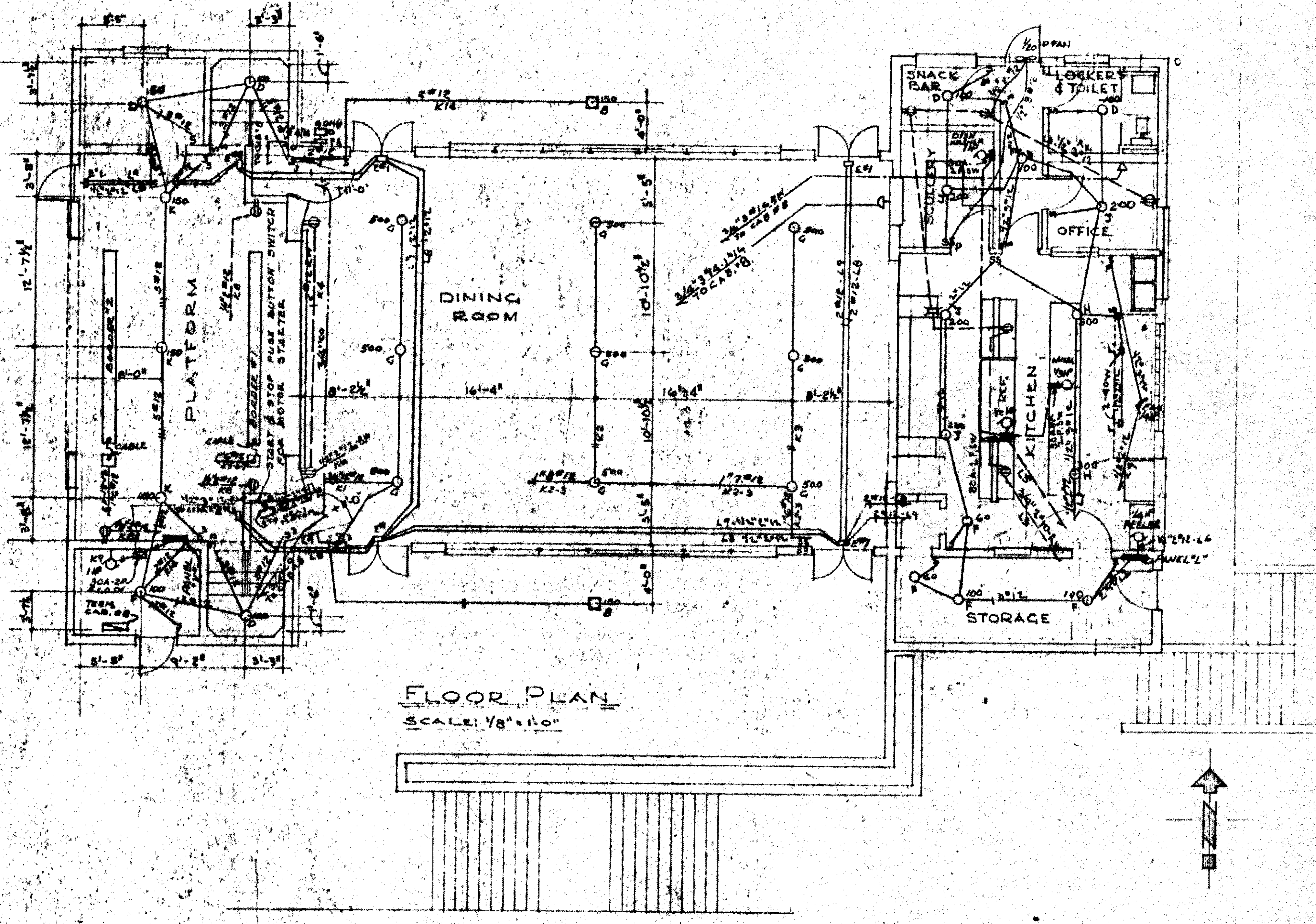




FLOOR PLAN
SCALE: 1/8" = 1'-0"



BASEMENT PLAN
SCALE: 1/8" = 1'-0"



FLOOR PLAN
SCALE: 1/8" = 1'-0"

NOTE:
TYPE "F" FIXTURE SHALL BE 75 WATT HOLOPHANE F-790 FLUSH TYPE FIXTURE COMPLETE WITH CONTROL LENS, OUTLET BOX AND PLASTER RING.
MOUNT CENTER OF LENS [illegible] FROM FACE OF WALL SO THAT [illegible] [illegible] STRIKE ON HORIZONTAL CENTER LINE OF WALL [illegible]

STATE OF CALIFORNIA-DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NO. 7597
APPROVED JAN 20 1950
Harry W. Bolin
SUPERVISING STRUCTURAL ENGINEER

BOARD OF TRUSTEES
LA CAÑADA SCHOOL DISTRICT
John R. Reid
Mary C. Wood

REVISIONS

REV.	DATE	DESCRIPTION	APPROVED

JOB FILE NO. 258
DRAWN BY GAILEY
TRACED BY
CHECKED BY GAILEY TIG
Ralph C. Flewelling
ARCHITECT

ELECTRICAL **CAFETERIA & ADMINISTRATION BUILDING**

ADDITIONS TO KNIGHT WAY SCHOOL
LA CANADA CALIFORNIA

OFFICE OF
RALPH C. FLEWELLING AND WALTER L. MOODY — ARCHITECTS
3112 LOS FELIZ BOULEVARD LOS ANGELES 26, CALIFORNIA

DRAWING NUMBER 34
DATE OCT 24 [illegible]

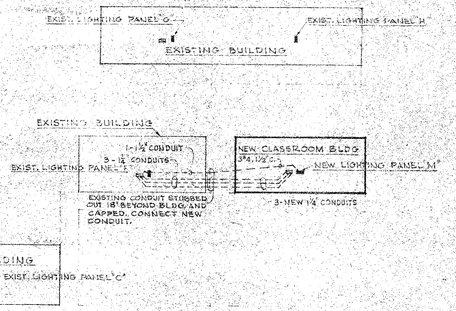
OCT 18 1995

LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION
C	100W WELSBORNE Nº5045H CEILING FIXTURE COMPLETE WITH 12" DIA. OPAL GLASS BOWL.
E	100-150W HOLOPHANE CO. Nº E-1748 FLUSH TYPE FIXTURE WITH PLASTER RING.
G	100W GRAYBAR Nº VG 189, VAPOR-PROOF BRACKET WITH OPAL GLASS BOWL AND GUARD.
F	50-100W ALABAX NEAL 3140 KEYLESS PORCELAIN RECEPTACLE.
H	300W SMOOT HOLMAN Nº RK 500 S INDIRECT BOWL, SILVERED LAMP, SELF ALIGNING STEM FIXTURE. 8-10' MOUNTING HEIGHT.

SWITCHBOARD SCHEDULE

PANEL BOARDS	AMPS
EXISTING PANEL "A"	51.0
EXISTING PANELS "B","C","D","F","G","H"	210.1
EXISTING PANELS "I","J","K","L"	116.8
NEW PANEL "M" FEED FROM 70A., 2P 8 K.R. SPARE IN PANEL "F". REPLACE 70A. 8 K.R. WITH NEW 50A., 2P. 8 K.R.	44.5
TOTAL CONNECTED LOAD	422.4



PART OF SITE PLAN
SCALE 1/40" = 1'-0"

LOCATED AT KNIGHT WAY AND GOULD AVE., LA CANADA - SEE ARCHITECTS SITE PLAN.

SYMBOLS

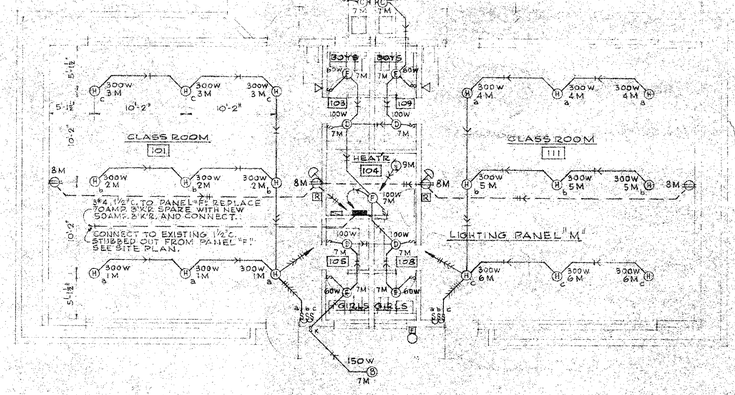
- CONDUIT RUN CONCEALED IN WALLS OR CEILING UNLESS OTHERWISE NOTED.
- CONDUIT RUN UNDER FLOOR OR BELOW GRADE.
- ½" CONDUIT, 2 #12
- ¾" CONDUIT, 4 #12
- 1" CONDUIT, 6 #12
- 1½"c., 3 #2 — LARGER SIZES OF CONDUIT AND WIRE AS INDICATED.
- 1A — INCANDESCENT FIXTURE (SEE FIXTURE SCHEDULE FOR TYPE). "1A" IS CIRCUIT NUMBER AND "a" IS SWITCH CONTROLLING OUTLET.
- BRACKET MOUNTED FIXTURE
- CONVENIENCE OUTLET
- R — RADIO OUTLET
- INTERCOMM. TELEPHONE OUTLET.
- OUTLET FOR MOTOR; 1½" INDICATES H.P.
- SECONDARY CLOCK
- S — SINGLE POLE TOGGLE SWITCH
- Sk — SINGLE POLE SWITCH, KEY OPERATED.
- FA — FIRE ALARM BELL AND BREAKGLASS STATION.
- BELL AND SIGNAL SYSTEM CABINET.
- LP — LIGHTING PANEL, SURFACE MOUNTED
- MSB — MAIN SWITCH BOARD

NOTES

1. LOCATION OF ALL OUTLETS IN HEATER ROOM SHALL BE VERIFIED WITH HEATING CONTRACTOR.
2. THERMOSTATS SHALL BE FURNISHED BY OTHERS BUT THIS CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT AND DO ALL LINE VOLTAGE WIRING; SEE HEATING PLANS.
3. ALL LIGHTING FIXTURES SHALL BE CEILING MOUNTED UNLESS OTHERWISE NOTED.
4. ALL CLOCKS SHALL BE FINISHED TO MATCH COLOR SAMPLES FROM ARCHITECTS OFFICE AND SHALL BE MOUNTED AT HEIGHT CORRESPONDING TO CLOCKS IN EXISTING BUILDINGS UNLESS OTHERWISE DIRECTED BY ARCHITECT.
5. NO UNDERGROUND CONDUIT SHALL BE SMALLER THAN ¾".
6. THIS CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL CLOCK AND BELL SYSTEM EQUIPMENT WITH EQUIPMENT CO. BEFORE PROCEEDING WITH WORK.
7. CLOCK, BELL AND FIRE ALARM EQUIPMENT CO. SHALL SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT USED TO THE ARCHITECT, BEFORE PROCEEDING WITH WORK.
8. ALL CLOCK, BELL, FIRE ALARM, INTERCOMM. AND RADIO EQUIPMENT SHALL BE WIRED THRU CONDUIT AND OUTLETS FOR SAME SHALL BE INSTALLED AT HEIGHTS CORRESPONDING TO THOSE OUTLETS IN EXISTING BUILDINGS. CONDUIT FOR THIS EQUIPMENT SHALL BE SIZED BY THE WIRE REQUIREMENTS OF EQUIPMENT COMPANY.
9. THERE SHALL BE NO ELECTRICAL, TELEPHONE OR OTHER OUTLETS OF ANY KIND LOCATED IN CHALK OR TACK BOARDS. VERIFY LOCATION OF SAME BEFORE PROCEEDING WITH WORK.

LIGHTING PANEL "M"

CIRC. NO.	NO. OUTLETS	W1	W2	REMARKS
1 M	3	900		15 AMP LIGHTS
2 M	3	900		
3 M	3		900	
4 M	3		900	
5 M	3	900		
6 M	3	900		
7 M	12		1090	
8 M	4		480	20 AMP REC.
9 M	1	780		FAN MOTOR
10 M	-	1000		SPARE
11 M	-		1000	
12 M	-		1000	
TOTAL		5380	5370	



PLAN OF 2 CLASSROOM BUILDING
SCALE 1/8" = 1'-0"

ALL DIMENSIONS MUST BE CHECKED AT THE JOB BY THE CONTRACTOR WHO ACCEPTS RESPONSIBILITY FOR CORRECTNESS UNDER THE CONTRACT

BOARD OF TRUSTEES
LA CANADA SCHOOL DISTRICT

REVISIONS			
REV.	DATE	DESCRIPTION	APPROVED

JOB FILE NO. 281

DRAWN BY
TRACED BY
CHECKED BY

Ralph C. Flewelling ARCHITECT

ELECTRICAL

ADDITION TO PARADISE CANYON SCHOOL
LA CANADA CALIFORNIA

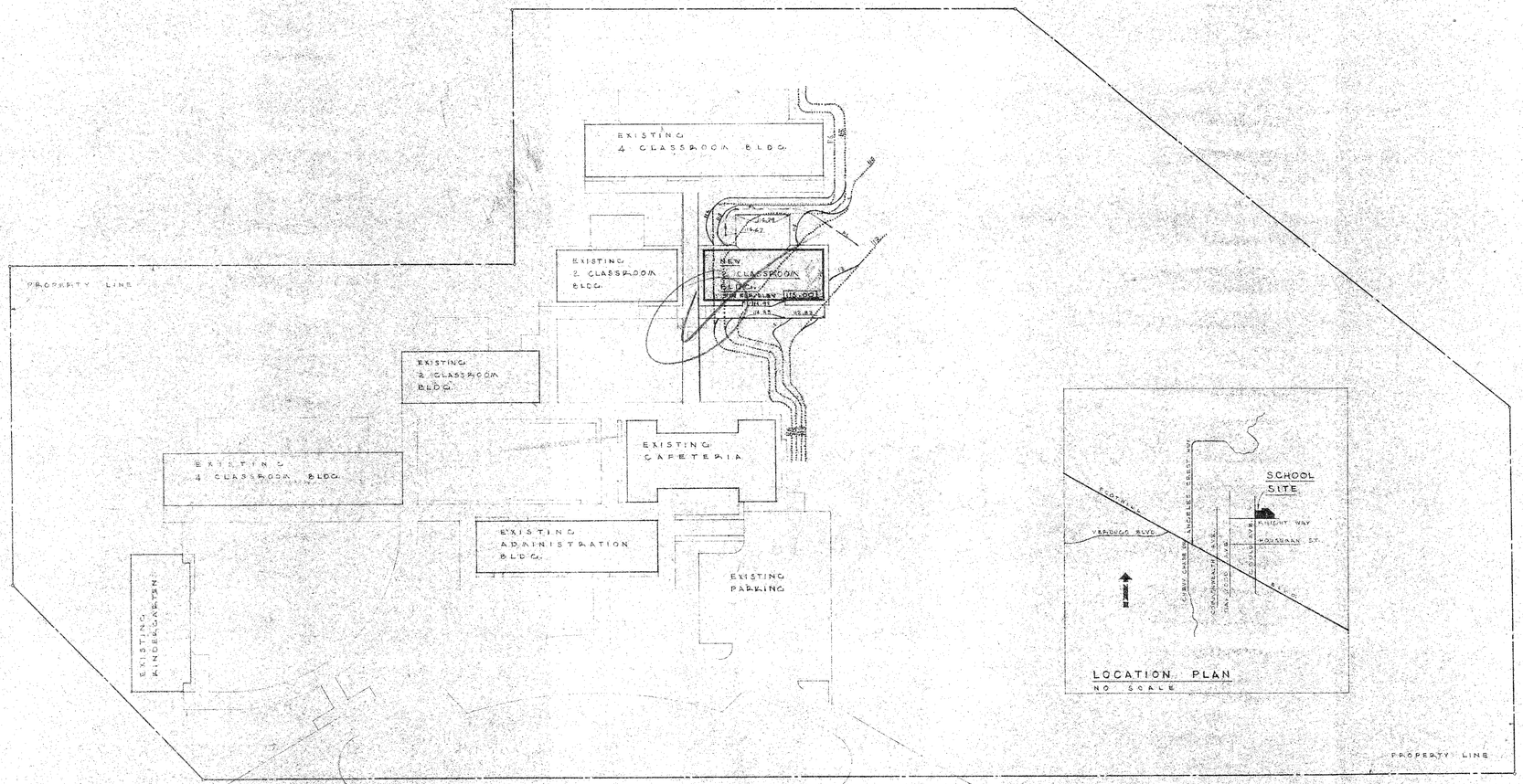
OFFICE OF
RALPH C. FLEWELLING AND WALTER L. MOODY — ARCHITECTS
3112 LOS FELIZ BOULEVARD LOS ANGELES 39, CALIFORNIA

DRAWING NUMBER 15

DATE SEP 28 1951

DRAWING SCHEDULE

DRAWING NO.	DRAWING NAME
1	SITE PLAN
2	FLOOR PLAN & ELEVATIONS
3	FOUNDATION & ROOF FRAMING PLANS
4	STRUCTURAL DETAILS
5	STRUCTURAL DETAILS
6	SECTION & TRUSS DETAILS
7	TOILET ROOM DETAILS
8	TYPICAL DOOR & WINDOW DETAILS
9	TYPICAL DETAILS
10	TYPICAL DETAILS
11	TYPICAL DETAILS
12	TYPICAL STRUCTURAL DETAILS
13	TYPICAL STRUCTURAL DETAILS
14	HEATING & PLUMBING
15	ELECTRICAL



NOTE
PROVIDE ½" EXPANSION JOINTS AT ALL WALKS ADJACENT TO PLANTING AREAS. INTERMEDIATE SECTIONS OF WALKS @ 20'-0" O.C. ALONG WALKS & WHERE OTHERWISE NOTED ON DETAILS.

SITE PLAN
SCALE 1" = 40'-0"

GENERAL NOTES

1. FINISH GRADE AT PERIMETER OF BUILDING SHALL BE 4" BELOW FINISH FLOOR ELEVATION UNLESS OTHERWISE SHOWN AND SHALL SLOPE AWAY FROM BUILDING.
2. WALKS SHALL BE GRADED UNIFORMLY BETWEEN CONTROL ELEVATIONS AND WARPED AT INTERSECTIONS AS REQUIRED.
3. FINISH GRADE ADJACENT TO WALKS SHALL BE 2" BELOW EDGE OF WALKS UNLESS OTHERWISE SHOWN.

LEGEND

- 100.00 — BUILDING FINISH FLOOR ELEVATION
- 100 — EXISTING CONTOURS
- 100 — FINISH COUNTOURS
- FL — FLOW LINE
- 100.00 — FINISH ELEVATIONS

This job was checked by comparison to A 7317

FILE No. 8855
APPL. No.
CHECK SET
Return to Division of Architecture
Has approval of "Division of School Planning" been obtained?
Have all the requirements of the Local Authorities been complied with?

Checked by OF Hall

ALL DIMENSIONS AND CONDITIONS ARE TO BE VERIFIED BY THE CONTRACTOR, WHO ACCEPTS RESPONSIBILITY FOR THEIR ACCURACY UNDER THIS CONTRACT.

BOARD OF TRUSTEES
LA CANADA SCHOOL DISTRICT

REVISIONS			
REV.	DATE	DESCRIPTION	APPROVED

JOB FILE NO. 281
DRAWN BY R. A. C.
TRACED BY
CHECKED BY
ARCHITECT

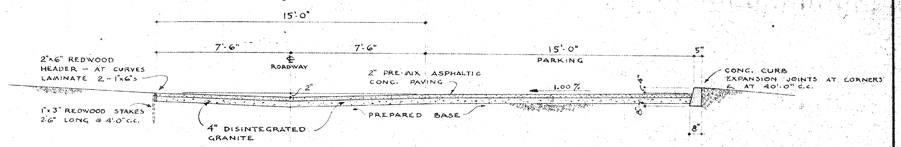
SITE PLAN

ADDITION TO PARADISE CANYON SCHOOL
LA CANADA CALIFORNIA

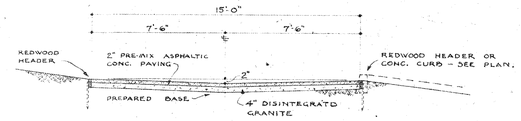
OFFICE OF
RALPH C. FLEWELLING AND WALTER L. MOODY — ARCHITECTS
3112 LOS FELIZ BOULEVARD LOS ANGELES 39, CALIFORNIA

DRAWING NUMBER 1
DATE FEB 20 1951

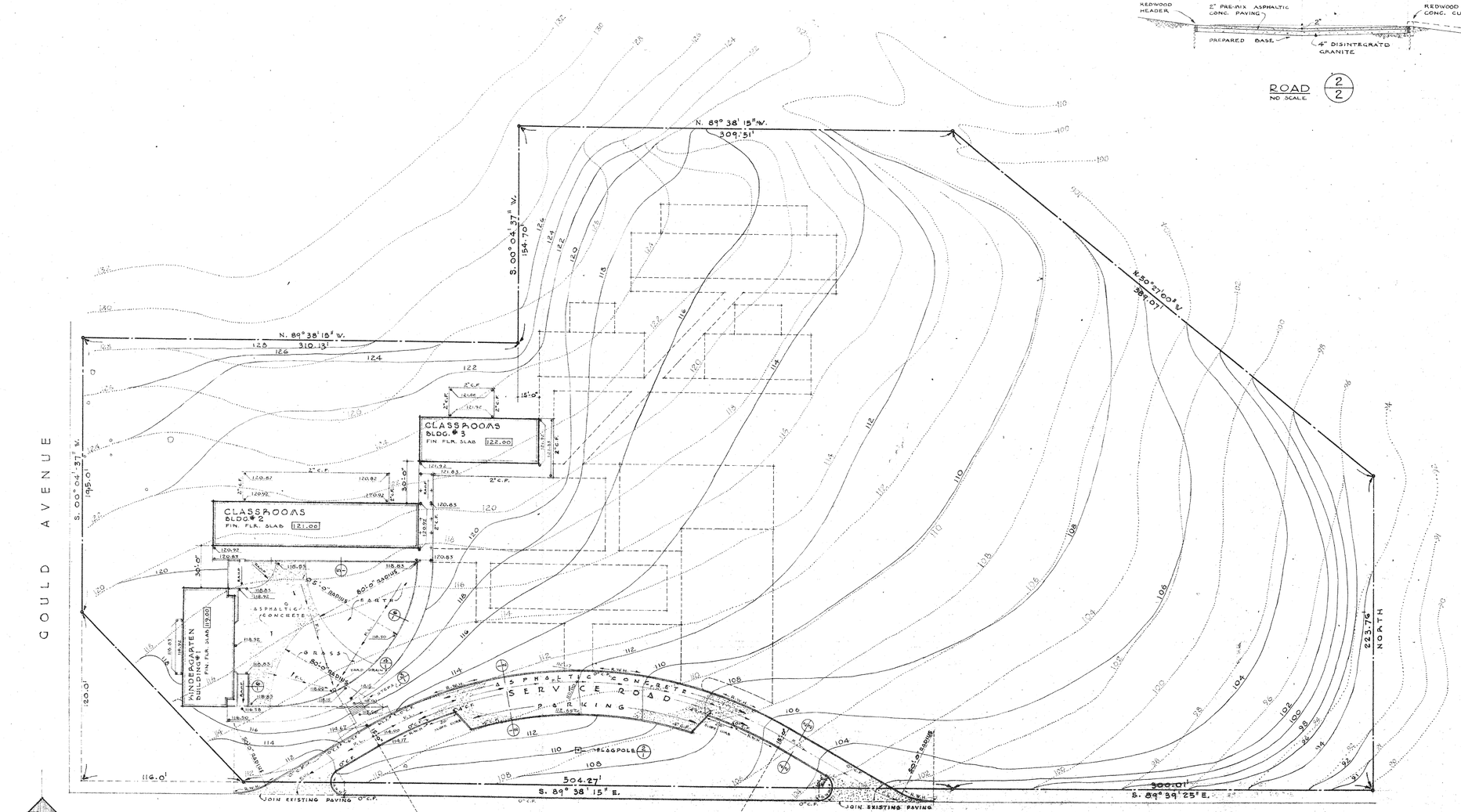
PCY 1951



ROAD & PARKING (1/2)
NO SCALE



ROAD (2/2)
NO SCALE



SCALE 1" = 40'

NOTES & LEGEND

FINISH GRADE AT PERIMETER OF ALL BUILDINGS SHALL BE 4" BELOW FINISH FLOOR ELEVATIONS UNLESS OTHERWISE SHOWN, AND SHALL SLOPE AWAY FROM THE BUILDINGS.

WALKS SHALL BE GRADED UNIFORMLY BETWEEN CONTROL ELEVATIONS AND WARPED AT INTERSECTIONS AS REQUIRED.

FINISH GRADE ADJACENT TO WALKS SHALL BE 2" BELOW EDGE OF WALKS UNLESS OTHERWISE SHOWN.

ALL TREES ON PROPERTY TO REMAIN. GRADE AROUND TREES WHERE REQUIRED TO PROTECT ROOT GROWTH.

100.00	BUILDING FIN. FLR. SLAB ELEVATIONS
100	EXISTING CONTOURS & GRADES
100	FINISH CONTOURS & GRADES
F.L.	FLOW LINE
T.C.	TOP OF CURB
C.F.	CURB FACE
100.00	FINISH ELEVATIONS
R.W.H.	REDWOOD HEADER

STATE OF CALIFORNIA - DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION APPROVED 1-20-49
6587

BOARD OF TRUSTEES
LA CANADA SCHOOL DISTRICT

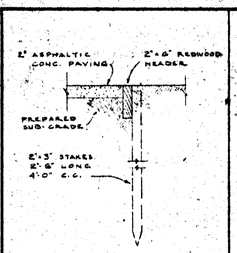
REVISIONS			
REV.	DATE	DESCRIPTION	APPROVED

JOB FILE NO. 250
DRAWN BY L.L.M.
TRACED BY
CHECKED BY
ARCHITECT

GRADING PLAN
KNIGHT WAY SCHOOL
LA CANADA CALIFORNIA

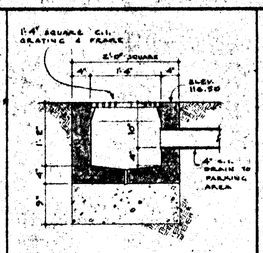
OFFICE OF
RALPH C. FLEWELLING AND WALTER L. MOODY — ARCHITECTS
3112 LOS FELIZ BOULEVARD LOS ANGELES 26, CALIFORNIA

DRAWING NUMBER 2
DATE NOV. 1948



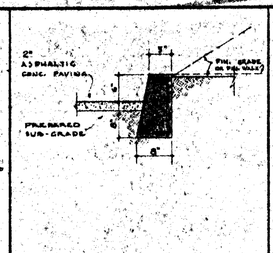
PAVING, HEADER (1/2)

SCALE 1"=1'-0"



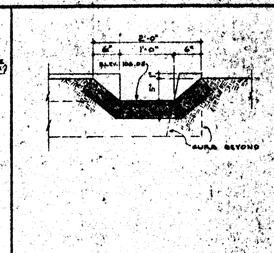
YARD DRAIN (2/2)

SCALE 3/4"=1'-0"



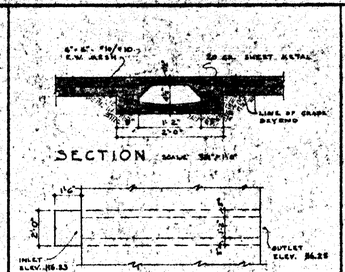
TYPICAL CURB (3/2)

SCALE 3/4"=1'-0"

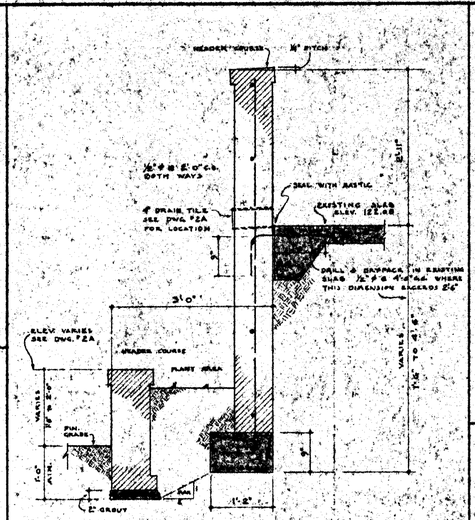


PARKING AREA DRAIN (4/2)

SCALE 3/4"=1'-0"

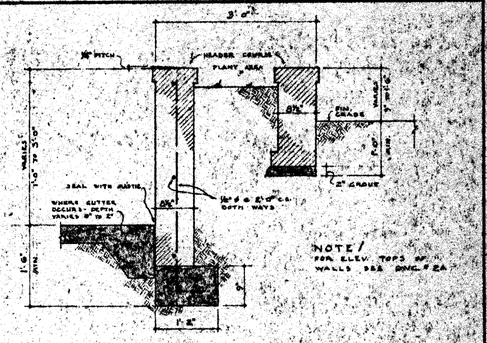


CROSSWALK DRAIN (5/2)



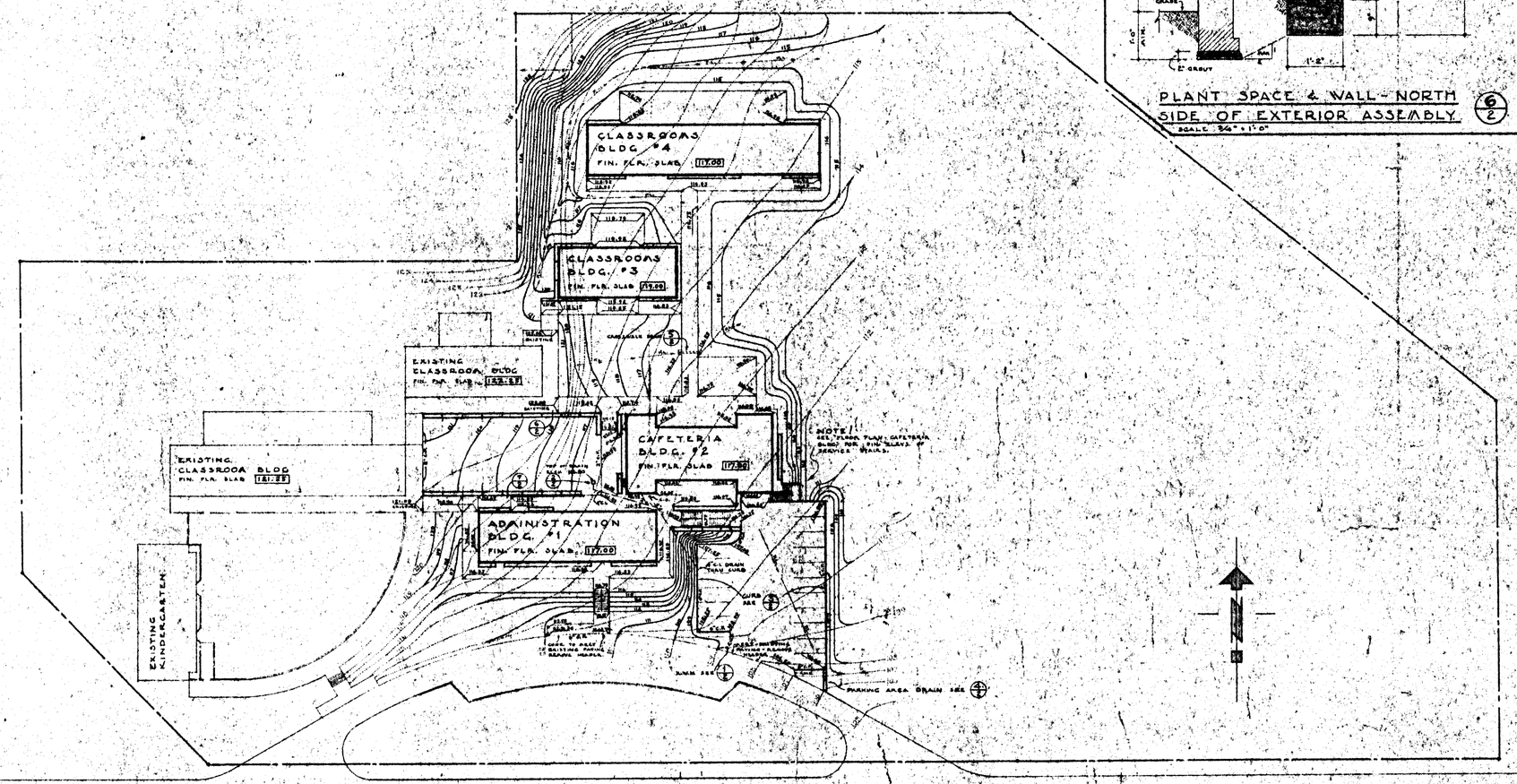
PLANT SPACE & WALL - NORTH SIDE OF EXTERIOR ASSEMBLY (6/2)

SCALE 3/4"=1'-0"



PLANT SPACE - SOUTH SIDE OF EXTERIOR ASSEMBLY (7/2)

SCALE 3/4"=1'-0"



GRADING PLAN

SCALE 1" = 40'

GENERAL NOTES

1. FINISH GRADE AT PERIMETER OF ALL BUILDINGS SHALL BE 4" BELOW FINISH FLOOR ELEVATIONS UNLESS OTHERWISE SHOWN, AND SHALL SLOPE AWAY FROM THE BUILDINGS.
2. WALKS SHALL BE GRADED UNIFORMLY BETWEEN CONTROL ELEVATIONS AND WARPED AT INTERSECTIONS AS REQUIRED.
3. FINISH GRADE ADJACENT TO WALKS SHALL BE 2" BELOW EDGE OF WALKS UNLESS OTHERWISE SHOWN.

LEGEND

100.00	BUILDING FIN. FLR. SLAB ELEVS.
120	EXISTING CONTOURS
120	FINISH CONTOURS
FL	FLOW LINE
100.00	FINISH ELEVATION
C.F.	CURB FACE
T.C.	TOP OF CURB
R.W.	REDWOOD HEADER
T.W.	TOP OF WALL

STATE OF CALIFORNIA-DEPARTMENT OF PUBLIC WORKS
DIVISION OF ARCHITECTURE
APPLICATION NO. 7697 — APPROVED JAN 20 1950
Harry M. Bobb
DEPUTY STATE ARCHITECT

BOARD OF TRUSTEES
LA CANADA SCHOOL DISTRICT
John P. Ewell
Mary L. Moody

REVISIONS			
REV.	DATE	DESCRIPTION	APPROVED

JOB FILE NO. 258
DRAWN BY
TRACED BY
CHECKED BY
Ralph C. Flewelling
ARCHITECT

GRADING PLAN

ADDITIONS TO KNIGHT WAY SCHOOL
LA CANADA CALIFORNIA

OFFICE OF
RALPH C. FLEWELLING AND WALTER L. MOODY — ARCHITECTS
2112 LOS FELIZ BOULEVARD LOS ANGELES 26, CALIFORNIA

DRAWING NUMBER 2

DATE OCT 24 1949

OCT 18 1995

APPENDIX F
LOCAL AND REGIONAL REGULATORY SEARCH REQUESTS

From:	Zachary Freeman
To:	"rb4-publicrecords@waterboards.ca.gov"; cypressfileroom@dtsc.ca.gov; chatsworthfileroom@dtsc.ca.gov
Subject:	File Search Request
Date:	Monday, October 17, 2022 5:36:00 PM
Attachments:	image001.png

Hello,

Leighton Consulting. is requesting information for the property located at the following addresses: **471 Knight Way, La Canada Flintridge, California 91011**. We are requesting any information concerning hazardous waste/materials, underground storage tanks, leaking underground storage tanks cleanup, inspections, violations, or any other environmental sensitive spills, responses or concerns.

Thank you for your assistance,

Zachary Freeman, PG
Project Geologist
10532 Acacia Street, Suite B6
Rancho Cucamonga, CA 91730
o. 909.527.8785
m. 951.743.2642

Celebrate our **60 Years** with us by visiting our new website at www.leightongroup.com

Department of Toxic Substances Control

Meredith Williams, Ph.D.
Director
5796 Corporate Avenue
Cypress, California 90630

Yana Garcia
Secretary for
Environmental Protection

Gavin Newsom
Governor

October 18, 2022

Zachary Freeman
LEIGHTON
zfreeman@leightongroup.com

PR4-101822-01
471 KNIGHT WAY, LA CANADA FLINTRIDGE, CA

Dear Requestor:

We have received your Public Records Act Request from the Department of Toxic Substances Control (DTSC). After a thorough review of our files, no site records were found pertaining to the sites/facilities referenced above.

A large number of our records are available on EnviroStor, an online database that provides non-confidential, public access to DTSCs Data Management System. It tracks our cleanup, permitting, enforcement and investigation efforts at hazardous waste facilities and sites with known or suspected contamination issues. EnviroStor is available 24/7, 365 days a year. The data reflects the latest updates as they are entered in the system. Access it from your computer or smartphone, the local library – anywhere Internet access is available. Just go to www.envirostor.dtsc.ca.gov. You'll find a step-by-step tour of EnviroStor under the "How to Use EnviroStor" menu on the website.

If you have any questions or would like further information regarding your request, please contact me at 714-4845337 or via email at CypressFileRoom@dtsc.ca.gov.

Sincerely,

Julie Chandler
Julie Chandler
Regional Records Coordinator

Department of Toxic Substances Control

Meredith Williams, Ph.D., Director
9211 Oakdale Avenue
Chatsworth, California 91311

Yana Garcia
Secretary for
Environmental Protection

Gavin Newsom
Governor

October 24, 2022

Zachary Freeman
Leighton Consulting
zfreeman@leightongroup.com

Public Records Request Number: PR3-101822-02

Location: 471 Knight Way, La Cañada Flintridge, CA 91011

Dear Mr. Freeman:

On October 18, 2022, the Department of Toxic Substances Control (DTSC) received your email of October 17, 2022, requesting records under the Public Records Act. After a thorough review of our files, no site records were found pertaining to the site/facility referenced above.

However, DTSC's Hazardous Waste Tracking System (HWTS) may have records that pertain to this request. This unit tracks toxic waste generators, transporters (manifests), and disposal facilities. If you are interested in this type of information, it can be identified by accessing the HWTS database at http://hwts.dtsc.ca.gov. If you are interested in retrieving detailed reports, additional charges may apply. Please contact the HWTS unit by email at hwtsreports@dtsc.ca.gov or by phone at (800) 618-6942 for further information. For copies of manifests, please send an email to mcr@dtsc.ca.gov.

Many of our records are available on EnviroStor, an online database that provides non-confidential, public access to DTSC's data management system. It tracks our cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known or suspected contamination issues. EnviroStor is available 24/7, 365 days a year. The data reflects the latest updates as they are entered in the system. Access it from your computer or smartphone, the local library – anywhere Internet access is available. Just go to www.envirostor.dtsc.ca.gov. You'll find a step-by-step tour of EnviroStor under the "How to Use EnviroStor" menu on the website.

If you have any questions or would like further information regarding your request, please contact me at 818-717-6521 or via email at ChatsworthFileRoom@dtsc.ca.gov.

Sincerely,



Robert Hardison
Records Mgmt. Asst. Coordinator

From: LACoFD
To: Zachary Freeman
Subject: LACoFD Public Records Center:: E001792-101722
Date: Thursday, October 20, 2022 4:33:10 PM

--- Please respond above this line ---

RE: PRA of October 17, 2022, Reference # E001792-101722.

Dear Project Geologist Zachary Freeman,

The Los Angeles County Fire Department, Health Hazardous Materials Division, being the custodian or keeper of records, certify that a thorough search for the records you requested has been carried out.

Re: 471 Knight Way
La Canada Flintridge CA 91011

The search revealed that no Hazardous Materials Emergency Response Incident Reports were found for the above noted address.

With the information furnished to our office, and to the best of our knowledge, no records were located.

If you have any questions regarding your request, please contact our office at (323) 890-4239

Los Angeles County Fire Department

Health Hazardous Materials Division

Site Administrator

From: LACoFD
To: Zachary Freeman
Subject: HHMD No File Responsive :: H054341-101722
Date: Monday, October 17, 2022 5:49:12 PM

RE: PRA of October 17, 2022, Reference # H054341-101722.

Dear Project Geologist Zachary Freeman,

The Los Angeles County Fire Department, Health Hazardous Materials Division, being the custodian or keeper of records, certify that a thorough search for the records you requested has been carried out.

Re: 471 Knight Way
La Canada Flintridge CA 91011

The search revealed that your noted address did not match our database.

It should be understood that this does not mean that the records you requested do not exist. It is possible that such records may be misfiled; exist under another spelling, another name, or may have been destroyed based on this Department's Record Retention Policy. However, with the information furnished to our office, and to the best of our knowledge, no records were located.

For businesses in Burbank, Culver City, Downey, City of LA, La Habra, Monrovia, Pasadena, Santa Monica, Torrance & Underground Storage Tanks in Los Angeles County jurisdiction click here.

Los Angeles County Fire Department

Health Hazardous Materials Division

Site Administrator

From: Schmid, Andrea@Waterboards on behalf of WB-RB4-PublicRecords
To: Zachary Freeman; WB-RB4-PublicRecords
Cc: Schmid, Andrea@Waterboards
Subject: RE: File Search Request / Tracking No. 2022101705
Date: Wednesday, October 26, 2022 4:55:12 PM
Attachments: image001.png

Good afternoon,

The Los Angeles Regional Board has reviewed its files and has concluded that it does not have any records that are responsive to your request.

Best regards,

Andrea Schmid
Staff Services Analyst
Los Angeles Regional Water Quality Control Board
320 West 4th St., Suite 200, Los Angeles, CA 90013
andrea.schmid@waterboards.ca.gov

Public Records and Freedom of Information Act
Rb4-Publicrecords@waterboards.ca.gov

****
This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your system.

From: Zachary Freeman <zfreeman@leightongroup.com>
Sent: Monday, October 17, 2022 5:37 PM
To: WB-RB4-PublicRecords <RB4-PublicRecords.RB4-PublicRecords@waterboards.ca.gov>; CypressFileRoom@DTSC <CypressFileRoom@dtsc.ca.gov>; ChatsworthFileRoom@DTSC <ChatsworthFileRoom@dtsc.ca.gov>
Subject: File Search Request

EXTERNAL:

Hello,

Leighton Consulting. is requesting information for the property located at the following addresses: **471 Knight Way, La Canada Flintridge, California 91011**. We are requesting any information concerning hazardous waste/materials, underground storage tanks, leaking underground storage tanks cleanup, inspections, violations, or any other environmental sensitive spills, responses or concerns.

Thank you for your assistance,

Zachary Freeman, PG
Project Geologist
10532 Acacia Street, Suite B6
Rancho Cucamonga, CA 91730
o. 909.527.8785
m. 951.743.2642

Celebrate our **60 Years** with us by visiting our new website at www.leightongroup.com

APPENDIX G
GBA GEOENVIRONMENTAL REPORT

Important Information about This

Geoenvironmental Report

Geoenvironmental studies are commissioned to gain information about environmental conditions on and beneath the surface of a site. The more comprehensive the study, the more reliable the assessment is likely to be. But remember: Any such assessment is to a greater or lesser extent based on professional opinions about conditions that cannot be seen or tested. Accordingly, no matter how many data are developed, risks created by unanticipated conditions will always remain. *Have realistic expectations.* Work with your geoenvironmental consultant to manage known and unknown risks. Part of that process should already have been accomplished, through the risk allocation provisions you and your geoenvironmental professional discussed and included in your contract's general terms and conditions. This document is intended to explain some of the concepts that may be included in your agreement, and to pass along information and suggestions to help you manage your risk.

Beware of Change; Keep Your Geoenvironmental Professional Advised

The design of a geoenvironmental study considers a variety of factors that are subject to change. Changes can undermine the applicability of a report's findings, conclusions, and recommendations. *Advise your geoenvironmental professional about any changes you become aware of.* Geoenvironmental professionals cannot accept responsibility or liability for problems that occur because a report fails to consider conditions that did not exist when the study was designed. Ask your geoenvironmental professional about the types of changes you should be particularly alert to. Some of the most common include:

- modification of the proposed development or ownership group,
- sale or other property transfer,
- replacement of or additions to the financing entity,
- amendment of existing regulations or introduction of new ones, or
- changes in the use or condition of adjacent property.

Should you become aware of any change, *do not rely on a geoenvironmental report.* Advise your geoenvironmental professional immediately; follow the professional's advice.

Recognize the Impact of Time

A geoenvironmental professional's findings, recommendations, and conclusions cannot remain valid indefinitely. The more time that passes, the more likely it is that important latent changes will occur. *Do not rely on a geoenvironmental report if too much time has elapsed since it was completed.* Ask your environmental professional to define "too much time." In the case of Phase I Environmental Site Assessments (ESAs), for example, more than 180 days after submission is generally considered "too much."

Prepare To Deal with Unanticipated Conditions

The findings, recommendations, and conclusions of a Phase I ESA report typically are based on a review of historical information, interviews, a site "walkover," and other forms of noninvasive research. When site subsurface conditions are not sampled in any way, the risk of unanticipated conditions is higher than it would otherwise be.

While borings, installation of monitoring wells, and similar invasive test methods can help reduce the risk of unanticipated conditions, *do not overvalue the effectiveness of testing.* Testing provides information about actual conditions only at the precise locations where samples are taken, and only when they are taken. Your geoenvironmental

professional has applied that specific information to develop a general opinion about environmental conditions. *Actual conditions in areas not sampled may differ (sometimes sharply) from those predicted in a report.* For example, a site may contain an unregistered underground storage tank that shows no surface trace of its existence. *Even conditions in areas that were tested can change*, sometimes suddenly, due to any number of events, not the least of which include occurrences at adjacent sites. Recognize, too, that *even some conditions in tested areas may go undiscovered,* because the tests or analytical methods used were designed to detect only those conditions assumed to exist.

Manage your risks by retaining your geoenvironmental professional to work with you as the project proceeds. Establish a contingency fund or other means to enable your geoenvironmental professional to respond rapidly, in order to limit the impact of unforeseen conditions. And to help prevent any misunderstanding, identify those empowered to authorize changes and the administrative procedures that should be followed.

Do Not Permit Any Other Party To Rely on the Report

Geoenvironmental professionals design their studies and prepare their reports to meet the specific needs of the clients who retain them, in light of the risk management methods that the client and geoenvironmental professional agree to, and the statutory, regulatory, or other requirements that apply. The study designed for a developer may differ sharply from one designed for a lender, insurer, public agency...or even another developer. *Unless the report specifically states otherwise, it was developed for you and only you.* Do not unilaterally permit any other party to rely on it. The report and the study underlying it may not be adequate for another party's needs, and you could be held liable for shortcomings your geoenvironmental professional was powerless to prevent or anticipate. Inform your geoenvironmental professional when you know or expect that someone else—a third-party—will want to use or rely on the report. *Do not permit third-party use or reliance until you first confer with the geoenvironmental professional who prepared the report.* Additional testing, analysis, or study may be required and, in any event, appropriate terms and conditions should be agreed to so both you and your geoenvironmental professional are protected from third-party risks. *Any party who relies on a geoenvironmental report without the express written permission of the professional who prepared it and the client for whom it was prepared may be solely liable for any problems that arise.*

Avoid Misinterpretation of the Report

Design professionals and other parties may want to rely on the report in developing plans and specifications. They need to be advised, in writing, that their needs may not have been considered when the study's scope was developed, and, even if their needs were considered, they might misinterpret geoenvironmental findings, conclusions, and recommendations. *Commission your geoenvironmental professional to explain pertinent elements of the report to others who are permitted to rely on it, and to review any plans, specifications or other instruments of professional service that incorporate any of the report's findings, conclusions, or recommendations.* Your geoenvironmental professional has the best understanding of the issues involved, including the fundamental assumptions that underpinned the study's scope.

Give Contractors Access to the Report

Reduce the risk of delays, claims, and disputes by giving contractors access to the full report, *providing that it is accompanied by a letter of transmittal that can protect you* by making it unquestionably clear that: 1) the study was not conducted and the report was not prepared for purposes of bid development, and 2) the findings, conclusions, and recommendations included in the report are based on a variety of opinions, inferences, and assumptions and are subject to interpretation. Use the letter to also advise contractors to consult with your geoenvironmental professional to obtain clarifications, interpretations, and guidance (a fee may be required for this service), and that—in any event—they should conduct additional studies to obtain the specific type and extent of information each prefers for preparing a bid or cost estimate. Providing access to the full report, with the appropriate caveats, helps prevent formation of adversarial attitudes and claims of concealed or differing conditions. If a contractor elects to ignore the warnings and advice in the letter of transmittal, it would do so at its own risk. Your geoenvironmental professional should be able to help you prepare an effective letter.

Do Not Separate Documentation from the Report

Geoenvironmental reports often include supplemental documentation, such as maps and copies of regulatory files, permits, registrations, citations, and correspondence with regulatory agencies. If subsurface explorations were performed, the report may contain final boring logs and copies of laboratory data. If remediation activities occurred on site, the report may include: copies of daily field reports; waste manifests; and information about the disturbance of subsurface materials, the type and thickness of any fill placed on site, and fill placement practices, among other types of documentation. *Do not separate supplemental documentation from the report. Do not, and do not permit any other party to redraw or modify any of the supplemental documentation for incorporation into other professionals' instruments of service.*

Understand the Role of Standards

Unless they are incorporated into statutes or regulations, standard practices and standard guides developed by the American Society for Testing and Materials (ASTM) and other recognized standards-developing organizations (SDOs) are little more than aspirational methods agreed to by a consensus of a committee. The committees that develop standards may not comprise those best-qualified to establish methods and, no matter what, no standard method can possibly consider the infinite client- and project-specific variables that fly in the face of the theoretical "standard conditions" to which standard practices and standard guides apply. In fact, these variables can be so pronounced that geoenvironmental professionals who comply with every directive of an ASTM or other standard procedure could run afoul of local custom and practice, thus violating the standard of care. Accordingly, when geoenvironmental professionals indicate in their reports that they have performed a service "in general compliance" with one standard or another, it means they have applied professional judgement in creating and implementing a scope of service designed for the specific client and project involved, and which follows some of the general precepts laid out in the referenced standard. To the extent that a report indicates "general compliance" with a standard, you may wish to speak with your geoenvironmental professional to learn more about what was and was not done. *Do not assume a given standard was followed to the letter.* Research indicates that that seldom is the case.

Realize That Recommendations May Not Be Final

The technical recommendations included in a geoenvironmental report are based on assumptions about actual conditions, and so are preliminary or tentative. Final recommendations can be prepared only by observing actual conditions as they are exposed. For that reason, you should retain the geoenvironmental professional of record to observe construction and/or remediation activities on site, to permit rapid response to unanticipated conditions. *The geoenvironmental professional who prepared the report cannot assume responsibility or liability for the report's recommendations if that professional is not retained to observe relevant site operations.*

Understand That Geotechnical Issues Have Not Been Addressed

Unless geotechnical engineering was specifically included in the scope of professional service, a report is not likely to relate any findings, conclusions, or recommendations about the suitability of subsurface materials for construction purposes, especially when site remediation has been accomplished through the removal, replacement, encapsulation, or chemical treatment of on-site soils. The equipment, techniques, and testing used by geotechnical engineers differ markedly from those used by geoenvironmental professionals; their education, training, and experience are also significantly different. If you plan to build on the subject site, but have not yet had a geotechnical engineering study conducted, your geoenvironmental professional should be able to provide guidance about the next steps you should take. The same firm may provide the services you need.

Read Responsibility Provisions Closely

Geoenvironmental studies cannot be exact; they are based on professional judgement and opinion. Nonetheless, some clients, contractors, and others assume geoenvironmental reports are or certainly should be unerringly precise. Such assumptions have created unrealistic expectations that have led to wholly unwarranted claims and disputes. To help prevent such problems, geoenvironmental professionals have developed a number of report provisions and contract terms that explain who is responsible for what, and how risks are to be allocated. Some people mistake these for "exculpatory clauses," that is, provisions whose purpose is to transfer one party's rightful responsibilities and liabilities to someone else. Read the responsibility provisions included in a report and in the contract you and your geoenvironmental professional agreed to. *Responsibility provisions are not "boilerplate."* They are important.

Rely on Your Geoenvironmental Professional for Additional Assistance

Membership in the Geoprofessional Business Association exposes geoenvironmental professionals to a wide array of risk management techniques that can be of genuine benefit for everyone involved with a geoenvironmental project. Confer with your GBA-member geoenvironmental professional for more information.

GEOPROFESSIONAL BUSINESS ASSOCIATION

8811 Colesville Road/Suite G106, Silver Spring, MD 20910
Telephone: 301/565-2733 Facsimile: 301/589-2017
e-mail: info@geoprofessional.org www.geoprofessional.org

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Michael Baker
INTERNATIONAL

Appendix F2
Asbestos/ Lead-Based Paint Inspection Report

LIMITED ASBESTOS AND LEAD SURVEY REPORT
Paradise Canyon Elementary School – Modernization Project

December 21, 2022

Prepared For:

La Canada Unified School District
4490 Cornishon Avenue
La Canada, CA 91011



NV5 – Alta Environmental
3777 Long Beach Blvd, Annex Building
Long Beach, CA 90807
Phone: 562.495.5777

444722-0011189.00

EXECUTIVE SUMMARY

Alta Environmental, LP an NV5 company (Alta/NV5) conducted a limited Asbestos and Lead Paint Survey in select buildings and exterior grounds at Paradise Canyon Elementary School in La Canada, California. La Canada Unified School District retained Alta/NV5 for this survey. Our Certified Site Surveillance Technicians and Certified Lead Sampling Technicians conducted the following activities to document the project:

- Initial investigation to locate suspect asbestos-containing and lead -based paint (LBP) materials being impacted as part of a modernization project at the site;
- Physical assessment of suspect materials;
- Collection of bulk samples from suspect materials; and
- Laboratory analysis of all collected samples.

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Appendix A: Material Inventories: Asbestos and Lead

Appendix B: Laboratory Analytical Reports: Asbestos and Lead

Appendix C: Sample Location Maps: Asbestos and Lead

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1.0 INTRODUCTION

Intermittently between October 10 and December 14, 2022, Alta Environmental, LP an NV5 company (NV5) conducted a limited investigation for the presence of asbestos-containing materials (ACM) and lead-based paint (LBP) at Paradise Canyon Elementary School located 471 Knight Way in La Canada Flintridge, CA.

2.0 PROJECT BACKGROUND

La Canada Unified School District (the "Client"). retained NV5 for this investigation. Jorge Robles and Tom Jenkins, both Cal/OSHA Certified Site Surveillance Technicians (CSST) and California Department of Public Health (CDPH) Certified Lead Sampling Technicians, employed by Alta/NV5 and working under the direction of James Byers, a Certified Asbestos Consultant (CAC #06-4122), conducted the sampling.

3.0 SCOPE OF WORK

The scope of work for the project included the surveying of specific areas of the following buildings: Portable buildings 1-6, 19-20, 29-35, main buildings A, B, C, D, E, F, G, H, I and J, and exterior asphalt and concrete. The areas needing sampling were pointed out by the Client prior to the survey via drawings and during the survey via email and verbal communication. The survey included the following:

- Initial investigation to locate suspect asbestos-containing and lead -based paint materials being impacted as part of a renovation project at the site;
- Physical assessment of suspect materials;
- Collection of bulk samples from suspect materials; and
- Laboratory analysis of all collected samples.

PLEASE NOTE THE FOLLOWING OBSERVATIONS/LIMITATIONS:

1. Every effort was made to ascertain if ceiling tile mastic was present under neath 12" ceiling tiles found throughout the site. No mastic was discovered during the course of this investigation. Inspection for this mastic was limited due to the destructive nature of inspecting for this material and that fact that the school is still in use.
2. Asbestos-containing insulation and gypsum board substrate was found underneath 12" ceiling tiles in some of the buildings at the site. Inspection for this material was also limited due to the destructive nature of inspecting for this material and that fact that the school is still in use. It is assumed that this insulation is present in buildings A, B, D, E, F, G, H, and J underneath the 12" ceiling tiles.

4.0 METHODOLOGY

4.1 ASBESTOS

The sampling was conducted using guidelines set forth in *Federal Register 40 CFR Part 763*. Alta/NV5 conducted an initial walkthrough of the site to develop a listing and sampling scheme of suspect materials. Samples were placed in sealable sample containers and assigned a unique sample identification number.

Bulk samples collected from the subject site were subsequently analyzed by polarized light microscopy (PLM) for asbestos content in accordance with the United States Environmental Protection Agency's (USEPA) *Determination of Asbestos in Bulk Building Materials: EPA/600/R-93/116, July 1993*, at AQ Environmental Laboratory, 1508 East 33rd Street, Signal Hill, California 90755, phone (562) 206-2770.

Based on the requirements of the USEPA as set forth in *40 CFR 763*, a homogeneous area is defined as "an area of surfacing material, thermal system insulation material or miscellaneous material that is uniform in color and texture." Furthermore, the regulation requires that a minimum number of samples be collected from each identified homogeneous area. If one sample in a homogeneous area is found to contain asbestos, the entire homogeneous area is considered asbestos-containing.

It is possible that one sample out of a set of samples collected from a homogeneous area can be positive for asbestos and the remaining samples in the homogeneous area are negative. However, the entire area must be considered asbestos-containing.

Caution is advised in interpreting results provided herein.

The limited survey was conducted to identify hazardous materials (asbestos and lead). The investigation did not include destructive testing (i.e., the opening of wall and ceiling cavities) and was limited to accessible areas. Prior to renovation or demolition, materials not identified in this report or materials subsequently discovered through destructive sampling should be tested for the presence of asbestos. An investigation below soil grade was outside the scope of this project, and additional material such as asbestos-cement pipes, electrical wiring insulation, or other materials may subsequently be discovered.

4.2 LEAD

Paint chip samples were collected for construction safety as defined by *Title 8 CCR Section 1532.1*. Paint chip sample analysis was conducted by EPA Method SW846/7420 at AQ Environmental Laboratory, 1508 East 33rd Street, Signal Hill, California 90755.

5.0 RESULTS

5.1 ASBESTOS

Below are materials found to contain asbestos during the course of this survey:

Material	Sample No.	Material Location	Asbestos Content	Est. Quantity	Friable	Damage
Black roof mastic	O-22 to O-24	Metal roof seams – Building 19	5% Chrysotile	50 SF	No	No
Black roof mastic	P-22 to P-24	Metal roof seams – Building 20	5% Chrysotile	25 SF	No	No
Black roof mastic	B-19 to B-21	Metal roof seams – Building 30	2% Chrysotile	25 SF	No	No
White coating on brick walls	H-10, H-11	Interior walls – Buildings A, B, D, E, F, G, H, and J	0.2% Chrysotile*	1,800 SF	No	No

Building A

Material	Sample No.	Material Location	Asbestos Content	Est. Quantity	Friable	Damage
Beige ceiling insulation	A-07 to A-09	Throughout building under 12" ceiling tiles (except Teacher's work room)	10% Chrysotile; 12% Amosite	4,000 SF	Yes	No
12" White w/blue streaks floor tile and mastic (multiple layers	A-16 to A-18	Teacher's work room	Top floor tile - none detected Top mastic - none detected Bottom tile (beige) 4% Chrysotile Bottom Black mastic - 5% Chrysotile	200 SF	No	No
Window putty	A-22 to A-24	Exterior windows	2% Chrysotile	100 LF	No	No

Material	Sample No.	Material Location	Asbestos Content	Est. Quantity	Friable	Damage
12" beige floor tile and mastic (multiple layers)	A-25 to A-27	Teacher's lounge	Top floor tile - none detected Top mastic - none detected Leveling compound - None Detected Bottom tile (beige) 4% Chrysotile Bottom Black mastic - 5% Chrysotile	80 SF	No	No
Gypsum ceiling board (under ceiling insulation)	A-40 to A-42	Throughout Building (except Teacher's room)	2% Chrysotile; 4% Amosite	4,000 SF	No	No
White roof sealant	A-46 to A-48	Roof penetrations	2% Chrysotile	5 SF	No	No

Building B

Material	Sample No.	Material Location	Asbestos Content	Est. Quantity	Friable	Damage
Beige ceiling insulation	NA	Ceiling under 12" ceiling tile	ASSUMED	3,000 SF	Yes	No
Gypsum board substrate	NA	Ceiling under Beige insulation	ASSUMED	3,000 SF	No	No
12" beige floor tile w/brown and black mastic	B-04 to B-06	Auditorium, kitchen	Tile – None Detected Mastic – 3% Chrysotile	1,500 SF	No	No
12" white floor tile w/blue specks and black mastic	B-13 TO B-15	Kitchen	Tile – None Detected Mastic – 3% Chrysotile	200 SF	No	No
Window putty	B-16 to B-18	Exterior windows	0.1% Chrysotile*	100 LF	No	No

Material	Sample No.	Material Location	Asbestos Content	Est. Quantity	Friable	Damage
4” brown cove base and glue	B-22 to B-24	Auditorium	Cove base – None Detected Glue - < 0.1% Chrysotile*	200 LF	No	No
Carpet glue with residual mastic	B-25 to B-27	Stairs by wheelchair access	2% Chrysotile	50 SF	No	No
Roof mastic on vent	B-31 to B-33	Roof HVAC	3% Chrysotile	5 SF	No	No

Building D

Material	Sample No.	Material Location	Asbestos Content	Est. Quantity	Friable	Damage
Gypsum board substrate	NA	Ceiling substrate under Beige insulation	ASSUMED	1,800 SF	No	No
12" white floor tile w/ mastic (multiple layers	D-01 to D-03	Flooring at entrances to sink	Top floor tile - None Detected Top mastic - < 1% Chrysotile Bottom tile - 2% Chrysotile Bottom mastic - 3% Chrysotile	100 SF	No	No
Window putty	D-13 to D-15	North exterior windows, restroom windows	2% Chrysotile	100 LF	No	No
Ceiling insulation	B-16 to B-18	Insulation under 12” ceiling tiles	10% Chrysotile; 12% Amosite	1,800 SF	Yes	No

Building E

Material	Sample No.	Material Location	Asbestos Content	Est. Quantity	Friable	Damage
Beige ceiling insulation	NA	Ceiling under 12" ceiling tile	ASSUMED	1,800 SF	Yes	No
Gypsum board substrate	NA	Ceiling substrate under Beige insulation	ASSUMED	1,800 SF	No	No
12" white floor tile w/ mastic (multiple layers	E-01 to E-03	Flooring at entrances, near sinks	Top floor tile - None Detected Top mastic - None Detected Bottom tile - < 1 % Chrysotile Bottom mastic - 3% Chrysotile	100 SF	No	No
Window putty	E-04 to E-06	North exterior windows, restroom windows	2% Chrysotile	100 LF	No	No

Building F

Material	Sample No.	Material Location	Asbestos Content	Est. Quantity	Friable	Damage
Beige ceiling insulation	NA	Ceiling under 12" ceiling tile	ASSUMED	3,600 SF	Yes	No
Gypsum board substrate	NA	Ceiling substrate under Beige insulation	ASSUMED	3,600 SF	No	No
Carpet glue	F-07 to F-09	Room 25-28 – flooring	< 0.1% Chrysotile*	3,600 SF	No	No
Window putty	F-10 to F-12	Exterior windows	2% Chrysotile	200 LF	No	No

Material	Sample No.	Material Location	Asbestos Content	Est. Quantity	Friable	Damage
12" white floor tile w/glue (multiple layers)	F-16 to F-18	By entrances and sinks	Top floor tile - None Detected Top mastic - None Detected Bottom tile - <1% Chrysotile Bottom mastic - 2% Chrysotile	500 SF	No	No

Building G

Material	Sample No.	Material Location	Asbestos Content	Est. Quantity	Friable	Damage
Beige ceiling insulation	NA	Ceiling under 12" ceiling tile	ASSUMED	1,800 SF	Yes	No
Gypsum board substrate	NA	Ceiling substrate under Beige insulation	ASSUMED	1,800 SF	No	No
Cement exhaust flue	NA	Attic space	ASSUMED	20 LF	No	No
12" White floor tile and mastic**	R-01 to R-03	Room 17 and 18 – near sinks	Tile – None Detected Mastic - < 1% Chrysotile	270 SF	No	No
Carpet glue w/residual black mastic	R-04 to R-06	Room 18	2% Chrysotile	1,600 SF	No	No
Window Putty	R-13 to R-15	Exterior windows	0.88% Chrysotile*	50 SF	No	No
Roofing debris	R-26 to R-28	Attic space above rooms 17 and 18	Asbestos present	1,800 SF	Yes	Yes
9" Beige floor tile and mastic	R-29 to R-31	Under carpet and white floor tile in room 17	Tile – 5% Chrysotile Mastic - 10% Chrysotile	900 SF	No	No

Building H

Material	Sample No.	Material Location	Asbestos Content	Est. Quantity	Friable	Damage
Beige ceiling insulation	NA	Ceiling under 12" ceiling tile	ASSUMED	3,600 SF	Yes	No
Gypsum board substrate	NA	Ceiling substrate under Beige insulation	ASSUMED	3,600 SF	No	No
12" White floor tile and mastic (multiple layers)	H-01 to H-03	Near doors and sinks	Tile – 5% Chrysotile Mastic – None Detected	3,500 SF	No	No
Carpet glue and residual black mastic	H-07 to H-09	Rooms 9-12	2% Chrysotile	3,000 SF	No	No
4" green cove base with glue and coating	H-10 to H-12	Interior walls throughout	Cove base - None Detected Glue - None Detected Coating – 0.2% Chrysotile*	400 LF	No	No
Window putty	H-13 to H-15	Exterior windows	2% Chrysotile	200 LF	No	No

Building I

Material	Sample No.	Material Location	Asbestos Content	Est. Quantity	Friable	Damage
12" Beige floor tile and mastic	W-12 to W-14	Building I – under carpeting	Tile – 5% Chrysotile Mastic – None Detected	3,500 SF	No	No
Black penetration mastic	W-24 to W-26	Building I – roof penetrations	8% Chrysotile	4 SF	No	No

Building J

Material	Sample No.	Material Location	Asbestos Content	Est. Quantity	Friable	Damage
Beige ceiling insulation	NA	Ceiling under 12" ceiling tile	ASSUMED	3,600 SF	Yes	No
Gypsum board substrate	NA	Ceiling substrate under Beige insulation	ASSUMED	3,600 SF	No	No
12" White floor tile and mastic (multiple layers)	J-01 to J-03	Room 7 and 8 by entrances	Top tile - None Detected Top Mastic - None Detected Bottom Tile - 2% Chrysotile Bottom Mastic - None Detected	400 SF	No	No
Carpet glue	J-04 to J-06	Rooms 7 and 8 on top of 9" beige floor tile	< 0.1% Chrysotile*	1,400 SF	No	No
4" green cove base and glue	J-07 to J-09	Room 7 and 8	Cove base - None Detected Mastic - None Detected Compound – None Detected	400 LF	No	No

*Analyzed by 1,000 point count methodology.

**This material is assumed to contain asbestos in amounts greater than 1%. I, James Byers, CAC #06-4122, assume that the following materials found at the site are Asbestos-containing materials (ACM) and therefore subject to Rule 1403:

- Mastic associated with White 12" floor tile

Please see Appendix A of this survey report for a complete list of materials sampled.

5.2 LEAD

Currently, the State of California, HUD and the USEPA define LBP as paint or other surface coating with lead content equal to or greater than 1.0 milligram per centimeter square (mg/cm^2) of surface area by XRF or 5,000 ppm by paint chip analysis. Also, the County of Los Angeles deems surfaces to have "dangerous levels of lead" when concentrations exceed 0.7 mg/cm^2.

Below is a list of painted surfaces that were sampled as part of this project and deemed lead-based throughout laboratory analysis:

November 9, 2022

Component	Sample No.	Substrate	Paint Color	Material Location	Results (ppm)
Overhang	PC-71	Wood	White	Building A - exterior	9,900
Overhang	PC-81	Wood	White	Building D - exterior	12,000
Overhang	PC-86	Wood	White	Building E - exterior	5,900
Overhang	PC-91	Wood	White	Building F - exterior	9,900
Overhang	PC-107	Wood	White	Building C - exterior	11,000
Overhang	PC-112	Wood	White	Building I - exterior	5,100

December 15, 2022

Component	Sample No.	Substrate	Paint Color	Material Location	Results (ppm)
Flashing/Fascia	PC-1	Wood	Dark blue	Building A – exterior	25,000
Flashing/Fascia	PC-2	Wood	Dark blue	Building B - exterior	29,000
Flashing/Fascia	PC-3	Wood	Dark blue	Building C - exterior	21,000
Flashing/Fascia	PC-4	Wood	Dark blue	Building D – exterior	29,000
Flashing/Fascia	PC-5	Wood	Dark blue	Building E - exterior	24,000
Flashing/Fascia	PC-6	Wood	Dark blue	Building F - exterior	29,000
Flashing/Fascia	PC-7	Wood	Dark blue	Building I - exterior	28,000
Flashing/Fascia	PC-8	Wood	Dark blue	Building H - exterior	26,000
Flashing/Fascia	PC-9	Wood	Dark blue	Building J - exterior	27,000
Flashing/Fascia	PC-10	Wood	Dark blue	Building G - exterior	29,000

When disturbed for construction purposes, surfaces with any detectable amount of lead are subjected to Cal/OSHA exposure assessment requirements set forth in *Title 8 CCR, Section 1532.1(d)*. This regulation requires initial employee exposure monitoring to evaluate work exposure during work that disturbs paint with any detectable level of lead. If airborne lead levels are above the established Cal/OSHA action limit or permissible exposure limit, additional monitoring and respiratory protection are required.

Below is a list of painted surfaces that were sampled as part of this project and deemed lead-containing throughout laboratory analysis:

November 9, 2022

Component	Sample No.	Substrate	Paint Color	Material Location	Results (ppm)
Wall	PC-70	Brick	White	Building A – exterior	980
Door	PC-72	Metal	Red	Building A – exterior doors	91
Wall	PC-75	Brick	White	Building B – exterior	210
Door	PC-76	Metal	Red	Building B – exterior doors	90
Wall	PC-80	Brick	White	Building D – exterior	160
Wall	PC-85	Brick	White	Building E – exterior	120
Wall	PC-90	Brick	White	Building F – exterior	690
Door	PC-92	Metal	Red	Building F – exterior doors	270
Window	PC-93	Metal	Blue	Building F – exterior windows	60
Wall	PC-96	Brick	White	Building J – exterior	160
Overhang	PC-97	Wood	White	Building J – Exterior	470
Door	PC-97	Metal	Red	Building J – exterior doors	1,400
Wall	PC-100	Brick	White	Building G – exterior	160

Component	Sample No.	Substrate	Paint Color	Material Location	Results (ppm)
Overhang	PC-101	Wood	White	Building G – Exterior	4,800
Door	PC-102	Metal	Red	Building G – exterior doors	800
Door	PC-106	Metal	Red	Building C – exterior doors	1,700
Door frame	PC-111	Metal	Red	Building I – exterior doors	1,600

December 15, 2022

Component	Sample No.	Substrate	Paint Color	Material Location	Results (ppm)
Door frame	PC-11 to PC-19	Wood	White	Buildings A-G – doors, frames, cabinets	< 49 – 4,000
Wall	PC-20 to PC-28	Brick	White	Building A-G – interior walls	250 – 1,200
Door frame	PC-32	Metal	White	Bldg. C – interior doors	390
Wall	PC-34	Drywall	Light blue	Bldg. C – conference room	83

Please see Appendix A of this survey report for a complete list of materials sampled.

6.0 CONCLUSIONS AND RECOMMENDATIONS

An investigation below soil grade was outside the scope of this project and additional material, such as suspect cementitious asbestos pipes, electrical wiring insulation, or other materials may subsequently be discovered. These materials should be considered positive and treated according. Be advised that subsequent testing and laboratory analysis is recommended should any such sub-surface material be discovered. Furthermore, be advised that specific work plans may need to be prepared and approved by South Coast Air Quality Management District (SCAQMD) should cementitious suspect asbestos piping be discovered during the course of this project.

6.1 ASBESTOS

Asbestos-containing materials (ACM) were discovered during course of this inspection. Refer to Section 5 in this report for a summary of ACMs. Any materials not listed in this report as having been sampled are considered to be asbestos-containing until sampling and subsequent laboratory analysis prove otherwise.

Materials assumed to contain asbestos in this report should be properly sampled and analyzed by or under the direction of a Certified Asbestos Consultant to determine asbestos content prior to construction, demolition or renovation. These materials were inaccessible for sampling during this inspection, or would be substantially damage by such sampling.

Any damaged asbestos materials should be removed, repaired, encapsulated or enclosed. The USEPA requires that all asbestos materials be removed prior to any renovation or demolition activities that may impact the material. The USEPA recommends that a proactive, management- in-place program be developed and implemented whenever asbestos is discovered in a building. Asbestos materials that are not damaged may be managed in place with a good operations and maintenance (O&M) program.

Certain notification requirements apply to owners of buildings constructed prior to 1979 where asbestos is known to be present. California Health and Safety Code 25915-25915.7 requires that all employees working within a building known to contain asbestos be informed, in writing, initially and annually thereafter of its presence, location, procedures and handling restrictions, results for any sampling conducted in the building and potential health risks of asbestos. Additionally, notification shall be provided to contractors, maintenance workers or others.

One hundred square feet or more of materials containing greater than 1/10th of one percent asbestos must be properly removed by a licensed asbestos abatement contractor utilizing isolation control methods and disposed of appropriately. Workers handling materials containing asbestos shall be properly trained and shall wear the appropriate personal protective equipment (PPE).

Furthermore, when asbestos is present in any amount, be advised that certain provisions of Cal-OSHA regulation Title 8 Section 1529 still apply. These include, but are not limited to, exposure assessments, air monitoring, hazard communication, prohibitions and work practices, such as wet methods and HEPA vacuuming.

6.2 LEAD

Lead-based paint was reported during this inspection. Refer to Section 5 in this report for a summary of LBP.

An O&M program is recommended to properly manage-in-place identified or assumed LBP until the buildings are demolished. An O&M program is a set of measures designed to reduce lead exposure to humans and the environment. Such measures may include specialized cleaning, repairs, maintenance, painting, temporary containment, education programs, and on-going visual monitoring by owners and/or reevaluations by risk assessors. An initial evaluation of potential LBP and hazards by a certified inspector/assessor is recommended for successful implementation of an O&M program.

Workers handling Lead-Based Paint or Lead-Containing Paint must be have appropriate Lead Training and shall wear the appropriate personal protective equipment.

Waste generated during removal or demolition of LBP components must be properly segregated into separate waste streams. Each waste stream should be randomly sampled and each sample analyzed for lead by the

California Waste Extraction Test for comparison to the Total Threshold Limit Concentration (TTLC), and Soluble Threshold Limit Concentration (STLC) and by Toxicity Characteristic Leaching Procedure (TCLP) as required, to determine the final disposition of the waste.

Disturbances of paints and/or component with any detectable amount of lead are subject to regulation under *Title 8 CCR, Section 1532.1 (d)*. These requirements include awareness training, and monitoring to determine worker exposure. This regulation requires initial and on-going (if necessary) employee exposure monitoring to evaluate lead work exposure that disturbs paint with any detectable level of lead. Alta Environmental suggests that engineering controls, respiratory protection and personal protective equipment be employed during any project that disturbs painted surfaces.

All other painted surfaces not listed in this report as having been sampled are considered to be lead-based until confirmatory paint chip sampling proves otherwise.

7.0 ASSUMPTIONS AND LIMITATIONS

This report was prepared exclusively for use by La Canada Unified School District and may not be relied upon by any other person or entity without Alta/NV5 ‘s express written permission. The information, conclusions and recommendations described in this report apply to conditions existing at certain locations when services were performed and are intended only for the specific purposes, locations, time frames and project parameters indicated. Alta/NV5 cannot be responsible for the impact of any changes in environmental standards, practices or regulations after performance of services.

In performing our professional services, we have applied present engineering and scientific judgment and used a level of effort consistent with the current standard of practice for similar types of studies.

As applicable, Alta/NV5 has relied in good faith upon representations and information furnished by individuals with respect to operations and existing property conditions, to the extent that they have not been contradicted by data obtained from other sources. Accordingly, Alta/NV5 accepts no responsibility for any deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed.

Alta/NV5 will not accept any liability for loss, injury claim, or damage arising directly or indirectly from any use or reliance on this report. Alta/NV5 makes no warranty, expressed or implied

This report is issued with the understanding that the client, the property owner, or its representative is responsible for ensuring that the information, conclusions, and recommendations contained herein are brought to the attention of the appropriate regulatory agencies, as required.

If you have any questions, please do not hesitate to contact the undersigned at (562) 477-0935. We appreciate the opportunity to be of service to La Canada Unified School District.

8.0 SIGNATORY

Respectfully submitted by:



James C. Byers
Senior Consultant/Project Manager
Certified Asbestos Consultant
Cal/OSHA Cert. #06-4122
Lead Inspector/Assessor
CDPH #LRC-00001746

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Appendix A

Material Inventories: Asbestos and Lead

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Exterior grounds

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
Asphalt patch	1-1	None Detected	South of room 4	Outside classrooms	100 SF	No	NA
	1-2	None Detected	SE of room 6				
	1-3	None Detected	South of room 30				
Concrete	2-1	None Detected	Ramp of room 6	Ramps and pads outside classrooms	5,000 SF	No	NA
	2-2	None Detected	Ramp of room 5				
	2-3	None Detected	Stairs of room 6 - south				
	2-4	None Detected	Ramp of room 6				
	2-5	None Detected	Ramp of room 19				
	2-6	None Detected	Concrete pad south of room 29 (923)				
	2-7	None Detected	Ramp of room 35				
Asphalt (general)	3-1	None Detected	East of room 4	Throughout area exceot for asphalt patch, asphalt utility line and asphalt (dark)	7,500 SF	No	NA
	3-2	None Detected	East of room 4 - south				
	3-3	None Detected	East of room 5				
	3-4	None Detected	SE of room 6				
	3-5	None Detected	South of room 30				
	3-6	None Detected	SW corner of room 33				
	3-7	None Detected	South of room 31				
Asphalt (utility line)	4-1	None Detected	East of room 4	Along east edge of west classrooms and south of classrooms to the north edge	500 SF	No	NA
	4-2	None Detected	East of room 5				
	4-3	None Detected	SW of room 19				
Asphalt (dark)	5-1	None Detected	South of room 32 - east	South of room 32	30 SF	No	NA
	5-2	None Detected	South of room 32 - middle				
	5-3	None Detected	South of room 32 - west				
Black sealant/filler	6-1	None Detected	South room 32 - base of hand rail	Base of handrail at classrooms at NE area	10 SF	No	NA
	6-2	None Detected	South room 33 - base of hand rail				
	6-3	None Detected	South room 35 - base of hand				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building 1/2

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
2' x 4' fissured ceiling panel	J-01	None Detected	Room 1 - NW	Interior ceiling	1,800 SF	Yes	NA
	J-02	None Detected	Room 1 - SW				
	J-03	None Detected	Room 2 - NE				
Drywall	J-04	None Detected	Room 1 - NW	Interior walls	1,800 SF	No	NA
	J-05	None Detected	Room 1 - SW				
	J-06	None Detected	Room 2 - NE				
Fiberboard wall glue	J-07	None Detected	Room 1 - NW	Interior walls and drywall	1,800 SF	No	NA
	J-08	None Detected	Room 1 - SW				
	J-09	None Detected	Room 2 - NE				
Drywall mud	J-10	None Detected	Room 1 - West center	Interior walls on drywall	1,800 SF	No	NA
	J-11	None Detected	Room 1 - NW				
	J-12	None Detected	Room 1 - SW				
	J-13	None Detected	Room 2 - East center				
	J-14	None Detected	Room 2 - NE				
4" green cove base and glue	J-15	None Detected	Room 2 - West center	Interior walls	400 LF	No	NA
	J-16	None Detected	Room 2 - South center				
	J-17	None Detected	Room 1 - NW				
Carpet glue	J-18	None Detected	Room 2 - Center	Interior flooring - rooms 1 & 2	1,800 SF	No	NA
	J-19	None Detected	Room 2 - West center				
	J-20	None Detected	Room 1 - NE				
Black barrier paper	J-21	None Detected	Room 1 - NW	Interior wall cavities	1,800 SF	No	NA
	J-22	None Detected	Room 1 - SW				
	J-23	None Detected	Room 2 - NE				
Gray duct sealant	J-24	None Detected	Roof at HVAC	Roof HVAC	20 SF	No	NA
	J-25	None Detected	Roof at HVAC				
	J-26	None Detected	Roof at HVAC				
Gravel roof core	J-27	None Detected	Roof - NW	Roof	1,800 SF	No	NA
	J-28	None Detected	Roof - NE				
	J-29	None Detected	Roof - SE				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building 1/2

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
Roof penetration mastic	J-30	None Detected	Roof - West center	Roof penetrations	4 SF	No	NA
	J-31	None Detected	Rtoof - North center				
	J-32	None Detected	Roof - East center				
Vibration reducer	J-33	None Detected	Roof at HVAC	Roof HVAC	5 SF	No	NA
	J-34	None Detected	Roof at HVAC				
	J-35	None Detected	Roof at HVAC				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building 3

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
2' x 4' ceiling panel	K-01	None Detected	NW	Interior ceiling	950 SF	Yes	NA
	K-02	None Detected	NE				
	K-03	None Detected	SE				
Drywall	K-04	None Detected	NW	Interior walls	950 SF	No	NA
	K-05	None Detected	NE				
	K-06	None Detected	SE				
Fiberboard wall glue	K-07	None Detected	NW	Interior walls on Drywall	950 SF	No	NA
	K-08	None Detected	NE				
	K-09	None Detected	SE				
Black barrier paper	K-10	None Detected	NW	Interior wall cavities	950 SF	No	NA
	K-11	None Detected	NE				
	K-12	None Detected	SE				
4" green cove base and glue	K-13	None Detected	North center	Interior walls	200 LF	No	NA
	K-14	None Detected	South center				
	K-15	None Detected	West center				
Carpet glue	K-16	None Detected	West center	Interior flooring	950 SF	No	NA
	K-17	None Detected	NE				
	K-18	None Detected	NW				
Exterior wall panel caulking	K-19	None Detected	se	Exterior walls	200 LF	No	NA
	K-20	None Detected	South center				
	K-21	None Detected	SW				
Roof core	K-22	None Detected	North center	Roof field	950 SF	No	NA
	K-23	None Detected	Center				
	K-24	None Detected	West center				
Perimeter roof mastic	K-25	None Detected	NW	Roof field	200 LF	No	NA
	K-26	None Detected	NE				
	K-27	None Detected	SW				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building 4

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
2' x 4' ceiling panel	L-01	None Detected	NW	Interior ceiling	950 SF	Yes	NA
	L-02	None Detected	NE				
	L-03	None Detected	South center				
Drywall	L-04	None Detected	NW	Interior walls	950 SF	No	NA
	L-05	None Detected	NE				
	L-06	None Detected	South center				
Fiberboard wall glue	L-07	None Detected	NW	Interior walls on Drywall	950 SF	No	NA
	L-08	None Detected	NE				
	L-09	None Detected	South center				
Black barrier paper	L-10	None Detected	NW	Interior wall cavities	950 SF	No	NA
	L-11	None Detected	NE				
	L-12	None Detected	South center				
4" green cove base and glue	L-13	None Detected	West center	Interior walls	200 LF	No	NA
	L-14	None Detected	NE				
	L-15	None Detected	East center				
Carpet glue	L-16	None Detected	NW	Interior flooring	950 SF	No	NA
	L-17	None Detected	Center				
	L-18	None Detected	East center				
Exterior wall panel caulking	L-19	None Detected	SE	Exterior walls	200 LF	No	NA
	L-20	None Detected	South center				
	L-21	None Detected	SW				
Roof core	L-22	None Detected	North center	Roof field	950 SF	No	NA
	L-23	None Detected	Center				
	L-24	None Detected	West center				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building 5

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
2' x 4' ceiling panel	M-01	None Detected	SE	Interior ceiling	950 SF	Yes	NA
	M-02	None Detected	SW				
	M-03	None Detected	NW				
Drywall	M-04	None Detected	SE	Interior walls	950 SF	No	NA
	M-05	None Detected	SW				
	M-06	None Detected	NW				
Fiberboard wall glue	M-07	None Detected	SE	Interior walls on Drywall	950 SF	No	NA
	M-08	None Detected	SW				
	M-09	None Detected	NW				
Black barrier paper	M-10	None Detected	SE	Interior wall cavities	950 SF	No	NA
	M-11	None Detected	SW				
	M-12	None Detected	NW				
4" green cove base and glue	M-13	None Detected	West center	Interior walls	200 LF	No	NA
	M-14	None Detected	North center				
	M-15	None Detected	South center				
Carpet glue	M-16	None Detected	East center	Interior flooring	950 SF	No	NA
	M-17	None Detected	Center				
	M-18	None Detected	West center				
Exterior wall panel caulking	M-19	None Detected	SW	Exterior walls	200 LF	No	NA
	M-20	None Detected	South center				
	M-21	None Detected	SE				
Roof core	M-22	None Detected	West center	Roof field	950 SF	No	NA
	M-23	None Detected	Center				
	M-24	None Detected	East center				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building 6

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
2' x 4' ceiling panel	N-01	None Detected	SE	Interior ceiling	950 SF	Yes	NA
	N-02	None Detected	NE				
	N-03	None Detected	NW				
Drywall	N-04	None Detected	SE	Interior walls	950 SF	No	NA
	N-05	None Detected	NE				
	N-06	None Detected	NW				
Fiberboard wall glue	N-07	None Detected	SE	Interior walls on Drywall	950 SF	No	NA
	N-08	None Detected	NE				
	N-09	None Detected	NW				
Black barrier paper	N-10	None Detected	SE	Interior wall cavities	950 SF	No	NA
	N-11	None Detected	NE				
	N-12	None Detected	NW				
4" green cove base and glue	N-13	None Detected	SW	Interior walls	200 LF	No	NA
	N-14	None Detected	South center				
	N-15	None Detected	North center				
Carpet glue	N-16	None Detected	West center	Interior flooring	950 SF	No	NA
	N-17	None Detected	NE				
	N-18	None Detected	SE				
Exterior wall panel caulking	N-19	None Detected	SW	Exterior walls	200 LF	No	NA
	N-20	None Detected	South center				
	N-21	None Detected	SE				
Roof bolt caulking	N-22	None Detected	West center	Roof field	5 sf	No	NA
	N-23	None Detected	Center				
	N-24	None Detected	East center				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building 19

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
Drywall	O-01	None Detected	SW	Interior walls	950 SF	No	NA
	O-02	None Detected	North center				
	O-03	None Detected	East center				
Fiberboard wall glue	O-04	None Detected	SW	Interior walls on Drywall	950 SF	No	NA
	O-05	None Detected	North center				
	O-06	None Detected	East center				
Black barrier paper	O-07	None Detected	SW	Interior wall cavities	950 SF	No	NA
	O-08	None Detected	North center				
	O-09	None Detected	East center				
4" green cove base and glue	O-10	None Detected	West center	Interior walls	200 LF	No	NA
	O-11	None Detected	NW				
	O-12	None Detected	NE				
Carpet glue	O-13	None Detected	Center	Interior flooring	950 SF	No	NA
	O-14	None Detected	South center				
	O-15	None Detected	East center				
Exterior wall panel caulking	O-16	None Detected	SE	Exterior walls	200 LF	No	NA
	O-17	None Detected	South center				
	O-18	None Detected	SW				
Roof bolt caulking	O-19	None Detected	West center	Metal roof on bolts	5 SF	No	NA
	O-20	None Detected	Center				
	O-21	None Detected	East center				
Black roof mastic	**O-22**	**5% Chrysotile**	**North center**	**Metal roof seams**	**50 SF**	**No**	**NA**
	O-23	**Positive Stop**	**South center**				
	O-24	**Positive Stop**	**NW**				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building 20

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
Drywall	P-01	None Detected	West center	Interior walls	950 SF	No	NA
	P-02	None Detected	North center				
	P-03	None Detected	SE				
Fiberboard wall glue	P-04	None Detected	West center	Interior walls on Drywall	950 SF	No	NA
	P-05	None Detected	North center				
	P-06	None Detected	SE				
4" green cove base and glue	P-07	None Detected	NW	Interior walls	200 LF	No	NA
	P-08	None Detected	NE				
	P-09	None Detected	South center				
Carpet glue	P-10	None Detected	Center	Interior flooring	950 SF	No	NA
	P-11	None Detected	NE				
	P-12	None Detected	SE				
Exterior wall panel caulking	P-13	None Detected	SW	Exterior walls	200 LF	No	NA
	P-14	None Detected	South center				
	P-15	None Detected	SE				
Black barrier paper	P-16	None Detected	West center	Interior wall cavities	950 SF	No	NA
	P-17	None Detected	North center				
	P-18	None Detected	SE				
Roof bolt caulking	P-19	None Detected	West center	Metal roof on bolts	5 SF	No	NA
	P-20	None Detected	Center				
	P-21	None Detected	East center				
Black roof mastic	**P-22**	**5% Chryostile**	**NW**	**Metal roof seams**	**25 SF**	**No**	**NA**
	P-23	**Positive Stop**	**NE**				
	P-24	**Positive Stop**	**SE**				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building 29

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
Carpet glue	A-01	None Detected	North center	Interior flooring	950 SF	No	NA
	A-02	None Detected	NE				
	A-03	None Detected	SW				
4" green cove base and glue	A-04	None Detected	South center	Interior walls	200 LF	No	NA
	A-05	None Detected	East center				
	A-06	None Detected	NW				
Drywall	A-07	None Detected	SE	Interior walls	950 SF	No	NA
	A-08	None Detected	SW				
	A-09	None Detected	North center				
Fiberboard wall glue	A-10	None Detected	SE	Interior walls on drywall	950 SF	No	NA
	A-11	None Detected	SW				
	A-12	None Detected	North center				
Black barrier paper	A-13	None Detected	SE	Interior wall cavities	950 SF	No	NA
	A-14	None Detected	SW				
	A-15	None Detected	North center				
Exterior wall panel caulking	A-16	None Detected	SE	Exterior walls	200 LF	No	NA
	A-17	None Detected	South center				
	A-18	None Detected	SW				
Roof bolt caulking	A-19	None Detected	Roof - west center	Metal roof on bolts	5 SF	No	NA
	A-20	None Detected	Roof - center				
	A-21	None Detected	Roof - east center				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building 30

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
Carpet glue	B-01	None Detected	Center	Interior flooring	950 SF	No	NA
	B-02	None Detected	NW				
	B-03	None Detected	SE				
4" black cove base and glue	B-04	None Detected	SE	Interior walls	200 LF	No	NA
	B-05	None Detected	North center				
	B-06	None Detected	West center				
Drywall	B-07	None Detected	NW	Interior walls	950 SF	No	NA
	B-08	None Detected	NE				
	B-09	None Detected	South center				
Fiberboard wall glue	B-10	None Detected	NW	Interior walls on drywall	950 SF	No	NA
	B-11	None Detected	NE				
	B-12	None Detected	South center				
Black barrier paper	B-13	None Detected	NW	Interior wall cavities	950 SF	No	NA
	B-14	None Detected	NE				
	B-15	None Detected	South center				
Exterior wall panel caulking	B-16	None Detected	SE	Exterior walls	200 LF	No	NA
	B-17	None Detected	South cneter				
	B-18	None Detected	SW				
Black roof mastic	**B-19**	**2% Chrysotile**	**Roof - NW**	**Metal roof, mastic on seams**	**25 SF**	**No**	**NA**
	B-20	**None Detected**	**Roof - Center**				
	B-21	**None Detected**	**Roof - East center**				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building 31

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
Carpet glue	C-01	None Detected	South center	Interior flooring	950 SF	No	NA
	C-02	None Detected	East center				
	C-03	None Detected	Center				
4" green cove base and glue	C-04	None Detected	NW	Interior walls	200 LF	No	NA
	C-05	None Detected	NE				
	C-06	None Detected	SE				
Drywall	C-07	None Detected	North center	Interior walls	950 SF	No	NA
	C-08	None Detected	South center				
	C-09	None Detected	West center				
Fiberboard wall glue	C-10	None Detected	North center	Interior walls on drywall	950 SF	No	NA
	C-11	None Detected	South center				
	C-12	None Detected	West center				
Black barrier paper	C-13	None Detected	North center	Interior wall cavities	950 SF	No	NA
	C-14	None Detected	South center				
	C-15	None Detected	West center				
2' x 4' ceiling panel	C-19	None Detected	North center	Interior ceiling	950 SF	Yes	NA
	C-20	None Detected	South center				
	C-21	None Detected	West center				
Exterior wall panel caulking	C-19	None Detected	SE	Exterior walls	200 LF	No	NA
	C-20	None Detected	South center				
	C-21	None Detected	SW				
Roof core	C-22	None Detected	NW	Roof field	950 SF	No	NA
	C-23	None Detected	South center				
	C-24	None Detected	SE				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building 32

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
2' x 4' ceiling panel	D-01	None Detected	NE	Interior ceiling	950 SF	Yes	NA
	D-02	None Detected	NW				
	D-03	None Detected	South center				
Drywall	D-04	None Detected	NE	Interior walls	950 SF	No	NA
	D-05	None Detected	NW				
	D-06	None Detected	South center				
Fiberboard wall glue	D-07	None Detected	NE	Interior walls on Drywall	950 SF	No	NA
	D-08	None Detected	NW				
	D-09	None Detected	South center				
Black barrier paper	D-10	None Detected	NE	Interior wall cavities	950 SF	No	NA
	D-11	None Detected	NW				
	D-12	None Detected	South center				
Exterior wall panel caulking	D-13	None Detected	SW center	Exterior walls	200 LF	No	NA
	D-14	None Detected	South center				
	D-15	None Detected	SE				
Carpet glue	D-16	None Detected	East center	Interior flooring	950 SF	No	NA
	D-17	None Detected	North center				
	D-18	None Detected	NW				
Roof core	D-19	None Detected	West center	Roof field	950 SF	No	NA
	D-20	None Detected	SE				
	D-21	None Detected	North center				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building 33

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
2' x 4' ceiling panel	E-01	None Detected	SE	Interior ceiling	950 SF	Yes	NA
	E-02	None Detected	SW				
	E-03	None Detected	East center				
Drywall	E-04	None Detected	SE	Interior walls	950 SF	No	NA
	E-05	None Detected	SW				
	E-06	None Detected	East center				
Fiberboard wall glue	E-07	None Detected	SE	Interior walls on Drywall	950 SF	No	NA
	E-08	None Detected	SW				
	E-09	None Detected	East center				
Black barrier paper	E-10	None Detected	SE	Interior wall cavities	950 SF	No	NA
	E-11	None Detected	SW				
	E-12	None Detected	East center				
4" green cove base and glue	E-13	None Detected	North center	Interior walls	200 LF	No	NA
	E-14	None Detected	NW				
	E-15	None Detected	NE				
Carpet glue	E-16	None Detected	South center	Interior flooring	950 SF	No	NA
	E-17	None Detected	West center				
	E-18	None Detected	North center				
Exterior wall panel caulking	E-19	None Detected	SE	Exterior walls	200 LF	No	NA
	E-20	None Detected	South center				
	E-21	None Detected	SW				
Roof core	E-22	None Detected	NW	Roof field	950 SF	No	NA
	E-23	None Detected	Center				
	E-24	None Detected	West center				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building 34

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
2' x 4' ceiling panel	F-01	None Detected	NW	Interior ceiling	950 SF	Yes	NA
	F-02	None Detected	NE				
	F-03	None Detected	SE				
Drywall	F-04	None Detected	NW	Interior walls	950 SF	No	NA
	F-05	None Detected	NE				
	F-06	None Detected	SE				
Fiberboard wall glue	F-07	None Detected	NW	Interior walls on Drywall	950 SF	No	NA
	F-08	None Detected	NE				
	F-09	None Detected	SE				
Black barrier paper	F-10	None Detected	NW	Interior wall cavities	950 SF	No	NA
	F-11	None Detected	NE				
	F-12	None Detected	SE				
4" green cove base and glue	F-13	None Detected	West center	Exterior walls	200 LF	No	NA
	F-14	None Detected	North center				
	F-15	None Detected	South center				
Carpet glue	F-16	None Detected	Center	Interior flooring	950 SF	No	NA
	F-17	None Detected	SW				
	F-18	None Detected	East center				
Exterior wall panel caulking	F-19	None Detected	SE	Roof field	200 LF	No	NA
	F-20	None Detected	South center				
	F-21	None Detected	SW				
Roof core	F-22	None Detected	Roof - NW	Roof field	950 SF	No	NA
	F-23	None Detected	Roof - NE				
	F-24	None Detected	Roof - center				
Roof penetration mastic	F-25	None Detected	North center	Roof field	1 SF	No	NA
	F-26	None Detected	North center				
	F-27	None Detected	North center				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building 35

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
2' x 4' ceiling panel	G-01	None Detected	North center	Interior ceiling	950 SF	Yes	NA
	G-02	None Detected	NW				
	G-03	None Detected	South center				
Drywall	G-04	None Detected	North center	Interior walls	950 SF	No	NA
	G-05	None Detected	NW				
	G-06	None Detected	South center				
Fiberboard wall glue	G-07	None Detected	North center	Interior walls on Drywall	950 SF	No	NA
	G-08	None Detected	NW				
	G-09	None Detected	South center				
Black barrier paper	G-10	None Detected	North center	Interior wall cavities	950 SF	No	NA
	G-11	None Detected	NW				
	G-12	None Detected	South center				
4" green cove base and glue	G-13	None Detected	West center	Exterior walls	200 LF	No	NA
	G-14	None Detected	SW				
	G-15	None Detected	SE				
Carpet glue	G-16	None Detected	NE	Interior flooring	950 SF	No	NA
	G-17	None Detected	Center				
	G-18	None Detected	South center				
Exterior wall panel caulking	G-19	None Detected	SE	Roof field	200 LF	No	NA
	G-20	None Detected	South center				
	G-21	None Detected	SW				
Roof core	G-22	None Detected	NE	Roof field	950 SF	No	NA
	G-23	None Detected	SE				
	G-24	None Detected	SW				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building A

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
2' X 4' fissured ceiling tile	A-01	None Detected	Work room - NW	Teacher work room	400 SF	Yes	No
	A-02	None Detected	Work room - center				
	A-03	None Detected	Work room - south				
12" fissured ceiling tile	A-04	None Detected	Teacher's lounge - center	Throghout building exceopt teacher's work room	4,000 SF	Yes	No
	A-05	None Detected	Lobby - center				
	A-06	None Detected	Principal office - center				
Beige insulation on drywall ceiling	**A-07**	**22% Chrysotile**	**Work room - NW**	**Throghout building exceopt teacher's work room**	**4,000 SF**	**Yes**	**No**
	A-08	**22% Chrysotile**	**Work room - center**				
	A-09	**22% Chrysotile**	**Work room - south**				
4" green cove base and glue	A-10	None Detected	Work room	Throughout building	400 LF	No	No
	A-11	None Detected	Lobby - center				
	A-12	None Detected	Nurse office				
Carpet glue	A-13	None Detected	Lounge - center	Teacher's work room, main lobby, principal's office, office 104	1,000 SF	No	No
	A-14	None Detected	Lobby - center				
	A-15	None Detected	Office 104 - center				
12' white w/blue streaks floor tile and mastic (multiple layers)	**A-16**	**Top floor tile - none detected Top mastic - none detected Bottom tile (beige) 4% Chrysotile Bottom Black mastic - 5% Chrysotile**	**Work room - NE**	**Teacher's work room**	**200 SF**	**No**	**No**
	A-17	**Top floor tile - none detected Top mastic - none detected Bottom tile (beige) 4% Chrysotile Bottom Black mastic - 5% Chrysotile**	**Work room - NW**				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building A

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
	A-18	**Top floor tile - none detected Top mastic - none detected Bottom tile (beige) 4% Chrysotile Bottom Black mastic - 5% Chrysotile**	**Work room - SW**				
12" acoustic wall tile	A-19	None Detected	Lounge - west center	Teacher's lounge	80 SF	Yes	No
	A-20	None Detected	Lounge - east center				
	A-21	None Detected	Lounge - north center				
Window putty	**A-22**	**2% Chrysotile**	**Lounge - north**	**Exterior windows**	**100 LF**	**No**	**No**
	A-23	**2% Chrysotile**	**Lounge - south**				
	A-24	**2% Chrysotile**	**Lobby - south**				
12" beige floor tile and mastic (multiple layers)	**A-25**	**Top floor tile - none detected Top mastic - none detected Leveling compound - None Detected Bottom tile (beige) 4% Chrysotile Bottom Black mastic - 5% Chrysotile**		**Teacher's lounge**	**80 SF**	**No**	**No**
	A-26	**Top floor tile - none detected Top mastic - none detected Leveling compound - None Detected Bottom tile (beige) 4% Chrysotile Bottom Black mastic - 5% Chrysotile**					
	A-27	**Top floor tile - none detected Top mastic - none detected Leveling compound - None Detected Bottom tile (beige) 4% Chrysotile Bottom Black mastic - 5% Chrysotile**					

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building A

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
4" dark green cove base and glue	A-28	None Detected	Health room - NE	Health office, Nurse's office	100 LF	No	No
	A-29	None Detected	Health room - NW				
	A-30	None Detected	Health room - SW				
Drywall	A-31	None Detected	Nurse - NW	Nurse's office, principal's office	200 SF	No	No
	A-32	None Detected	Nurse - SE				
	A-33	None Detected	Principal - north center				
Drywall mud	A-34	None Detected	Nurse - NW	Nurse's office, principal's office	200 SF	No	No
	A-35	None Detected	Nurse - SE				
	A-36	None Detected	Principal - north center				
Smooth plaster	A-37	None Detected	Work room RR - west	Restrooms at teacher's room	150 SF	No	No
	A-38	None Detected	Work room RR - east				
	A-39	None Detected	Work room RR - south				
Gypsum ceiling (under insulation)	**A-40**	**3% Chrysotile 2% Amosite**	**Work room - NW**	**Throghout building exceopt teacher's work room**	**4,000 SF**	**No**	**No**
	A-41	**2% Chrysotile 4% Amosite**	**Work room - center**				
	A-42	**2% Chrysotile 3% Amosite**	**Work room - south**				
Roof core	A-43	None Detected	Roof - north	Roof field	4,000 SF	No	No
	A-44	None Detected	Roof - center				
	A-45	None Detected	Roof - south				
White roof sealant	**A-46**	**None Detected**	**Roof - north**	**Roof penetrations**	**5 SF**	**No**	**No**
	A-47	**2% Chrysotile**	**Roof - north**				
	A-48	**None Detected**	**Roof - north**				
Planter coating	A-49	None Detected	Exterior - NW	Exterior planters	20 SF	No	No
	A-50	None Detected	Exterior - north center				
	A-51	None Detected	Exterior - NE				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building B

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
Ceiling Insulation	**NA**	**ASSUMED**	**NA**	**Ceiling under 12" fissured ceiling tiles**	**3,000 SF**	**Yes**	**No**
Drywall substrate	**NA**	**ASSUMED**	**NA**	**Ceiling under insulation**	**3,000 SF**	**No**	**No**
12" random ceiling tile	B-01	None Detected	NW	Auditorium	1,500 SF	No	No
	B-02	None Detected	NE				
	B-03	None Detected	SE				
12" beige floor tile w/brown and black mastic	**B-04**	**Tile - None Detected Mastic - 3% Chrysotile**	**West**	**Auditorium, kitchen**	**1,500 SF**	**No**	**No**
	B-05	**Tile - None Detected Mastic - Positive Stop**	**East**				
	B-06	**Tile - None Detected Mastic - Positive Stop**	**Kitchen - east**				
Drywall	B-07	None Detected	Kitchen - SW	Kitchen, stage wheelchair access	200 SF	No	No
	B-08	None Detected	Kitchen - SE				
	B-09	None Detected	Whellchair lift				
Drywall mud	B-10	None Detected	Kitchen - SW	Kitchen, stage wheelchair access	200 SF	No	No
	B-11	None Detected	Kitchen - SE				
	B-12	None Detected	Wheelchair lift				
12" white floor tile w/blue specks and black mastic	**B-13**	**Tile - None Detected Mastic - 2% Chrysotile**	**West**	**Kitchen**	**200 SF**	**No**	**No**
	B-14	**Tile - None Detected Mastic - Positive Stop**	**Center**				
	B-15	**Tile - None Detected Mastic - Positive Stop**	**East**				
Window putty	**B-16**	**0.1% Chrysotile**	**Kitchen - west**	**Exterior windows**	**100 LF**	**No**	**No**
	B-17	**0.1% Chrysotile**	**Kitchen - east**				
	B-18	**0.1% Chrysotile**	**Auditorium - east**				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building B

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
4" black cove base and glue	B-19	None Detected	Kitchen - NW	Kitchen	100 LF	No	No
	B-20	None Detected	Kitchen - NE				
	B-21	None Detected	Kitchen - SE				
4" brown cove base and glue	**B-22**	**Cove base - None Detected Glue - < 0.1% Chrysotile**	**Aud. - NE**	**Auditorium**	**200 LF**	**No**	**No**
	B-23	**Cove base - None Detected Glue - None Detected**	**Aud. - SW**				
	B-24	**Cove base - None Detected Glue - < 0.1% Chrysotile**	**Aud. - west center**				
carpet glue w/residual black mastic	**B-25**	**2% Chrysotile**	**Stairs**	**Stairs by wheelchair access**	**50 SF**	**No**	**No**
	B-26	**Positive Stop**	**Stairs**				
	B-27	**Positive Stop**	**Stairs**				
Roof core	B-28	None Detected	Roof - north center	Roof field	3,000 SF	No	No
	B-29	None Detected	Roof - west center				
	B-30	None Detected	Roof - east center				
Roof mastic on vent	**B-31**	**3% Chrysotile**	**Roof at vent**	**Roof HVAC**	**5 SF**	**No**	**No**
	B-32	**Positive Stop**	**Roof at vent**				
	B-33	**Positive Stop**	**Roof at vent**				
White roof sealant	B-34	None Detected	Roof - west	Roof penetrations	5 SF	No	No
	B-35	None Detected	Roof - west				
	B-36	None Detected	Roof - west				
Planter coating	B-37	None Detected	Exterior - NW	Exterior planters	20 SF	No	No
	B-38	None Detected	Exterior - west center				
	B-39	None Detected	Exterior - east center				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building C

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
Drywall	C-01	None Detected	South	Library Throughout	950 SF	No	No
	C-02	None Detected	North				
	C-03	None Detected	South				
Drywall Mud	C-04	None Detected	NW	Conference	300 SF	No	No
	C-05	None Detected	SW				
	C-06	None Detected	SE				
2' x 4' ceiling panel	C-07	None Detected	Library - NW	Throughout	950 SF	No	No
	C-08	None Detected	Library - NE				
	C-09	None Detected	Library - center				
4" grenn cove base and glue	C-10	None Detected	Library - west	Throughout	200 LF	No	No
	C-11	None Detected	Library - east				
	C-12	None Detected	Conference - north				
Carpet glue	C-13	None Detected	Library - center	Throughout	950 SF	No	No
	C-14	None Detected	Library - north center				
	C-15	None Detected	Conference - center				
Gravel roof core	C-16	None Detected	Roof - NW	Roof field	950 SF	No	No
	C-17	None Detected	Roof - center				
	C-18	None Detected	Roof - east				
Gray duct sealant	C-19	None Detected	Roof HVAC	Roof ducting	10 SF	No	No
	C-20	None Detected	Roof HVAC				
	C-21	None Detected	Roof HVAC				
Planter coating	C-22	None Detected	Exterior planter	Exterior planters	40 SF	No	No
	C-23	None Detected	Exterior planter				
	C-24	None Detected	Exterior planter				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building D

No

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
Ceiling Drywall substrate	**NA**	**ASSUMED**	**NA**	**Ceiling under 12" fissured ceiling tiles**	**1,800 SF**	**No**	**No**
12" white floor tile and mastic (multipe layers)	**D-01**	**Top floor tile - None Detected Top mastic - < 1% Chrysotile Bottom tile - 2% Chrysotile Bottom mastic - 3% Chrysotile**	**Room 21- north**	**Flooring at entrances to sink**	**100 SF**	**No**	**No**
	D-02	**Top floor tile - None Detected Top mastic - None Detected Bottom tile - None Detected Bottom mastic - 3% Chrysotile**	**Room 21 - south**				
	D-03	**Top floor tile - None Detected Top mastic - None Detected Bottom tile - None Detected Bottom mastic - 3% Chrysotile**	**Room 22 - south**				
4" grenn cove base and glue	D-04	None Detected	Room 21 - NE	Interior walls	300 LF	No	No
	D-05	None Detected	Room 21 - NW				
	D-06	None Detected	Room 22 - NE				
12" fissured ceiling tile and insulation	**D-07**	**Ceiling tile - None Detected Insulation - 8% Chrysotile 7% Amosite**	**Room 21 - north center**	**Interior ceiling**	**1,800 SF**	**No**	**No**
	D-08	**Ceiling tile - None Detected**	**Room 21 - west center**				
	D-09	**Ceiling tile - None Detected Insulation - 8% Chrysotile 7% Amosite**	**Room 22 - south center**				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building D

No

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
Carpet glue	D-10	None Detected	Room 21 - NE	Interior flooring except	1,600 SF	No	No
	D-11	None Detected	Room 21 - NW				
	D-12	None Detected	Room 22 - NW				
Window putty	**D-13**	**<1% Chrysotile**	**Room 21 - NE**	**North exterior windows, restroom windows**	**100 LF**	**No**	**No**
	D-14	**2% Chrysotile**	**Room 21 - NW**				
	D-15	**2% Chrysotile**	**Room 22 - NW**				
Ceiling Insulation	**D-16**	**10% Chrysotile 12% Amosite**	**Room 21 - north center**	**Ceiling behind ceiling tile**	**1,800 SF**	**No**	**No**
	D-17	**10% Chrysotile 12% Amosite**	**Room 21 - south center**				
	D-18	**10% Chrysotile 12% Amosite**	**Room 22 - north center**				
Roofing debris	D-19	None Detected	At attic hatch	Attic space	1,800 SF	No	No
	D-20	None Detected	At attic hatch				
	D-21	None Detected	At attic hatch				
Roof core	D-22	None Detected	Roof - west center	Roof field	1,800 SF	No	No
	D-23	None Detected	Roof - center				
	D-24	None Detected	Roof - east center				
Planter coating	D-25	None Detected	Exterior - NW	Exterior planter	20 SF	No	No
	D-26	None Detected	Exterior - north center				
	D-27	None Detected	Exterior - NE				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building E

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
Ceiling Insulation	**NA**	**ASSUMED**	**NA**	**Ceiling under 12" fissured ceiling tiles**	**1,800 SF**	**Yes**	**No**
Drywall substrate	**NA**	**ASSUMED**	**NA**	**Ceiling under insualtion**	**1,800 SF**	**No**	**No**
12" white floor tile and mastic (multipe layers)	**E-01**	**Top floor tile - None Detected Top mastic - None Detected Bottom tile - <1% Chrysotile Bottom mastic - 3% Chrysotile**	**Room 23 - north**	**Flooring at entrances, near sinks**	**100 SF**	**No**	**No**
	E-02	**Top floor tile - None Detected Top mastic - None Detected Bottom tile - <1% Chrysotile Bottom mastic - 3% Chrysotile**	**Room 23 - south**				
	E-03	**Top floor tile - None Detected Top mastic - None Detected**	**Room 24 - by south door**				
Window putty	**E-04**	**<1% Chrysotile**	**Room 23 - NE**	**North exterior windows, restroom windows**	**100 LF**	**No**	**No**
	E-05	**2% Chrysotile**	**Room 23 - NW**				
	E-06	**<1% Chrysotile**	**Room 24 - NW**				
12" fissured ceiling tile and insulation	E-07	None Detected	Room 23 - east center	Interior ceiling	1,800 SF	No	No
	E-08	None Detected	Room 23 - west center				
	E-09	None Detected	Room 24 - west center				
4" green cove base and glue	E-10	None Detected	Room 23 - NW	Interior flooring except	1,600 SF	No	No
	E-11	None Detected	Room 23 - SE				
	E-12	None Detected	Room 24 - SE				
Carpet glue	E-13	None Detected	Room 23 - center	Interior flooring	1,600 SF	No	No
	E-14	None Detected	Room 23 - west center				
	E-15	None Detected	Room 24 - SE				
Roofing debris	E-16	None Detected	At attic hatch	Attic space	1,800 SF	No	No
	E-17	None Detected	At attic hatch				
	E-18	None Detected	At attic hatch				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building E

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
Roof core	E-19	None Detected	Roof -NW	Roof field	1,800 SF	No	No
	E-20	None Detected	Roof - center				
	E-21	None Detected	Roof - SE				
Planter coating	E-22	None Detected	Exterior - NW	Exterior planter	20 SF	No	No
	E-23	None Detected	Exterior - north center				
	E-24	None Detected	Exterior - NE				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building F

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
Ceiling insulation	**NA**	**ASSUMED**	**NA**	**Ceiling under 12" fissured ceiling tiles**	**3,600 SF**	**Yes**	**No**
Ceiling Drywall substrate	**NA**	**ASSUMED**	**NA**	**Ceiling under insulation**	**3,600 SF**	**No**	**No**
12" fissured ceiling tile	F-01	None Detected	Room 26 - north center	Rooms 26 - 28	2,700 SF	Yes	No
	F-02	None Detected	Room 27 - west center				
	F-03	None Detected	Room 28 - west center				
12" white fissured ceiling tile	F-04	None Detected	Room 25 - north center	Room 25 only	900 SF	Yes	No
	F-05	None Detected	Room 25 - west center				
	F-06	None Detected	Room 25 - east center				
Carpet glue	**F-07**	**< 0.1% Chrysotile**	**Room 25 - center**	**Rooms 25-28 - flooring**	**3,600 SF**	**No**	**No**
	F-08	**None Detected**	**Room 26 - center**				
	F-09	**< 0.1% Chrysotile**	**Room 27 - center**				
Window putty	**F-10**	**2% Chrysotile**	**Room 25 - south window**	**Exterior windows**	**200 LF**	**No**	**No**
	F-11	**None Detected**	**Room 25 - north window**				
	F-12	**None Detected**	**Room 26 - north window**				
4" green cove base and glue	F-13	None Detected	Room 25 - NW	Rooms 25-28	400 LF	No	No
	F-14	None Detected	Room 27 - SW				
	F-15	None Detected	Room 28 - NE				
	F-16	**Top floor tile - None Detected Top mastic - None Detected Bottom tile - <1% Chrysotile Bottom mastic - 2% Chrysotile**	**Room 25 - north by door**				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building F

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
12" white floor tile w/glue (multiple layers)	**F-17**	**Top floor tile - None Detected Top mastic - None Detected Bottom tile - <1% Chrysotile Bottom mastic - Stop Positive**	**Room 26 - north by door**	**By entrances and sinks**	**500 SF**	**No**	**No**
	F-18	**Top floor tile - None Detected Top mastic - None Detected Bottom tile - <1% Chrysotile Bottom mastic - Stop Positive**	**Room 27 - south by sink**				
Roofing debris	F-19	None Detected	Attic space at hatch	Attic Space	3,600 SF	No	No
	F-20	None Detected	Attic space at hatch				
	F-21	None Detected	Attic space at hatch				
Planter coating	F-22	None Detected	Exterior - NW	Exterior planters	50 SF	No	No
	F-23	None Detected	Exterior - south center				
	F-24	None Detected	Exterior - east center				
Roof core	H-25	None Detected	Roof - NW	Roof field	3,600 SF	No	No
	H-26	None Detected	Roof - SE				
	H-27	None Detected	Roof - center				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building G

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
Ceiling Insulation	**NA**	**ASSUMED**	**NA**	**Ceiling under 12" ceiling tiles**	**1,800 SF**	**Yes**	**No**
Gypsum board substrate	**NA**	**ASSUMED**	**NA**	**Ceiling under insulation**	**1,800 SF**	**No**	**No**
12" White w/blue specks floor tile and mastic	**R-01**	**None Detected**	**Room 17 - by sink**	**Room 17 and 18 by sink**	**270 SF**	**No**	**NA**
	R-02	**Tile - None Detected Mastic - <1% Chrysotile**	**Room 17 - NE**				
	R-03	**Tile - None Detected Mastic - <1% Chrysotile**	**Room 18 - by sink**				
Carpet glue w/residual mastic	**R-04**	**2% Chrysotile**	**Room 18 - NW**	**Room 18**	**1,600 SF**	**No**	**NA**
	R-05	**Positive Stop**	**Room 18 - West center**				
	R-06	**Positive Stop**	**Room 18 - South center**				
4" green cove base and glue	R-07	None Detected	Room 17 - NE	Interior walls	400 LF	No	NA
	R-08	None Detected	Room 17 - SE				
	R-09	None Detected	Room 18 - SE				
12' fissured ceiling tile	R-10	None Detected	Room 17 - North center	Interior ceiling (nailed on)	1,800 SF	Yes	NA
	R-11	None Detected	Room 17 - South center				
	R-12	None Detected	Room 18 - South center				
Window putty	**R-13**	**0.88% Chrysotile**	**Room 18**	**Exterior windows**	**50 SF**	**No**	**NA**
	R-14	**0.42% Chrysotile**	**Room 17 - SW**				
	R-15	**0.42% Chrysotile**	**Room 17 - SE**				
Exterior brick	R-16	None Detected	Exterior - NW	Exterior walls	1,800 SF	No	NA
	R-17	None Detected	Exterior - West center				
	R-18	None Detected	Exterior - SW				
	R-19	None Detected	Exterior - South center				
	R-20	None Detected	Exterior - SE				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building G

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
Brick mortar	R-21	None Detected	Exterior - NW	Exterior walls	1,800 SF	No	NA
	R-22	None Detected	Exterior - West center				
	R-23	None Detected	Exterior - SW				
	R-24	None Detected	Exterior - South center				
	R-25	None Detected	Exterior - SE				
Roofing debris	**R-26**	**Present**	**Attic - Room 17 - Center**	**Attic space - rooms 17 and 18**	**1,800 SF**	**No**	**NA**
	R-27	**Present**	**Attic - Room 17 - Center**				
	R-28	**Present**	**Attic - Room 18 - Center**				
9" beige floor tile and mastic	**R-29**	**Tile - 5% Chrysotile Mastic - 10% Chrysotile**	**Room 17 - NW**	**Under carpet and white floor tile at room 17**	**900 SF**	**No**	**NA**
	R-30	**Positive Stop**	**Room 17 - SW**				
	R-31	**Positive Stop**	**Room 17 - South center**				
Black barrier paper	R-32	None Detected	Room 17	Interior wall cavities	2,000 SF	No	NA
	R-33	None Detected	Room 18				
	R-34	None Detected	Room 18				
Roof core	R-35	None Detected	Roof - West center	Roof	3,500 SF	No	NA
	R-36	None Detected	Roof - NE				
	R-37	None Detected	Roof - SE				
White duct sealant	R-38	None Detected	Roof at HVAC	Roof HVAC	4 SF	No	NA
	R-39	None Detected	Roof at HVAC				
	R-40	None Detected	Roof at HVAC				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building H

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
Ceiling insulation	**NA**	**ASSUMED**	**NA**	**Ceiling under 12" ceiling tiles**	**3,600 SF**	**Yes**	**No**
Ceiling Gypsum substrate	**NA**	**ASSUMED**	**NA**	**Ceiling under insulation**	**3,600 SF**	**No**	**No**
12" White floor tile and glue (multiple layers)	**H-01**	**Top floor tile - None Detected Top mastic - None Detected Bottom tile - 2% Chrysotile Bottom mastic - 2% Chrysotile**	**Room 9 - north by door**	**Rooms 9-12**	**500 SF**	**No**	**No**
	H-02	**Top floor tile - None Detected Top mastic - None Detected Bottom tile - 2% Chrysotile Bottom mastic - 2% Chrysotile**	**Room 10 - north by door**				
	H-03	**Top floor tile - None Detected Top mastic - None Detected Bottom tile - 2% Chrysotile Bottom mastic - 2% Chrysotile**	**Room 11 - north by door**				
12" fissured ceiling tile	H-04	None Detected	Room 9 - north center	Rooms 9-12	3,600 SF	Yes	No
	H-05	None Detected	Room 10 - south center				
	H-06	None Detected	Room 11 - west center				
Carpet glue and residual black mastic	**H-07**	**2% Chrysotile**	**Room 9 - center**	**Rooms 9-12**	**3,000 SF**	**No**	**No**
	H-08	**Positive Stop**	**Room 10 - center**				
	H-09	**Positive Stop**	**Room 11 - center**				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building H

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
4" green cove base and glue and coating	**H-10**	**Cove base - None Detected Glue - None Detected Coating - 0.2% Chrysotile**	**Room 10 - NW**	**Interior walls throughout**	**400 LF**	**No**	**No**
	H-11	**Cove base - None Detected Glue - None Detected Coating - 0.2% Chrysotile**	**Room 11 - north center**				
	H-12	**Cove base - None Detected Glue - None Detected Coating - None Detected**	**Room 12 - north center**				
Window putty	**H-13**	**2% Chrysotile**	**Room 10 - north**	**Exterior windows**	**200 LF**	**No**	**No**
	H-14	**Positive Stop**	**Room 11 - south**				
	H-15	**Positive Stop**	**Room 12 - south**				
Planter coating	H-16	None Detected	Exterior - south center	Exterior planters	50 SF	No	No
	H-17	None Detected	Exterior - SW				
	H-18	None Detected	Exterior - NW				
Roofing debris	H-19	None Detected	Attic hatch	Attic space	3,600 SF	No	No
	H-20	None Detected	Attic hatch				
	H-21	None Detected	Attic hatch				
Roof core	H-22	None Detected	Roof - NW	Roof	3,600 SF	No	No
	H-23	None Detected	Roof - center				
	H-24	None Detected	Roof - SE				
White/black roof mastic	H-25	None Detected	Roof - north center	Roof penetrations	5 SF	No	No
	H-26	None Detected	Roof - north center				
	H-27	None Detected	Roof - north center				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building I

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
2' x 4' fissured ceiling panel	W-01	None Detected	Room 13 - West center	Rooms 13 - 16	3,500 SF	Yes	No
	W-02	None Detected	Room 14 - SW				
	W-03	None Detected	Room 15 - SW				
Drywall	W-04	None Detected	Room 13 - East center	Interior walls	3,500 SF	No	No
	W-05	None Detected	Room 14 - SE				
	W-06	None Detected	Room 15 - SE				
Drywall mud	W-07	None Detected	Room 13 - East center	Interior walls	3,500 SF	No	No
	W-08	None Detected	Room 14 - SE				
	W-09	None Detected	Room 15 - SE				
	W-10	None Detected	Room 15 - SW				
	W-11	None Detected	Room 16 - SW				
12" beige floor tile w/black mastic and carpet glue	**W-12**	**Tile - 5% Chrysotile Mastic - None Detected**	**Room 16 - Center**	**Flooring, carpet on top of Beige floor tile**	**3,500 SF**	**No**	**No**
	W-13	**Tile - Positive Stop Mastic - None Detected**	**Room 15 - North center**				
	W-14	**Tile - Positive Stop Mastic - None Detected**	**Room 14 - North center**				
4" green cove base and glue	W-15	None Detected	Room 14 - NW	Rooms 13 - 16	800 LF	No	No
	W-16	None Detected	Room 13 - NW				
	W-17	None Detected	Room 15 - SW				
Black barrier paper	W-18	None Detected	Room 13 - West center	Interior wall cavities	3,500 SF	No	No
	W-19	None Detected	Room 14 - SW				
	W-20	None Detected	Room 15 - SW				
Roof core felt	W-21	None Detected	Roof - NW	Roof	3,500 SF	No	No
	W-22	None Detected	Roof - South center				
	W-23	None Detected	Roof - SE				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building I

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
Black penetration roof mastic	**W-24**	**8% Chrysotile**	**Roof - NW**	**Roof penetrations**	**4 SF**	**No**	**No**
	W-25	**Positive Stop**	**Roof - South center**				
	W-26	**Positive Stop**	**Roof - SE**				
Gray duct sealant	W-27	None Detected	Roof at HVAC	Roof duct/HVAC	20 SF	No	No
	W-28	None Detected	Roof at HVAC				
	W-29	None Detected	Roof at HVAC				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building J

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
Ceiling insulation	**NA**	**ASSUMED**	**NA**	**Ceiling under 12" ceiling tiles**	**3,600 SF**	**Yes**	**No**
Ceiling gypsum substrate	**NA**	**ASSUMED**	**NA**	**Ceiling under insulation**	**3,600 SF**	**No**	**No**
12" White floor tile and mastic (multiple layers)	**J-01**	**Top tile - None Detected Top Mastic - Non Detected Bottom Tile - None Detected Bottom Mastic - None Detected**	**Room 7 by door**	**Room 7 and 8 by entrances**	**400 SF**	**No**	**No**
	J-02	**Top tile - None Detected Top Mastic - Non Detected Bottom Tile - None Detected Bottom Mastic - None Detected**	**Room 7 by door**				
	J-03	**Top tile - None Detected Top Mastic - Non Detected Bottom Tile - 2% Chrysotile Bottom Mastic - None Detected**	**Room 8 by door**				
Carpet glue	J-04	< 0.1% Chrysotile	Room 7 - north center	Rooms 7 and 8 on top of 9" beige floor tile	1,400 SF	No	No
	J-05	< 0.1% Chrysotile	Room 7 - south center				
	J-06	< 0.1% Chrysotile	Room 8 - west center				
4" green cove base and glue	J-07 & J-102	Cove base - None Detected Mastic - None Detected Compound - None Detected	Room 7 - west center	Room 7 and 8	400 LF	No	No
	J-08	Cove base - None Detected Mastic - None Detected Compound - None Detected	Room 7 - east center				
	J-09	Cove base - None Detected Mastic - None Detected Compound - None Detected	Room 8 - east center				

MATERIAL INVENTORY
ASBESTOS SAMPLES

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Building J

Material	Sample No.	Asbestos Content	Sample Location	Material Location	Approx. Qty.	Friable	Damaged
12" fissured ceiling tile	J-10	None Detected	Room 8 - north center	Room 7 and 8	1,800 SF	Yes	No
	J-11	None Detected	Room 8 - south center				
	J-12	None Detected	Room 7 - north center				
Window putty	J-13	None Detected	Room 8 - south window	Exterior windows	200 LF	No	No
	J-14	None Detected	Room 8 - south window				
	J-15	None Detected	Room 7 - south window				
Drywall	J-16	None Detected	Work room - NW	Work room	150 SF	No	No
	J-17	None Detected	Work room - north center				
	J-18	None Detected	Work room - NE				
Drywall mud	J-19	None Detected	Work room - NW	Work room	150 SF	No	No
	J-20	None Detected	Work room - north center				
	J-21	None Detected	Work room - NE				
4" beige cove base and glue	J-22	None Detected	Work room - NW	Work room	50 LF	No	No
	J-23	None Detected	Work room - SW				
	J-24	None Detected	Work room - West center				
Roof core	J-25	None Detected	Roof - north center	Roof field	1,800 SF	No	No
	J-26	None Detected	Roof - center				
	J-27	None Detected	Roof - SE				
White roof sealant	J-28	None Detected	Roof - west center	Roof penetrations	5 SF	No	No
	J-29	None Detected	Roof - West center				
	J-30	None Detected	Roof - west center				

LEAD PAINT CHIP SAMPLE INVENTORY

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Component	Sample No.	Substrate	Paint Color	Sample Location	Material Location	Results (ppm or mg/kg)	Damage	Approx. Quantity
Door	PC-1	Metal	Red	Room 29 - SW door	Room 29	< 76	No	NA
Door frame	PC-2	Metal	Blue	Room 29 - SW door frame		< 48	No	NA
Window frame	PC-3	Wood	Blue	Room 29 - window frame		< 46	No	NA
Wall panel	PC-4	Wood	White	Room 29 - South exterior		< 49	No	NA
Exterior joint	PC-5	Metal	White	Room 29 - SW corner		< 47	No	NA
Door	PC-6	Metal	Red	Room 30 - SW door	Room 30	< 70	No	NA
Door frame	PC-7	Metal	Blue	Room 30 - SW door frame		< 49	No	NA
Window frame	PC-8	Wood	Blue	Room 30 - window frame		< 49	No	NA
Wall panel	PC-9	Wood	White	Room 30 - South exterior		< 47	No	NA
Exterior joint	PC-10	Metal	White	Room 30 - SW corner		< 49	No	NA
Door	PC-11	Metal	Red	Room 31 - SW door	Room 31	< 48	No	NA
Door frame	PC-12	Metal	Blue	Room 31 - SW door frame		< 48	No	NA
Window frame	PC-13	Wood	Blue	Room 31 - window frame		< 47	No	NA
Wall panel	PC-14	Wood	White	Room 31 - South exterior		< 46	No	NA
Exterior joint	PC-15	Metal	White	Room 31 - SW corner		< 48	No	NA
Door	PC-16	Metal	Red	Room 32 - SW door	Room 32	< 49	No	NA
Door frame	PC-17	Metal	Blue	Room 32 - SW door frame		< 50	No	NA
Window frame	PC-18	Wood	Blue	Room 32 - window frame		< 50	No	NA
Wall panel	PC-19	Wood	White	Room 32 - South exterior		< 48	No	NA
Exterior joint	PC-20	Metal	White	Room 32 - SW corner		< 76	No	NA

LEAD PAINT CHIP SAMPLE INVENTORY

Door	PC-21	Metal	Red	Room 33 - SW door	Room 33	< 76	No	NA
Door frame	PC-22	Metal	Blue	Room 33 - SW door frame		< 50	No	NA
Window frame	PC-23	Wood	Blue	Room 33 - window frame		< 51	No	NA
Wall panel	PC-24	Wood	White	Room 33 - South exterior		< 50	No	NA
Exterior joint	PC-25	Metal	White	Room 33 - SW corner		< 48	No	NA
Door	PC-26	Metal	Red	Room 34 - SW door	Room 34	< 55	No	NA
Door frame	PC-27	Metal	Blue	Room 34 - SW door frame		< 49	No	NA
Window frame	PC-28	Wood	Blue	Room 34 - window frame		< 48	No	NA
Wall panel	PC-29	Wood	White	Room 34 - South exterior		< 49	No	NA
Exterior joint	PC-30	Metal	White	Room 34 - SW corner		< 48	No	NA
Door	PC-31	Metal	Red	Room 35 - SW door	Room 35	< 49	No	NA
Door frame	PC-32	Metal	Blue	Room 35 - SW door frame		< 49	No	NA
Window frame	PC-33	Wood	Blue	Room 35 - window frame		< 48	No	NA
Wall panel	PC-34	Wood	White	Room 35 - South exterior		< 48	No	NA
Exterior joint	PC-35	Metal	White	Room 35 - SW corner		< 47	No	NA
Door	PC-36	Metal	Red	Room 19 - SW door	Room 19	< 55	No	NA
Door frame	PC-37	Metal	Blue	Room 19 - SW door frame		< 48	No	NA
Window frame	PC-38	Wood	Blue	Room 19 - window frame		< 50	No	NA
Wall panel	PC-39	Wood	White	Room 19 - South exterior		< 48	No	NA
Exterior joint	PC-40	Metal	White	Room 19 - SW corner		< 47	No	NA
Door	PC-41	Metal	Red	Room 20 - SW door	Room 20	< 58	No	NA
Door frame	PC-42	Metal	Blue	Room 20 - SW door frame		< 46	No	NA
Window frame	PC-43	Wood	Blue	Room 20 - window frame		< 47	No	NA
Wall panel	PC-44	Wood	White	Room 20 - South exterior		< 48	No	NA
Exterior joint	PC-45	Metal	White	Room 20 - SW corner		< 47	No	NA

LEAD PAINT CHIP SAMPLE INVENTORY

Door	PC-46	Metal	Red	Room 6 - SW door	Room 6	< 50	No	NA
Door frame	PC-47	Metal	Blue	Room 6 - SW door frame		< 48	No	NA
Window frame	PC-48	Wood	Blue	Room 6 - window frame		< 50	No	NA
Wall panel	PC-49	Wood	White	Room 6 - South exterior		< 48	No	NA
Exterior joint	PC-50	Metal	White	Room 6 - SW corner		< 49	No	NA
Door	PC-51	Metal	Red	Room 5 - SW door	Room 5	< 49	No	NA
Door frame	PC-52	Metal	Blue	Room 5 - SW door frame		< 46	No	NA
Window frame	PC-53	Wood	Blue	Room 5 - window frame		< 48	No	NA
Wall panel	PC-54	Wood	White	Room 5 - South exterior		< 48	No	NA
Exterior joint	PC-55	Metal	White	Room 5 - SE corner		< 49	No	NA
Door	PC-56	Metal	Red	Room 4 - SW door	Room 4	< 49	No	NA
Door frame	PC-57	Metal	Blue	Room 4 - SW door frame		< 48	No	NA
Window frame	PC-58	Wood	Blue	Room 4 - window frame		< 47	No	NA
Wall panel	PC-59	Wood	White	Room 4 - South exterior		< 46	No	NA
Exterior joint	PC-60	Metal	White	Room 4 - SW corner		< 50	No	NA
Door	PC-61	Metal	Red	Room 3 - SW door	Room 3	< 70	No	NA
Door frame	PC-62	Metal	Blue	Room 3 - SW door frame		< 47	No	NA
Window frame	PC-63	Wood	Blue	Room 3 - window frame		< 48	No	NA
Wall panel	PC-64	Wood	White	Room 3 - South exterior		< 48	No	NA
Exterior joint	PC-65	Metal	White	Room 3 - SW corner		< 49	No	NA
Wall	PC-70	Brick	White	Bldg. A - SW	**Bldg. A**	280	No	NA
Overhang	**PC-71**	**Wood**	**White**	**Bldg A - overhang**		**9,990**	**No**	**NA**
Door	PC-72	Metal	Red	Bldg. A - staff lounge door		91	No	NA
Window frame	PC-73	Metal	Blue	Bldg. A - south window		< 46	No	NA
Door frame	PC-74	Wood	Blue	Bldg. A - staff lounge door		< 50	No	NA
Wall	PC-75	Brick	White	Bldg. B	Bldg. B	210	No	NA
Overhang	PC-76	Wood	White	Bldg. B - overhang		90	No	NA
Door	PC-77	Metal	Red	Bdgl. B café door		< 49	No	NA
Window frame	PC-78	Metal	Blue	Bldg. B - north window		< 47	No	NA
Door frame	PC-79	Wood	Blue	Bdlg. B - café door		< 50	No	NA
Wall	PC-80	Brick	White	Bdlg. D - NW	**Bldg. D**	160	No	NA
Overhang	**PC-81**	**Wood**	**White**	**Bdlg. D - overhang**		**12,000**	**No**	**NA**
Door	PC-82	Metal	Red	Bdlg. D - Room 21 door		< 49	No	NA
Window frame	PC-83	Metal	Blue	Bdlg. D - window		< 48	No	NA

LEAD PAINT CHIP SAMPLE INVENTORY

Door frame	PC-84	Wood	Blue	Bdlg. D - Room 21 door		< 49	No	NA
Wall	PC-85	Brick	White	Bldg. E - NE	**Bldg. E**	120	No	NA
Overhang	**PC-86**	**Wood**	**White**	**Bldg. E - overhang**		**5,900**	**No**	**NA**
Door	PC-87	Metal	Red	Bdlg. E - Room 23 door		< 64	No	NA
Window frame	PC-88	Metal	Blue	Bdlg. E - window		< 49	No	NA
Door frame	PC-89	Wood	Blue	Bldg. E - Room 23 door		< 48	No	NA
Wall	PC-90	Brick	White	Bdlg. F - SW	**Bldg. F**	690	No	NA
Overhang	**PC-91**	**Wood**	**White**	**Bldg. F - overhang**		**9,900**	**No**	**NA**
Door	PC-92	Metal	Red	Bldg. F - Room 25 door		270	No	NA
Window frame	PC-93	Metal	Blue	Bldg. F - window		60	No	NA
Door frame	PC-94	Wood	Blue	Bldg. F - Room 25 door		< 47	No	NA
Wall	PC-95	Brick	White	Bldg.. J - SW	Bldg. J	160	No	NA
Overhang	PC-96	Wood	White	Bldg. J - overhang		470	No	NA
Door	PC-97	Metal	Red	Bldg. J - Room 8 door		1,400	No	NA
Window frame	PC-98	Metal	Blue	Bldg. J - window		< 48	No	NA
Door frame	PC-99	Wood	Blue	Bldg. J - Room 8 door		< 49	No	NA
Wall	PC-100	Brick	White	Bldg. G - SW	Bldg. G	160	No	NA
Overhang	PC-101	Wood	White	Bldg. G - overhang		4,800	No	NA
Door	PC-102	Metal	Red	Bldg. G - Room 17 door		800	No	NA
Window frame	PC-103	Metal	Blue	Bldg. G - window		< 46	No	NA
Door frame	PC-104	Wood	Blue	Bldg. G - Room 17 door		< 49	No	NA
Wall	PC-105	Brick	White	Bldg. C - SW	**Bldg. C**	< 48	No	NA
Door	PC-106	Metal	Red	Bldg. C - NW door		1,700	No	NA
Overhang	**PC-107**	**Wood**	**White**	**Bldg. C - overhang**		**11,000**	**No**	**NA**
Window frame	PC-108	Metal	Blue	Bldg. C - NW door		< 47	No	NA
Door frame	PC-109	Wood	Blue	Bldg. C - window		< 48	No	NA
Wall	PC-110	Brick	White	Bldg. I - SW	**Bldg. I**	< 49	No	NA
Door frame	PC-111	Metal	Red	Bldg. I - Room 13 door		1,600	No	NA
Overhang	**PC-112**	**Wood**	**White**	**Bldg. I - overhang**		**5,100**	**No**	**NA**
Door	PC-113	Metal	Blue	Bldg. I - Room 13 door		< 50	No	NA
Window frame	PC-114	Wood	Blue	Bldg. I - Room 13 window		< 49	No	NA

LEAD PAINT CHIP SAMPLE INVENTORY

CLIENT: La Canada Unified School District
PROJECT NO: LCSD-22-11189
PROJECT NAME: Paradise Canyon ES

Component	Sample No.	Substrate	Paint Color	Sample Location	Material Location	Results (ppm or mg/kg)	Damage	Approx. Quantity
Flashing/fascia	**PC-1**	**Wood**	**Dark Blue**	**Bldg A exterior**	**Exterior overhang**	**25,000**	**No**	**NA**
	PC-2	**Wood**	**Dark Blue**	**Bldg B exterior**		**29,000**	**No**	**NA**
	PC-3	**Wood**	**Dark Blue**	**Bldg C exterior**		**21,000**	**No**	**NA**
	PC-4	**Wood**	**Dark Blue**	**Bldg D exterior**		**29,000**	**No**	**NA**
	PC-5	**Wood**	**Dark Blue**	**Bldg E exterior**		**24,000**	**No**	**NA**
	PC-6	**Wood**	**Dark Blue**	**Bldg F exterior**		**29,000**	**No**	**NA**
	PC-7	**Wood**	**Dark Blue**	**Bldg I exterior**		**28,000**	**No**	**NA**
	PC-8	**Wood**	**Dark Blue**	**Bldg H exterior**		**26,000**	**No**	**NA**
	PC-9	**Wood**	**Dark Blue**	**Bldg J exterior**		**27,000**	**No**	**NA**
	PC-10	**Wood**	**Dark Blue**	**Bldg G exterior**		**29,000**	**No**	**NA**
Door frame	PC-11	Wood	White	Bldg A	Interior door, frames, cabinets	4,000	No	NA
	PC-12	Wood	White	Bldg B		2,100	No	NA
	PC-13	Wood	White	Bldg C		3,000	No	NA
	PC-14	Wood	White	Bldg D		1,600	No	NA
	PC-15	Wood	White	Bldg E		1,900	No	NA
	PC-16	Wood	White	Bldg F		1,600	No	NA
	PC-17	Wood	White	Bldg G		< 49	No	NA
	PC-18	Wood	White	Bldg J		2,200	No	NA
	PC-19	Wood	White	Bldg H		2,200	No	NA
Wall	PC-20	Brick	White	Bldg A	Interior brick walls	790	No	NA
	PC-21	Brick	White	Bldg B		990	No	NA
	PC-23	Brick	White	Bldg D		370	No	NA
	PC-24	Brick	White	Bldg E		940	No	NA
	PC-25	Brick	White	Bldg F		250	No	NA
	PC-26	Brick	White	Bldg G		250	No	NA
	PC-27	Brick	White	Bldg J		800	No	NA
	PC-28	Brick	White	Bldg H		1,200	No	NA
Brick	PC-29	Brick	Red	Bldg G	Boy's RR	< 48	No	NA
	PC-30	Brick	Blue	Bldg G	Girl's RR	< 50	No	NA
Wall	PC-31	Drywall	White	Bldg J	Work room	< 50	No	NA
Door frame	PC-32	Metal	White	Bldg C	Interior door frame	390	No	NA
Wall	PC-34	Drywall	Light blue	Bldg C	Conference room	83	No	NA

Appendix B

Laboratory Analytical Reports: Asbestos and Lead

ENVIRONMENTAL LABORATORIES

1508 East 33rd Street
Signal Hill, CA 90755
Tel (562) 206-2770
Fax (562) 206-2773

Alta Environmental
3777 Long Beach Boulevard
Long Beach, CA 90807
Attention: Jim Byers

Project Number: LCSD-22-11189
Project Name: Paradise Canyon
Location: La Cañada, CA

Report Number: **2251481**

Date Received: 11/4/2022
Date Analyzed: 11/9/2022
Date Reported: 11/9/2022

Date Sampled:
Sampled By: Jorge Robles
Total Samples: 110

Analytical Method: **EPA 7420/3050**
Reporting Limit: **5.0 µg**

Lead (Pb) in Paint by Flame AAS

Lab ID Client ID	Location/Description	Sample Weight (g)	Lead Concentration ppm (mg/kg)
2251481-001 PC-1	Metal- Red- Rm 29 SW Door	0.0658	< 76
2251481-002 PC-2	Metal- Blue- Rm 29 SW Door Frame	0.1034	< 48
2251481-003 PC-3	Wood- Blue- Rm 29 Window Frame	0.1085	< 46
2251481-004 PC-4	Wood- White- Rm 29 S Exterior	0.1018	< 49
2251481-005 PC-5	Metal- White- Rm 29 SW Corner	0.1061	< 47
2251481-006 PC-6	Metal- Red- Rm 30 SW Door	0.0718	< 70
2251481-007 PC-7	Metal- Blue- Rm 30 SW Door Frame	0.1026	< 49
2251481-008 PC-8	Wood- Blue- Rm 30 Window Frame	0.1018	< 49
2251481-009 PC-9	Wood- White- Rm 30 S Exterior	0.1057	< 47
2251481-010 PC-10	Metal- White- Rm 29 SW Corner	0.1013	< 49
2251481-011 PC-11	Metal- Red- Rm 31 SW Door	0.1051	< 48
2251481-012 PC-12	Metal- Blue- Rm 31 SW Door Frame	0.1048	< 48

ENVIRONMENTAL LABORATORIES

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3777 Long Beach Boulevard
Long Beach, CA 90807
Attention: Jim Byers

Project Number: LCSD-22-11189
Project Name: Paradise Canyon
Location: La Cañada, CA

Lead in Paint by Flame AAS

Lab ID Client ID	Location/Description	Sample Weight (g)	Lead Concentration ppm (mg/kg)
2251481-013 PC-13	Wood- Blue- Rm 31 Window Frame	0.1054	< 47
2251481-014 PC-14	Wood- White- Rm 31 S Exterior	0.1084	< 46
2251481-015 PC-15	Metal- White- Rm 31 SW Corner	0.1043	< 48
2251481-016 PC-16	Metal- Red- Rm 32 SW Door	0.1040	< 48
2251481-017 PC-17	Metal- Blue- Rm 32 SW Door Frame	0.1021	< 49
2251481-018 PC-18	Wood- Blue- Rm 32 Window Frame	0.1005	< 50
2251481-019 PC-19	Wood- White- Rm 32 S Exterior	0.1001	< 50
2251481-020 PC-20	Metal- White- Rm 32 SW Corner	0.1038	< 48
2251481-021 PC-21	Metal- Red- Rm 33 SW Door	0.0656	< 76
2251481-022 PC-22	Metal- Blue- Rm 33 SW Door Frame	0.1010	< 50
2251481-023 PC-23	Wood- Blue- Rm 33 Window Frame	0.0986	< 51
2251481-024 PC-24	Wood- White- Rm 33 S Exterior	0.1005	< 50
2251481-025 PC-25	Metal- White- Rm 33 SW Corner	0.1036	< 48
2251481-026 PC-26	Metal- Red- Rm 34 SW Door	0.0910	< 55
2251481-027 PC-27	Metal- Blue- Rm 34 SW Door Frame	0.1027	< 49
2251481-028 PC-28	Wood- Blue- Rm 34 Window Frame	0.1045	< 48
2251481-029 PC-29	Wood- White- Rm 34 S Exterior	0.1022	< 49
2251481-030 PC-30	Metal- White- Rm 34 SW Corner	0.1048	< 48

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Project Number: LCSD-22-11189
Project Name: Paradise Canyon
Location: La Cañada, CA

Lead in Paint by Flame AAS

Lab ID Client ID	Location/Description	Sample Weight (g)	Lead Concentration ppm (mg/kg)
2251481-031 PC-31	Metal- Red- Rm 35 SW Door	0.1027	< 49
2251481-032 PC-32	Metal- Blue- Rm 35 SW Door Frame	0.1013	< 49
2251481-033 PC-33	Wood- Blue- Rm 35 Window Frame	0.1045	< 48
2251481-034 PC-34	Wood- White- Rm 35 S Exterior	0.1038	< 48
2251481-035 PC-35	Metal- White- Rm 35 SW Corner	0.1070	< 47
2251481-036 PC-36	Metal- Red- Rm 19 SW Door	0.0902	< 55
2251481-037 PC-37	Metal- Blue- Rm 19 SW Door Frame	0.1049	< 48
2251481-038 PC-38	Wood- Blue- Rm 19 Window Frame	0.1003	< 50
2251481-039 PC-39	Wood- White- Rm 19 S Exterior	0.1040	< 48
2251481-040 PC-40	Metal- White- Rm 19 SW Corner	0.1060	< 47
2251481-041 PC-41	Metal- Red- Rm 20 SW Door	0.0864	< 58
2251481-042 PC-42	Metal- Blue- Rm 20 SW Door Frame	0.1076	< 46
2251481-043 PC-43	Wood- Blue- Rm 20 Window Frame	0.1061	< 47
2251481-044 PC-44	Wood- White- Rm 20 S Exterior	0.1034	< 48
2251481-045 PC-45	Metal- White- Rm 20 SW Corner	0.1074	< 47
2251481-046 PC-46	Metal- Red- Rm 6 SW Door	0.1006	< 50
2251481-047 PC-47	Metal- Blue- Rm 6 SW Door Frame	0.1046	< 48
2251481-048 PC-48	Wood- Blue- Rm 6 Window Frame	0.1004	< 50

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Project Number: LCSD-22-11189
Project Name: Paradise Canyon
Location: La Cañada, CA

Lead in Paint by Flame AAS

Lab ID Client ID	Location/Description	Sample Weight (g)	Lead Concentration ppm (mg/kg)
2251481-049 PC-49	Wood- White- Rm 6 S Exterior	0.1042	< 48
2251481-050 PC-50	Metal- White- Rm 6 SW Corner	0.1015	< 49
2251481-051 PC-51	Metal- Red- Rm 5 SW Door	0.1019	< 49
2251481-052 PC-52	Metal- Blue- Rm 5 SW Door Frame	0.1084	< 46
2251481-053 PC-53	Wood- Blue- Rm 5 Window Frame	0.1039	< 48
2251481-054 PC-54	Wood- White- Rm 5 S Exterior	0.1041	< 48
2251481-055 PC-55	Metal- White- Rm 5 SE Corner	0.1022	< 49
2251481-056 PC-56	Metal- Red- Rm 4 SW Door	0.1021	< 49
2251481-057 PC-57	Metal- Blue- Rm 4 SW Door Frame	0.1048	< 48
2251481-058 PC-58	Wood- Blue- Rm 4 Window Frame	0.1062	< 47
2251481-059 PC-59	Wood- White- Rm 4 S Exterior	0.1079	< 46
2251481-060 PC-60	Metal- White- Rm 4 SW Corner	0.1005	< 50
2251481-061 PC-61	Metal- Red- Rm 3 SW Door	0.0714	< 70
2251481-062 PC-62	Metal- Blue- Rm 3 SW Door Frame	0.1074	< 47
2251481-063 PC-63	Wood- Blue- Rm 3 Window Frame	0.1033	< 48
2251481-064 PC-64	Wood- White- Rm 3 South Exterior	0.1038	< 48
2251481-065 PC-65	Metal- White- Rm 3 SE Corner	0.1027	< 49
2251481-066 PC-70	Brick- White- Bldg A SW	0.1053	280

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Report Number: **2251481**

Alta Environmental
3777 Long Beach Boulevard
Long Beach, CA 90807
Attention: Jim Byers

Project Number: LCSD-22-11189
Project Name: Paradise Canyon
Location: La Cañada, CA

Lead in Paint by Flame AAS

Lab ID Client ID	Location/Description	Sample Weight (g)	Lead Concentration ppm (mg/kg)
2251481-067 PC-71	Wood- White- Bldg A Overhang	0.1001	9900
2251481-068 PC-72	Metal- Red- Bldg A Staff Lounge Door	0.1073	91
2251481-069 PC-73	Metal- Blue- Bldg A South Window	0.1081	< 46
2251481-070 PC-74	Wood- Blue- Bldg A Staff Lounge Door	0.1006	< 50
2251481-071 PC-75	Brick- White- Bldg B	0.1042	210
2251481-072 PC-76	Wood- White- Bldg B Overhang	0.1085	90
2251481-073 PC-77	Metal- Red- Bldg B Cafe Door	0.1019	< 49
2251481-074 PC-78	Metal- Blue- Bldg B North Window	0.1073	< 47
2251481-075 PC-79	Wood- Blue- Bldg B Cafe Door	0.1001	< 50
2251481-076 PC-80	Brick- White- Bldg D NW	0.1004	160
2251481-077 PC-81	Wood- White- Bldg D Overhang	0.1015	12000
2251481-078 PC-82	Metal- Red- Bldg D Rm 21 Door	0.1013	< 49
2251481-079 PC-83	Metal- Blue- Bldg D Window	0.1045	< 48
2251481-080 PC-84	Wood- Blue- Bldg D Rm 21 Door	0.1018	< 49
2251481-081 PC-85	Brick- White- Bldg E NE	0.1075	120
2251481-082 PC-86	Wood- White- Bldg E Overhang	0.1045	5900
2251481-083 PC-87	Metal- Red- Bldg E Rm 23 Door	0.0782	< 64
2251481-084 PC-88	Metal- Blue- Bldg E Window	0.1021	< 49

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Alta Environmental
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Attention: Jim Byers

Project Number: LCSD-22-11189
Project Name: Paradise Canyon
Location: La Cañada, CA

Lead in Paint by Flame AAS

Lab ID Client ID	Location/Description	Sample Weight (g)	Lead Concentration ppm (mg/kg)
2251481-085 PC-89	Wood- Blue- Bldg E Rm 23 Door	0.1043	< 48
2251481-086 PC-90	Brick- White- Bldg F SW	0.1036	690
2251481-087 PC-91	Wood- White- Bldg F Overhang	0.1012	9900
2251481-088 PC-92	Metal- Red- Bldg F Rm 25 Door	0.0862	270
2251481-089 PC-93	Metal- Blue- Bldg F Window	0.1079	60
2251481-090 PC-94	Wood- Blue- Bldg F Rm 25 Door	0.1056	< 47
2251481-091 PC-95	Brick- White- Bldg J NW	0.1019	160
2251481-092 PC-96	Wood- White- Bldg J Overhang	0.1038	470
2251481-093 PC-97	Metal- Red- Bldg J Rm 8 Door	0.1052	1400
2251481-094 PC-98	Metal- Blue- Bldg J Window	0.1042	< 48
2251481-095 PC-99	Wood- Blue- Bldg J Rm 8 Window	0.1024	< 49
2251481-096 PC-100	Brick- White- Bldg G SW	0.1060	160
2251481-097 PC-101	Wood- White- Bldg G Overhang	0.1022	4800
2251481-098 PC-102	Metal- Red- Bldg G Rm 17 Door	0.0879	800
2251481-099 PC-103	Metal- Blue- Bldg G Rm 18 Window	0.1078	< 46
2251481-100 PC-104	Wood- Blue- Bldg G Rm 17 Door	0.1014	< 49
2251481-101 PC-105	Metal- White- Bldg C NE	0.1048	< 48
2251481-102 PC-106	Metal- Red- Bldg C NW Door	0.1063	1700

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Attention: Jim Byers

Project Number: LCSD-22-11189
Project Name: Paradise Canyon
Location: La Cañada, CA

Lead in Paint by Flame AAS

Lab ID Client ID	Location/Description	Sample Weight (g)	Lead Concentration ppm (mg/kg)
2251481-103 PC-107	Wood- White- Bldg C Overhang	0.1045	11000
2251481-104 PC-108	Metal- Blue- Bldg C NW Door	0.1074	< 47
2251481-105 PC-109	Wood- Blue- Bldg C Window	0.1037	< 48
2251481-106 PC-110	Metal- White- Exterior Bldg I	0.1025	< 49
2251481-107 PC-111	Metal- Red- Bldg I Rm 13 Door	0.1074	1600
2251481-108 PC-112	Wood- White- Bldg I Overhang	0.1032	5100
2251481-109 PC-113	Metal- Blue- Bldg I Rm 13 Door	0.1010	< 50
2251481-110 PC-114	Wood- Blue- Bldg I Rm 13 Window	0.1012	< 49

Samples tested were received in acceptable condition unless otherwise stated. Test report relates only to items tested. This report shall not be reproduced without the written approval of this laboratory. The client shall be solely responsible for interpreting analytical results. Samples have not been blank corrected. Samples shall be disposed according to local, state and federal laws, 30 days after reporting results.

CA ELAP Cert #2823

Approved Signatory- Cristina E. Tabatt

CHAIN OF CUSTODY

ENVIRONMENTAL LABORATORIES

1508 E. 33rd Street
Signal Hill, CA 90755
562-206-2770 Tel
562-206-2773 Fax
services@AQenvlabs.com

(Lab) Order No. 2251481

CUSTOMER INFORMATION	
Company	NV5
Address	3777 Long Beach Boulevard
City/State/Zip	Long Beach, CA 90807
Contact	Jim Byers
Office Phone	562/ 495-5777
Cell	
Fax	562/ 495-5877
Email	Jim.Byers@NV5.com

Turnaround Time		Shipped By		Report Send Via:	
Same Day	☐	Fedex	☐	Web	☐
1 Day	☐	UPS	☐	Email	☐
2 Day	☐	USPS	☐	Fax	☐
3 Day	☐	Drop Off	☐	Verbal	☐
5 Day	☒	Drop Box	☐	Mail	☐
Weekend	☐	Other	☐	Pick up	☐

Special Instructions:

PROJECT INFORMATION

Project Name:	Paradise Canyon	PO Number:	
Project Number:	LCSD-22-11189	Work Order No.:	
Location:	La Cañada, CA	Sampled By:	Jorge Robles

PLM		PCM		MOLD		LEAD (Pb)			
PLM EPA 600/M4-82-020	☐	NIOSH 7400A	☐	Spore Trap	☐	Air	☐	TTLC	☐
PLM 400 Pt. Count (<0.25%)	☐	NIOSH 7400B	☐	Tape Lift	☐	Paint	☒		
PLM 1000 Pt. Count (<0.1%)	☐	w/ TWA	☐	Bulk Sample	☐	Wipe	☐		
						Soil	☐		

SAMPLE ID	SAMPLE TYPE	LOCATION	Date Sampled	Start Time / Stop Time	Avg Flow Rate	Volume (L)
		See attached				

Relinquished By:	
Date/Time:	11/3/22 1800
Received By:	Jackie Tayag
Date/Time:	11/4/22 08:00

Lab Forms
Ver. 082411

NV5
ALTA ENVIRONMENTAL

2251481

Paint Chip Sample List

Client: LCUSD
Project No.: LCSD-22-11189
Project Name: Paradise Canyon

Technician: Jorge Robles
Date:
Page: _____ of _____

Component	Sample #	Substrate	Paint Color	Sample Location	Material Location	Damaged Yes/No	Est. Damaged Qty.
Door	PC-1	Metal	Red	Rm 29 SW Door	Entrance door	NO	N/A
Door Frame	PC-2	Metal	Blue	Rm 29 SW Door Frame	Door Frame, Flashing	NO	N/A
Window Frame	PC-3	wood	Blue	Rm 29 window frame	Door Molding, window Frame	NO	N/A
Exterior wall panel	PC-4	wood	White	Rm 29 S exterior	Exterior wall panels, overhang	NO	N/A
Exterior joint	PC-5	Metal	White	Rm 29 SW corner	Exterior corner joints, overhang	NO	N/A
Door	PC-6	Metal	Red	Rm 30 SW Door	Entrance Doors	NO	N/A
Door Frame	PC-7	Metal	Blue	Rm 30 SW Door Frame	Door Frames, Flashing	NO	N/A
Window Frame	PC-8	wood	Blue	Rm 30 window frame	Door Molding, window Frames	NO	N/A
Exterior wall panel	PC-9	wood	White	Rm 30 S exterior	Exterior wall panel	NO	N/A
Exterior joint	PC-10	Metal	White	Rm 30 SW corner	Overhang, Exterior corner joints	NO	N/A

NV5
ALTA ENVIRONMENTAL

2251481

Paint Chip Sample List

Client: LCUSD
Project No.: LCSD-22-11189
Project Name: Paradise Canyon

Technician: Jorge Robles
Date:
Page: ____ of ____

Component	Sample #	Substrate	Paint Color	Sample Location	Material Location	Damaged Yes/No	Est. Damaged Qty.
Door	PC-11	Metal	Red	Rm 31 SW Door	Entrance Doors	NO	N/A
Door Frame	PC-12	Metal	Blue	Rm 31 SW Door Frame	Door Frames, Flashing	NO	N/A
window Frame	PC-13	wood	Blue	Rm 31 window Frame	Window Frame, Door Frame molding	NO	N/A
Exterior wall panel	PC-14	wood	White	Rm 31 S Exterior	Exterior wall panels	NO	N/A
Exterior joint	PC-15	Metal	White	Rm 31 SW corner	Exterior corner joints, overhang	NO	N/A
Door	PC-16	Metal	Red	Rm 32 SW Door	Entrance Doors	NO	N/A
Door Frame	PC-17	Metal	Blue	Rm 32 SW Door Frame	Door Frames, Flashing	NO	N/A
window Frame	PC-18	wood	Blue	Rm 32 window Frame	Window Frame, Door Molding	NO	N/A
Exterior wall panel	PC-19	wood	White	Rm ~~31~~ 32 S Exterior	Exterior wall panels	NO	N/A
Exterior joint	PC-20	Metal	White	Rm 32 SW corner	Exterior corner joints, overhang	NO	N/A

NV5
ALTA ENVIRONMENTAL

2251481

Paint Chip Sample List

Client: LCUSD
Project No.: LCSD-22-11189
Project Name: Paradise Canyon

Technician: Jorge Robles
Date:
Page: ____ of ____

Component	Sample #	Substrate	Paint Color	Sample Location	Material Location	Damaged Yes/No	Est. Damaged Qty.
Door	PC-21	Metal	Red	Rm 33 SW Door	Entrance Doors	NO	N/A
Door Frame	PC-22	Metal	Blue	Rm 33 SW Door Frame	Door Frames, Flashing	NO	N/A
window Frame	PC-23	wood	Blue	Rm 33 window Frame	Window Frame, Door Frame molding	NO	N/A
Exterior wall panel	PC-24	wood	White	Rm 33 S Exterior	Exterior wall panels	NO	N/A
Exterior joint	PC-25	Metal	White	Rm 33 SW corner	Exterior corner joints, overhang	NO	N/A
Door	PC-26	Metal	Red	Rm 34 SW Door	Entrance Doors	NO	N/A
Door Frame	PC-27	Metal	Blue	Rm 34 SW Door Frame	Door Frames, Flashing	NO	N/A
window Frame	PC-28	wood	Blue	Rm 34 window Frame	Window Frame, Door Molding	NO	N/A
Exterior wall panel	PC-29	wood	White	Rm 34 S Exterior	Exterior wall panels	NO	N/A
Exterior joint	PC-30	Metal	White	Rm 34 SW corner	Exterior corner joints, overhang	NO	N/A

NV5
ALTA ENVIRONMENTAL

2251481

Paint Chip Sample List

Client: LCUSD
Project No.: LCSD-22-11189
Project Name: Paradise Canyon

Technician: Jorge Robles
Date:
Page: _____ of _____

Component	Sample #	Substrate	Paint Color	Sample Location	Material Location	Damaged Yes/No	Est. Damaged Qty.
Door	PC-31	Metal	Red	Rm 35 SW Door	Entrance Doors	NO	N/A
Door Frame	PC-32	Metal	Blue	Rm 35 SW Door Frame	Door Frames, Flashing	NO	N/A
window Frame	PC-33	wood	Blue	Rm 35 window Frame	Window Frame, Door Frame molding	NO	N/A
Exterior wall panel	PC-34	wood	White	Rm 35 S Exterior	Exterior wall panels	NO	N/A
Exterior joint	PC-35	Metal	White	Rm 35 SW corner	Exterior corner joints, overhang	NO	N/A
Door	PC-36	Metal	Red	Rm 19 SW Door	Entrance Doors	NO	N/A
Door Frame	PC-37	Metal	Blue	Rm 19 SW Door Frame	Door Frames, Flashing	NO	N/A
window Frame	PC-38	wood	Blue	Rm 19 window Frame	Window Frame, Door Molding	NO	N/A
Exterior wall panel	PC-39	wood	White	Rm 19 S Exterior	Exterior wall panels	NO	N/A
Exterior joint	PC-40	Metal	White	Rm 19 SW corner	Exterior corner joints, overhang	NO	N/A

NV5
ALTA ENVIRONMENTAL

2251481

Paint Chip Sample List

Client: LCUSD
Project No.: LCSD-22-11189
Project Name: Paradise Canyon

Technician: Jorge Robles
Date:
Page: ____ of ____

Component	Sample #	Substrate	Paint Color	Sample Location	Material Location	Damaged Yes/No	Est. Damaged Qty.
Door	PC-41	Metal	Red	Rm 20 SW Door	Entrance Doors	NO	N/A
Door Frame	PC-42	Metal	Blue	Rm 20 SW Door Frame	Door Frames, Flashing	NO	N/A
window Frame	PC-43	wood	Blue	Rm 20 window Frame	Window Frame, Door Frame molding	NO	N/A
Exterior wall panel	PC-44	wood	White	Rm 20 S Exterior	Exterior wall panels	NO	N/A
Exterior joint	PC-45	Metal	White	Rm 20 SW corner	Exterior corner joints, overhang	NO	N/A
Door	PC-46	Metal	Red	Rm 6 SW Door	Entrance Doors	NO	N/A
Door Frame	PC-47	Metal	Blue	Rm 6 SW Door Frame	Door Frames, Flashing	NO	N/A
window Frame	PC-48	wood	Blue	Rm 6 window Frame	Window Frame, Door Molding	NO	N/A
Exterior wall panel	PC-49	wood	White	Rm 6 S Exterior	Exterior wall panels		
Exterior joint	PC-50	Metal	White	Rm 6 SW corner	Exterior corner joints, overhang	NO	N/A

NV5
ALTA ENVIRONMENTAL

2251481

Paint Chip Sample List

Client: LCUSD
Project No.: LCSD-22-11189
Project Name: Paradise Canyon

Technician: Jorge Robles
Date:
Page: _____ of _____

Component	Sample #	Substrate	Paint Color	Sample Location	Material Location	Damaged Yes/No	Est. Damaged Qty.
Door	PC-51	Metal	Red	Rm 5 SW Door	Entrance Doors	NO	N/A
Door Frame	PC-52	Metal	Blue	Rm 5 SW Door Frame	Door Frames, Flashing	NO	N/A
window Frame	PC-53	wood	Blue	Rm 5 window Frame	Window Frame, Door Frame molding	NO	N/A
Exterior wall panel	PC-54	wood	White	Rm 5 S Exterior	Exterior wall panels	NO	N/A
Exterior joint	PC-55	Metal	White	Rm 5 SE corner	Exterior corner joints, overhang	NO	N/A
Door	PC-56	Metal	Red	Rm 4 SW Door	Entrance Doors	NO	N/A
Door Frame	PC-57	Metal	Blue	Rm 4 SW Door Frame	Door Frames, Flashing	NO	N/A
window Frame	PC-58	wood	Blue	Rm 4 window Frame	Window Frame, Door Molding	NO	N/A
Exterior wall panel	PC-59	wood	White	Rm 4 S Exterior	Exterior wall panels		
Exterior joint	PC-60	Metal	White	Rm 4 SW corner	Exterior corner joints, overhang	NO	N/A

NV5
ALTA ENVIRONMENTAL

2251481

Paint Chip Sample List

Client: LCUSD
Project No.: LCSD-22-11189
Project Name: Paradise Canyon

Technician: Jorge Robles
Date:
Page: _____ of _____

Component	Sample #	Substrate	Paint Color	Sample Location	Material Location	Damaged Yes/No	Est. Damaged Qty.
Door	PC-61	Metal	Red	Rm 3 SW Door	Entrance Doors	NO	N/A
Door Frame	PC-62	Metal	Blue	Rm 3 SW Door Frame	Door Frames, Flashing	NO	N/A
Window Frame	PC-63	Wood	Blue	Rm 3 window Frame	Window Frame, Door Frame Molding	NO	N/A
Exterior wall panel	PC-64	Wood	White	Rm 3 South exterior	Exterior wall panels	NO	N/A
Exterior joint	PC-65	Metal	White	Rm 3 SE corner	Exterior corner joints, overhang	NO	N/A

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2251481

Paint Chip Sample List

Client: LCVSP
Technician: Jorge Robles
Project No.: LCSP-22-11189
Date:
Project Name: Paradise Canyon
Page: _____ of _____

Component	Sample #	Substrate	Paint Color	Sample Location	Material Location	Damaged Yes/No	Est. Damaged Qty.
Brick wall	PL-70	Brick	White	Bldg A, SW	Exterior walls	NO	N/A
Overhang	PL-71	Wood	White	Bldg A overhang	Exterior overhang	NO	N/A
Door	PL-72	Metal	Red	Bldg A, staff lounge door	Entrance doors	NO	N/A
window Frame	PL-73	Metal	Blue	Bldg A south window	Window Frames, Flashing, door frames	NO	N/A
Door Frame	PL-74	wood	Blue	Bldg A staff lounge door	Exterior door Frames	NO	N/A
Brick wall	PL-75	Brick	White	Bldg B	Exterior walls	NO	N/A
Overhang	PL-76	Wood	White	Bldg B overhang	Exterior overhang	NO	N/A
Door	PL-77	Metal	Red	Bldg B cafe door	Entrance doors	NO	N/A
window Frame	PL-78	Metal	Blue	Bldg B north window	window Frames, Flashing, door frames	NO	N/A
Door Frame	PL-79	Wood	Blue	Bldg B cafe door	Exterior door frames	NO	N/A

NV5
ALTA ENVIRONMENTAL

2251481

Paint Chip Sample List

Client: LCUSD
Project No.: LCSD-22-11189
Project Name: Paradise Canyon

Technician: Jorge Robles
Date:
Page: _____ of _____

Component	Sample #	Substrate	Paint Color	Sample Location	Material Location	Damaged Yes/No	Est. Damaged Qty.
Brick wall	PC-80	Brick	White	Bldg D, NW	Exterior walls	NO	N/A
Overhang	PC-81	Wood	White	Bldg D overhang	Exterior Overhang	NO	N/A
Door	PC-82	Metal	Red	Bldg D Rm 21 door	Entrance Doors	NO	N/A
Window Frame	PC-83	Metal	Blue	Bldg D window	Window frames, Flashing Door Frames	NO	N/A
Door Frame	PC-84	Wood	Blue	Bldg D, Rm 21 Door	Exterior Door Frames	NO	N/A
Brick wall	PC-85	Brick	White	Bldg E, NE	Exterior walls	NO	N/A
Overhang	PC-86	Wood	White	Bldg E overhang	Exterior Overhang	NO	N/A
Door	PC-87	Metal	Red	Bldg E Rm 23 door	Entrance Doors	NO	N/A
Window Frame	PC-88	Metal	Blue	Bldg E window	window frames, Flashing Door frames	NO	N/A
Door Frame	PC-89	Wood	Blue	Bldg E Rm 23 door	Exterior door frames	NO	N/A

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ALTA ENVIRONMENTAL

2251481

Paint Chip Sample List

Client: LCUSD
Project No.: LCSD-22-11189
Project Name: Paradise Canyon

Technician: Jorge Robles
Date:
Page: _____ of _____

Component	Sample #	Substrate	Paint Color	Sample Location	Material Location	Damaged Yes/No	Est. Damaged Qty.
Brick wall	PL-90	Brick	White	Bldg F, SW	Exterior walls	NO	N/A
Overhang	PL-91	Wood	White	Bldg F overhang	Exterior Overhang	NO	N/A
Door	PL-92	Metal	Red	Bldg F Rm 25 Door	Entrance Doors	NO	N/A
Window Frame	PL-93	Metal	Blue	Bldg F window	Window frames, Flashing Door Frames	NO	N/A
Door Frame	PL-94	Wood	Blue	Bldg F Rm 25 Door	Exterior Door Frames	NO	N/A
Brick wall	PL-95	Brick	White	Bldg J, NW	Exterior walls	NO	N/A
Overhang	PL-96	Wood	White	Bldg J overhang	Exterior Overhang	NO	N/A
Door	PL-97	Metal	Red	Bldg J Rm 8 Door	Entrance Doors	NO	N/A
Window Frame	PL-98	Metal	Blue	Bldg J window	window frames, Flashing, Door frames	NO	N/A
Door Frame	PL-99	Wood	Blue	Bldg J Rm 8 window	Exterior door frames	NO	N/A

2251481

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ALTA ENVIRONMENTAL

Paint Chip Sample List

Client: LCUSD
Project No.: LCSD-22-11187
Project Name: Paradise Canyon

Technician: Jorge Robles
Date:
Page: _____ of _____

Component	Sample #	Substrate	Paint Color	Sample Location	Material Location	Damaged Yes/No	Est. Damaged Qty.
Brick wall	PL-100	Brick	White	Bldg G, SW	Exterior walls	NO	N/A
Overhang	PL-101	wood	White	Bldg G overhang	Exterior overhang	NO	N/A
Door	PL-102	Metal	Red	Bldg G, Rm 17 Door	Entrance Doors	NO	N/A
Window frame	PL-103	Metal	Blue	Bldg G, Rm 18 window	Exterior windows, Flashing	NO	N/A
Door Frame	PL-104	Wood	Blue	Bldg G Rm 17 Door	Exterior door frames	NO	N/A
Exterior wall	PL-105	Metal	White	Bldg C, NE	Exterior walls	NO	N/A
Door	PL-106	Metal	Red	Bldg C, NW Door	Entrance Doors	NO	N/A
Overhang	PL-107	wood	White	Bldg C overhang	Exterior overhang	NO	N/A
Door Frame	PL-108	Metal	Blue	Bldg C, NW door	Exterior Door frames, Flashing	NO	N/A
window Frame	PL-109	wood	Blue	Bldg C window	Exterior window Frame	NO	N/A

2251481

NV5
ALTA ENVIRONMENTAL

Paint Chip Sample List

Client: LCUSD
Project No.: LCSD-22-11189
Project Name: Paradise Canyon

Technician: Jorge Robles
Date:
Page: of

Component	Sample #	Substrate	Paint Color	Sample Location	Material Location	Damaged Yes/No	Est. Damaged Qty.
Exterior wall	PL-110	Metal	White	Exterior, Bldg I	Exterior walls	No	N/A
Door	PL-111	Metal	Red	Bldg I, Rm 13 Door	Entrance door	No	N/A
Overhang	PL-112	~~Metal~~ Wood	White	Bldg I overhang	Exterior overhang	No	N/A
Door Frame	PL-113	Metal	Blue	Bldg I, Rm 13 Door	Exterior Door Frame, Flashing	No	N/A
Window Frame	PL-114	Wood	Blue	Bldg I, Rm 13 window	Exterior window frame	No	N/A

ENVIRONMENTAL LABORATORIES

1508 East 33rd Street
Signal Hill, CA 90755
Tel (562) 206-2770
Fax (562) 206-2773

Alta Environmental
3777 Long Beach Boulevard
Long Beach, CA 90807
Attention: Jim Byers

Project Number: LCSD-22-11189
Project Name: Paradise Canyon
Location: La Canada, CA

Report Number: **2251865**

Date Received: 12/8/2022
Date Analyzed: 12/15/2022
Date Reported: 12/15/2022

Date Sampled: 12/1/2022
Sampled By: Jorge Robles
Total Samples: 32

Analytical Method: **EPA 7420/3050**
Reporting Limit: **5.0 µg**

Lead (Pb) in Paint by Flame AAS

Lab ID Client ID	Location/Description	Sample Weight (g)	Lead Concentration ppm (mg/kg)
2251865-001 PC-1	Dark Blue PC- Bldg A	0.1064	25000
2251865-002 PC-2	Dark Blue PC- Bldg B	0.1049	29000
2251865-003 PC-3	Dark Blue PC- Bldg C	0.1030	21000
2251865-004 PC-4	Dark Blue PC- Bldg D	0.1056	29000
2251865-005 PC-5	Dark Blue PC- Bldg E	0.1025	24000
2251865-006 PC-6	Dark Blue PC- Bldg F	0.1034	29000
2251865-007 PC-7	Dark Blue PC- Bldg I	0.1087	28000
2251865-008 PC-8	Dark Blue PC- Bldg H	0.1023	26000
2251865-009 PC-9	Dark Blue PC- Bldg J	0.1078	27000
2251865-010 PC-10	Dark Blue PC- Bldg G	0.1056	29000
2251865-011 PC-11	White PC	0.0924	4000
2251865-012 PC-12	White PC	0.1019	2100

1508 East 33rd Street
Signal Hill, CA 90755
Tel (562) 206-2770
Fax (562) 206-2773

Report Number: **2251865**

Alta Environmental
3777 Long Beach Boulevard
Long Beach, CA 90807
Attention: Jim Byers

Project Number: LCSD-22-11189
Project Name: Paradise Canyon
Location: La Canada, CA

Lead in Paint by Flame AAS

Lab ID Client ID	Location/Description	Sample Weight (g)	Lead Concentration ppm (mg/kg)
2251865-013 PC-13	White PC	0.1001	3000
2251865-014 PC-14	White PC	0.1007	1600
2251865-015 PC-15	White PC	0.1029	1900
2251865-016 PC-16	White PC	0.1015	1600
2251865-017 PC-17	White PC	0.1022	< 49
2251865-018 PC-18	White PC	0.1060	2200
2251865-019 PC-19	White PC	0.1020	2200
2251865-020 PC-20	White PC	0.1038	790
2251865-021 PC-21	White PC	0.1032	990
2251865-022 PC-23	White PC	0.1014	370
2251865-023 PC-24	White PC	0.1070	940
2251865-024 PC-25	White PC	0.0990	250
2251865-025 PC-26	White PC	0.0979	250
2251865-026 PC-27	White PC	0.1052	800
2251865-027 PC-28	White PC	0.0975	1200
2251865-028 PC-29	Red PC- Bldg G	0.1039	< 48
2251865-029 PC-30	Blue PC- Bldg G	0.1003	< 50
2251865-030 PC-31	White PC- Bldg J	0.1010	< 50

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Report Number: **2251865**

Alta Environmental
3777 Long Beach Boulevard
Long Beach, CA 90807
Attention: Jim Byers

Project Number: LCSD-22-11189
Project Name: Paradise Canyon
Location: La Canada, CA

Lead in Paint by Flame AAS

Lab ID Client ID	Location/Description	Sample Weight (g)	Lead Concentration ppm (mg/kg)
2251865-031 PC-32	White PC- Bldg C	0.1048	390
2251865-032 PC-34	Light Blue PC- Bldg C	0.1019	83

Samples tested were received in acceptable condition unless otherwise stated. Test report relates only to items tested. This report shall not be reproduced without the written approval of this laboratory. The client shall be solely responsible for interpreting analytical results. Samples have not been blank corrected. Samples shall be disposed according to local, state and federal laws, 30 days after reporting results.

CA ELAP Cert #2823

Approved Signatory- Cristina E. Tabatt

CHAIN OF CUSTODY

AQ ENVIRONMENTAL LABORATORIES
1508 E. 33rd Street
Signal Hill, CA 90755
562-206-2770 Tel
562-206-2773 Fax
services@AQenvlabs.com

(Lab) Order No. 2251865

CUSTOMER INFORMATION	
Company	NV5
Address	3777 Long Beach Boulevard
City/State/Zip	Long Beach, CA 90807
Contact	Jim Byers
Office Phone	562/ 495-5777
Cell	
Fax	562/ 495-5877
Email	Jim.Byers@NV5.com

Turnaround Time		Shipped By		Report Send Via:	
Same Day	☐	Fedex	☐	Web	☐
1 Day	☐	UPS	☐	Email	☐
2 Day	☐	USPS	☐	Fax	☐
3 Day	☐	Drop Off	☐	Verbal	☐
5 Day	☒	Drop Box	☐	Mail	☐
Weekend	☐	Other	☐	Pick up	☐

Special Instructions:

PROJECT INFORMATION

Project Name:	Paradise Canyon	PO Number:	
Project Number:	LCSD-22-11189	Work Order No.:	
Location:	La Canada, CA	Sampled By:	Jorge Robles

PLM		PCM		MOLD		LEAD (Pb)			
PLM EPA 600/M4-82-020	☐	NIOSH 7400A	☐	Spore Trap	☐	Air	☐	TTLC	☐
PLM 400 Pt. Count (<0.25%)	☐	NIOSH 7400B	☐	Tape Lift	☐	Paint	☒		
PLM 1000 Pt. Count (<0.1%)	☐	w/ TWA	☐	Bulk Sample	☐	Wipe	☐		
						Soil	☐		

SAMPLE ID	SAMPLE TYPE	LOCATION	Date Sampled	Start Time / Stop Time	Avg Flow Rate	Volume (L)
PC-1	Dark blue PC	Bldg A	12/1/22			
-2		Bldg B				
-3		Bldg C				
-4		Bldg D				
-5		Bldg E				
-6		Bldg F				
-7		Bldg I				
-8		Bldg H				
-9		Bldg J				
-10		Bldg G				

Relinquished By:	[signature]	Received By:	Justine Pablo [signature]
Date/Time:	12/8/22 0700	Date/Time:	12/8/2022 1036

Lab Forms
Ver. 082411

CHAIN OF CUSTODY

1508 E. 33rd Street
Signal Hill, CA 90755
562-206-2770 Tel
562-206-2773 Fax
services@AQenvlabs.com

AQ ENVIRONMENTAL LABORATORIES

Company: NV5
Project Number: 2CSP-22-11185
Project Name: Paradise Canyon

Analysis:
TAT:
(Lab) Order No. 2251865

SAMPLE ID	SAMPLE TYPE	LOCATION	Date Sampled	Start Time / Stop Time	Avg Flow Rate	Volume (L)
PC-11	White PC		12/1/22			
-12	"		"			
-13	"		"			
-14	"		"			
-15	"		"			
-16	"		"			
-17	"		"			
-18	"		"			
-19	"		"			
-20	White PC		"			
-21	"		"			
-23	"		"			
-24	"		"			
-25	"		"			
-26	"		"			
-27	"		"			
-28	"		"			
-29	Red PC	Bldg G	"			
-30	Blue PC	"	"			
-31	White PC	Bldg J	"			

Relinquished By:	Received By: Justine Pablo
Date/Time: 12/8/22 0900	Date/Time: 12/8/2022 1036

Lab Forms
Ver. 082411

CHAIN OF CUSTODY

1508 E. 33rd Street
Signal Hill, CA 90755
562-206-2770 Tel
562-206-2773 Fax
services@AQenvlabs.com

ENVIRONMENTAL LABORATORIES

Company: NV5
Project Number: LCSD-22-711185
Project Name: Paradise Canyon ES

Analysis:
TAT:
(Lab) Order No. 225185

SAMPLE ID	SAMPLE TYPE	LOCATION	Date Sampled	Start Time / Stop Time	Avg Flow Rate	Volume (L)
PC-32	White PC	Bldg C	12/1/22	----------		
PC-34	Light Blue PC	Bldg C	↓	----------		

Relinquished By:	Received By: Justine Pablo
Date/Time: 12/8/22 0900	Date/Time: 12/8/2022 1036

Lab Forms
Ver. 082411

ENVIRONMENTAL LABORATORIES LLC

1508 East 33rd Street
Signal Hill, CA 90755
Tel: 562-206-2770
Fax: 562-206-2773

Alta Environmental
3777 Long Beach Blvd.
Long Beach CA 90807
Attn.: Jim Byers

Report Number 2251463

Project Number LCSD-22-11189
Project Name Paradise Canyon
Location La Canada, CA
PO Number
WO Number

Date Received 11/02/2022
Date Analyzed 11/09/2022
Date Reported 11/09/2022

Date Sampled 11/02/2022
Sampled By Jorge Robles
Total Samples 274

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-001	NW					
L-01	2'x4' Fissured Ceiling Panel, White/ Beige, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	40%	None Detected	
			Fibrous Glass	15%		
			Perlite	40%		
			Binder/Filler	5%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-002	NE					
L-02	2'x4' Fissured Ceiling Panel, White/ Beige, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	40%	None Detected	
			Fibrous Glass	15%		
			Perlite	40%		
			Binder/Filler	5%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-003	S Ctr					
L-03	2'x4' Fissured Ceiling Panel, White/ Beige, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	40%	None Detected	
			Fibrous Glass	15%		
			Perlite	40%		
			Binder/Filler	5%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-004	NW					
L-04	Drywall, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	10%	None Detected	
			Fibrous Glass	<1%		
			Gypsum/Filler	90%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-005	NE					
L-05	Drywall, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	10%	None Detected	
			Fibrous Glass	<1%		
			Gypsum/Filler	90%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

ENVIRONMENTAL LABORATORIES LLC

1508 East 33rd Street
Signal Hill, CA 90755
Tel: 562-206-2770
Fax: 562-206-2773

Alta Environmental
3777 Long Beach Blvd.
Long Beach CA 90807
Attn.: Jim Byers

Report Number 2251463

Project Number LCSD-22-11189
Project Name Paradise Canyon
Location La Canada, CA
PO Number
WO Number

Date Received 11/02/2022
Date Analyzed 11/09/2022
Date Reported 11/09/2022

Date Sampled 11/02/2022
Sampled By Jorge Robles
Total Samples 274

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-006	S Ctr					
L-06	Drywall, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Fibrous Glass Gypsum/Filler	10% <1% 90%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-007	NW					
L-07	Fiberboard wall glue, Yellow, Homogeneous	LAYER 1 100%	Organic Binders	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-008	NE					
L-08	Fiberboard wall glue, Yellow, Homogeneous	LAYER 1 100%	Organic Binders	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-009	S Ctr					
L-09	Fiberboard wall glue, Yellow, Homogeneous	LAYER 1 100%	Organic Binders	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-010	NW					
L-10	Barrier Paper, Black, Homogeneous	LAYER 1 100%	Cellulose Fiber Bituminous Matrix	80% 20%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-011	NE					
L-11	Barrier Paper, Black, Homogeneous	LAYER 1 100%	Cellulose Fiber Bituminous Matrix	80% 20%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Report Number 2251463

Project Number LCSD-22-11189
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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-012	S Ctr					
L-12	Barrier Paper, Black, Homogeneous	LAYER 1	Cellulose Fiber	80%	None Detected	
		100%	Bituminous Matrix	20%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-013	W Ctr					
L-13A	4" Covebase, Green, Homogeneous	LAYER 1			None Detected	
		100%	Vinyl Binder/ Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-014	W Ctr					
L-13B	Glue, Cream, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-015	NE					
L-14A	4" Covebase, Green, Homogeneous	LAYER 1			None Detected	
		100%	Vinyl Binder/ Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-016	NE					
L-14B	Glue, Cream, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-017	E Ctr					
L-15A	4" Covebase, Green, Homogeneous	LAYER 1			None Detected	
		100%	Vinyl Binder/ Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-018	E Ctr					
L-15B	Glue, Cream, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-019	NW					
L-16	Carpet Glue, Yellow, Homogeneous	LAYER 1	Cellulose Fiber	<1%	None Detected	
		100%	Synthetic Fiber	<1%		
			Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-020	Ctr					
L-17	Carpet Glue, Yellow, Homogeneous	LAYER 1	Cellulose Fiber	<1%	None Detected	
		100%	Synthetic Fiber	<1%		
			Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-021	E Ctr					
L-18	Carpet Glue, Yellow, Homogeneous	LAYER 1	Cellulose Fiber	<1%	None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-022	SE					
L-19	Exterior wall panel caulking, White, Non-homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-023	S Ctr					
L-20	Exterior wall panel caulking, White, Non-homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-024	SW					
L-21	Exterior wall panel caulking, White, Non-homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-025	N Ctr					
L-22A	Roof Core- Capsheet, Gray/ Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass Quartz/Gravel Bituminous Matrix/Filler	20% 5% 75%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-026	N Ctr					
L-22B	Roof Core- Felt (3 layers), Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass Bituminous Matrix/Filler	30% 70%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-027	Ctr					
L-23A	Roof Core- Capsheet, Gray/ Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass Quartz/Gravel Bituminous Matrix/Filler	20% 5% 75%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-028	Ctr					
L-23B	Roof Core- Felt (5 layers), Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass Bituminous Matrix/Filler	30% 70%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-029	Ctr					
L-23C	Roof Core- Roof Paper, Brown, Homogeneous	LAYER 1 100%	Cellulose Fiber Binder/Filler	95% 5%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-030	W Ctr					
L-24A	Roof Core- Capsheet, Gray/ Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass	20%	None Detected	
			Quartz/Gravel	5%		
			Bituminous Matrix/Filler	75%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-031	W Ctr					
L-24B	Roof Core- Felt (5 layers), Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass	30%	None Detected	
			Bituminous Matrix/Filler	70%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-032	W Ctr					
L-24C	Roof Core- Paper, Brown, Homogeneous	LAYER 1 100%	Cellulose Fiber	95%	None Detected	
			Binder/Filler	5%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-033	SE					
M-01	2'x4' Fissured ceiling panel, White/ Beige, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	40%	None Detected	
			Mineral Wool	15%		
			Perlite	40%		
			Binder/Filler	5%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-034	SW					
M-02	2'x4' Fissured ceiling panel, White/ Beige, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	40%	None Detected	
			Mineral Wool	15%		
			Perlite	40%		
			Binder/Filler	5%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-035	NW					
M-03	2'x4' Fissured ceiling panel, White/ Beige, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	40%	None Detected	
			Mineral Wool	15%		
			Perlite	40%		
			Binder/Filler	5%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-036	SE					
M-04	Drywall, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	10%	None Detected	
			Fibrous Glass	<1%		
			Gypsum/Filler	90%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-037	SW					
M-05	Drywall, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	<1%	None Detected	
			Fibrous Glass	<1%		
			Gypsum/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-038	NW					
M-06	Drywall, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	10%	None Detected	
			Fibrous Glass	<1%		
			Gypsum/Filler	90%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-039	SE					
M-07	Fiberboard wall glue, Yellow, Homogeneous	LAYER 1 100%	Organic Binders	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-040	SW					
M-08	Fiberboard wall glue, Yellow, Homogeneous	LAYER 1 100%	Organic Binders	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-041	NW					
M-09	Fiberboard wall glue, Yellow, Homogeneous	LAYER 1 100%	Organic Binders	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-042 M-10	SE Barrier Paper, Black, Homogeneous	LAYER 1 100%	Cellulose Fiber Bituminous Matrix	80% 20%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-043 M-11	SW Barrier Paper, Black, Homogeneous	LAYER 1 100%	Cellulose Fiber Bituminous Matrix	80% 20%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-044 M-12	NW Barrier Paper, Black, Homogeneous	LAYER 1 100%	Cellulose Fiber Bituminous Matrix	80% 20%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-045 M-13A	W Ctr 4" Covebase, Green, Homogeneous	LAYER 1 100%	Vinyl Binder/ Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-046 M-13B	W Ctr Glue, Cream/Brown, Non-homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-047 M-14A	N Ctr 4" Covebase, Green, Homogeneous	LAYER 1 100%	Vinyl Binder/ Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-048 M-14B	N Ctr Glue, Cream, Homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-049 M-15A	S Ctr 4" Covebase, Green, Homogeneous	LAYER 1 100%	Vinyl Binder/ Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-050 M-15B	S Ctr Glue, Cream, Homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-051 M-16	E Ctr Carpet Glue, Yellow, Homogeneous	LAYER 1 100%	Synthetic Fiber Organic Binders/Filler	<1% 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-052 M-17	Ctr Carpet Glue, Yellow, Homogeneous	LAYER 1 100%	Synthetic Fiber Organic Binders/Filler	<1% 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-053 M-18	W Ctr Exterior wall panel caulking, White, Non-homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-054 M-19	SW Exterior wall panel caulking, White, Non-homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-055	S Ctr					
M-20	Exterior wall panel caulking, White, Non-homogeneous	LAYER 1 100%	 Organic Binders/Filler	 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-056	SE					
M-21	Exterior wall panel caulking, White, Non-homogeneous	LAYER 1 100%	 Organic Binders/Filler	 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-057	W Ctr					
M-22A	Roof Core- Capsheet, Gray/ Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass Quartz/Gravel Bituminous Matrix/Filler	25% 30% 45%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-058	W Ctr					
M-22B	Roof Core- Felt (2 layers), Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass Bituminous Matrix/Filler	30% 70%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-059	Ctr					
M-23A	Roof Core- Capsheet, Gray/ Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass Quartz/Gravel Bituminous Matrix/Filler	25% 30% 45%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-060	Ctr					
M-23B	Roof Core- Felt (2 layers), Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass Bituminous Matrix/Filler	30% 70%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-061	E Ctr					
M-24A	Roof Core- Capsheet, Gray/ Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass Quartz/Gravel Bituminous Matrix/Filler	25% 30% 45%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-062	E Ctr					
M-24B	Roof Core- Felt (2 layers), Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass Bituminous Matrix/Filler	30% 70%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-063	SE					
N-01	2'x4' Fissured Ceiling Panel, White/ Beige, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Mineral Wool Perlite Binder/Filler	40% 20% 35% 5%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-064	NE					
N-02	2'x4' Fissured Ceiling Panel, White/ Beige, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Mineral Wool Perlite Binder/Filler	40% 20% 35% 5%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-065	NW					
N-03	2'x4' Fissured Ceiling Panel, White/ Beige, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Mineral Wool Perlite Binder/Filler	40% 20% 35% 5%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Alta Environmental
3777 Long Beach Blvd.
Long Beach CA 90807
Attn.: Jim Byers

Report Number 2251463

Project Number LCSD-22-11189
Project Name Paradise Canyon
Location La Canada, CA
PO Number
WO Number

Date Received 11/02/2022
Date Analyzed 11/09/2022
Date Reported 11/09/2022

Date Sampled 11/02/2022
Sampled By Jorge Robles
Total Samples 274

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-066	SE					
N-04	Drywall, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Fibrous Glass Gypsum/Filler	15% <1% 85%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-067	NE					
N-05	Drywall, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Fibrous Glass Gypsum/Filler	10% <1% 90%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-068	NW					
N-06	Drywall, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Fibrous Glass Gypsum/Filler	10% <1% 90%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-069	SE					
N-07	Fiberboard wall glue, Yellow, Homogeneous	LAYER 1 100%	Organic Binders	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-070	NE					
N-08	Fiberboard wall glue, Yellow, Homogeneous	LAYER 1 100%	Organic Binders	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-071	NW					
N-09	Fiberboard wall glue, Yellow, Homogeneous	LAYER 1 100%	Organic Binders	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-072	SE					
N-10	Barrier Paper, Black, Homogeneous	LAYER 1	Cellulose Fiber	80%	None Detected	
		100%	Bituminous Matrix	20%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-073	NE					
N-11	Barrier Paper, Black, Homogeneous	LAYER 1	Cellulose Fiber	80%	None Detected	
		100%	Bituminous Matrix	20%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-074	NW					
N-12	Barrier Paper, Black, Homogeneous	LAYER 1	Cellulose Fiber	80%	None Detected	
		100%	Bituminous Matrix	20%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-075	SW					
N-13A	4" Covebase, Green, Homogeneous	LAYER 1			None Detected	
		100%	Vinyl Binder/ Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-076	SW					
N-13B	Glue, Cream, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-077	S Ctr					
N-14A	4" Covebase, Green, Homogeneous	LAYER 1			None Detected	
		100%	Vinyl Binder/ Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-078	S Ctr					
N-14B	Glue, Cream, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-079	N Ctr					
N-15A	4" Covebase, Green, Homogeneous	LAYER 1			None Detected	
		100%	Vinyl Binder/ Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-080	N Ctr					
N-15B	Glue, Cream, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-081	W Ctr					
N-16	Carpet Glue, Yellow, Homogeneous	LAYER 1	Cellulose Fiber	<1%	None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-082	NE					
N-17	Carpet Glue, Yellow, Homogeneous	LAYER 1	Cellulose Fiber	<1%	None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-083	SE					
N-18	Carpet Glue, Yellow, Homogeneous	LAYER 1	Synthetic Fiber	<1%	None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-084	SW					
N-19	Exterior wall caulking, White, Non-homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-085	S Ctr					
N-20	Exterior wall caulking, White, Non-homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-086	SE					
N-21	Exterior wall caulking, White, Non-homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-087	W Ctr					
N-22	Roof Bolt caulking, White/Beige, Non-homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-088	Ctr					
N-23	Roof Bolt caulking, White/Beige, Non-homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-089	E Ctr					
N-24	Roof Bolt caulking, White/Beige, Non-homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-090	SW					
O-01	Drywall, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Fibrous Glass Gypsum/Filler	10% <1% 90%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-091	N Ctr					
O-02	Drywall, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Fibrous Glass Gypsum/Filler	10% <1% 90%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-092	E Ctr					
O-03	Drywall, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Fibrous Glass Gypsum/Filler	10% <1% 90%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-093	SW					
O-04	Fiberboard Glue, Yellow, Homogeneous	LAYER 1 100%	Organic Binders	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-094	N Ctr					
O-05	Fiberboard Glue, Yellow, Homogeneous	LAYER 1 100%	Organic Binders	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-095	E Ctr					
O-06	Fiberboard Glue, Yellow, Homogeneous	LAYER 1 100%	Organic Binders	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-096	SW					
O-07	Barrier Paper, Black, Homogeneous	LAYER 1 100%	Cellulose Fiber Bituminous Matrix	80% 20%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-097	N Ctr					
O-08	Barrier Paper, Black, Homogeneous	LAYER 1	Cellulose Fiber	80%	None Detected	
		100%	Bituminous Matrix	20%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-098	E Ctr					
O-09	Barrier Paper, Black, Homogeneous	LAYER 1	Cellulose Fiber	80%	None Detected	
		100%	Bituminous Matrix	20%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-099	W Ctr					
O-10A	4" Covebase, Green, Homogeneous	LAYER 1			None Detected	
		100%	Calcium Carbonate	40%		
			Vinyl Binder	60%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-100	W Ctr					
O-10B	Glue, White, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-101	NW					
O-11A	4" Covebase, Green, Homogeneous	LAYER 1			None Detected	
		100%	Calcium Carbonate	40%		
			Vinyl Binder	60%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-102	NW					
O-11B	Glue, White, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-103	NE					
O-12A	4" Covebase, Green, Homogeneous	LAYER 1			None Detected	
		100%	Calcium Carbonate	40%		
			Vinyl Binder	60%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-104	NE					
O-12B	Glue, White, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-105	Ctr					
O-13	Carpet Glue, Yellow, Homogeneous	LAYER 1	Cellulose Fiber	<1%	None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-106	S Ctr					
O-14	Carpet Glue, Yellow, Homogeneous	LAYER 1	Cellulose Fiber	<1%	None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-107	E Ctr					
O-15	Carpet Glue, Yellow, Homogeneous	LAYER 1	Cellulose Fiber	<1%	None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-108	SE					
O-16	Exterior wall panel caulking, White/Cream, Non-homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-109	S Ctr					
O-17	Exterior wall panel caulking, White/Cream, Non-homogeneous	LAYER 1 100%	 Organic Binders/Filler	 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-110	SW					
O-18	Exterior wall panel caulking, White/Cream, Non-homogeneous	LAYER 1 100%	 Organic Binders/Filler	 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-111	Roof, W Ctr					
O-19	Roof Bolt Caulking, White/Beige, Non-homogeneous	LAYER 1 100%	 Organic Binders/Filler	 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-112	Roof, Ctr					
O-20	Roof Bolt Caulking, White/Beige, Non-homogeneous	LAYER 1 100%	 Organic Binders/Filler	 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-113	Roof, E Ctr					
O-21	Roof Bolt Caulking, White/Beige, Non-homogeneous	LAYER 1 100%	 Organic Binders/Filler	 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-114	Roof, N Ctr					
O-22	Roof mastic, Black, Homogeneous	LAYER 1 100%	Cellulose Fiber Bituminous Matrix/Filler	5% 90%	Chrysotile	5%
	Asbestos Present: Yes		Total % Non-Asbestos:	95.0%	**Total %Asbestos:**	**5.0%**
2251463-115	Roof, S Ctr					
O-23	Roof Mastic, Note: Not Analyzed-Positive Stop					
	Asbestos Present:		Total % Non-Asbestos:	Not Analyzed	**Total %Asbestos:**	**Not Analyzed**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-116	Roof, NW					
O-24	Roof Mastic, Note: Not Analyzed-Positive Stop					
	Asbestos Present:		Total % Non-Asbestos:	Not Analyzed	**Total %Asbestos:**	**Not Analyzed**
2251463-117	W Ctr					
P-01	Drywall, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	10%	None Detected	
			Fibrous Glass	<1%		
			Gypsum/Filler	90%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-118	N Ctr					
P-02	Drywall, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	10%	None Detected	
			Fibrous Glass	<1%		
			Gypsum/Filler	90%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-119	SE					
P-03	Drywall, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	10%	None Detected	
			Fibrous Glass	<1%		
			Gypsum/Filler	90%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-120	W Ctr					
P-04	Fiberboard wall glue, Yellow, Homogeneous	LAYER 1 100%	Organic Binders	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-121	N Ctr					
P-05	Fiberboard wall glue, Yellow, Homogeneous	LAYER 1 100%	Organic Binders	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-122	SE					
P-06	Fiberboard wall glue, Yellow, Homogeneous	LAYER 1 100%	Organic Binders	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-123	NW					
P-07A	4" Covebase, Green, Homogeneous	LAYER 1 100%	Calcium Carbonate Vinyl Binder	40% 60%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-124	NW					
P-07B	Glue, Cream, Homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-125	NE					
P-08A	4" Covebase, Green, Homogeneous	LAYER 1 100%	Calcium Carbonate Vinyl Binder	40% 60%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-126	NE					
P-08B	Glue, Cream, Homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-127	S Ctr					
P-09A	4" Covebase, Green, Homogeneous	LAYER 1 100%	Calcium Carbonate Vinyl Binder	40% 60%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Report Number 2251463

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Test Report

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-128 P-09B	S Ctr Glue, Cream, Homogeneous	LAYER 1 100%	 Organic Binders/Filler	 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-129 P-10	Ctr Carpet Glue, Yellow, Homogeneous	LAYER 1 100%	Cellulose Fiber Organic Binders/Filler	<1% 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-130 P-11	NE Carpet Glue, Yellow, Homogeneous	LAYER 1 100%	Cellulose Fiber Organic Binders/Filler	<1% 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-131 P-12	SE Carpet Glue, Yellow, Homogeneous	LAYER 1 100%	Cellulose Fiber Organic Binders/Filler	<1% 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-132 P-13	SW Exterior wall panel caulking, Lt. Gray/White, Non-homogeneous	LAYER 1 100%	 Organic Binders/Filler	 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-133 P-14	S Ctr Exterior wall panel caulking, Lt. Gray/White, Non-homogeneous	LAYER 1 100%	 Organic Binders/Filler	 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-134 P-15	SE Exterior wall panel caulking, Lt. Gray/White, Non-homogeneous	LAYER 1 100%	 Organic Binders/Filler	 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-135	W Ctr					
P-16	Barrier Paper, Black, Homogeneous	LAYER 1	Cellulose Fiber	80%	None Detected	
		100%	Bituminous Matrix	20%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-136	N Ctr					
P-17	Barrier Paper, Black, Homogeneous	LAYER 1	Cellulose Fiber	80%	None Detected	
		100%	Bituminous Matrix	20%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-137	SE					
P-18	Barrier Paper, Black, Homogeneous	LAYER 1	Cellulose Fiber	80%	None Detected	
		100%	Bituminous Matrix	20%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-138	Roof, W Ctr					
P-19	Roof Bolt Caulking, White/Beige, Non-homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-139	Roof, Ctr					
P-20	Roof Bolt Caulking, White/Beige, Non-homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-140	Roof, E Ctr					
P-21	Roof Bolt Caulking, White/Beige, Non-homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-141	Roof, NW					
P-22	Roof Mastic, Black, Homogeneous	LAYER 1			Chrysotile	5%
		100%	Bituminous Matrix/Filler	95%		
	Asbestos Present: Yes		Total % Non-Asbestos:	95.0%	**Total %Asbestos:**	**5.0%**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-142	Roof, NE					
P-23	Roof Mastic, Note: Not Analyzed-Positive Stop					
	Asbestos Present:	Total % Non-Asbestos:	Not Analyzed	**Total %Asbestos:**		**Not Analyzed**
2251463-143	Roof, SE					
P-24	Roof Mastic, Note: Not Analyzed-Positive Stop					
	Asbestos Present:	Total % Non-Asbestos:	Not Analyzed	**Total %Asbestos:**		**Not Analyzed**
2251463-144	Rm 1, NW					
J-01	2'x4' Fissured Ceiling Panel, White/ Beige, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	55%	None Detected	
			Fibrous Glass	<1%		
			Perlite	40%		
			Binder/Filler	5%		
	Asbestos Present: No	Total % Non-Asbestos:	100.0%	**Total %Asbestos:**		**No Asbestos Detected**
2251463-145	Rm 1, SW					
J-02	2'x4' Fissured Ceiling Panel, White/ Beige, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	55%	None Detected	
			Fibrous Glass	<1%		
			Perlite	40%		
			Binder/Filler	5%		
	Asbestos Present: No	Total % Non-Asbestos:	100.0%	**Total %Asbestos:**		**No Asbestos Detected**
2251463-146	Rm 2, NE					
J-03	2'x4' Fissured Ceiling Panel, White/ Beige, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	55%	None Detected	
			Fibrous Glass	<1%		
			Perlite	40%		
			Binder/Filler	5%		
	Asbestos Present: No	Total % Non-Asbestos:	100.0%	**Total %Asbestos:**		**No Asbestos Detected**
2251463-147	Rm 1, NW					
J-04	Drywall, Beige/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	10%	None Detected	
			Gypsum/Filler	90%		
	Asbestos Present: No	Total % Non-Asbestos:	100.0%	**Total %Asbestos:**		**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-148	Rm 1, SW					
J-05	Drywall, Beige/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Gypsum/Filler	10% 90%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-149	Rm 2, NE					
J-06	Drywall, Beige/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Gypsum/Filler	10% 90%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-150	Rm 1, NW					
J-07	Fiberboard wall glue, Yellow, Homogeneous	LAYER 1 100%	Organic Binders	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-151	Rm 1, SW					
J-08	Fiberboard wall glue, Yellow, Homogeneous	LAYER 1 100%	Organic Binders	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-152	Rm 2, NE					
J-09	Fiberboard wall glue, Yellow, Homogeneous	LAYER 1 100%	Organic Binders	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-153	Rm 1, W Ctr					
J-10	Drywall Mud, Cream, Homogeneous	LAYER 1 100%	Perlite Mica Calcium Carbonate	5% 10% 85%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-154	Rm 1, NW					
J-11	Drywall Mud, Cream, Homogeneous	LAYER 1			None Detected	
		100%	Perlite	5%		
			Mica	10%		
			Calcium Carbonate	85%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-155	Rm 1, SW					
J-12	Drywall Mud, Cream, Homogeneous	LAYER 1			None Detected	
		100%	Perlite	5%		
			Mica	10%		
			Calcium Carbonate	85%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-156	Rm 2, E Ctr					
J-13	Drywall Mud, Cream, Homogeneous	LAYER 1			None Detected	
		100%	Perlite	5%		
			Mica	10%		
			Calcium Carbonate	85%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-157	Rm 2, NE					
J-14	Drywall Mud, Cream, Homogeneous	LAYER 1			None Detected	
		100%	Perlite	5%		
			Mica	10%		
			Calcium Carbonate	85%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-158	Rm 2, W Ctr					
J-15A	4" Covebase, Green, Homogeneous	LAYER 1			None Detected	
		100%	Vinyl Binder/ Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-159	Rm 2, W Ctr					
J-15B	Glue, Cream/Yellow, Non-homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-160	Rm 2, S Ctr					
J-16A	4" Covebase, Green, Homogeneous	LAYER 1			None Detected	
		100%	Vinyl Binder/ Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-161	Rm 2, S Ctr					
J-16B	Glue, Cream/Yellow, Non-homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-162	Rm 1, NW					
J-17A	4" Covebase, Green, Homogeneous	LAYER 1			None Detected	
		100%	Vinyl Binder/ Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-163	Rm 1, NW					
J-17B	Glue, Cream/Yellow, Non-homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-164	Rm 2, Ctr					
J-18	Carpet Glue, Yellow, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-165	Rm 2, W Ctr					
J-19	Carpet Glue, Yellow, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-166	Rm 1, NE					
J-20	Carpet Glue, Yellow, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-167	Rm 1, NW					
J-21	Barrier Paper, Black, Homogeneous	LAYER 1	Cellulose Fiber	80%	None Detected	
		100%	Bituminous Matrix	20%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-168	Rm 1, SW					
J-22	Barrier Paper, Black, Homogeneous	LAYER 1	Cellulose Fiber	80%	None Detected	
		100%	Bituminous Matrix	20%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-169	Rm 2, NE					
J-23	Barrier Paper, Black, Homogeneous	LAYER 1	Cellulose Fiber	80%	None Detected	
		100%	Bituminous Matrix	20%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-170	Roof at HVAC					
J-24	Duct Sealant, Gray, Homogeneous	LAYER 1	Synthetic Fiber	<1%	None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-171	Roof at HVAC					
J-25	Duct Sealant, Gray, Homogeneous	LAYER 1	Synthetic Fiber	<1%	None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-172	Roof at HVAC					
J-26	Duct Sealant, Gray, Homogeneous	LAYER 1	Synthetic Fiber	<1%	None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-173	Roof, NW					
J-27A	Gravel Roof Core, White/ Black, Non-homogeneous	LAYER 1	Fibrous Glass	10%	None Detected	
		100%	Quartz/Gravel	40%		
			Bituminous Matrix/Filler	50%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-174	Roof, NW					
J-27B	Gravel Roof Core- Paper, Brown, Homogeneous	LAYER 1	Cellulose Fiber	95%	None Detected	
		100%	Binder/Filler	5%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-175	Roof, NE					
J-28A	Gravel Roof Core, White/ Black, Non-homogeneous	LAYER 1	Fibrous Glass	10%	None Detected	
		100%	Bituminous Matrix/Filler	50%		
			Quartz/Gravel	40%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-176	Roof, NE					
J-28B	Gravel Roof Core- Paper, Brown, Homogeneous	LAYER 1	Cellulose Fiber	95%	None Detected	
		100%	Binder/Filler	5%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-177	Roof, SE					
J-29A	Roof Core, White/ Black, Non-homogeneous	LAYER 1	Fibrous Glass	5%	None Detected	
		100%	Quartz/Gravel	55%		
			Bituminous Matrix/Filler	40%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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2251463-178	Roof, SE					
J-29B	Roof Core- Paper, Brown, Homogeneous	LAYER 1 100%	Cellulose Fiber Binder/Filler	95% 5%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-179	Roof, W Ctr					
J-30	Roof Penetration Mastic, Black, Homogeneous	LAYER 1 100%	Organic Binders	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-180	Roof, N Ctr					
J-31	Roof Penetration Mastic, Black, Homogeneous	LAYER 1 100%	Fibrous Glass Bituminous Matrix/Filler	2% 98%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-181	Roof, E Ctr					
J-32	Roof Penetration Mastic, Black, Homogeneous	LAYER 1 100%	Fibrous Glass Bituminous Matrix/Filler	2% 98%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-182	Roof at HVAC					
J-33	Vibration Reducer, Black, Non-homogeneous	LAYER 1 100%	Synthetic Fiber Binder/Filler	30% 70%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-183	Roof at HVAC					
J-34	Vibration Reducer, Black, Non-homogeneous	LAYER 1 100%	Synthetic Fiber Binder/Filler	30% 70%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-184	Roof at HVAC					
J-35	Vibration Reducer, Black, Non-homogeneous	LAYER 1 100%	Synthetic Fiber Binder/Filler	30% 70%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Report Number 2251463

Project Number LCSD-22-11189
Project Name Paradise Canyon
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PO Number
WO Number

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Total Samples 274

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Test Report

Laboratory ID / Sample No.	Sample Location Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-185	Rm 13, W Ctr					
W-01	2'x4' Fissured Ceiling Panel, White/ Beige, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	60%	None Detected	
			Perlite	35%		
			Binder/Filler	5%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-186	Rm 14, SW					
W-02	2'x4' Fissured Ceiling Panel, White/ Beige, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	60%	None Detected	
			Perlite	35%		
			Binder/Filler	5%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-187	Rm 15, SW					
W-03	2'x4' Fissured Ceiling Panel, White/ Beige, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	60%	None Detected	
			Perlite	35%		
			Binder/Filler	5%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-188	Rm 13, E Ctr					
W-04	Drywall, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	10%	None Detected	
			Fibrous Glass	<1%		
			Gypsum/Filler	90%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-189	Rm 14, SE					
W-05	Drywall, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	5%	None Detected	
			Fibrous Glass	<1%		
			Gypsum/Filler	95%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-190	Rm 15, SE					
W-06	Drywall, White/ Brown, Non-homogeneous	LAYER 1 100%	Cellulose Fiber	5%	None Detected	
			Fibrous Glass	<1%		
			Gypsum/Filler	95%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-191	Rm 13, E Ctr					
W-07	Drywall Mud, White, Non-homogeneous	LAYER 1			None Detected	
		100%	Perlite	5%		
			Mica	10%		
			Calcium Carbonate	70%		
			Binder/Filler	15%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-192	Rm 14, SE					
W-08	Drywall Mud, White, Homogeneous	LAYER 1			None Detected	
		100%	Perlite	5%		
			Mica	10%		
			Calcium Carbonate	85%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-193	Rm 15, SE					
W-09	Drywall Mud, White, Non-homogeneous	LAYER 1			None Detected	
		100%	Perlite	5%		
			Mica	10%		
			Calcium Carbonate	70%		
			Binder/Filler	15%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-194	Rm 15, SW					
W-10	Drywall Mud, White, Homogeneous	LAYER 1			None Detected	
		100%	Perlite	5%		
			Mica	10%		
			Calcium Carbonate	85%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-195	Rm 16, SW					
W-11	Drywall Mud, White, Homogeneous	LAYER 1			None Detected	
		100%	Perlite	5%		
			Mica	10%		
			Calcium Carbonate	85%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-196	Rm 16, Ctr					
W-12A	12" F.T., Beige, Homogeneous	LAYER 1			Chrysotile	5%
		100%	Calcium Carbonate	25%		
			Vinyl Binder	70%		
	Asbestos Present: Yes		Total % Non-Asbestos:	95.0%	**Total %Asbestos:**	**5.0%**
2251463-197	Rm 16, Ctr					
W-12B	Mastic w/ carpet glue, Black, Homogeneous	LAYER 1	Cellulose Fiber	5%	None Detected	
		100%	Bituminous Matrix/Filler	95%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-198	Rm 15, N Ctr					
W-13A	12" F.T., Note: Not Analyzed- Positive Stop					
	Asbestos Present:		Total % Non-Asbestos:	Not Analyzed	**Total %Asbestos:**	**Not Analyzed**
2251463-199	Rm 15, N Ctr					
W-13B	Mastic with carpet glue, Black, Homogeneous Note: Not Analyzed- Positive Stop		Cellulose Fiber	10%		
			Bituminous Matrix/Filler	90%		
	Asbestos Present:		Total % Non-Asbestos:	Not Analyzed	**Total %Asbestos:**	**Not Analyzed**
2251463-200	Rm 14, N Ctr					
W-14A	12" F.T., Note: Not Analyzed- Positive Stop					
	Asbestos Present:		Total % Non-Asbestos:	Not Analyzed	**Total %Asbestos:**	**Not Analyzed**
2251463-201	Rm 14, N Ctr					
W-14B	Mastic with carpet glue, Black, Homogeneous	LAYER 1	Cellulose Fiber	10%	None Detected	
		100%	Bituminous Matrix/Filler	90%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-202	Rm 14, NW					
W-15A	4" Covebase, Green, Homogeneous	LAYER 1			None Detected	
		100%	Vinyl Binder/ Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-203	Rm 14, NW					
W-15B	Glue, Cream, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-204	Rm 13, NW					
W-16A	4" Covebase, Green, Homogeneous	LAYER 1			None Detected	
		100%	Vinyl Binder/ Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-205	Rm 13, NW					
W-16B	Glue, Cream, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-206	Rm 15, SW					
W-17A	4" Covebase, Green, Homogeneous	LAYER 1			None Detected	
		100%	Vinyl Binder/ Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-207	Rm 15, SW					
W-17B	Glue, Cream, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-208	Rm 13, W Ctr					
W-18	Barrier Paper, Black, Homogeneous	LAYER 1	Cellulose Fiber	80%	None Detected	
		100%	Bituminous Matrix	20%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-209	Rm 14, SW					
W-19	Barrier Paper, Black, Homogeneous	LAYER 1	Cellulose Fiber	80%	None Detected	
		100%	Bituminous Matrix	20%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-210	Rm 15, SW					
W-20	Barrier Paper, Black, Homogeneous	LAYER 1	Cellulose Fiber	80%	None Detected	
		100%	Bituminous Matrix	20%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-211	Roof, NW					
W-21A	Roof Core- Capsheet, Gray/ Black, Non-homogeneous	LAYER 1	Fibrous Glass	15%	None Detected	
		100%	Quartz/Gravel	35%		
			Bituminous Matrix/Filler	50%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-212	Roof, NW					
W-21B	Roof Core- Felt (8 layers), Black, Non-homogeneous	LAYER 1	Fibrous Glass	25%	None Detected	
		100%	Bituminous Matrix/Filler	75%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-213	Roof, SW					
W-22A	Roof Core- Capsheet, Gray/ Black, Non-homogeneous	LAYER 1	Fibrous Glass	10%	None Detected	
		100%	Quartz/Gravel	30%		
			Bituminous Matrix/Filler	60%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-214	Roof, SW					
W-22B	Roof Core- Layered Felt, Black, Non-homogeneous	LAYER 1	Fibrous Glass	15%	None Detected	
		100%	Bituminous Matrix/Filler	85%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-215	Roof, SE					
W-23A	Roof Core- Capsheet, Gray/ Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass	10%	None Detected	
			Quartz/Gravel	30%		
			Bituminous Matrix/Filler	60%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-216	Roof, SE					
W-23B	Roof Core- Layered Felt/Tar, Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass	15%	None Detected	
			Bituminous Matrix/Filler	85%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-217	Roof, NW					
W-24	Roof Penetration Mastic, Black, Homogeneous	LAYER 1 100%	Bituminous Matrix/Filler	92%	Chrysotile	8%
	Asbestos Present: Yes		Total % Non-Asbestos:	92.0%	**Total %Asbestos:**	**8.0%**
2251463-218	Roof, S Ctr					
W-25	Roof Penetration Mastic, Note: Not Analyzed- Positive Stop					
	Asbestos Present:		Total % Non-Asbestos:	Not Analyzed	**Total %Asbestos:**	**Not Analyzed**
2251463-219	Roof, SE					
W-26	Roof Penetration Mastic, Note: Not Analyzed- Positive Stop					
	Asbestos Present:		Total % Non-Asbestos:	Not Analyzed	**Total %Asbestos:**	**Not Analyzed**
2251463-220	Roof at HVAC					
W-27	Duct Sealant, Gray, Homogeneous	LAYER 1 100%	Synthetic Fiber	<1%	None Detected	
			Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-221	Roof at HVAC					
W-28	Duct Sealant, Gray, Homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-222	Roof at HVAC					
W-29	Duct Sealant, Gray, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders/Filler	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-223	Rm 17, by sink					
R-01A	12" Specks F.T., White/Green, Homogeneous	LAYER 1			None Detected	
		100%	Calcium Carbonate	60%		
			Vinyl Binder	40%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-224	Rm 17, by sink					
R-01B	Mastic, Yellow, Homogeneous	LAYER 1			None Detected	
		100%	Organic Binders	100%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-225	Rm 17, NE					
R-02A	12" Specks F.T., White/Green, Homogeneous	LAYER 1			None Detected	
		100%	Calcium Carbonate	60%		
			Vinyl Binder	40%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-226	Rm 17, NE					
R-02B	Mastic, Yellow/Black, Non-homogeneous Note: Asbestos present in residual black mastic	LAYER 1			Chrysotile	<1%
		100%	Bituminous Matrix	15%		
			Organic Binders	85%		
	Asbestos Present: Yes		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**<1%**
2251463-227	Rm 18, by sink					
R-03A	12" Specks F.T., White/Green	LAYER 1			None Detected	
		100%	Calcium Carbonate	60%		
			Vinyl Binder	40%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-228	Rm 18, by sink					
R-03B	Mastic, Yellow/ Black, Non-homogeneous	LAYER 1 100%	Bituminous Matrix Organic Binders	10% 90%	Chrysotile	<1%
	Asbestos Present: Yes		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**<1%**
2251463-229	Rm 18, NW					
R-04	Carpet glue w/ residual mastic, Black/Colorless, Non-homogeneous	LAYER 1 100%	Synthetic Fiber Bituminous Matrix/Filler	<1% 98%	Chrysotile	2%
	Asbestos Present: Yes		Total % Non-Asbestos:	98.0%	**Total %Asbestos:**	**2.0%**
2251463-230	Rm 18, W Ctr					
R-05	Carpet glue with residual mastic, Note: Not Analyzed- Positive Stop					
	Asbestos Present:		Total % Non-Asbestos:	Not Analyzed	**Total %Asbestos:**	**Not Analyzed**
2251463-231	Rm 18, S Ctr					
R-06	Carpet glue with residual mastic, Note: Not Analyzed- Positive Stop					
	Asbestos Present:		Total % Non-Asbestos:	Not Analyzed	**Total %Asbestos:**	**Not Analyzed**
2251463-232	Rm 17, NE					
R-07A	4" Covebase, Green, Homogeneous	LAYER 1 100%	Vinyl Binder/ Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-233	Rm 17, NE					
R-07B	Glue, White, Homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-234	Rm 17, SE					
R-08A	4" Covebase, Green, Homogeneous	LAYER 1 100%	Vinyl Binder/ Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-235 R-08B	Rm 17, SE Glue, White, Homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-236 R-09A	Rm 18, SE 4" Covebase, Green, Homogeneous	LAYER 1 100%	Vinyl Binder/ Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-237 R-09B	Rm 18, SE Mastic, glu, Homogeneous	LAYER 1 100%	Organic Binders/Filler	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-238 R-10	Rm 17, N Ctr 12" Fissured C.T., Brown, Homogeneous	LAYER 1 100%	Wood Fiber	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-239 R-11	Rm 17, S Ctr 12" Fissured C.T., Brown, Homogeneous	LAYER 1 100%	Wood Fiber	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-240 R-12	Rm 18, S Ctr 12" Fissured C.T., Brown, Homogeneous	LAYER 1 100%	Wood Fiber	100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-241 R-13	Rm 18, window Window Putty, White/ Gray, Non-homogeneous	LAYER 1 100%	Calcium Carbonate Binder/Filler	85% 15%	Chrysotile	<1%
	Asbestos Present: Yes		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**<1%**

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Tel: 562-206-2770
Fax: 562-206-2773

Alta Environmental
3777 Long Beach Blvd.
Long Beach CA 90807
Attn.: Jim Byers

Report Number 2251463

Project Number LCSD-22-11189
Project Name Paradise Canyon
Location La Canada, CA
PO Number
WO Number

Date Received 11/02/2022
Date Analyzed 11/09/2022
Date Reported 11/09/2022

Date Sampled 11/02/2022
Sampled By Jorge Robles
Total Samples 274

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-242 R-14	Rm 17, SW Window Putty, White/ Gray, Non-homogeneous	LAYER 1 100%	 Calcium Carbonate Binder/Filler	 85% 15%	Chrysotile	<1%
	Asbestos Present: Yes		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**<1%**
2251463-243 R-15	Rm 17, SE Window Putty, White/ Gray, Non-homogeneous	LAYER 1 100%	 Calcium Carbonate Binder/Filler	 85% 15%	Chrysotile	<1%
	Asbestos Present: Yes		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**<1%**
2251463-244 R-16	Exterior, NW Exterior Brick, Red, Homogeneous	LAYER 1 100%	 Non-Fibrous Material	 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-245 R-17	Exterior, W Ctr Exterior Brick, Red, Homogeneous	LAYER 1 100%	 Non-Fibrous Material	 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-246 R-18	Exterior, SW Exterior Brick, Red, Homogeneous	LAYER 1 100%	 Non-Fibrous Material	 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-247 R-19	Exterior, S Ctr Exterior Brick, Red, Homogeneous	LAYER 1 100%	 Non-Fibrous Material	 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-248 R-20	Exterior, SE Exterior Brick, Red, Homogeneous	LAYER 1 100%	 Non-Fibrous Material	 100%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-249	Exterior, NW					
R-21	Brick Mortar, White/Green/Gray, Non-homogeneous	LAYER 1 100%	Quartz Calcium Carbonate Binder/Filler	30% 30% 40%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-250	Exterior, W Ctr					
R-22	Brick Mortar, White/Green/Gray, Non-homogeneous	LAYER 1 100%	Quartz Calcium Carbonate Binder/Filler	30% 30% 40%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-251	Exterior, SW					
R-23	Brick Mortar, Gray, Non-homogeneous	LAYER 1 100%	Quartz Calcium Carbonate Binder/Filler	40% 45% 15%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-252	Exterior, S Ctr					
R-24	Brick Mortar, White/Green/Gray, Non-homogeneous	LAYER 1 100%	Quartz Calcium Carbonate Binder/Filler	40% 35% 25%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-253	Exterior, SE					
R-25	Brick Mortar, White/Green/Gray, Non-homogeneous	LAYER 1 100%	Quartz Calcium Carbonate Binder/Filler	40% 35% 25%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-254	Attic Rm 17, Ctr					
R-26	Roofing Debris, Black/Yellow/Gray, Non-homogeneous Note: Qualitative Analysis; Asbestos present in metallic paint	LAYER 1 100%	Cellulose Fiber Fibrous Glass Bituminous Matrix Perlite	Present Present Present Present	Chrysotile	Present
	Asbestos Present: Yes		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**Present**
2251463-255	Attic Rm 17, Ctr					
R-27	Roofing Debris, Black/Yellow/Gray/Red, Non-homogeneous Note: Qualitative Analysis; Asbestos present in metallic paint	LAYER 1 100%	Cellulose Fiber Fibrous Glass Wood Fiber Quartz Bituminous Matrix	Present Present Present Present Present	Chrysotile	Present
	Asbestos Present: Yes		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**Present**
2251463-256	Attic Rm 18, Ctr					
R-28	Roofing Debris, Black/Yellow/Gray/Red, Non-homogeneous Note: Qualitative Analysis; Asbestos present in metallic paint	LAYER 1 100%	Cellulose Fiber Fibrous Glass Wood Fiber Quartz Bituminous Matrix	Present Present Present Present Present	Chrysotile	Present
	Asbestos Present: Yes		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**Present**
2251463-257	Rm 17, NW					
R-29A	9" FT, Beige, Homogeneous	LAYER 1 100%	Calcium Carbonate Vinyl Binder	25% 70%	Chrysotile	5%
	Asbestos Present: Yes		Total % Non-Asbestos:	95.0%	**Total %Asbestos:**	**5.0%**
2251463-258	Rm 17, NW					
R-29B	Mastic, Black, Homogeneous	LAYER 1 100%	Bituminous Matrix	90%	Chrysotile	10%
	Asbestos Present: Yes		Total % Non-Asbestos:	90.0%	**Total %Asbestos:**	**10.0%**
2251463-259	Rm 17, SW					
R-30A	9" FT, Note: Not Analyzed- Positive Stop					
	Asbestos Present:		Total % Non-Asbestos:	Not Analyzed	**Total %Asbestos:**	**Not Analyzed**

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Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-260	Rm 17, SW					
R-30B	Mastic, Note: Not Analyzed- Positive Stop					
	Asbestos Present:		Total % Non-Asbestos:	Not Analyzed	**Total %Asbestos:**	**Not Analyzed**
2251463-261	Rm 17, S Ctr					
R-31A	9" FT, Note: Not Analyzed- Positive Stop					
	Asbestos Present:		Total % Non-Asbestos:	Not Analyzed	**Total %Asbestos:**	**Not Analyzed**
2251463-262	Rm 17, S Ctr					
R-31B	Mastic, Note: Not Analyzed- Positive Stop					
	Asbestos Present:		Total % Non-Asbestos:	Not Analyzed	**Total %Asbestos:**	**Not Analyzed**
2251463-263	Rm 17					
R-32	Barrier Paper, Black, Homogeneous	LAYER 1 100%	Cellulose Fiber Bituminous Matrix	80% 20%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-264	Rm 18					
R-33	Barrier Paper, Black, Homogeneous	LAYER 1 100%	Cellulose Fiber Bituminous Matrix	80% 20%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-265	Rm 18					
R-34	Barrier Paper, Black, Homogeneous	LAYER 1 100%	Cellulose Fiber Bituminous Matrix	80% 20%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-266	Roof, W Ctr					
R-35A	Roof Core- Capsheet, White, Non-homogeneous	LAYER 1 100%	Fibrous Glass Synthetic Fiber Bituminous Matrix/Filler	10% 15% 75%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-267	Roof, W Ctr					
R-35B	Roof Core- Insulation, White, Non-homogeneous	LAYER 1 100%	Fibrous Glass Gypsum/Filler	15% 85%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-268	Roof, NE					
R-36A	Roof Core, White/Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass Synthetic Fiber Bituminous Matrix/Filler	10% 15% 75%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-269	Roof, NE					
R-36B	Roof Core- Insulation, White, Non-homogeneous	LAYER 1 100%	Fibrous Glass Gypsum/Filler	20% 80%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-270	Roof, SE					
R-37A	Roof Core, White/ Black, Non-homogeneous	LAYER 1 100%	Fibrous Glass Synthetic Fiber Bituminous Matrix/Filler	10% 15% 75%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-271	Roof, SE					
R-37B	Roof Core- Insulation, White, Non-homogeneous	LAYER 1 100%	Fibrous Glass Gypsum/Filler	30% 70%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-272	Roof at HVAC					
R-38	Duct Sealant, White/ Gray, Non-homogeneous	LAYER 1 100%	Synthetic Fiber Binder/Filler	30% 70%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Total Samples 274

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251463-273	Roof at HVAC					
R-39	Duct Sealant, White/ Gray, Non-homogeneous	LAYER 1 100%	Synthetic Fiber Binder/Filler	30% 70%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251463-274	Roof at HVAC					
R-40	Duct Sealant, White/ Gray, Non-homogeneous	LAYER 1 100%	Synthetic Fiber Binder/Filler	30% 70%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

Method Detection Limit: Less than one percent (<1%). Asbestos content has been determined using calibrated visual estimation (CVES). Samples tested were received in acceptable condition unless otherwise stated. Test report relates only to items tested. Non-homogeneous samples containing discrete and separable layers are analyzed and reported separately; composite results may be reported upon customer's request. Non-homogeneous samples with inseparable layers are analyzed and reported as composite samples. Due to the limitations of Polarized Light Microscopy, samples reported as None Detected or with low asbestos concentrations may not be reliable and further analysis such as TEM is recommended to confirm PLM results. This report shall not be reproduced except in full without the written approval of this laboratory. This report may not be used by the customer to claim product certification, endorsement, or approval by NIST/NVLAP or any agency of the government. Samples shall be disposed according to local, state and federal laws, 30 days after results are reported unless otherwise instructed.

CA-ELAP #2823

Cristina E Tabatt
Analyst - Cristina Tabatt

Cristina E Tabatt
Approved Signatory Cristina E. Tabatt

NVLAP TESTING
NVLAP Lab Code 500044-0

CHAIN OF CUSTODY

ENVIRONMENTAL LABORATORIES

1508 E. 33rd Street
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services@AQenvlabs.com

(Lab) Order No. 2251462-2251463

CUSTOMER INFORMATION	
Company	NV5
Address	3777 Long Beach Boulevard
City/State/Zip	Long Beach, CA 90807
Contact	Jim Byers
Office Phone	562/ 495-5777
Cell	
Fax	562/ 495-5877
Email	Jim.Byers@NV5.com

Turnaround Time		Shipped By		Report Send Via:	
Same Day	☐	Fedex	☐	Web	☐
1 Day	☐	UPS	☐	Email	☐
2 Day	☐	USPS	☐	Fax	☐
3 Day	☐	Drop Off	☐	Verbal	☐
5 Day	☒	Drop Box	☐	Mail	☐
Weekend	☐	Other	☐	Pick up	☐

Special Instructions:

PROJECT INFORMATION

Project Name:	Paradise Canyon	PO Number:	
Project Number:	LCSO-22-11189	Work Order No.:	
Location:	La Cañada, CA	Sampled By:	Jorge Robles

PLM		PCM		MOLD		LEAD (Pb)			
PLM EPA 600/M4-82-020	☒	NIOSH 7400A	☐	Spore Trap	☐	Air	☐	TTLC	☐
PLM 400 Pt. Count (<0.25%)	☐	NIOSH 7400B	☐	Tape Lift	☐	Paint	☐		
PLM 1000 Pt. Count (<0.1%)	☐	w/ TWA	☐	Bulk Sample	☐	Wipe	☐		
						Soil	☐		

SAMPLE ID	SAMPLE TYPE	LOCATION	Date Sampled	Start Time / Stop Time	Avg Flow Rate	Volume (L)
		See attached				

Relinquished By:	Received By: Jackie Tayag
Date/Time: 11/2/22 1040	Date/Time: 11/2/22 10:50

Lab Forms
Ver. 082411

NV5
ALTA ENVIRONMENTAL

2251463

FIELD BULK SAMPLE LIST

CLIENT: LCUSD
PROJECT NO.: LCSD-22-11189
PROJECT NAME: Paradise Canyon 4

Technician: Jorge Robles
Date:
Page: ___of___

MATERIAL	SAMPLE #	SAMPLE LOCATION	MATERIAL LOCATION	EST. QTY.	F	D
2x4' Fissured ceiling panel	L - 01	NW	ceiling	950ft²	N	N
	-02	NE				
	-03	S Ctr				
Drywall	-04	NW	Exterior walls	950ft²	N	N
	-05	NE				
	-06	S Ctr				
Fiberboard wall glue	-07	NW	Exterior walls on drywall	950ft²	N	N
	-08	NE				
	-09	S Ctr				
Black barrier paper	-10	NW	Wall cavities	950ft²	N	N
	-11	NE				
	-12	S Ctr				
4" Green caulking w/ glue	-13	W Ctr	Exterior walls	200lnft	N	N
	-14	NE				
	-15	E Ctr				
Carpet glue	-16	NW	Flooring	950ft²	N	N
	-17	Ctr				
	-18	E Ctr				

NV5
ALTA ENVIRONMENTAL

2251463

FIELD BULK SAMPLE LIST

CLIENT: LCUSD
PROJECT NO.: LCSD-22-11184
PROJECT NAME: Paradise Canyon 4

Technician: Jorge Robles
Date:
Page: ___of___

MATERIAL	SAMPLE #	SAMPLE LOCATION	MATERIAL LOCATION	EST. QTY.	F	D
Exterior wall panel caulking	L - 19	SE	Exterior walls	200 lnft	N	N
	-20	S ctr				
	-21	SW				
Roof vent	-22	N ctr	Roof	950 ft²	N	N
	-23	ctr				
	-24	W ctr				
			* No penetrations			

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ALTA ENVIRONMENTAL

2251463

FIELD BULK SAMPLE LIST

CLIENT: LCUSD
PROJECT NO.: LCSD-22-11189
PROJECT NAME: Paradise Canyon 5

Technician: Jorge Robles
Date: _____
Page: ___of___

MATERIAL	SAMPLE #	SAMPLE LOCATION	MATERIAL LOCATION	EST. QTY.	F	D
2x4' Fissured ceiling panel	M-01	SE	Ceiling	950ft2	Y	N
	-02	SW				
	-03	NW				
Drywall	-04	SE	Interior walls	950ft2	N	N
	-05	SW				
	-06	NW				
Fiberboard wall glue	-07	SE	Interior walls on drywall	950ft2	N	N
	-08	SW				
	-09	NW				
Black Barrier paper	-10	SE	Wall cavaties	950ft2	N	N
	-11	SW				
	-12	NW				
4" Green coving w/ glue	-13	W Ctr	Interior walls	200lnft	N	N
	-14	N Ctr				
	-15	S Ctr				
Carpet glue	-16	E Ctr	Flooring	950ft2	N	N
	-17	Ctr				
	-18	W Ctr				

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ALTA ENVIRONMENTAL

2251463

FIELD BULK SAMPLE LIST

CLIENT: LCUSD
PROJECT NO.: LCSO-22-11189
PROJECT NAME: Paradise Canyon M 5

Technician: Jorge Robles
Date:
Page: __of__

MATERIAL	SAMPLE #	SAMPLE LOCATION	MATERIAL LOCATION	EST. QTY.	F	D
Exterior wall panel caulking	M - 19	SW	Exterior walls	200 Lf	N	N
	-20	S Ctr				
	-21	SE				
Roof core	-22	W Ctr	Roof	950 ft²	N	N
	-23	Ctr				
	-24	E Ctr				

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ALTA ENVIRONMENTAL

2251463

FIELD BULK SAMPLE LIST

CLIENT: LCUSD
PROJECT NO.: LCSO-22-11189
PROJECT NAME: Paradise Canyon 6

Technician: Jorge Robles
Date:
Page: ___of___

MATERIAL	SAMPLE #	SAMPLE LOCATION	MATERIAL LOCATION	EST. QTY.	F	D
2x4' Fissured ceiling panel	N -01	SE	ceiling	950ft²	Y	N
	-02	NE				
	-03	NW				
Drywall	-04	SE	Interior walls	950ft²	N	N
	-05	NE				
	-06	NW				
Fiberboard wall glue	-07	SE	Interior walls on drywall	950ft²	N	N
	-08	NE				
	-09	NW				
Black Barrier paper	-10	SE	wall cavaties	950ft²	N	N
	-11	NE				
	-12	NW		~~950ft²~~ JR		
4" Green Cove base w/ glue	-13	SW	Interior walls	200Lf	N	N
	-14	S Ctr				
	-15	N Ctr				
Carpet glue	-16	W Ctr	Flooring	950ft²	N	N
	-17	NE				
	-18	SE				

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ALTA ENVIRONMENTAL

2251463

FIELD BULK SAMPLE LIST

CLIENT: LCUSD
PROJECT NO.: LCSD-22-11189
PROJECT NAME: Paradise Canyon 6

Technician: Jorge Robles
Date:
Page: ___of___

MATERIAL	SAMPLE #	SAMPLE LOCATION	MATERIAL LOCATION	EST. QTY.	F	D
Exterior wall panel caulking	N-19	SW	Exterior walls	200 ln ft	N	N
	-20	S ctr				
	-21	SE				
Roof Bolt caulking	-22	W ctr	Metal Roof, on Bolts	5 ft²	N	N
	-23	ctr				
	-24	E ctr				

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FIELD BULK SAMPLE LIST

CLIENT: LCSD
PROJECT NO.: LCSD-22-11189
PROJECT NAME: Paradise Canyon 19

Technician: Jorge Robles
Date:
Page: ___of___

MATERIAL	SAMPLE #	SAMPLE LOCATION	MATERIAL LOCATION	EST. QTY.	F	D
Drywall	0-01	SW	Interior walls	950ft2	N	N
	-02	N Ctr				
	-03	E Ctr				
Fiberboard wall glue	-04	SW	Interior walls on drywall	950ft2	N	N
	-05	N Ctr				
	-06	E Ctr				
Black Barrier paper	-07	SW	Wall cavaties	950ft2	N	N
	-08	N Ctr				
	-09	E Ctr				
4" Green coverage w/ glue	-10	W Ctr	Interior walls	200lnft	N	N
	-11	NW				
	-12	NE				
Carpet glue	-13	Ctr	Flooring	950ft2	N	N
	-14	S Ctr				
	-15	E Ctr				
Exterior wall panel caulking	-16	SE	Exterior walls	200lnft	N	N
	-17	S Ctr				
	-18	SW				

* Fiberglass ceiling panel

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ALTA ENVIRONMENTAL

2251463

FIELD BULK SAMPLE LIST

CLIENT: LCUSA
PROJECT NO.: LCSD-22-11185
PROJECT NAME: Paradise Canyon 19

Technician: Jorge Robles
Date:
Page: __of__

MATERIAL	SAMPLE #	SAMPLE LOCATION	MATERIAL LOCATION	EST. QTY.	F	D
Roof Bolt Caulking	0-19 | -20	Roof, W Ctr | , Ctr	Metal Roof, on Bolts	5 ft²	N	N
	-21	↓ , E Ctr				
Black Roof Mastic	-22 | -23	Roof, N Ctr | , S Ctr	Metal Roof seams	50 ft²	N	N
	-24	↓ , NW				

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FIELD BULK SAMPLE LIST

CLIENT: LCUSD
PROJECT NO.: LCSD-22-11189
PROJECT NAME: Paradise Canyon 20

Technician: Jorge Robles
Date:
Page: ___of___

MATERIAL	SAMPLE #	SAMPLE LOCATION	MATERIAL LOCATION	EST. QTY.	F	D
Drywall	P-01	W Ctr	Interior walls	950ft2	N	N
	-02	N Ctr				
	-03	SE				
Fiberboard wall glue	-04	W Ctr	Interior walls on drywall	950ft2	N	N
	-05	N Ctr				
	-06	SE				
4" Green cove base w/ glue	-07	NW	Interior walls	200lnft	N	N
	-08	NE				
	-09	S Ctr				
Carpet glue (brown)	-10	Ctr	Flooring	950ft2	N	N
	-11	NE				
	-12	SE				
Exterior wall panel caulking	-13	SW	Exterior walls	200lnft	N	N
	-14	S Ctr				
	-15	SE				

★ Fiberglass ceiling panel

NV5
ALTA ENVIRONMENTAL

2251463

FIELD BULK SAMPLE LIST

CLIENT: LCUSD
PROJECT NO.: LCSD-22-11189
PROJECT NAME: Paradise canyon 20

Technician: Jorge Robles
Date:
Page: ___of___

MATERIAL	SAMPLE #	SAMPLE LOCATION	MATERIAL LOCATION	EST. QTY.	F	D
Black Barrier paper	-16	W Ctr	Wall cavatres	950ft²	N	N
	-17	N Ctr				
	-18	SE				
Roof Bolt caulking	-19	Roof, W Ctr	Metal Roof, on Bolts	5 ft2	N	N
	-20	↓ , Ctr				
	-21	↓ , E Ctr				
Black Roof Mastic	-22	Roof, NW	Metal Roof Seams	25 ft2	N	N
	-23	NE				
	-24	↓ , SE				

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FIELD BULK SAMPLE LIST

CLIENT: LCUSD
PROJECT NO.: LCSD-22-11189
PROJECT NAME: Paradise Canyon 1 & 2

Technician: Jorge Robles
Date:
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MATERIAL	SAMPLE #	SAMPLE LOCATION	MATERIAL LOCATION	EST. QTY.	F	D
2x4' Fissured ceiling panel	J-01	Rm 1, NW	Ceiling	1800 ft²	Y	N
	-02	Rm 1, SW				
	-03	Rm 2, NE				
Drywall	-04	Rm 1, NW	Interior walls throughout	1800 ft²	N	N
	-05	Rm 1, SW				
	-06	Rm 2, NE				
Fiberboard wall glue	-07	Rm 1, NW	Interior walls on drywall	1800 ft²	N	N
	-08	Rm 1, SW				
	-09	Rm 2, NE				
Drywall mud	-10	Rm 1, W ctr	Interior walls on drywall	1800 ft²	N	N
	-11	Rm 1, NW				
	-12	Rm 1, SW				
	-13	Rm 2, E ctr				
	-14	Rm 2, NE				
4" Green cove base w/ glue	-15	Rm 2, W ctr	Interior walls	400 lin ft	N	N
	-16	Rm 2, S ctr				
	-17	Rm 1, NW				

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ALTA ENVIRONMENTAL

2251463

FIELD BULK SAMPLE LIST

CLIENT: LCUSD
PROJECT NO.: LCSO-22-11189
PROJECT NAME: Paradise Canyon 1 of 2

Technician: Jorge Robles
Date:
Page: ___of___

MATERIAL	SAMPLE #	SAMPLE LOCATION	MATERIAL LOCATION	EST. QTY.	F	D
carpet glue	J -18	Rm 2, Ctr	Flooring 1, 2	1800ft²	N	N
	-19	Rm 2, W Ctr				
	-20	Rm 1, NE				
Black Barrier paper	-21	Rm 1, NW	Wall cavities	1800ft²	N	N
	-22	Rm 1, SW				
	-23	Rm 2, NE				
Gray duct sealant	-24	Roof at HVAC	Roof HVAC	20ft²	N	N
	-25	↓				
	-26					
Gravel Roof core	(LT) 27 ~~-25~~	Roof, NW	Roof	1800ft²	N	N
	28 ~~-26~~	↓, NE				
	29 ~~-27~~	↓, SE				
Roof penetration mastic	30 ~~-28~~	Roof, W Ctr	4 penetrations	4ft²	N	N
	31 ~~-29~~	↓, N Ctr				
	32 ~~-30~~	↓, E Ctr				
Vibration reducer	33 ~~-31~~	Roof at HVAC	Roof HVA	5ft²	N	N
	34 ~~-32~~	↓				
	~~35~~ -33	↓				

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2251463

FIELD BULK SAMPLE LIST

CLIENT: LCUSD
PROJECT NO.: LCSD-22-11189
PROJECT NAME: Paradise Canyon Bldg I

Technician: Jorge Robles
Date: _____
Page: ___of___

MATERIAL	SAMPLE #	SAMPLE LOCATION	MATERIAL LOCATION	EST. QTY.	F	D
2x4' Fissured ceiling panel	W-01	Rm 13, W Ctr	Rm's 13, 14, 15, 16	3500ft²	Y	N
	-02	Rm 14, SW				
	-03	Rm 15, SW				
Drywall	-04	Rm 13, E Ctr	Interior walls throughout	3500ft²	N	N
	-05	Rm 14, SE				
	-06	Rm 15, SE				
Drywall Mud	-07	Rm 13, E Ctr	Interior walls throughout	3500ft²	N	N
	-08	Rm 14, SE				
	-09	Rm 15, SE				
	-10	Rm 15, SW				
	-11	Rm 16, SW				
~~Carpet glue~~ 12" Beige F.T.	-12	Rm 16, Ctr	Flooring, Carpet on top of Beige F.T.	3500ft²	N	N
	-13	Rm 15, N Ctr				
w/ Black mastic & carpet glue	-14	Rm 14, N Ctr				
4" Green coveburse w/ glue	-15	Rm 14, NW	Rm's 16, 15, 14, 13	800LnFt	N	N
	-16	Rm 13, NW				
	-17	Rm 15, SW				

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FIELD BULK SAMPLE LIST

CLIENT: LCUSD
PROJECT NO.: LCSO-22-11159
PROJECT NAME: Paradise Canyon Bldg I

Technician: Jorge Robles
Date:
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MATERIAL	SAMPLE #	SAMPLE LOCATION	MATERIAL LOCATION	EST. QTY.	F	D
Black barrier paper	W-18	Rm 13, W Ctr	Interior wall cavities	3500ft²	N	N
	-19	Rm 14, SW				
	-20	Rm 15, SW				
Roof core Felt	-21	Roof, NW	Roofing	3500ft²	N	N
	-22	↓, SW				
	-23	↓, SE				
Black penetration Roof mastic	-24	Roof, NW	4 pens.	4ft²	N	N
	-25	↓, S Ctr				
	-26	↓, SE				
Grey duct sealant	-27	Roof at HVAC	Roof Duct/HVAC	20ft²	N	N
	-28	↓				
	-29	↓				

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ALTA ENVIRONMENTAL

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FIELD BULK SAMPLE LIST

CLIENT: LCUSD
PROJECT NO.: LCSD-22-11189
PROJECT NAME: Paradise Canyon Bldg G

Technician: Jorge Robles
Date:
Page: ___of___

MATERIAL	SAMPLE #	SAMPLE LOCATION	MATERIAL LOCATION	EST. QTY.	F	D
12" White w/ Blue specks F.T. w/ mastic	R-01	Rm 17, by sink	Rm 17, 18 by sink	270ft²	N	N
	-02	Rm 17, NE				
	-03	Rm 18, by sink				
carpet glue w/ residual black mastic	-04	Rm 18, NW	Rms ~~17~~, 18	1600ft²	N	N
	-05	Rm 18, W ctr				
	-06	Rm 18, S ctr				
4" Green covebase w/glue	-07	Rm 17, NE	Interior walls throughout	400lnft	N	N
	-08	Rm 17, SE				
	-09	Rm 18, SE				
12" Fissured C.T. ~~w/ mastic~~	-10	Rm 17, N ctr	Nailed on to ceiling throughout	~~1800ft²~~	N	N
	-11	Rm 17, S ctr				
	-12	Rm 18, S ctr				
Window putty	-13	Rm 18 window	Exterior windows	50ft²	N	N
	-14	Rm 17, SW				
	-15	Rm 17, SE				

* transite pipe in attic space

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FIELD BULK SAMPLE LIST

CLIENT: LCUSD
PROJECT NO.: LCSO-22-11184
PROJECT NAME: Paradise Canyon Bldg G

Technician: Jorge Robles
Date:
Page: ___of___

MATERIAL	SAMPLE #	SAMPLE LOCATION	MATERIAL LOCATION	EST. QTY.	F	D
Exterior Brick	R-16	Exterior, NW	Exterior walls			
	-17	, W Ctr		1800ft²	N	N
	-18	, SW				
	-19	, S Ctr				
	-20	, SE				
Brick Mortar	-21	Exterior, NW	Exterior walls			
	-22	, W Ctr		1800ft²	N	N
	-23	, SW				
	-24	, S Ctr				
	-25	, SE				
Roofing debris	-26	Attic Rm 17, Ctr	Attic space Rm's 17, 18			
	-27	↓		1800ft²	N	N
	-28	Attic Rm 18, Ctr				
9" Beige F.T. w/ Black mastic	-29	Rm 17, NW	Under carpet and white F.T. at Rm 17			
	-30	, SW		900ft²	N	N
	-31	, S Ctr				
Black Barrier paper	-32	Rm 17	Wall cavities			
	-33	Rm 18				
	-34	Rm 18	* wood walls (interior)			

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FIELD BULK SAMPLE LIST

CLIENT: LCUSD
PROJECT NO.: LCSD-22-11184
PROJECT NAME: Paradise Canyon Bldg G

Technician: Jorge Rosales
Date:
Page: ___of___

MATERIAL	SAMPLE #	SAMPLE LOCATION	MATERIAL LOCATION	EST. QTY.	F	D
Roof core	R-35	Roof, W Ctr	Roof	15 of 42	N	N
	-36	↓, NE				
	-37	↓, SE				
White Duct sealant	-38	Roof at HVAC	Roof HVAC	10 of 42	N	N
	-39	↓				
	-40	↓				

ENVIRONMENTAL LABORATORIES LLC

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Alta Environmental
3777 Long Beach Blvd.
Long Beach CA 90807
Attn.: Jim Byers

Report Number 2251364

Project Number LCSD-22-11189
Project Name Paradise Canyon E.S. Hazmat
Location
PO Number
WO Number

Date Received 10/31/2022
Date Analyzed 11/07/2022
Date Reported 11/07/2022

Date Sampled 10/28/2022
Sampled By Tom Jenkins
Total Samples 26

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251364-001	South of Room 4					
1-1	Asphalt patch, Black, Homogeneous	LAYER 1			None Detected	
		100%	Bituminous Matrix	5%		
			Mineral Aggregate/Filler	95%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-002	Southeast of Room 6					
1-2	Asphalt patch, Black, Homogeneous	LAYER 1			None Detected	
		100%	Bituminous Matrix	5%		
			Mineral Aggregate/Filler	95%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-003	South of Room 30					
1-3	Asphalt patch, Black, Homogeneous	LAYER 1	Cellulose Fiber	<1%	None Detected	
		100%	Bituminous Matrix	5%		
			Mineral Aggregate/Filler	95%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-004	Ramp of Room 6					
2-1	Concrete, Gray, Homogeneous	LAYER 1			None Detected	
		100%	Quartz	65%		
			Mineral Binders/Filler	35%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-005	Ramp of Room 5					
2-2	Concrete, Gray, Homogeneous	LAYER 1			None Detected	
		100%	Quartz	70%		
			Mineral Binders/Filler	30%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-006	Stairs of Room 6- South					
2-3	Concrete, Gray, Homogeneous	LAYER 1			None Detected	
		100%	Quartz	70%		
			Mineral Binders/Filler	30%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Alta Environmental
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Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251364-007	Ramp of Room 6					
2-4	Concrete, Gray, Homogeneous	LAYER 1			None Detected	
		100%	Quartz	65%		
			Mineral Binders/Filler	35%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-008	Ramp of Room 19					
2-5	Concrete, Gray, Homogeneous	LAYER 1			None Detected	
		100%	Quartz	65%		
			Mineral Binders/Filler	35%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-009	Concrete Pad South of Room 29 (923)					
2-6	Concrete, Gray, Homogeneous	LAYER 1			None Detected	
		100%	Quartz	65%		
			Mineral Binders/Filler	35%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-010	Ramp of Room 35					
2-7	Concrete, Gray, Homogeneous	LAYER 1			None Detected	
		100%	Quartz	65%		
			Mineral Binders/Filler	35%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-011	East of Room 4					
3-1	Asphalt (general), Black, Homogeneous	LAYER 1			None Detected	
		100%	Bituminous Matrix	5%		
			Mineral Aggregate/Filler	95%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-012	East of Room 4- South					
3-2	Asphalt (general), Black, Homogeneous	LAYER 1			None Detected	
		100%	Bituminous Matrix	5%		
			Mineral Aggregate/Filler	95%		
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Sampled By Tom Jenkins
Total Samples 26

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251364-013	East of Room 5					
3-3	Asphalt (general), Black, Homogeneous	LAYER 1 100%	Bituminous Matrix Mineral Aggregate/Filler	5% 95%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-014	Southeast of Room 6					
3-4	Asphalt (general), Black, Homogeneous	LAYER 1 100%	Bituminous Matrix Mineral Aggregate/Filler	5% 95%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-015	South of Room 30					
3-5	Asphalt (general), Black, Homogeneous	LAYER 1 100%	Bituminous Matrix Mineral Aggregate/Filler	5% 95%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-016	Southwest corner of Room 33					
3-6	Asphalt (general), Black, Homogeneous	LAYER 1 100%	Bituminous Matrix Mineral Aggregate/Filler	5% 95%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-017	South of Room 31					
3-7	Asphalt (general), Black, Homogeneous	LAYER 1 100%	Bituminous Matrix Mineral Aggregate/Filler	5% 95%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-018	East of Room 4					
4-1	Asphalt (utility line), Black, Homogeneous	LAYER 1 100%	Bituminous Matrix Mineral Aggregate/Filler	8% 92%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Project Number LCSD-22-11189
Project Name Paradise Canyon E.S. Hazmat
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Date Received 10/31/2022
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Date Sampled 10/28/2022
Sampled By Tom Jenkins
Total Samples 26

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID Sample No.	Sample Location Description	Layer No. Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251364-019	East of Room 5					
4-2	Asphalt (utility line), Black, Homogeneous	LAYER 1 100%	 Bituminous Matrix Mineral Aggregate/Filler	 8% 92%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-020	Southwest of Room 19					
4-3	Asphalt (utility line), Black, Homogeneous	LAYER 1 100%	 Bituminous Matrix Mineral Aggregate/Filler	 8% 92%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-021	South of Room 32- East					
5-1	Asphalt (dark), Black, Homogeneous	LAYER 1 100%	 Bituminous Matrix Mineral Aggregate/Filler	 10% 90%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-022	South of Room 32- Middle					
5-2	Asphalt (dark), Black, Homogeneous	LAYER 1 100%	 Bituminous Matrix Mineral Aggregate/Filler	 8% 92%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-023	South of Room 32- West					
5-3	Asphalt (dark), Black, Homogeneous	LAYER 1 100%	 Bituminous Matrix Mineral Aggregate/Filler	 10% 90%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-024	South of Room 32- base of hand rail					
6-1	Sealant/Filler, Black, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Quartz Bituminous Matrix/Filler	5% 20% 75%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

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Sampled By Tom Jenkins
Total Samples 26

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251364-025	South of Room 33- base of hand rail					
6-2	Sealant/Filler, Black, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Quartz Bituminous Matrix/Filler	5% 20% 75%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**
2251364-026	South of Room 35- base of hand rail					
6-3	Sealant/Filler, Black, Non-homogeneous	LAYER 1 100%	Cellulose Fiber Quartz Bituminous Matrix/Filler	5% 20% 75%	None Detected	
	Asbestos Present: No		Total % Non-Asbestos:	100.0%	**Total %Asbestos:**	**No Asbestos Detected**

Method Detection Limit: Less than one percent (<1%). Asbestos content has been determined using calibrated visual estimation (CVES). Samples tested were received in acceptable condition unless otherwise stated. Test report relates only to items tested. Non-homogeneous samples containing discrete and separable layers are analyzed and reported separately; composite results may be reported upon customer's request. Non-homogeneous samples with inseparable layers are analyzed and reported as composite samples. Due to the limitations of Polarized Light Microscopy, samples reported as None Detected or with low asbestos concentrations may not be reliable and further analysis such as TEM is recommended to confirm PLM results. This report shall not be reproduced except in full without the written approval of this laboratory. This report may not be used by the customer to claim product certification, endorsement, or approval by NIST/NVLAP or any agency of the government. Samples shall be disposed according to local, state and federal laws, 30 days after results are reported unless otherwise instructed.

CA-ELAP #2823

Analyst - Fred Chappelear

Approved Signatory Cristina E. Tabatt

NVLAP TESTING
NVLAP Lab Code 500044-0

CHAIN OF CUSTODY

AQ ENVIRONMENTAL LABORATORIES

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(Lab) Order No. 2251364

CUSTOMER INFORMATION	
Company	NV5 / Alta Environmental
Address	3777 Long Beach Boulevard
City/State/Zip	Long Beach, CA 90807
Contact	Jim Byers
Office Phone	562/ 495-5777
Cell	562-477-0935
Fax	562/ 495-5877
Email	Jim.Byers@NV5.com Therese.Rivarri@NV5.com

Turnaround Time		Shipped By		Report Send Via:	
Same Day	☐	Fedex	☐	Web	☐
1 Day		UPS	☐	Email	X
2 Day	☐	USPS	☐	Fax	☐
3 Day	X	Drop Off	X	Verbal	☐
5 Day	☐	Drop Box	☐	Mail	☐
Weekend	☐	Other	☐	Pick up	☐

Special Instructions:

PROJECT INFORMATION

Project Name:	Paradise Canyon E.S. Hazmat	PO Number:	
Project Number:	LCSD-22-11189	Work Order No.:	
Location:		Sampled By:	Tom Jenkins, CSST

PLM		PCM		MOLD		LEAD (Pb)			
PLM EPA 600/M4-82-020	X	NIOSH 7400A	☐	Spore Trap	☐	Air	☐	TTLC	☐
PLM 400 Pt. Count (<0.25%)	☐	NIOSH 7400B	☐	Tape Lift	☐	Paint	☐		
PLM 1000 Pt. Count (<0.1%)	☐	w/ TWA	☐	Bulk Sample	☐	Wipe	☐		
						Soil	☐		

SAMPLE ID	SAMPLE TYPE	LOCATION	Date Sampled	Start Time / Stop Time	Avg Flow Rate	Volume (sf)
1-1	Asphalt patch	South of Room 4	10/28/2022	----- / -----	-----	~100 SF
1-2	"	Southeast of Room 6	"	----- / -----	-----	"
1-3	"	South of Room 30	"	----- / -----	-----	"
2-1	Concrete	Ramp of Room 6	"	----- / -----	-----	~5000 SF
2-2	"	Ramp of Room 5	"	----- / -----	-----	"
2-3	"	Stairs of Room 6 - South	"	----- / -----	-----	"
2-4	"	Ramp of Room 6	"	----- / -----	-----	"
2-5	"	Ramp of Room 19	"	----- / -----	-----	"
2-6	"	Concrete pad south of Room 29 (923)	"	----- / -----	-----	"
2-7	"	Ramp of Room 35	"	----- / -----	-----	"

Relinquished By:	Tom Jenkins, CSST Tom Jenkins	Received By:	Jusme Pablo
Date/Time:	10/30/2022	Date/Time:	10/31/2022 0800

Lab Forms
Ver. 082411

CHAIN OF CUSTODY

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ENVIRONMENTAL LABORATORIES

Company: NV5 / Alta Environmental
Project Number: LCSD-22-11189
Project Name: Paradise Canyon E.S. Hazmat

Analysis:
TAT:
(Lab) Order No. 2251364

SAMPLE ID	SAMPLE TYPE	LOCATION	Date Sampled	Start Time / Stop Time	Avg Flow Rate	Volume (sf)
3-1	Asphalt (general)	East of Room 4	10/28/2022	----- / -----	-----	~7500 SF
3-2	"	East of Room 4 - South	"	----- / -----	-----	"
3-3	"	East of Room 5	"	----- / -----	-----	"
3-4	"	Southeast of Room 6	"	----- / -----	-----	"
3-5	"	South of Room 30	"	----- / -----	-----	"
3-6	"	Southwest corner of Room 33	"	----- / -----	-----	"
3-7	"	South of Room 31	"	----- / -----	-----	"
4-1	Asphalt (utility line)	East of Room 4	"	----- / -----	-----	~500 SF
4-2	"	East of Room 5	"	----- / -----	-----	"
4-3	"	Southwest of Room 19	"	----- / -----	-----	"
5-1	Asphalt (dark)	South of Room 32 - East	"	----- / -----	-----	~30 SF
5-2	"	South of Room 32 - Middle	"	----- / -----	-----	"
5-3	"	South of Room 32 - West	"	----- / -----	-----	"
6-1	Black sealant/filler	South of Room 32 - base of hand rail	"	----- / -----	-----	~10 SF
6-2	"	South of Room 33 - base of hand rail	"	----- / -----	-----	"
6-3	"	South of Room 35 - base of hand rail	"	----- / -----	-----	"
				----- / -----	-----	
				----- / -----	-----	
				----- / -----	-----	
				----- / -----	-----	

Relinquished By: Tom Jenkins, CSST Tom J
Date/Time: 10/30/22

Received By: Justine Pablo Justine Pablo
Date/Time: 10/31/2022 0800

Lab Forms
Ver. 082411

NV5
ALTA ENVIRONMENTAL

FIELD BULK SAMPLE LIST

2251364

Tom

Client: LaCanada-Flintridge School District	Technician: Tom Jenkins, CSST, CDPH
Project Number: LCSD-22-11189	10/28/2022
Project Name: Paradise Canyon E.S. Hazmat	Page ___ of ___

Material	Sample #	Sample Location	Material Location	Est Qty	F	D
Asphalt patch	1-1	South of Room 4	Outside classrooms	~100 SF	N	N
	1-2	Southeast of Room 6				
	1-3	South of Room 30				
Concete	2-1	Ramp of Room 6	Ramps and pads outside classrooms	~5000 SF	N	N
	2-2	Ramp of Room 5				
	2-3	Stairs of Room 6 - South				
	2-4	Ramp of Room 6				
	2-5	Ramp of Room 19				
	2-6	Concrete pad south of Room 29 (923)				
	2-7	Ramp of Room 35				
Asphalt (general)	3-1	East of Room 4	Throughout area except for asphalt patch, asphalt utility line, & asphalt (dark)	~7500 SF	N	N
	3-2	East of Room 4 - South				
	3-3	East of Room 5				
	3-4	Southeast of Room 6				
	3-5	South of Room 30				

Received by: Justine Pablo 10/31/2022 0800

NV5
ALTA ENVIRONMENTAL

FIELD BULK SAMPLE LIST

2251364

Client: LaCanada-Flintridge School District			Technician: Tom Jenkins, CSST, CDPH			
	3-6	Southwest corner of Room 33				
	3-7	South of Room 31				
Asphalt (utility line)	4-1	East of Room 4	Along east edge of west classroom and south of clasrooms to north edge	~500 SF	N	N
	4-2	East of Room 5				
	4-3	Southwest of Room 19				
Asphalt (dark)	5-1	South of Room 32 - East	South of Room 32	~ 30 SF	N	N
	5-2	South of Room 32 - Middle				
	5-3	South of Room 32 - West				
Black sealant / filler	6-1	South of Room 32 - base of hand rail	Base of handrail at classrooms at northeast area	~10 SF	N	N
	6-2	South of Room 33 - base of hand rail				
	6-3	South of Room 35 - base of hand rail				

NV5

ALTA ENVIRONMENTAL

Scale None

Sheet 1 of 1

Project Name Paradise Canyon E.S. Hazmat

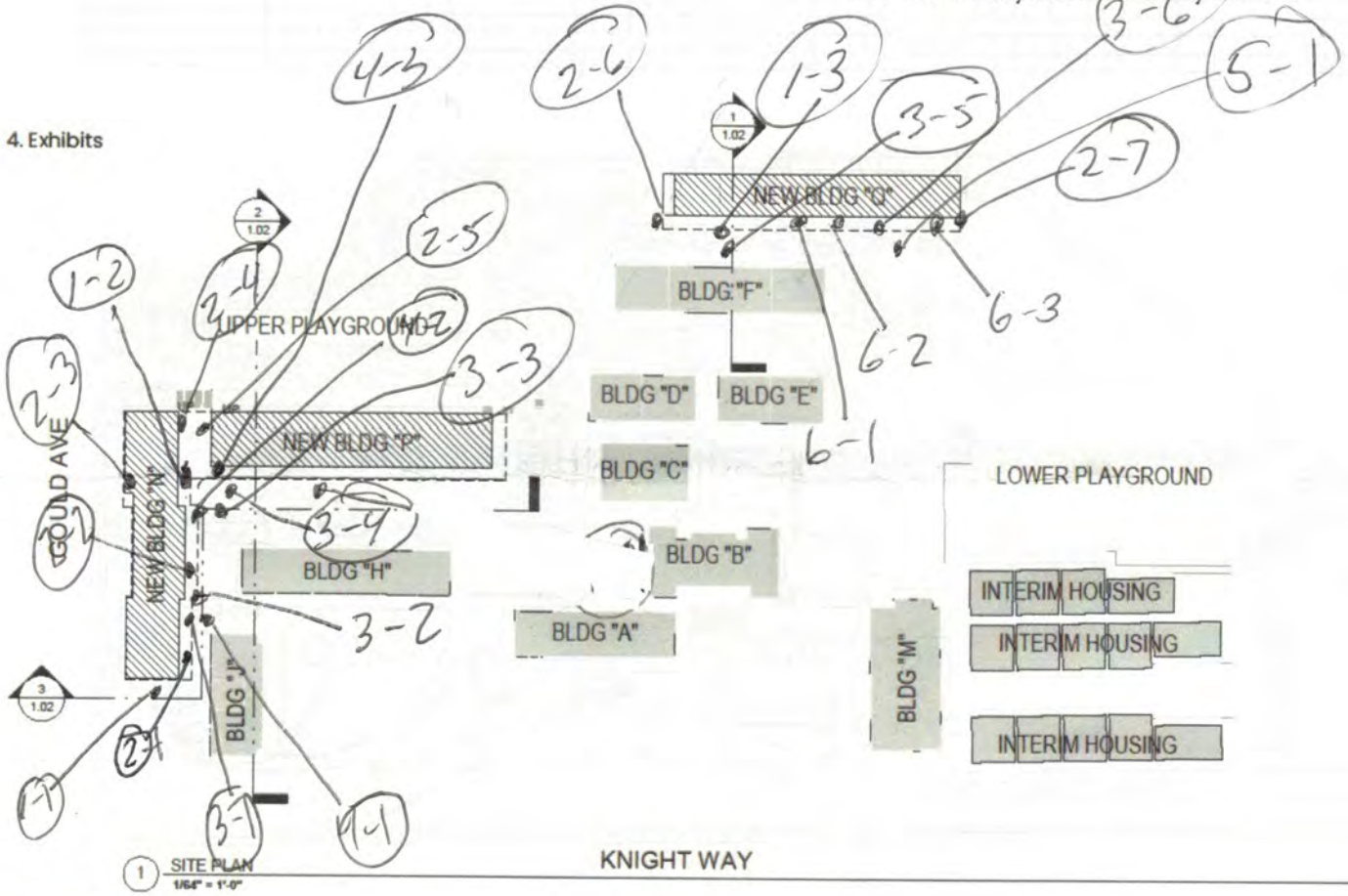
Project No./Task No. LCSD-22-11189

Calculated by _____ Date _____

Checked by _____ Date _____

Samples by Tom Jenkins, CSST
10/28/2022
Paradise Canyon Elementary School

4. Exhibits



1 SITE PLAN
1/64" = 1'-0"

PARADISE CANYON ES MODERNIZATION
LCUSD
April 29, 2022

1.01
SITE PLAN

Tom Jenkins, CSST
10/28/22

Received by: Justine Pabro
10/31/2022 0800

Please Reply To:

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

LABORATORY ELECTRONIC TRANSMITTAL

To: Project Manager
NV5, Inc.
Fax #:

Email: diane.arredondo@nv5.com, Therese.Rizarri@nv5.com, Jim.Byers@nv5.com

From: Megan A DeLara
AmeriSci Job #: 922111347
Subject: PLM 5 day Results
Client Project: LCSD-22-11189; Paradise Canyon ES

Date: Monday, December 5, 2022
Time: 11:34:03
Comments:

Number of Pages: _____
(including cover sheet)

NOTE: Attached report is to be considered preliminary until final review with accompanying analysis summary letter is issued.

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AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

NV5, Inc.
Attn: Project Manager
3777 Long Beach Blvd.
Annex Building
Long Beach, CA 90807-3335

Date Received 11/29/22
Date Examined 11/29/22

AmeriSci Job # 922111347
P.O. #
Page 1 **of** 22

RE: LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
A-1	922111347-01	***No***	NAD (by CVES) by Megan A DeLara on 11/29/22
Location: 2 x 4' Fissured Ceiling Panel			
Analyst Description: Beige/White, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 60%, Fibrous glass 7%, Non-fibrous 33%			
A-2	922111347-02	***No***	NAD (by CVES) by Megan A DeLara on 11/29/22
Location: 2 x 4' Fissured Ceiling Panel			
Analyst Description: Beige/White, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 60%, Fibrous glass 7%, Non-fibrous 33%			
A-3	922111347-03	***No***	NAD (by CVES) by Megan A DeLara on 11/29/22
Location: 2 x 4' Fissured Ceiling Panel			
Analyst Description: Beige/White, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 60%, Fibrous glass 7%, Non-fibrous 33%			
A-4	922111347-04	***No***	NAD (by CVES) by Megan A DeLara on 11/29/22
Location: 12" Fissured Ceiling Tile			
Analyst Description: Tan/White, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 85%, Non-fibrous 15%			
A-5	922111347-05	***No***	NAD (by CVES) by Megan A DeLara on 11/29/22
Location: 12" Fissured Ceiling Tile			
Analyst Description: Tan/White, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 85%, Non-fibrous 15%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
A-6	922111347-06	***No***	NAD
Location: 12" Fissured Ceiling Tile			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: Tan/White, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 85%, Non-fibrous 15%			
A-7	922111347-07	***Yes***	22%
Location: Beige Ceiling Insulation			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: Gray, Homogeneous, Fibrous, Insulation **Asbestos Types:** Chrysotile 10.0 %, Amosite 12.0 % **Other Material:** Non-fibrous 78%			
A-8	922111347-08	***Yes***	22%
Location: Beige Ceiling Insulation			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: Gray, Homogeneous, Fibrous, Insulation **Asbestos Types:** Chrysotile 10.0 %, Amosite 12.0 % **Other Material:** Non-fibrous 78%			
A-9	922111347-09	***Yes***	22%
Location: Beige Ceiling Insulation			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: Gray, Homogeneous, Fibrous, Insulation **Asbestos Types:** Chrysotile 10.0 %, Amosite 12.0 % **Other Material:** Non-fibrous 78%			
A-10	922111347-10L1	***No***	NAD
Location: 4" Green Cove Base w/ Glue			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-10	922111347-10L2	***No***	NAD
Location: 4" Green Cove Base w/ Glue			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: Cream, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
A-11	922111347-11L1	***No***	NAD (by CVES) by Megan A DeLara on 11/29/22
Location: 4" Green Cove Base w/ Glue			
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-11	922111347-11L2	***No***	NAD (by CVES) by Megan A DeLara on 11/29/22
Location: 4" Green Cove Base w/ Glue			
Analyst Description: Cream, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-12	922111347-12L1	***No***	NAD (by CVES) by Megan A DeLara on 11/29/22
Location: 4" Green Cove Base w/ Glue			
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-12	922111347-12L2	***No***	NAD (by CVES) by Megan A DeLara on 11/29/22
Location: 4" Green Cove Base w/ Glue			
Analyst Description: Cream, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-13	922111347-13	***No***	NAD (by CVES) by Megan A DeLara on 11/29/22
Location: Carpet Glue			
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-14	922111347-14	***No***	NAD (by CVES) by Megan A DeLara on 11/29/22
Location: Carpet Glue			
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
A-15	922111347-15	***No***	NAD
Location: Carpet Glue			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-16	922111347-16L1	***No***	NAD
Location: 12" White w/Blue Specks Floor Tile w/Mastic			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-16	922111347-16L2	***No***	NAD
Location: 12" White w/Blue Specks Floor Tile w/Mastic			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-16	922111347-16L3	***Yes***	4%
Location: 12" White w/Blue Specks Floor Tile w/Mastic			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: Beige, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile 4.0 % **Other Material:** Non-fibrous 96%			
A-16	922111347-16L4	***Yes***	5%
Location: 12" White w/Blue Specks Floor Tile w/Mastic			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** Chrysotile 5.0 % **Other Material:** Non-fibrous 95%			
A-17	922111347-17L1	***No***	NAD
Location: 12" White w/Blue Specks Floor Tile w/Mastic			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
A-17	922111347-17L2	***No***	NAD
Location: 12" White w/Blue Specks Floor Tile w/Mastic			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-17	922111347-17L3	***Yes***	4%
Location: 12" White w/Blue Specks Floor Tile w/Mastic			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: Beige, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile 4.0 % **Other Material:** Non-fibrous 96%			
A-17	922111347-17L4	***Yes***	5%
Location: 12" White w/Blue Specks Floor Tile w/Mastic			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** Chrysotile 5.0 % **Other Material:** Non-fibrous 95%			
A-18	922111347-18L1	***No***	NAD
Location: 12" White w/Blue Specks Floor Tile w/Mastic			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-18	922111347-18L2	***No***	NAD
Location: 12" White w/Blue Specks Floor Tile w/Mastic			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-18	922111347-18L3	***Yes***	4%
Location: 12" White w/Blue Specks Floor Tile w/Mastic			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: Beige, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile 4.0 % **Other Material:** Non-fibrous 96%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
A-18	922111347-18L4	***Yes***	5%
Location: 12" White w/Blue Specks Floor Tile w/Mastic			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic			
Asbestos Types: Chrysotile 5.0 %			
Other Material: Non-fibrous 95%			
A-19	922111347-19	***No***	NAD
Location: 12" Acoustic Wall Tile			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: Brown, Homogeneous, Non-Fibrous, Wall Tile			
Asbestos Types:			
Other Material: Non-fibrous 100%			
A-20	922111347-20	***No***	NAD
Location: 12" Acoustic Wall Tile			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: Brown, Homogeneous, Non-Fibrous, Wall Tile			
Asbestos Types:			
Other Material: Non-fibrous 100%			
A-21	922111347-21	***No***	NAD
Location: 12" Acoustic Wall Tile			(by CVES) by Megan A DeLara on 11/29/22
Analyst Description: Brown, Homogeneous, Non-Fibrous, Wall Tile			
Asbestos Types:			
Other Material: Non-fibrous 100%			
A-22	922111347-22	***Yes***	2%
Location: Window Putty			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Beige, Homogeneous, Non-Fibrous, Putty			
Asbestos Types: Chrysotile 2.0 %			
Other Material: Non-fibrous 98%			
A-23	922111347-23	***Yes***	2%
Location: Window Putty			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Beige, Homogeneous, Non-Fibrous, Putty			
Asbestos Types: Chrysotile 2.0 %			
Other Material: Non-fibrous 98%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
A-24	922111347-24	***Yes***	2% (by CVES) by Megan A DeLara on 11/30/22
Location: Window Putty			
Analyst Description: Beige, Homogeneous, Non-Fibrous, Putty **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98%			
A-25	922111347-25L1	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: 12" Beige Floor Tile w/ Mastic			
Analyst Description: White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-25	922111347-25L2	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: 12" Beige Floor Tile w/ Mastic			
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-25	922111347-25L3	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: 12" Beige Floor Tile w/ Mastic			
Analyst Description: Gray, Homogeneous, Non-Fibrous, Leveling Compound **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-25	922111347-25L4	***Yes***	4% (by CVES) by Megan A DeLara on 11/30/22
Location: 12" Beige Floor Tile w/ Mastic			
Analyst Description: Beige, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile 4.0 % **Other Material:** Non-fibrous 96%			
A-25	922111347-25L5	***Yes***	5% (by CVES) by Megan A DeLara on 11/30/22
Location: 12" Beige Floor Tile w/ Mastic			
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** Chrysotile 5.0 % **Other Material:** Non-fibrous 95%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
A-26	922111347-26L1	***No***	NAD
Location: 12" Beige Floor Tile w/ Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-26	922111347-26L2	***No***	NAD
Location: 12" Beige Floor Tile w/ Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-26	922111347-26L3	***No***	NAD
Location: 12" Beige Floor Tile w/ Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Gray, Homogeneous, Non-Fibrous, Leveling Compound **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-26	922111347-26L4	***Yes***	4%
Location: 12" Beige Floor Tile w/ Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Beige, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile 4.0 % **Other Material:** Non-fibrous 96%			
A-26	922111347-26L5	***Yes***	5%
Location: 12" Beige Floor Tile w/ Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** Chrysotile 5.0 % **Other Material:** Non-fibrous 95%			
A-27	922111347-27L1	***No***	NAD
Location: 12" Beige Floor Tile w/ Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
A-27	922111347-27L2	***No***	NAD
Location: 12" Beige Floor Tile w/ Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-27	922111347-27L3	***No***	NAD
Location: 12" Beige Floor Tile w/ Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Gray, Homogeneous, Non-Fibrous, Leveling Compound **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-27	922111347-27L4	***Yes***	5%
Location: 12" Beige Floor Tile w/ Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Beige, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile 5.0 % **Other Material:** Non-fibrous 95%			
A-27	922111347-27L5	***Yes***	5%
Location: 12" Beige Floor Tile w/ Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** Chrysotile 5.0 % **Other Material:** Non-fibrous 95%			
A-28	922111347-28L1	***No***	NAD
Location: 4" Dark Green Cove Base w/ Glue			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-28	922111347-28L2	***No***	NAD
Location: 4" Dark Green Cove Base w/ Glue			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Cream, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
A-29	922111347-29L1	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: 4" Dark Green Cove Base w/ Glue			
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-29	922111347-29L2	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: 4" Dark Green Cove Base w/ Glue			
Analyst Description: Cream, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-30	922111347-30L1	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: 4" Dark Green Cove Base w/ Glue			
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-30	922111347-30L2	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: 4" Dark Green Cove Base w/ Glue			
Analyst Description: Cream, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-31	922111347-31	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: Drywall			
Analyst Description: White, Homogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 5%, Non-fibrous 95%			
A-32	922111347-32	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: Drywall			
Analyst Description: White, Homogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 5%, Non-fibrous 95%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
A-33	922111347-33	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: Drywall			
Analyst Description: White, Homogeneous, Fibrous, Drywall			
Asbestos Types:			
Other Material: Cellulose 5%, Non-fibrous 95%			
A-34	922111347-34	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: Drywall Mud			
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Texture			
Asbestos Types:			
Other Material: Non-fibrous 100%			
Comment: No drywall present.			
A-35	922111347-35	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: Drywall Mud			
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Texture			
Asbestos Types:			
Other Material: Non-fibrous 100%			
Comment: No drywall present.			
A-36	922111347-36	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: Drywall Mud			
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Texture			
Asbestos Types:			
Other Material: Non-fibrous 100%			
Comment: No drywall present.			
A-37	922111347-37	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: Smooth Plaster			
Analyst Description: Beige, Homogeneous, Non-Fibrous, Cementitious, Plaster			
Asbestos Types:			
Other Material: Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
A-38	922111347-38	***No***	NAD
Location: Smooth Plaster			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Beige, Homogeneous, Non-Fibrous, Cementitious, Plaster			
Asbestos Types:			
Other Material: Non-fibrous 100%			
A-39	922111347-39	***No***	NAD
Location: Smooth Plaster			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Beige, Homogeneous, Non-Fibrous, Cementitious, Plaster			
Asbestos Types:			
Other Material: Non-fibrous 100%			
A-40	922111347-40	***Yes***	5%
Location: Gypsum Ceiling			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Beige, Homogeneous, Fibrous, Ceiling Material			
Asbestos Types: Chrysotile 3.0 %, Amosite 2.0 %			
Other Material: Non-fibrous 95%			
A-41	922111347-41	***Yes***	6%
Location: Gypsum Ceiling			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Beige, Homogeneous, Fibrous, Ceiling Material			
Asbestos Types: Chrysotile 2.0 %, Amosite 4.0 %			
Other Material: Non-fibrous 94%			
A-42	922111347-42	***Yes***	5%
Location: Gypsum Ceiling			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Beige, Homogeneous, Fibrous, Ceiling Material			
Asbestos Types: Chrysotile 2.0 %, Amosite 3.0 %			
Other Material: Non-fibrous 95%			
D-01	922111347-43L1	***No***	NAD
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/ Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: White, Homogeneous, Non-Fibrous, Floor Tile			
Asbestos Types:			
Other Material: Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D-01	922111347-43L2	***Yes***	Trace (<1 %)[1]
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/ Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Yellow/Black, Heterogeneous, Non-Fibrous, Glue/Mastic **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			
D-01	922111347-43L3	***Yes***	2%
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/ Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Beige, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98%			
D-01	922111347-43L4	***Yes***	3%
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/ Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** Chrysotile 3.0 % **Other Material:** Non-fibrous 97%			
D-02	922111347-44L1	***No***	NAD
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/ Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
D-02	922111347-44L2	***No***	NAD[2]
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/ Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Yellow/Gray, Heterogeneous, Non-Fibrous, Glue & Leveling Compound **Asbestos Types:** **Other Material:** Non-fibrous 100%			
D-02	922111347-44L3	***No***	NAD
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/ Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D-02	922111347-44L4	***Yes***	3%
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/ Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** Chrysotile 3.0 % **Other Material:** Non-fibrous 97%			
D-03	922111347-45L1	***No***	NAD
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/ Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
D-03	922111347-45L2	***No***	NAD
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/ Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
D-03	922111347-45L3	***No***	NAD
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/ Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
D-03	922111347-45L4	***Yes***	3%
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/ Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** Chrysotile 3.0 % **Other Material:** Non-fibrous 97%			
D-04	922111347-46L1	***No***	NAD
Location: 4" Green Cove Base w/ Glue			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D-04	922111347-46L2	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: 4" Green Cove Base w/ Glue			
Analyst Description: Beige, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
D-05	922111347-47L1	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: 4" Green Cove Base w/ Glue			
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
D-05	922111347-47L2	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: 4" Green Cove Base w/ Glue			
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
D-06	922111347-48L1	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: 4" Green Cove Base w/ Glue			
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
D-06	922111347-48L2	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: 4" Green Cove Base w/ Glue			
Analyst Description: Beige, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
D-07	922111347-49L1	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: 12" Fissured Ceiling Tile			
Analyst Description: White/Tan, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 85%, Non-fibrous 15%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D-07	922111347-49L2	***Yes***	15%
Location: 12" Fissured Ceiling Tile			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Off-White, Homogeneous, Fibrous, Insulation **Asbestos Types:** Chrysotile 8.0 %, Amosite 7.0 % **Other Material:** Non-fibrous 85%			
D-08	922111347-50	***No***	NAD
Location: 12" Fissured Ceiling Tile			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: White/Tan, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 85%, Non-fibrous 15%			
D-09	922111347-51L1	***No***	NAD
Location: 12" Fissured Ceiling Tile			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: White/Tan, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 85%, Non-fibrous 15%			
D-09	922111347-51L2	***Yes***	10%
Location: 12" Fissured Ceiling Tile			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Off-White, Homogeneous, Fibrous, Insulation **Asbestos Types:** Chrysotile 10.0 % **Other Material:** Non-fibrous 90%			
D-13	922111347-52	***Yes***	Trace (<1 %)
Location: Window Putty			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Gray, Homogeneous, Non-Fibrous, Putty **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			
D-14	922111347-53	***Yes***	2%
Location: Window Putty			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Gray/Beige, Homogeneous, Non-Fibrous, Putty **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D-15	922111347-54	***Yes***	2%
Location: Window Putty			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Gray, Homogeneous, Non-Fibrous, Putty **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98%			
D-16	922111347-55	***Yes***	22%
Location: Ceiling Insulation			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Off-White, Homogeneous, Fibrous, Insulation **Asbestos Types:** Chrysotile 10.0 %, Amosite 12.0 % **Other Material:** Non-fibrous 78%			
D-17	922111347-56	***Yes***	22%
Location: Ceiling Insulation			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Off-White, Homogeneous, Fibrous, Insulation **Asbestos Types:** Chrysotile 10.0 %, Amosite 12.0 % **Other Material:** Non-fibrous 78%			
D-18	922111347-57	***Yes***	22%
Location: Ceiling Insulation			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Off-White, Homogeneous, Fibrous, Insulation **Asbestos Types:** Chrysotile 10.0 %, Amosite 12.0 % **Other Material:** Non-fibrous 78%			
E-01	922111347-58L1	***No***	NAD
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
E-01	922111347-58L2	***No***	NAD [2]
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Yellow/Gray, Heterogeneous, Non-Fibrous, Glue & Leveling Compound **Asbestos Types:** **Other Material:** Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
E-01	922111347-58L3	***Yes***	Trace (<1 %)
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			
E-01	922111347-58L4	***Yes***	3%
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** Chrysotile 3.0 % **Other Material:** Non-fibrous 97%			
E-02	922111347-59L1	***No***	NAD
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
E-02	922111347-59L2	***No***	NAD [2]
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Yellow/Gray, Heterogeneous, Non-Fibrous, Glue & Leveling Compound **Asbestos Types:** **Other Material:** Non-fibrous 100%			
E-02	922111347-59L3	***Yes***	Trace (<1 %)
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			
E-02	922111347-59L4	***Yes***	3%
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** Chrysotile 3.0 % **Other Material:** Non-fibrous 97%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
E-03	922111347-60L1	***No***	NAD
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
E-03	922111347-60L2	***No***	NAD [2]
Location: 12" White Floor Tile w/Glue & 9" Beige Floor Tile w/Black Mastic			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Yellow/Gray, Heterogeneous, Non-Fibrous, Glue & Leveling Compound **Asbestos Types:** **Other Material:** Non-fibrous 100%			
E-04	922111347-61	***Yes***	Trace (<1 %)
Location: Window Putty			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Gray, Homogeneous, Non-Fibrous, Putty **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			
E-05	922111347-62	***Yes***	2%
Location: Window Putty			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Gray/White, Homogeneous, Non-Fibrous, Putty **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98%			
E-06	922111347-63	***Yes***	Trace (<1 %)
Location: Window Putty			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Gray, Homogeneous, Non-Fibrous, Putty **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			
E-07	922111347-64	***No***	NAD
Location: 12" Fissured Ceiling Tile			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: White/Beige, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 60%, Fibrous glass 7%, Non-fibrous 33%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
E-08	922111347-65	***No***	NAD
Location: 12" Fissured Ceiling Tile			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: White/Beige, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 60%, Fibrous glass 7%, Non-fibrous 33%			
E-09	922111347-66	***No***	NAD
Location: 12" Fissured Ceiling Tile			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: White/Beige, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 60%, Fibrous glass 7%, Non-fibrous 33%			
E-10	922111347-67L1	***No***	NAD
Location: 4" Green Covebase w/ Glue			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
E-10	922111347-67L2	***No***	NAD
Location: 4" Green Covebase w/ Glue			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Cream, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
E-11	922111347-68L1	***No***	NAD
Location: 4" Green Covebase w/ Glue			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
E-11	922111347-68L2	***No***	NAD
Location: 4" Green Covebase w/ Glue			(by CVES) by Megan A DeLara on 11/30/22
Analyst Description: Cream, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
E-12	922111347-69L1	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: 4" Green Covebase w/ Glue			
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base			
Asbestos Types:			
Other Material: Non-fibrous 100%			
E-12	922111347-69L2	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: 4" Green Covebase w/ Glue			
Analyst Description: Cream, Homogeneous, Non-Fibrous, Glue			
Asbestos Types:			
Other Material: Non-fibrous 100%			
E-13	922111347-70	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: Carpet Glue			
Analyst Description: Yellow/Black, Homogeneous, Non-Fibrous, Carpet Glue			
Asbestos Types:			
Other Material: Non-fibrous 100%			
E-14	922111347-71	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: Carpet Glue			
Analyst Description: Yellow/Black, Homogeneous, Non-Fibrous, Carpet Glue			
Asbestos Types:			
Other Material: Non-fibrous 100%			
E-15	922111347-72	***No***	NAD (by CVES) by Megan A DeLara on 11/30/22
Location: Carpet Glue			
Analyst Description: Yellow/Black, Homogeneous, Non-Fibrous, Carpet Glue			
Asbestos Types:			
Other Material: Non-fibrous 100%			
E-03B	922111347-73L1	***No***	NAD [2] (by CVES) by Megan A DeLara on 11/30/22
Location: 9" Beige F.T. w/ Black Mastic			
Analyst Description: Yellow/Gray, Heterogeneous, Non-Fibrous, Glue & Leveling Compound			
Asbestos Types:			
Other Material: Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
E-03B	922111347-73L2	***Yes***	2% (by CVES) by Megan A DeLara on 11/30/22
Location: 9" Beige F.T. w/ Black Mastic			
Analyst Description: Beige, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98%			
E-03B	922111347-73L3	***Yes***	3% (by CVES) by Megan A DeLara on 11/30/22
Location: 9" Beige F.T. w/ Black Mastic			
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** Chrysotile 3.0 % **Other Material:** Non-fibrous 97%			

Reporting Notes:

(1) Trace amount of asbestos (<1%) suspected to be inseparable contamination from adjacent layer.

(2) Physically inseparable layers in sample. Sample composited for analysis.

Analyzed by: Megan A DeLara 
Date: 11/29/2022

Reviewed by: Patricia Weakley 

*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.

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Asbestos / Lead Analysis Chain of Custody

AMERISCI JOB #: 922111347

AMERISCI LOS ANGELES
24416 S Main St. Suite 308
Carson, CA 90745
Phone (310) 834-4868
Fax (310) 834-4772

COMPANY:	ADDRESS:	P.O.#:
NV5	3777 Long Beach Blvd, Long Beach CA 90807	

PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME						AIR FILTER INFORMATION:	
		RUSH	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Paradise canyon ~~Aerospace A6 Pods A + C~~ ES	TEM AHERA							MCE	
	PLM Bulk				X	X		PC	
JOB NUMBER: LCSO-22-11189 ~~AERO-22-11238~~	PCM Air			OR				25 mm	
	PLM 1000 P.C.	■						37 mm	
JOB MANAGER: ~~Tina Jordan~~ Jim Byers	Lead Air							0.45 um	
	Lead Wipe							0.80 um	
JOB DESCRIPTION:	Lead Paint / Soil							TEMP:	
	OTHER:							OTHER:	

INITIAL RESULTS DELIVERY: ☐ FAX ☒ EMAIL ☐ VERBAL ☐ MAIL ONLY	RETURN SAMPLES YES ☐
REPORTS TO: ~~Tina.Jordan@NV5.com~~ Jim.Byers@NV5.com	PHONE:
INVOICE TO:	FAX:
COMMENTS: 5 day TAT	EMAIL:
	CELL:

SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
A - 01	2x4' Fissured ceiling panel						11/21/22
-02	↓						
-03	↓						
-04	12" Fissured ceiling tile						
-05	↓						
-06	↓						
-07	Beige ceiling insulation						
-08	↓						
-09	↓						
-10	4" Green coveBase w/ glue						
-11	↓						
-12	↓						
-13	Carpet + glue						
-14	↓						
-15	↓						
-16	12" White w/ blue specks Floor tile						
-17	w/ mastic						
-18	↓						
-19	12" Acoustic wall tile						
-20	↓						

SAMPLED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Jorge Robles	11/21/22 1400		
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
	11/28/22 2200		
RELINQUISHED BY:	DATE/TIME:	RECEIVED IN LAB BY:	DATE/TIME:
		Glenda Wilson	11.29.22 8:10

AMERI SCI
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Asbestos / Lead Analysis Chain of Custody

AMERISCI JOB #: 922111347

AMERISCI LOS ANGELES
24416 S Main St. Suite 308
Carson, CA 90745
Phone (310) 834-4868
Fax (310) 834-4772

COMPANY:	ADDRESS:	P.O.#:
NV5	3777 Long Beach Blvd, Long Beach CA 90807	

PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME						AIR FILTER INFORMATION:	
		RUSH	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Paradise Canyon ES ~~Aerospace A6 Pods A + C~~	TEM AHERA							MCE	
	PLM Bulk				X	X		PC	
JOB NUMBER: LCSO-22-11185 ~~AERO-22-11238~~	PCM Air							25 mm	
	PLM 1000 P.C.	■						37 mm	
JOB MANAGER: ~~Tina Jordan~~ Jim Byers	Lead Air							0.45 um	
	Lead Wipe							0.80 um	
JOB DESCRIPTION:	Lead Paint / Soil							TEMP:	
	OTHER:							OTHER:	

INITIAL RESULTS DELIVERY: ☐ FAX ☒ EMAIL ☐ VERBAL ☐ MAIL ONLY	RETURN SAMPLES YES ☐
REPORTS TO: ~~Tina.Jordan@NV5.com~~ Jim.Byers@NV5.com	PHONE:
INVOICE TO:	FAX:
COMMENTS:	EMAIL:
	CELL:

SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
A-21	12" Acoustic wall tile						11/21/22
-22	Window putty						
-23	↓						
-24	↓						
-25	12" Beige Floor tile w/ mastic						
-26	↓						
-27	↓						
-28	4" Dark Green covebase w/ glue						
-29	↓						
-30	↓						
-31	Drywall						
-32	↓						
-33	↓						
-34	Drywall mud						
-35	↓						
-36	↓						
-37	Smooth plaster						
-38	↓						
-39	↓						
-40	Gypsum ceiling						

SAMPLED BY: Jorge Robles	DATE/TIME: 11/21/22 1410	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY:	DATE/TIME: 11/28/22 0200	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY:	DATE/TIME:	RECEIVED IN LAB BY: Glenda Luzon	DATE/TIME: 11.29.22 @ 810

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Asbestos / Lead Analysis Chain of Custody

AMERISCI JOB #: 92211347

AMERISCI LOS ANGELES
24416 S Main St. Suite 308
Carson, CA 90745
Phone (310) 834-4868
Fax (310) 834-4772

COMPANY:	ADDRESS:	P.O.#:
NV5	3777 Long Beach Blvd, Long Beach CA 90807	

PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME						AIR FILTER INFORMATION:	
		RUSH	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Paradise canyon ~~Aerospace A6 Pods A + C~~ ES	TEM AHERA							MCE	
	PLM Bulk				X	X		PC	
JOB NUMBER: LCSO-22-11189 ~~AERO-22-11238~~	PCM Air							25 mm	
	PLM 1000 P.C.	■						37 mm	
JOB MANAGER: ~~Tina Jordan~~ Jim Byers	Lead Air							0.45 um	
	Lead Wipe							0.80 um	
JOB DESCRIPTION:	Lead Paint / Soil							TEMP:	
	OTHER:							OTHER:	

INITIAL RESULTS DELIVERY: ☐ FAX ☒ EMAIL ☐ VERBAL ☐ MAIL ONLY	RETURN SAMPLES YES ☐
REPORTS TO: ~~Tina.Jordan@NV5.com~~ Jim.Byers@NV5.com	PHONE:
INVOICE TO:	FAX:
COMMENTS: 5 day TAT	EMAIL:
	CELL:

SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
A-41	Gypsum ceiling						11/21/22
-42	↓						
D-01	12" White Floor tile w/glue & 9" Beige						
-02	Floor tile w/ black mastic						
-03	↓						
-04	4" Green cove base w/ glue						
-05	↓						
-06	↓						
-07	12" Fissured ceiling tile						
-08	↓						
-09	↓						
-13	Window putty						
-14	↓						
-15	↓						
-16	ceiling insulation						
-17	↓						
-18	↓						
E-01	12" White Floor tile w/ glue & 9"						
-02	Beige Floor tile w/ black mastic						
-03	↓						

SAMPLED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Jorge Robles	11/21/22		
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
	11/22/22 2200		
RELINQUISHED BY:	DATE/TIME:	RECEIVED IN LAB BY:	DATE/TIME:
		Glenda Litton GL	11.29.22 8:10

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Asbestos / Lead Analysis Chain of Custody

AMERISCI JOB #: 922111347

AMERISCI LOS ANGELES
24416 S Main St. Suite 308
Carson, CA 90745
Phone (310) 834-4868
Fax (310) 834-4772

COMPANY:	ADDRESS:	P.O.#:
NV5	3777 Long Beach Blvd, Long Beach CA 90807	

PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME						AIR FILTER INFORMATION:	
		RUSH	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Paradise Canyon ~~Aerospace A6 Pods A + C~~ ES	TEM AHERA							MCE	
	PLM Bulk				X	X		PC	
JOB NUMBER: ~~AERO-22-11238~~ LCSO-22-111E9	PCM Air							25 mm	
	PLM 1000 P.C.	■						37 mm	
JOB MANAGER: ~~Tina Jordan~~ Jim Myers	Lead Air							0.45 um	
	Lead Wipe							0.80 um	
JOB DESCRIPTION:	Lead Paint / Soil							TEMP:	
	OTHER:							OTHER:	

INITIAL RESULTS DELIVERY: ☐ FAX ☐ EMAIL ☐ VERBAL ☐ MAIL ONLY	RETURN SAMPLES YES ☐
REPORTS TO: ~~Tina.Jordan@NV5.com~~ Jim.Myers@NV5.com	PHONE:
INVOICE TO:	FAX:
COMMENTS:	EMAIL:
	CELL:

SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
E-04	window putty						11/21/22
-05	↓						↓
-06	↓						↓
-07	12" Figured wiring tile						↓
-08	↓						↓
-09	↓						↓
-10	4" Green Coveburse w/ glue						↓
-11	↓						↓
-12	↓						↓
-13	carpet glue						↓
-14	↓						↓
-15	↓						↓
E-03B	9" Beige F.T. w/ black mastic						↓

SAMPLED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Jorge Robles	11/21/22		
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
	11/23/22 1200		
RELINQUISHED BY:	DATE/TIME:	RECEIVED IN LAB BY:	DATE/TIME:
		Glenda Wang	11.29.22 @ 8:10

Please Reply To:

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

LABORATORY ELECTRONIC TRANSMITTAL

To: Project Manager
NV5, Inc.
Fax #:

Email: diane.arredondo@nv5.com, Therese.Rizarri@nv5.com, jim.byers@nv5.com

From: Megan A DeLara
AmeriSci Job #: 922121099
Subject: PLM 5 day Results
Client Project: LCSD-22-11189; Paradise Canyon ES

Date: Monday, December 12, 2022
Time: 14:00:23
Comments:

Number of Pages: _____
(including cover sheet)

NOTE: Attached report is to be considered preliminary until final review with accompanying analysis summary letter is issued.

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AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

NV5, Inc.
Attn: Project Manager
3777 Long Beach Blvd.
Annex Building
Long Beach, CA 90807-3335

Date Received 12/08/22
Date Examined 12/09/22

AmeriSci Job # 922121099
P.O. #
Page 1 **of** 41

RE: LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
A-43 01	922121099-01L1 **Location:** Roof Core	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: White/Black, Homogeneous, Fibrous, Roof Core **Asbestos Types:** **Other Material:** Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			
A-43 01	922121099-01L2 **Location:** Roof Core	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: White, Homogeneous, Fibrous, Fibrous Material **Asbestos Types:** **Other Material:** Fibrous glass 5%, Non-fibrous 95%			
A-44 01	922121099-02 **Location:** Roof Core	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: White/Black, Homogeneous, Fibrous, Roof Core **Asbestos Types:** **Other Material:** Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			
A-45 01	922121099-03 **Location:** Roof Core	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: White/Black, Homogeneous, Fibrous, Roof Core **Asbestos Types:** **Other Material:** Cellulose 25%, Fibrous glass 5%, Non-fibrous 70%			
A-46 02	922121099-04 **Location:** White Roof Sealant	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: White, Homogeneous, Non-Fibrous, Sealant **Asbestos Types:** **Other Material:** Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
A-47 02	922121099-05L1 **Location:** White Roof Sealant	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: White, Homogeneous, Non-Fibrous, Sealant **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-47 02	922121099-05L2 **Location:** White Roof Sealant	***Yes***	2% [1] (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98%			
A-48 02	922121099-06 **Location:** White Roof Sealant	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: White, Homogeneous, Non-Fibrous, Sealant **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-49 03	922121099-07 **Location:** Planter Coating	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-50 03	922121099-08 **Location:** Planter Coating	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
A-51 03	922121099-09 **Location:** Planter Coating	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B-01 04	922121099-10 **Location:** 12" Fissured Ceiling Tile	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: Tan, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 90%, Non-fibrous 10%			
B-02 04	922121099-11 **Location:** 12" Fissured Ceiling Tile	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: Tan, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 90%, Non-fibrous 10%			
B-03 04	922121099-12 **Location:** 12" Fissured Ceiling Tile	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: Tan, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 90%, Non-fibrous 10%			
B-04 05	922121099-13L1 **Location:** 12" Beige Floor Tile W/Mastic	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: Beige, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
B-04 05	922121099-13L2 **Location:** 12" Beige Floor Tile W/Mastic	***Yes***	3% (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** Chrysotile 3.0 % **Other Material:** Non-fibrous 97%			
B-05 05	922121099-14L1 **Location:** 12" Beige Floor Tile W/Mastic	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: Beige, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B-05 05	922121099-14L2 **Location:** 12" Beige Floor Tile W/Mastic		NA/PS
Analyst Description: Mastic **Asbestos Types:** **Other Material:**			
B-06 05	922121099-15L1 **Location:** 12" Beige Floor Tile W/Mastic	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: Beige, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
B-06 05	922121099-15L2 **Location:** 12" Beige Floor Tile W/Mastic		NA/PS
Analyst Description: Mastic **Asbestos Types:** **Other Material:**			
B-07 06	922121099-16 **Location:** Drywall	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: White, Homogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 3%, Non-fibrous 97%			
B-08 06	922121099-17 **Location:** Drywall	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: White, Homogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 3%, Non-fibrous 97%			
B-09 06	922121099-18 **Location:** Drywall	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: White, Homogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 3%, Non-fibrous 97%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B-10 07	922121099-19 **Location:** Drywall Mud	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Texture **Asbestos Types:** **Other Material:** Non-fibrous 100% **Comment:** No drywall present.			
B-11 07	922121099-20 **Location:** Drywall Mud	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Texture **Asbestos Types:** **Other Material:** Non-fibrous 100% **Comment:** No drywall present.			
B-12 07	922121099-21 **Location:** Drywall Mud	***No***	NAD (by CVES) by Megan A DeLara on 12/09/22
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Texture **Asbestos Types:** **Other Material:** Non-fibrous 100% **Comment:** No drywall present.			
B-13 08	922121099-22L1 **Location:** 12" White Floor Tile W/Mastic	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
B-13 08	922121099-22L2 **Location:** 12" White Floor Tile W/Mastic	***Yes***	2% (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Black, Heterogeneous, Fibrous, Mastic **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B-14 08	922121099-23L1 **Location:** 12" White Floor Tile W/Mastic	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
B-14 08	922121099-23L2 **Location:** 12" White Floor Tile W/Mastic		NA/PS
Analyst Description: Mastic **Asbestos Types:** **Other Material:**			
B-15 08	922121099-24L1 **Location:** 12" White Floor Tile W/Mastic	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
B-15 08	922121099-24L2 **Location:** 12" White Floor Tile W/Mastic		NA/PS
Analyst Description: Mastic **Asbestos Types:** **Other Material:**			
B-16 09	922121099-25 **Location:** Window Putty	***Yes***	Trace (<1 %) (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Tan, Heterogeneous, Fibrous, Window Putty **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			
B-17 09	922121099-26 **Location:** Window Putty	***Yes***	Trace (<1 %) (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Tan, Heterogeneous, Fibrous, Window Putty **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B-18 09	922121099-27 **Location:** Window Putty	***Yes***	Trace (<1 %) (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Tan, Heterogeneous, Fibrous, Window Putty **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			
B-19 10	922121099-28L1 **Location:** 4" Black Covebase W/Glue	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
B-19 10	922121099-28L2 **Location:** 4" Black Covebase W/Glue	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Tan, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
B-20 10	922121099-29L1 **Location:** 4" Black Covebase W/Glue	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
B-20 10	922121099-29L2 **Location:** 4" Black Covebase W/Glue	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Tan, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
B-21 10	922121099-30L1 **Location:** 4" Black Covebase W/Glue	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B-21 10	922121099-30L2 **Location:** 4" Black Covebase W/Glue	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Tan, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
B-22 11	922121099-31L1 **Location:** 4" Brown Covebase W/Glue	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Brown, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
B-22 11	922121099-31L2 **Location:** 4" Brown Covebase W/Glue	***Yes***	Trace (<1 %) (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Tan, Heterogeneous, Fibrous, Glue **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			
B-23 11	922121099-32L1 **Location:** 4" Brown Covebase W/Glue	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Brown, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
B-23 11	922121099-32L2 **Location:** 4" Brown Covebase W/Glue	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Brown, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
B-24 11	922121099-33 **Location:** 4" Brown Covebase W/Glue	***Yes***	Trace (<1 %) (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Tan, Heterogeneous, Fibrous, Glue **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B-25 12 **Location:** Carpet Glue	922121099-34	***Yes***	2% (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Tan/Black, Heterogeneous, Fibrous, Carpet Glue **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98%			
B-26 12 **Location:** Carpet Glue	922121099-35		NA/PS
Analyst Description: Carpet Glue **Asbestos Types:** **Other Material:**			
B-27 12 **Location:** Carpet Glue	922121099-36		NA/PS
Analyst Description: Carpet Glue **Asbestos Types:** **Other Material:**			
B-28 13 **Location:** Roof Core	922121099-37	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Black, Heterogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Fibrous glass 10%, Non-fibrous 90%			
B-29 13 **Location:** Roof Core	922121099-38	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Black, Heterogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Fibrous glass 10%, Non-fibrous 90%			
B-30 13 **Location:** Roof Core	922121099-39	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Black, Heterogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Fibrous glass 10%, Non-fibrous 90%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B-31 14	922121099-40 **Location:** Roof Mastic On Vent	***Yes***	3% (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Black, Heterogeneous, Fibrous, Roofing Mastic **Asbestos Types:** Chrysotile 3.0 % **Other Material:** Non-fibrous 97%			
B-32 14	922121099-41 **Location:** Roof Mastic On Vent		NA/PS
Analyst Description: Roofing Mastic **Asbestos Types:** **Other Material:**			
B-33 14	922121099-42 **Location:** Roof Mastic On Vent		NA/PS
Analyst Description: Roofing Mastic **Asbestos Types:** **Other Material:**			
B-34 15	922121099-43 **Location:** White Roof Sealant	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: White, Homogeneous, Non-Fibrous, Sealant **Asbestos Types:** **Other Material:** Non-fibrous 100%			
B-35 15	922121099-44 **Location:** White Roof Sealant	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: White, Homogeneous, Non-Fibrous, Sealant **Asbestos Types:** **Other Material:** Non-fibrous 100%			
B-36 15	922121099-45 **Location:** White Roof Sealant	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: White, Homogeneous, Non-Fibrous, Sealant **Asbestos Types:** **Other Material:** Non-fibrous 100%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B-37 16	922121099-46 **Location:** Planter Coating	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
B-38 16	922121099-47 **Location:** Planter Coating	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
B-39 16	922121099-48 **Location:** Planter Coating	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
C-01 17	922121099-49 **Location:** Drywall	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 5%, Non-fibrous 95%			
C-02 17	922121099-50 **Location:** Drywall	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 5%, Non-fibrous 95%			
C-03 17	922121099-51 **Location:** Drywall	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 5%, Non-fibrous 95%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
C-04 18 **Location:** Drywall Mud	922121099-52	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Cream, Heterogeneous, Non-Fibrous, Mud **Asbestos Types:** **Other Material:** Non-fibrous 100%			
C-05 18 **Location:** Drywall Mud	922121099-53	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Cream, Heterogeneous, Non-Fibrous, Mud **Asbestos Types:** **Other Material:** Non-fibrous 100%			
C-06 18 **Location:** Drywall Mud	922121099-54	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Cream, Heterogeneous, Non-Fibrous, Mud **Asbestos Types:** **Other Material:** Non-fibrous 100%			
C-07 19 **Location:** 2x4" Ceiling Panel	922121099-55	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: White/Brown, Heterogeneous, Fibrous, Ceiling Panel **Asbestos Types:** **Other Material:** Cellulose 80%, Non-fibrous 20%			
C-08 19 **Location:** 2x4" Ceiling Panel	922121099-56	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Brown, Heterogeneous, Fibrous, Ceiling Panel **Asbestos Types:** **Other Material:** Cellulose 80%, Non-fibrous 20%			
C-09 19 **Location:** 2x4" Ceiling Panel	922121099-57	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Brown, Heterogeneous, Fibrous, Ceiling Panel **Asbestos Types:** **Other Material:** Cellulose 80%, Non-fibrous 20%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
C-10 20	922121099-58L1 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
C-10 20	922121099-58L2 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Cream, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
C-11 20	922121099-59L1 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
C-11 20	922121099-59L2 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Cream, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
C-12 20	922121099-60L1 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
C-12 20	922121099-60L2 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Cream, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
C-13 21 **Location:** Carpet Glue	922121099-61	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
C-14 21 **Location:** Carpet Glue	922121099-62	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
C-15 21 **Location:** Carpet Glue	922121099-63	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
C-16 22 **Location:** Gravel Roof Core	922121099-64	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Brown/Grey, Heterogeneous, Fibrous, Gravel Roof **Asbestos Types:** **Other Material:** Cellulose 10%, Fibrous glass 5%, Non-fibrous 85%			
C-17 22 **Location:** Gravel Roof Core	922121099-65	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Brown/Grey, Heterogeneous, Fibrous, Gravel Roof **Asbestos Types:** **Other Material:** Cellulose 10%, Fibrous glass 5%, Non-fibrous 85%			
C-18 22 **Location:** Gravel Roof Core	922121099-66	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Brown/Grey, Heterogeneous, Fibrous, Gravel Roof **Asbestos Types:** **Other Material:** Cellulose 10%, Fibrous glass 5%, Non-fibrous 85%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
C-19 23	922121099-67 **Location:** Gray Duct Sealant	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Gray, Homogeneous, Non-Fibrous, Sealant **Asbestos Types:** **Other Material:** Non-fibrous 100%			
C-20 23	922121099-68 **Location:** Gray Duct Sealant	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Gray, Homogeneous, Non-Fibrous, Sealant **Asbestos Types:** **Other Material:** Non-fibrous 100%			
C-21 23	922121099-69 **Location:** Gray Duct Sealant	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Gray, Homogeneous, Non-Fibrous, Sealant **Asbestos Types:** **Other Material:** Non-fibrous 100%			
C-22 24	922121099-70 **Location:** Planter Coating	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
C-23 24	922121099-71 **Location:** Planter Coating	***No***	NAD (by CVES) by Thu M. Nguyen on 12/10/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
C-24 24	922121099-72 **Location:** Planter Coating	***No***	NAD (by CVES) by Thu M. Nguyen (REP) on 12/10/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D-10 25	922121099-73 **Location:** Carpet Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Tan, Homogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
D-11 25	922121099-74 **Location:** Carpet Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Tan, Homogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
D-12 25	922121099-75 **Location:** Carpet Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Tan, Homogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
D-19 26	922121099-76 **Location:** Roofing Debris	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Gray/Black, Heterogeneous, Non-Fibrous, Cementitious, Debris **Asbestos Types:** **Other Material:** Cellulose 25%, Non-fibrous 75%			
D-20 26	922121099-77 **Location:** Roofing Debris	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Gray/Black, Heterogeneous, Non-Fibrous, Cementitious, Debris **Asbestos Types:** **Other Material:** Cellulose 25%, Non-fibrous 75%			
D-21 26	922121099-78 **Location:** Roofing Debris	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Gray/Black, Heterogeneous, Non-Fibrous, Cementitious, Debris **Asbestos Types:** **Other Material:** Cellulose 25%, Non-fibrous 75%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
D-22 27 **Location:** Roof Core	922121099-79	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White/Black, Homogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 25%, Fibrous glass 10%, Non-fibrous 65%			
D-23 27 **Location:** Roof Core	922121099-80	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White/Black, Homogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 25%, Fibrous glass 10%, Non-fibrous 65%			
D-24 27 **Location:** Roof Core	922121099-81	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White/Black, Homogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 25%, Fibrous glass 10%, Non-fibrous 65%			
D-25 28 **Location:** Planter Coating	922121099-82	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
D-26 28 **Location:** Planter Coating	922121099-83	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
D-27 28 **Location:** Planter Coating	922121099-84	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
E-16 29	922121099-85 **Location:** Roofing Debris	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Gray/Black, Heterogeneous, Non-Fibrous, Cementitious, Debris **Asbestos Types:** **Other Material:** Cellulose 25%, Non-fibrous 75%			
E-17 29	922121099-86 **Location:** Roofing Debris	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Gray/Black, Heterogeneous, Non-Fibrous, Cementitious, Debris **Asbestos Types:** **Other Material:** Cellulose 25%, Non-fibrous 75%			
E-18 29	922121099-87 **Location:** Roofing Debris	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Gray/Black, Heterogeneous, Non-Fibrous, Cementitious, Debris **Asbestos Types:** **Other Material:** Cellulose 25%, Non-fibrous 75%			
E-19 30	922121099-88 **Location:** Roof Core	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White/Black, Homogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 25%, Fibrous glass 10%, Non-fibrous 65%			
E-20 30	922121099-89 **Location:** Roof Core	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White/Black, Homogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 25%, Fibrous glass 10%, Non-fibrous 65%			
E-21 30	922121099-90 **Location:** Roof Core	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White/Black, Homogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 25%, Fibrous glass 10%, Non-fibrous 65%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
E-22 31	922121099-91 **Location:** Planter Coating	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
E-23 31	922121099-92 **Location:** Planter Coating	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
E-24 31	922121099-93 **Location:** Planter Coating	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
F-01 32	922121099-94 **Location:** 12" Fissured Ceiling Tile	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White/Brown, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 85%, Non-fibrous 15%			
F-02 32	922121099-95 **Location:** 12" Fissured Ceiling Tile	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White/Brown, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 85%, Non-fibrous 15%			
F-03 32	922121099-96 **Location:** 12" Fissured Ceiling Tile	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White/Brown, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 85%, Non-fibrous 15%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
F-04 33	922121099-97 **Location:** 12" White Fissured Ceiling Tile	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 5%, Mineral Wool 30%, Non-fibrous 65%			
F-05 33	922121099-98 **Location:** 12" White Fissured Ceiling Tile	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 5%, Mineral Wool 30%, Non-fibrous 65%			
F-06 33	922121099-99 **Location:** 12" White Fissured Ceiling Tile	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 5%, Mineral Wool 30%, Non-fibrous 65%			
F-07 34	922121099-100 **Location:** Carpet Glue	***Yes***	Trace (<1 %) (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			
F-08 34	922121099-101 **Location:** Carpet Glue	***Yes***	Trace (<1 %) (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			
F-09 34	922121099-102 **Location:** Carpet Glue	***Yes***	Trace (<1 %) (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
F-10 35	922121099-103 **Location:** Window Putty	***Yes***	2% (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White, Homogeneous, Non-Fibrous, Window Putty **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98%			
F-11 35	922121099-104 **Location:** Window Putty		NA/PS
Analyst Description: Window Putty **Asbestos Types:** **Other Material:**			
F-12 35	922121099-105 **Location:** Window Putty		NA/PS
Analyst Description: Window Putty **Asbestos Types:** **Other Material:**			
F-13 36	922121099-106L1 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
F-13 36	922121099-106L2 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
F-14 36	922121099-107L1 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
F-14 36	922121099-107L2 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Cream, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
F-15 36	922121099-108L1 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
F-15 36	922121099-108L2 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Cream, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
F-16 37	922121099-109L1 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White / Light Blue, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
F-16 37	922121099-109L2 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Adhesive **Asbestos Types:** **Other Material:** Non-fibrous 100%			
F-16 37	922121099-109L3 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic	***Yes***	Trace (<1 %) (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Beige, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
F-16 37	922121099-109L4 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic	***Yes***	2% (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98%			
F-17 37	922121099-110L1 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White / Light Blue, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
F-17 37	922121099-110L2 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Adhesive **Asbestos Types:** **Other Material:** Non-fibrous 100%			
F-17 37	922121099-110L3 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic	***Yes***	Trace (<1 %) (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Beige, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			
F-17 37	922121099-110L4 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic		NA/PS
Analyst Description: Mastic **Asbestos Types:** **Other Material:**			
F-18 37	922121099-111L1 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White / Light Blue, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
F-18 37	922121099-111L2 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Adhesive **Asbestos Types:** **Other Material:** Non-fibrous 100%			
F-18 37	922121099-111L3 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic	***Yes***	2% (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Brown, Homogeneous, Non-Fibrous, Tile **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98%			
F-18 37	922121099-111L4 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic		NA/PS
Analyst Description: Mastic **Asbestos Types:** **Other Material:**			
F-19 38	922121099-112 **Location:** Roofing Debris	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Gray/Black, Heterogeneous, Fibrous, Cementitious, Debris **Asbestos Types:** **Other Material:** Cellulose 15%, Non-fibrous 85%			
F-20 38	922121099-113 **Location:** Roofing Debris	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Gray/Black, Heterogeneous, Fibrous, Cementitious, Debris **Asbestos Types:** **Other Material:** Cellulose 15%, Non-fibrous 85%			
F-21 38	922121099-114 **Location:** Roofing Debris	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Gray/Black, Heterogeneous, Fibrous, Cementitious, Debris **Asbestos Types:** **Other Material:** Cellulose 15%, Non-fibrous 85%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
F-22 39	922121099-115 **Location:** Planter Coating	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
F-23 39	922121099-116 **Location:** Planter Coating	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
F-24 39	922121099-117 **Location:** Planter Coating	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
F-25 40	922121099-118 **Location:** Roof Core	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Black, Heterogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 10%, Fibrous glass 20%, Non-fibrous 70%			
F-26 40	922121099-119 **Location:** Roof Core	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Black, Heterogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 10%, Fibrous glass 20%, Non-fibrous 70%			
F-27 40	922121099-120 **Location:** Roof Core	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Black, Heterogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 10%, Fibrous glass 20%, Non-fibrous 70%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
H-01 41	922121099-121L1 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White / Light Blue, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
H-01 41	922121099-121L2 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Tan, Homogeneous, Non-Fibrous, Adhesive **Asbestos Types:** **Other Material:** Non-fibrous 100%			
H-01 41	922121099-121L3 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic	***Yes***	2% (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Brown, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98%			
H-01 41	922121099-121L4 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic	***Yes***	2% (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98%			
H-02 41	922121099-122L1 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White / Light Blue, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
H-02 41	922121099-122L2 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Tan, Homogeneous, Non-Fibrous, Adhesive **Asbestos Types:** **Other Material:** Non-fibrous 100%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
H-02 41	922121099-122L3 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Beige, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
H-02 41	922121099-122L4 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Green, Homogeneous, Non-Fibrous, Adhesive **Asbestos Types:** **Other Material:** Non-fibrous 100%			
H-03 41	922121099-123L1 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White / Light Blue, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
H-03 41	922121099-123L2 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Tan, Homogeneous, Non-Fibrous, Adhesive **Asbestos Types:** **Other Material:** Non-fibrous 100%			
H-03 41	922121099-123L3 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic		NA/PS
Analyst Description: Floor Tile **Asbestos Types:** **Other Material:**			
H-03 41	922121099-123L4 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Black Mastic		NA/PS
Analyst Description: Mastic **Asbestos Types:** **Other Material:**			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
H-04 42	922121099-124 **Location:** 12" Fissured Ceiling Tile	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White/Brown, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 75%, Non-fibrous 25%			
H-05 42	922121099-125 **Location:** 12" Fissured Ceiling Tile	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White/Brown, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 75%, Non-fibrous 25%			
H-06 42	922121099-126 **Location:** 12" Fissured Ceiling Tile	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White/Brown, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 75%, Non-fibrous 25%			
H-07 43	922121099-127 **Location:** Carpet Glue W/Residual Black Mastic	***Yes***	2% (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Glue / Mastic **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98%			
H-08 43	922121099-128 **Location:** Carpet Glue W/Residual Black Mastic		NA/PS
Analyst Description: Glue / Mastic **Asbestos Types:** **Other Material:**			
H-09 43	922121099-129 **Location:** Carpet Glue W/Residual Black Mastic		NA/PS
Analyst Description: Glue / Mastic **Asbestos Types:** **Other Material:**			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
H-10 44	922121099-130L1 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
H-10 44	922121099-130L2 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Cream, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
H-10 44	922121099-130L3 **Location:** 4" Green Covebase W/Glue	***Yes***	Trace (<1 %) (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			
H-11 44	922121099-131L1 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Green, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
H-11 44	922121099-131L2 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Cream, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
H-11 44	922121099-131L3 **Location:** 4" Green Covebase W/Glue	***Yes***	Trace (<1 %) (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White / Red, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
H-12 44	922121099-132L1 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
H-12 44	922121099-132L2 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Cream, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
H-12 44	922121099-132L3 **Location:** 4" Green Covebase W/Glue	***Yes***	Trace (<1 %) (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White / Red, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			
H-13 45	922121099-133 **Location:** Window Putty	***Yes***	2% (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Lt. Grey, Homogeneous, Non-Fibrous, Window Putty **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98%			
H-14 45	922121099-134 **Location:** Window Putty		NA/PS
Analyst Description: Window Putty **Asbestos Types:** **Other Material:**			
H-15 45	922121099-135 **Location:** Window Putty		NA/PS
Analyst Description: Window Putty **Asbestos Types:** **Other Material:**			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
H-16 46	922121099-136 **Location:** Planter Coating	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Dark Gray, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
H-17 46	922121099-137 **Location:** Planter Coating	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Dark Gray, Homogeneous, Non-Fibrous, Cementitious, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
H-18 46	922121099-138 **Location:** Planter Coating	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Dark Gray, Homogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
H-19 47	922121099-139 **Location:** Roofing Debris	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White/Black/Silver, Heterogeneous, Non-Fibrous, Cementitious, Debris **Asbestos Types:** **Other Material:** Cellulose 15%, Fibrous glass 10%, Non-fibrous 75%			
H-20 47	922121099-140 **Location:** Roofing Debris	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White/Black/Grey, Heterogeneous, Non-Fibrous, Cementitious, Debris **Asbestos Types:** **Other Material:** Cellulose 20%, Fibrous glass 10%, Non-fibrous 70%			
H-21 47	922121099-141 **Location:** Roofing Debris	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White/Gray, Heterogeneous, Non-Fibrous, Cementitious, Debris **Asbestos Types:** **Other Material:** Non-fibrous 100%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
H-22 48 **Location:** Roof Core	922121099-142	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White/Black, Heterogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 20%, Fibrous glass 15%, Non-fibrous 65%			
H-23 48 **Location:** Roof Core	922121099-143	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White/Black, Heterogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 20%, Fibrous glass 15%, Non-fibrous 65%			
H-24 48 **Location:** Roof Core	922121099-144	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White/Black, Heterogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 20%, Fibrous glass 15%, Non-fibrous 65%			
H-25 49 **Location:** White/Black Roof Mastic	922121099-145	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White/Black, Homogeneous, Non-Fibrous, Roofing Mastic **Asbestos Types:** **Other Material:** Cellulose 8%, Non-fibrous 92%			
H-26 49 **Location:** White/Black Roof Mastic	922121099-146	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White/Black, Homogeneous, Non-Fibrous, Roofing Mastic **Asbestos Types:** **Other Material:** Cellulose 7%, Non-fibrous 93%			
H-27 49 **Location:** White/Black Roof Mastic	922121099-147	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White/Black, Homogeneous, Non-Fibrous, Roofing Mastic **Asbestos Types:** **Other Material:** Cellulose 7%, Non-fibrous 93%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
J-01 50	922121099-148L1 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White / Light Blue, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-01 50	922121099-148L2 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Tan, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-01 50	922121099-148L3 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Grey, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-01 50	922121099-148L4 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-02 50	922121099-149L1 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White / Light Blue, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-02 50	922121099-149L2 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Tan, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
J-02 50	922121099-149L3 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Mastic	***Yes***	2% (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Green, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98%			
J-02 50	922121099-149L4 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-03 50	922121099-150L1 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: White, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-03 50	922121099-150L2 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Tan, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-03 50	922121099-150L3 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Mastic		NA/PS
Analyst Description: Floor Tile **Asbestos Types:** **Other Material:**			
J-03 50	922121099-150L4 **Location:** 12" White Floor Tile W/Glue & 9" Beige Floor Tile W/Mastic	***No***	NAD (by CVES) by Rosa E. Pena on 12/10/22
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
J-04 51 **Location:** Carpet Glue	922121099-151	***Yes***	Trace (<1 %)[2] (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			
J-05 51 **Location:** Carpet Glue	922121099-152	***Yes***	Trace (<1 %)[2] (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			
J-06 51 **Location:** Carpet Glue	922121099-153	***Yes***	Trace (<1 %)[2] (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			
J-07 52 **Location:** 4" Green Covebase W/Glue	922121099-154L1	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-07 52 **Location:** 4" Green Covebase W/Glue	922121099-154L2	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-07 52 **Location:** 4" Green Covebase W/Glue	922121099-154L3	***Yes***	Trace (<1 %) (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White, Homogeneous, Non-Fibrous, Compound **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
J-08 52	922121099-155L1 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-08 52	922121099-155L2 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-08 52	922121099-155L3 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Red, Heterogeneous, Non-Fibrous, Compound **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-09 52	922121099-156L1 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Green, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-09 52	922121099-156L2 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-09 52	922121099-156L3 **Location:** 4" Green Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Green, Heterogeneous, Non-Fibrous, Compound **Asbestos Types:** **Other Material:** Non-fibrous 100%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
J-10 53	922121099-157 **Location:** 12" Fissured Ceiling Tile	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White/Brown, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 65%, Non-fibrous 35%			
J-11 53	922121099-158 **Location:** 12" Fissured Ceiling Tile	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White/Brown, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 65%, Non-fibrous 35%			
J-12 53	922121099-159 **Location:** 12" Fissured Ceiling Tile	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White/Brown, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 65%, Non-fibrous 35%			
J-13 54	922121099-160 **Location:** Window Putty	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Window Putty **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-14 54	922121099-161 **Location:** Window Putty	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Window Putty **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-15 54	922121099-162 **Location:** Window Putty	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Window Putty **Asbestos Types:** **Other Material:** Non-fibrous 100%			

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PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
J-16 55	922121099-163 **Location:** Drywall	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 12%, Fibrous glass 3%, Non-fibrous 85%			
J-17 55	922121099-164 **Location:** Drywall	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 12%, Fibrous glass 3%, Non-fibrous 85%			
J-18 55	922121099-165 **Location:** Drywall	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White/Brown, Heterogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 12%, Fibrous glass 3%, Non-fibrous 85%			
J-19 56	922121099-166 **Location:** Drywall Mud	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White, Homogeneous, Non-Fibrous, Mud **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-20 56	922121099-167 **Location:** Drywall Mud	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White, Homogeneous, Non-Fibrous, Mud **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-21 56	922121099-168 **Location:** Drywall Mud	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White, Homogeneous, Non-Fibrous, Mud **Asbestos Types:** **Other Material:** Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
J-22 57	922121099-169L1 **Location:** 4" Beige Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-22 57	922121099-169L2 **Location:** 4" Beige Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Beige, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-23 57	922121099-170L1 **Location:** 4" Beige Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-23 57	922121099-170L2 **Location:** 4" Beige Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Beige, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-24 57	922121099-171L1 **Location:** 4" Beige Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White, Homogeneous, Non-Fibrous, Cove Base **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-24 57	922121099-171L2 **Location:** 4" Beige Covebase W/Glue	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: Beige, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** **Other Material:** Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
J-25 58	922121099-172 **Location:** Roof Core	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White/Black, Homogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 25%, Fibrous glass 10%, Non-fibrous 65%			
J-26 58	922121099-173 **Location:** Roof Core	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White/Black, Homogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 25%, Fibrous glass 10%, Non-fibrous 65%			
J-27 58	922121099-174 **Location:** Roof Core	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White/Black, Homogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 25%, Fibrous glass 10%, Non-fibrous 65%			
J-28 59	922121099-175 **Location:** White Roof Sealant	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White, Homogeneous, Non-Fibrous, Sealant **Asbestos Types:** **Other Material:** Cellulose 4%, Non-fibrous 96%			
J-29 59	922121099-176 **Location:** White Roof Sealant	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White, Homogeneous, Non-Fibrous, Sealant **Asbestos Types:** **Other Material:** Cellulose 3%, Non-fibrous 97%			
J-30 59	922121099-177 **Location:** White Roof Sealant	***No***	NAD (by CVES) by Rosa E. Pena on 12/11/22
Analyst Description: White, Homogeneous, Non-Fibrous, Sealant **Asbestos Types:** **Other Material:** Cellulose 3%, Non-fibrous 97%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Reporting Notes:

(1) Insufficient material submitted. QC not possible.

(2) Physically inseparable layers in sample. Sample composited for analysis.

Analyzed by: Megan A DeLara 
Date: 12/9/2022

Reviewed by: Patricia Weakley 

*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.

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Fax (310) 834-4772

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NV5	3777 Long Beach Blvd, Long Beach CA 90807	

PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME						AIR FILTER INFORMATION:	
		RUSH	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Paradise Canyon ES	TEM AHERA							MCE	
	PLM Bulk					X		PC	
JOB NUMBER: LCSD-22-11189	PCM Air							25 mm	
	PLM 1000 P.C.	■						37 mm	
JOB MANAGER: Jim Byers	Lead Air							0.45 um	
	Lead Wipe							0.80 um	
JOB DESCRIPTION:	Lead Paint / Soil							TEMP:	
	OTHER:							OTHER:	

INITIAL RESULTS DELIVERY: ☐ FAX ☒ EMAIL ☐ VERBAL ☐ MAIL ONLY	RETURN SAMPLES YES ☐
REPORTS TO: Jim.Byers@nv5.com	PHONE:
INVOICE TO:	FAX:
COMMENTS: STOP POSITIVE	EMAIL:
	CELL:

SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
A-43	Roof core						12/1/22
-44	↓						↓
-45	↓						↓
-46	White roof sealant						↓
-47	↓						↓
-48	↓						↓
-49	Planter coating						↓
-50	↓						↓
-51	↓						↓
B-01	12" Fissured ceiling tile						↓
-02	↓						↓
-03	↓						↓
-04	12" Beige Floor tile w/ mastic						↓
-05	↓						↓
-06	↓						↓
-07	Drywall						↓
-08	↓						↓
-09	↓						↓
-10	Drywall Mud						↓
-11	↓						↓

SAMPLED BY: Jorge Robles	DATE/TIME: 12/1/22	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY:	DATE/TIME: 12/8/22 1100	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY:	DATE/TIME:	RECEIVED IN LAB BY: Glenda Lyon	DATE/TIME: 12/8/22 11:30

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PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME						AIR FILTER INFORMATION:	
		RUSH	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Paradise Canyon ES	TEM AHERA							MCE	
	PLM Bulk					X		PC	
JOB NUMBER: LCSD-22-11189	PCM Air							25 mm	
	PLM 1000 P.C.	■						37 mm	
JOB MANAGER: Jim Byers	Lead Air							0.45 um	
	Lead Wipe							0.80 um	
JOB DESCRIPTION:	Lead Paint / Soil							TEMP:	
	OTHER:							OTHER:	

INITIAL RESULTS DELIVERY: ☐ FAX ☒ EMAIL ☐ VERBAL ☐ MAIL ONLY — RETURN SAMPLES YES ☐

REPORTS TO: Jim.Byers@nv5.com — PHONE:

INVOICE TO: — FAX:

COMMENTS: STOP POSITIVE — EMAIL:

CELL:

SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
B-12	Dry wall mud						12/2/22
-13	12" White Floor tile w/ mastic						
-14	↓						
-15	↓						
-16	window putty						
-17	↓						
-18	↓						
-19	4" Black coveBase w/ glue						
-20	↓						
-21	↓						
-22	4" Brown coveBase w/ glue						
-23	↓						
-24	↓						
-25	Carpet glue						
-26	↓						
-27	↓						
-28	Roof core						
-29	↓						
-30	↓						
-31	Roof mastic on vent						

SAMPLED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Jorge Robles	12/2/22		
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
	12/8/22 1100		
RELINQUISHED BY:	DATE/TIME:	RECEIVED IN LAB BY:	DATE/TIME:
		Glenda Wilson	12/8/22 11:30

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PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME						AIR FILTER INFORMATION:	
		RUSH	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Paradise Canyon ES	TEM AHERA							MCE	
	PLM Bulk					X		PC	
JOB NUMBER: LCSD-22-11189	PCM Air							25 mm	
	PLM 1000 P.C.	■						37 mm	
JOB MANAGER: Jim Byers	Lead Air							0.45 um	
	Lead Wipe							0.80 um	
JOB DESCRIPTION:	Lead Paint / Soil							TEMP:	
	OTHER:							OTHER:	

INITIAL RESULTS DELIVERY: ☐ FAX ☒ EMAIL ☐ VERBAL ☐ MAIL ONLY — RETURN SAMPLES YES ☐

REPORTS TO: Jim.Byers@nv5.com — PHONE:

INVOICE TO: — FAX:

COMMENTS: STOP POSITIVE — EMAIL:

CELL:

SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
B-32	Roof mastic on vent						12/2/22
-33	↓						
-34	White roof sealant						
-35	↓						
-36							
-37	Planter coating						
-38	↓						
-39	↓						
C-01	Drywall						
-02	↓						
-03							
-04	Drywall Mud						
-05	↓						
-06	↓						
-07	2x4" ceiling panel						
-08	↓						
-09	↓						
-10	4" green coveBase w/ glue						
-11	↓						
-12	↓						

SAMPLED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Jorge Robles	12/2/22		
RELINQUISHED BY: JB	DATE/TIME: 12/5/22 1100	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY:	DATE/TIME:	RECEIVED IN LAB BY: Glenda Lutan & H	DATE/TIME: 12/6/22 11:30

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PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME						AIR FILTER INFORMATION:	
		RUSH	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Paradise Canyon ES	TEM AHERA							MCE	
	PLM Bulk					X		PC	
JOB NUMBER: LCSD-22-11189	PCM Air							25 mm	
	PLM 1000 P.C.	■						37 mm	
JOB MANAGER: Jim Byers	Lead Air							0.45 um	
	Lead Wipe							0.80 um	
JOB DESCRIPTION:	Lead Paint / Soil							TEMP:	
	OTHER:							OTHER:	

INITIAL RESULTS DELIVERY: ☐ FAX ☒ EMAIL ☐ VERBAL ☐ MAIL ONLY — RETURN SAMPLES YES ☐

REPORTS TO: Jim.Byers@nv5.com — PHONE:

INVOICE TO: — FAX:

COMMENTS: STOP POSITIVE — EMAIL:

CELL:

SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
C-13	carpet glue						12/2/22
-14	↓						
-15	↓						
-16	Gravel Roof core						
-17	↓						
-18	↓						
-19	Gray duct sealant						
-20	↓						
-21	↓						
-22	Planter coating						
-23	↓						
-24	↓						
D-10	carpet glue						
-11	↓						
-12	↓						
-19	Roofing debris						
-20	↓						
-21	↓						
-22	Roof core						
-23	↓						

SAMPLED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Jorge Robles	12/2/22		
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
	12/8/22 1100		
RELINQUISHED BY:	DATE/TIME:	RECEIVED IN LAB BY:	DATE/TIME:
		Glenda Lizon	12/8/22e 11:30

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PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME						AIR FILTER INFORMATION:	
		RUSH	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Paradise Canyon ES	TEM AHERA							MCE	
	PLM Bulk					X		PC	
JOB NUMBER: LCSD-22-11189	PCM Air							25 mm	
	PLM 1000 P.C.	■						37 mm	
JOB MANAGER: Jim Byers	Lead Air							0.45 um	
	Lead Wipe							0.80 um	
JOB DESCRIPTION:	Lead Paint / Soil							TEMP:	
	OTHER:							OTHER:	

INITIAL RESULTS DELIVERY: ☐ FAX ☒ EMAIL ☐ VERBAL ☐ MAIL ONLY — RETURN SAMPLES YES ☐

REPORTS TO: Jim.Byers@nv5.com — PHONE:

INVOICE TO: — FAX:

COMMENTS: STOP POSITIVE — EMAIL:

CELL:

SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
O-24	Roof core						12/2/22
-25	Plaster coating						
-26	↓						
-27	↓						
E-16	Roofing debris						
-17	↓						
-18	↓						
-19	Roof core						
-20	↓						
-21	↓						
-22	Plaster coating						
-23	↓						
-24	↓						
F-01	12" Fissured ceiling tile						
-02	↓						
-03	↓						
-04	12" White Fissured ceiling tile						
-05	↓						
-06	↓						
-07	Carpet glue						

SAMPLED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Jorge Robles	12/2/22		
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY:	DATE/TIME:	RECEIVED IN LAB BY: Glenda Veron	DATE/TIME: 12/6/22 11:30

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PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME						AIR FILTER INFORMATION:	
		RUSH	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Paradise Canyon ES	TEM AHERA							MCE	
	PLM Bulk					X		PC	
JOB NUMBER: LCSD-22-11189	PCM Air							25 mm	
	PLM 1000 P.C.	■						37 mm	
JOB MANAGER: Jim Byers	Lead Air							0.45 um	
	Lead Wipe							0.80 um	
JOB DESCRIPTION:	Lead Paint / Soil							TEMP:	
	OTHER:							OTHER:	

INITIAL RESULTS DELIVERY: ☐ FAX ☒ EMAIL ☐ VERBAL ☐ MAIL ONLY	RETURN SAMPLES YES ☐
REPORTS TO: Jim.Byers@nv5.com	PHONE:
INVOICE TO:	FAX:
COMMENTS: STOP POSITIVE	EMAIL:
	CELL:

SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
F-08	carpet glue						12/2/22
-09	↓						
-10	window putty						
-11	↓						
-12							
-13	4" Green coveBase w/ glue						
-14	↓						
-15							
-16	12" White Floor Tile w/ glue & 9" Beige						
-17	Floor Tile w/ black mastic						
-18	↓						
-19	Roofing debris						
-20	↓						
-21							
-22	Planter coating						
-23	↓						
-24							
-25	Roof core						
-26	↓						
-27	↓						↓

SAMPLED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Jorge Robles	12/2/22		
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
	12/8/22 1100		
RELINQUISHED BY:	DATE/TIME:	RECEIVED IN LAB BY:	DATE/TIME:
		Glenda Lugo GL	12/8/22 11:30

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Asbestos / Lead Analysis Chain of Custody

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COMPANY:	ADDRESS:	P.O.#:
NV5	3777 Long Beach Blvd, Long Beach CA 90807	

PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME						AIR FILTER INFORMATION:	
		RUSH	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Paradise Canyon ES	TEM AHERA							MCE	
	PLM Bulk					X		PC	
JOB NUMBER: LCSD-22-11189	PCM Air							25 mm	
	PLM 1000 P.C.	■						37 mm	
JOB MANAGER: Jim Byers	Lead Air							0.45 um	
	Lead Wipe							0.80 um	
JOB DESCRIPTION:	Lead Paint / Soil							TEMP:	
	OTHER:							OTHER:	

INITIAL RESULTS DELIVERY: ☐ FAX ☒ EMAIL ☐ VERBAL ☐ MAIL ONLY — RETURN SAMPLES YES ☐

REPORTS TO: Jim.Byers@nv5.com — PHONE:

INVOICE TO: — FAX:

COMMENTS: STOP POSITIVE — EMAIL:

CELL:

SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
1+-01	12" White Floor Tile w/ glue & 9" Beige						12/2/22
-02	floor tile w/ black mastic						
-03	↓						
-04	12" Fissured ceiling tile						
-05							
-06	↓						
-07	carpet glue w/ residual black mastic						
-08							
-09	↓						
-10	4" Green corebase w/ glue						
-11							
-12	↓						
-13	window putty						
-14							
-15	↓						
-16	Planter coating						
-17							
-18	↓						
-19	Roofing debris						
-20	↓						

SAMPLED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Jorge Robles	12/2/22		
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
	12/8/22 1100		
RELINQUISHED BY:	DATE/TIME:	RECEIVED IN LAB BY:	DATE/TIME:
		Glenda Lizon	12/8/22 @ 1130

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COMPANY:	ADDRESS:	P.O.#:
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PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME						AIR FILTER INFORMATION:	
		RUSH	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Paradise Canyon ES	TEM AHERA							MCE	
	PLM Bulk					X		PC	
JOB NUMBER: LCSD-22-11189	PCM Air							25 mm	
	PLM 1000 P.C.	■						37 mm	
JOB MANAGER: Jim Byers	Lead Air							0.45 um	
	Lead Wipe							0.80 um	
JOB DESCRIPTION:	Lead Paint / Soil							TEMP:	
	OTHER:							OTHER:	

INITIAL RESULTS DELIVERY: ☐ FAX ☐ EMAIL ☐ VERBAL ☐ MAIL ONLY	RETURN SAMPLES YES ☐
REPORTS TO: Jim.Byers@nv5.com	PHONE:
INVOICE TO:	FAX:
COMMENTS: STOP POSITIVE	EMAIL:
	CELL:

SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
H-21	Roofing debris						12/2/22
-22	roof core						
-23	↓						
-24	↓						
-25	White/black roof mastic						
-26	↓						
-27	↓						
J-01	12" White Floor tile w/glue & 9" Beige						
-02	floor tile w/ mastic						
-03	↓						
-04	Carpet glue						
-05	↓						
-06	↓						
-07	4" Green coveburse w/glue						
-08	↓						
-09	↓						
-10	12" fissured ceiling tile						
-11	↓						
-12	↓						
-13	window putty						

SAMPLED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Jorge Robles	12/2/22		
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
	12/8/22 1100		
RELINQUISHED BY:	DATE/TIME:	RECEIVED IN LAB BY:	DATE/TIME:
		Glenda Lutas	12/9/22 @ 11:30

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Fax (310) 834-4772

COMPANY: NV5	ADDRESS: 3777 Long Beach Blvd, Long Beach CA 90807	P.O.#:

PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME						AIR FILTER INFORMATION:	
		RUSH	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Paradise Canyon ES	TEM AHERA							MCE	
	PLM Bulk					X		PC	
JOB NUMBER: LCSD-22-11189	PCM Air							25 mm	
	PLM 1000 P.C.	■						37 mm	
JOB MANAGER: Jim Byers	Lead Air							0.45 um	
	Lead Wipe							0.80 um	
JOB DESCRIPTION:	Lead Paint / Soil							TEMP:	
	OTHER:							OTHER:	

INITIAL RESULTS DELIVERY: ☐ FAX ☒ EMAIL ☐ VERBAL ☐ MAIL ONLY — RETURN SAMPLES YES ☐

REPORTS TO: Jim.Byers@nv5.com — PHONE:

INVOICE TO: — FAX:

COMMENTS: STOP POSITIVE — EMAIL:

CELL:

SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
J-14	Window putty						12/2/22
-15	↓						
-16	Drywall						
-17	↓						
-18							
-19	Drywall mud						
-20	↓						
-21							
-22	4" Beige cove base w/ glue						
-23	↓						
-24							
-25	Roof core						
-26	↓						
-27							
-28	White roof sealant						
-29	↓						
-30	↓						

SAMPLED BY: Jorge Robles	DATE/TIME: 12/2/22	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY:	DATE/TIME: 12/8/22 1100	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY:	DATE/TIME:	RECEIVED IN LAB BY: Glenda Wren	DATE/TIME: 12/8/22 11:30

Please Reply To:

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

LABORATORY ELECTRONIC TRANSMITTAL

To: Project Manager
NV5, Inc.
Fax #:

Email: diane.arredondo@nv5.com, Therese.Rizarri@nv5.com, jim.byers@nv5.com

From: Dennis Liu
AmeriSci Job #: 922121142
Subject: PLM 1000 point count 3 day Resu
Client Project: LCSD-22-11189; Paradise Canyon ES

Date: Friday, December 16, 2022
Time: 09:21:51
Comments:

Number of Pages: _____
(including cover sheet)

NOTE: Attached report is to be considered preliminary until final review with accompanying analysis summary letter is issued.

CONFIDENTIALITY NOTICE: Unless otherwise indicated, the information contained in this communication is confidential information intended for use of the individual named above. If the reader of this communication is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is prohibited. If you have received this communication in error, please immediately notify the sender by telephone and return the original message to the above address via the US Postal Service at our expense. Samples are disposed of in 60 days or unless otherwise instructed by the protocol or special instructions in writing. Thank you.

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

NV5, Inc.
Attn: Project Manager
3777 Long Beach Blvd.
Annex Building
Long Beach, CA 90807-3335

Date Received 12/13/22
Date Examined 12/10/22

AmeriSci Job # 922121142
P.O. #
Page 1 **of** 3

RE: LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B-16	922121142-01	***Yes***	0.1% pc[1] (by 1000 pt ct) by Dennis Liu on 12/10/22
Location: Window Putty			
Analyst Description: Tan, Heterogeneous, Fibrous, Window Putty **Asbestos Types:** Chrysotile 0.1 % **Other Material:** Non-Asbestos/Inert 12.7%			
B-17	922121142-02	***Yes***	0.1% pc[1] (by 1000 pt ct) by Dennis Liu on 12/10/22
Location: Window Putty			
Analyst Description: Tan, Heterogeneous, Fibrous, Window Putty **Asbestos Types:** Chrysotile 0.1 % **Other Material:** Non-Asbestos/Inert 12.7%			
B-18	922121142-03	***Yes***	0.1% pc[1] (by 1000 pt ct) by Dennis Liu on 12/10/22
Location: Window Putty			
Analyst Description: Tan, Heterogeneous, Fibrous, Window Putty **Asbestos Types:** Chrysotile 0.1 % **Other Material:** Non-Asbestos/Inert 15.7%			
B-22	922121142-04	***Yes***	Trace (<0.1 % pc)[1] (by 1000 pt ct) by Dennis Liu on 12/10/22
Location: 4" Brown Covebase W/Glue			
Analyst Description: Brown, Homogeneous, Non-Fibrous, Glue **Asbestos Types:** Chrysotile <0.1 % pc **Other Material:** Non-Asbestos/Inert 3.6%			
B-24	922121142-05	***No***	NAD[1] (by 1000 pt ct) by Dennis Liu on 12/10/22
Location: 4" Brown Covebase W/Glue			
Analyst Description: Tan, Heterogeneous, Fibrous, Glue **Asbestos Types:** **Other Material:** Organic Fibers , Non-Asbestos/Inert 12.7%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
F-07	922121142-06	***Yes***	Trace (<0.1 % pc)[1] (by 1000 pt ct) by Dennis Liu on 12/10/22
Location: Carpet Glue			
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** Chrysotile <0.1 % pc **Other Material:** Non-Asbestos/Inert 30.9%			
F-08	922121142-07	***No***	NAD[1] (by 1000 pt ct) by Dennis Liu on 12/10/22
Location: Carpet Glue			
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** **Other Material:** Non-Asbestos/Inert 31.4%			
F-09	922121142-08	***Yes***	Trace (<0.1 % pc)[1] (by 1000 pt ct) by Dennis Liu on 12/10/22
Location: Carpet Glue			
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** Chrysotile <0.1 % pc **Other Material:** Non-Asbestos/Inert 31.9%			
H-10	922121142-09		NA
Location: 4" Green Covebase W/Glue			
Analyst Description: Insufficient Material **Asbestos Types:** **Other Material:**			
H-11	922121142-10		NA
Location: 4" Green Covebase W/Glue			
Analyst Description: Insufficient Material **Asbestos Types:** **Other Material:**			
H-12	922121142-11		NA
Location: 4" Green Covebase W/Glue			
Analyst Description: Insufficient Material **Asbestos Types:** **Other Material:**			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon ES

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
J-04	922121142-12	***Yes***	Trace (<0.1 % pc)[1] (by 1000 pt ct) by Dennis Liu on 12/11/22
Location: Carpet Glue			
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** Chrysotile <0.1 % pc **Other Material:** Non-Asbestos/Inert 1.5%			
J-05	922121142-13	***Yes***	Trace (<0.1 % pc)[1] (by 1000 pt ct) by Dennis Liu on 12/11/22
Location: Carpet Glue			
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** Chrysotile <0.1 % pc **Other Material:** Non-Asbestos/Inert 0.7%			
J-06	922121142-14	***Yes***	Trace (<0.1 % pc)[1] (by 1000 pt ct) by Dennis Liu on 12/11/22
Location: Carpet Glue			
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Carpet Glue **Asbestos Types:** Chrysotile <0.1 % pc **Other Material:** Non-Asbestos/Inert 1.7%			
J-07	922121142-15		NA
Location: 4" Green Covebase W/Glue			
Analyst Description: Insufficient Material **Asbestos Types:** **Other Material:**			

Reporting Notes:

(1) EPA 1000 Point Count Analysis performed on inert residue remaining after 480C heat and HCl acid treatments.

Analyzed by: Dennis Liu
Date: 12/10/2022

Reviewed by: Patricia Weakley

*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.

Subject: RE: (Verify Sender - Possible Impersonation) Re: AmeriSci Preliminary Report 922121099; LCSD-22-11189; Paradise Canyon ES
922121142
From: Jim Byers <jim.byers@nv5.com>
Date: 12/13/2022, 9:51 AM
To: "ameriscila@amerisci.com" <ameriscila@amerisci.com>, Glenda Luzon <gluzon@amerisci.com>
CC: Therese Rizarri <Therese.Rizarri@nv5.com>, David Schack <David.Schack@nv5.com>

Hi Glenda,

I have heard from my Client and they would like to proceed with point counting. Can you please 1,000 point count the samples below on a 3-day TAT?

B-16
B-17
B-18
B-22
B-24
F-07
F-08
F-09
H-10
H-11
H-12
J-04
J-05
J-06
J-07

Thanks,

Jim Byers | Senior Consultant/Project Manager| **NV5**
3777 Long Beach Boulevard – The Annex | Long Beach, CA 90807 | C: 562.477.0935

Alta Environmental is now NV5

From: Glenda Luzon <gluzon@amerisci.com>
Sent: Tuesday, December 13, 2022 10:01 AM
To: Jim Byers <jim.byers@nv5.com>; ameriscila@amerisci.com
Cc: Therese Rizarri <Therese.Rizarri@nv5.com>; David Schack <David.Schack@nv5.com>
Subject: (Verify Sender - Possible Impersonation) Re: AmeriSci Preliminary Report 922121099; LCSD-22-11189; Paradise Canyon ES

(Verify Sender - Possible Impersonation)

Good morning, Jim.

Thank you for the email. Our samples have a storage time of 60 days after analysis.

If more time is needed after the 60 days, please email us and we will extend the hold.

Thank you.

On 12/12/2022 8:23 PM, Jim Byers wrote:

Good evening,

Recd by Glenda Luzon GLL
12/13/22 @ 9:55

922121142

AMERI SCI
www.amerisci.com

Asbestos / Lead Analysis Chain of Custody

AMERISCI JOB #: 922121099 GU 12/13/22

AMERISCI LOS ANGELES
24416 S Main St. Suite 308
Carson, CA 90745
Phone (310) 834-4868
Fax (310) 834-4772

COMPANY:	ADDRESS:	P.O.#:
NV5	3777 Long Beach Blvd, Long Beach CA 90807	

PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME						AIR FILTER INFORMATION:	
		RUSH	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Paradise Canyon ES	TEM AHERA							MCE	
	PLM Bulk					X		PC	
JOB NUMBER: LCSD-22-11189	PCM Air							25 mm	
	PLM 1000 P.C.	■						37 mm	
JOB MANAGER: Jim Byers	Lead Air							0.45 um	
	Lead Wipe							0.80 um	
JOB DESCRIPTION:	Lead Paint / Soil							TEMP:	
	OTHER:							OTHER:	

INITIAL RESULTS DELIVERY: ☐ FAX ☒ EMAIL ☐ VERBAL ☐ MAIL ONLY	RETURN SAMPLES YES ☐
REPORTS TO: Jim.Byers@nv5.com	PHONE:
INVOICE TO:	FAX:
COMMENTS: STOP POSITIVE	EMAIL:
	CELL:

SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
B-12	Drywall mud						12/2/22
-13	12" White Floor tile w/ mastic						
-14	↓						
-15	↓						
-16	Window putty						
-17	↓						
-18	↓						
-19	4" Black coveBase w/ glue						
-20	↓						
-21	↓						
-22	4" Brown coveBase w/ glue						
-23	↓						
-24	↓						
-25	Carpet glue						
-26	↓						
-27	↓						
-28	Roof core						
-29	↓						
-30	↓						
-31	Roof mastic on vent						

SAMPLED BY: Jorge Robles	DATE/TIME: 12/2/22	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY:	DATE/TIME: 12/8/22 1100	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY:	DATE/TIME:	RECEIVED IN LAB BY: Glenda Urzua	DATE/TIME: 12/8/22 11:30

922121142

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Asbestos / Lead Analysis Chain of Custody

AMERISCI JOB #: ~~922121099~~ GU 12/13/22

AMERISCI LOS ANGELES
24416 S Main St. Suite 308
Carson, CA 90745
Phone (310) 834-4868
Fax (310) 834-4772

COMPANY:	ADDRESS:	P.O.#:
NV5	3777 Long Beach Blvd, Long Beach CA 90807	

PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME						AIR FILTER INFORMATION:	
		RUSH	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Paradise Canyon ES	TEM AHERA							MCE	
	PLM Bulk					X		PC	
JOB NUMBER: LCSD-22-11189	PCM Air							25 mm	
	PLM 1000 P.C.	■						37 mm	
JOB MANAGER: Jim Byers	Lead Air							0.45 um	
	Lead Wipe							0.80 um	
JOB DESCRIPTION:	Lead Paint / Soil							TEMP:	
	OTHER:							OTHER:	

INITIAL RESULTS DELIVERY: ☐ FAX ☒ EMAIL ☐ VERBAL ☐ MAIL ONLY	RETURN SAMPLES YES ☐
REPORTS TO: Jim.Byers@nv5.com	PHONE:
INVOICE TO:	FAX:
COMMENTS: STOP POSITIVE	EMAIL:
	CELL:

SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
O-24	Root cone						12/2/22
-25	Planter coating						
-26	↓						
-27	↓						
E-16	Roofing debris						
-17	↓						
-18	↓						
-19	Root cone						
-20	↓						
-21	↓						
-22	Planter coating						
-23	↓						
-24	↓						
F-01	12" Fissured ceiling tile						
-02	↓						
-03	↓						
-04	12" White Fissured ceiling tile						
-05	↓						
-06	↓						
-07	Carpet glue						

SAMPLED BY: Jorge Robles	DATE/TIME: 12/2/22	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY:	DATE/TIME:	RECEIVED IN LAB BY: Glenda Veron GMH	DATE/TIME: 12/2/22 11:30

922121142

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Asbestos / Lead Analysis Chain of Custody

AMERISCI JOB #: ~~922121099~~ GL 12/3/22

AMERISCI LOS ANGELES
24416 S Main St. Suite 308
Carson, CA 90745
Phone (310) 834-4868
Fax (310) 834-4772

COMPANY:	ADDRESS:	P.O.#:
NV5	3777 Long Beach Blvd, Long Beach CA 90807	

PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME						AIR FILTER INFORMATION:	
		RUSH	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Paradise Canyon ES	TEM AHERA							MCE	
	PLM Bulk					X		PC	
JOB NUMBER: LCSD-22-11189	PCM Air							25 mm	
	PLM 1000 P.C.	■						37 mm	
JOB MANAGER: Jim Byers	Lead Air							0.45 um	
	Lead Wipe							0.80 um	
JOB DESCRIPTION:	Lead Paint / Soil							TEMP:	
	OTHER:							OTHER:	

INITIAL RESULTS DELIVERY: ☐ FAX ☒ EMAIL ☐ VERBAL ☐ MAIL ONLY	RETURN SAMPLES YES ☐
REPORTS TO: Jim.Byers@nv5.com	PHONE:
INVOICE TO:	FAX:
COMMENTS: STOP POSITIVE	EMAIL:
	CELL:

SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
F-08	carpet glue						12/2/22
-09	1						
-10	window putty						
-11	↓						
-12	↓						
-13	4" green coving w/ glue						
-14	↓						
-15	↓						
-16	12" White Floor tile w/ glue & 9" Beige						
-17	Floor tile w/ black mastic						
-18	↓						
-19	Roofing debris						
-20	↓						
-21	↓						
-22	Planter coating						
-23	↓						
-24	↓						
-25	Roof core						
-26	↓						
-27	↓						↓

SAMPLED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Jorge Robles	12/2/22		
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
	12/8/22 1100		
RELINQUISHED BY:	DATE/TIME:	RECEIVED IN LAB BY:	DATE/TIME:
		Glenda Lucas GL	12/9/22 @ 11:30

922121142

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Asbestos / Lead Analysis Chain of Custody

AMERISCI JOB #: 922121099 GL 12/13/22

AMERISCI LOS ANGELES
24416 S Main St. Suite 308
Carson, CA 90745
Phone (310) 834-4868
Fax (310) 834-4772

COMPANY:	ADDRESS:	P.O.#:
NV5	3777 Long Beach Blvd, Long Beach CA 90807	

PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME						AIR FILTER INFORMATION:	
		RUSH	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Paradise Canyon ES	TEM AHERA							MCE	
	PLM Bulk					X		PC	
JOB NUMBER: LCSD-22-11189	PCM Air							25 mm	
	PLM 1000 P.C.	■						37 mm	
JOB MANAGER: Jim Byers	Lead Air							0.45 um	
	Lead Wipe							0.80 um	
JOB DESCRIPTION:	Lead Paint / Soil							TEMP:	
	OTHER:							OTHER:	

INITIAL RESULTS DELIVERY: ☐ FAX ☒ EMAIL ☐ VERBAL ☐ MAIL ONLY	RETURN SAMPLES YES ☐
REPORTS TO: Jim.Byers@nv5.com	PHONE:
INVOICE TO:	FAX:
COMMENTS: STOP POSITIVE	EMAIL:
	CELL:

SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
17-01	12" White Floor Tile w/ glue & 9" Beige						12/2/22
-02	Floor tile w/ black mastic						
-03	↓						
-04	12" Fissured ceiling tile						
-05							
-06	↓						
-07	carpet glue w/ residual black mastic						
-08							
-09	↓						
-10	4" Green coveborse w/ glue						
-11							
-12	↓						
-13	Window putty						
-14							
-15	↓						
-16	Plaster coating						
-17							
-18	↓						
-19	Roofing debris						
-20	↓						

SAMPLED BY: Jorge Robles	DATE/TIME: 12/2/22	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY:	DATE/TIME: 12/8/22 1100	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY:	DATE/TIME:	RECEIVED IN LAB BY: Glenda Luzon	DATE/TIME: 12/8/22 @ 11:30

922121142

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Asbestos / Lead Analysis Chain of Custody

AMERISCI JOB #: 922121049 GU 12/13/22

AMERISCI LOS ANGELES
24416 S Main St. Suite 308
Carson, CA 90745
Phone (310) 834-4868
Fax (310) 834-4772

COMPANY:	ADDRESS:	P.O.#:
NV5	3777 Long Beach Blvd, Long Beach CA 90807	

PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME						AIR FILTER INFORMATION:	
		RUSH	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Paradise Canyon ES	TEM AHERA							MCE	
	PLM Bulk					X		PC	
JOB NUMBER: LCSD-22-11189	PCM Air							25 mm	
	PLM 1000 P.C.	■						37 mm	
JOB MANAGER: Jim Byers	Lead Air							0.45 um	
	Lead Wipe							0.80 um	
JOB DESCRIPTION:	Lead Paint / Soil							TEMP:	
	OTHER:							OTHER:	

INITIAL RESULTS DELIVERY: ☐ FAX ☐ EMAIL ☐ VERBAL ☐ MAIL ONLY	RETURN SAMPLES YES ☐
REPORTS TO: Jim.Byers@nv5.com	PHONE:
INVOICE TO:	FAX:
COMMENTS: STOP POSITIVE	EMAIL:
	CELL:

SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
H-21	Roofing debris						12/2/22
-22	roof core						
-23	↓						
-24	↓						
-25	White/black roof mastic						
-26	↓						
-27	↓						
J-01	12" White Floor tile w/glue & 9" base						
-02	Floor tile w/ mastic						
-03	↓						
-04	Carpet glue						
-05	↓						
-06	↓						
-07	4" Green cove base w/glue						
-08	↓						
-09	↓						
-10	12" Fissured ceiling tile						
-11	↓						
-12	↓						
-13	window putty						

SAMPLED BY: Jorge Robles	DATE/TIME: 12/2/22	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY:	DATE/TIME: 12/8/22 1100	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY:	DATE/TIME:	RECEIVED IN LAB BY: Glenda Lutas	DATE/TIME: 12/9/22 @ 11:30

ENVIRONMENTAL LABORATORIES LLC

1508 East 33rd Street
Signal Hill, CA 90755
Tel: 562-206-2770
Fax: 562-206-2773

Alta Environmental
3777 Long Beach Blvd.
Long Beach CA 90807
Attn.: Jim Byers

Report Number 2251946

Project Number LCSD-22-11189
Project Name Paradise Canyon
Location La Canada, CA
PO Number PLM Ref. #2251463
WO Number

Date Received 12/13/2022
Date Analyzed 12/16/2022
Date Reported 12/16/2022

Date Sampled 11/02/2022
Sampled By Jorge Robles
Total Samples 5

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)
2251946-001	Rm 17, NE					
R-02B	Mastic, Note: Not Analyzed-Insufficient Material					
	Asbestos Present:	Total % Non-Asbestos:	Not Analyzed		**Total %Asbestos:**	**Not Analyzed**
2251946-002	Rm 18, by sink					
R-03B	Mastic, Note: Not Analyzed-Insufficient Material					
	Asbestos Present:	Total % Non-Asbestos:	Not Analyzed		**Total %Asbestos:**	**Not Analyzed**
2251946-003	Rm 18, window					
R-13	Window Putty, White/Gray, Non-homogeneous	LAYER 1 100%	Acid Soluble Material	81.15%	Chrysotile	0.88%
			Organic/Volatile Material	8.97%		
			Non-Asbestos Residue	9.00%		
1000 pt. POINT COUNT						
	Asbestos Present: Yes	Total % Non-Asbestos:		99.12%	**Total %Asbestos:**	**0.88%**
2251946-004	Rm 17, SW					
R-14	Window Putty, White/Gray, Non-homogeneous	LAYER 1 100%	Acid Soluble Material	85.70%	Chrysotile	0.42%
			Organic/Volatile Material	8.90%		
			Non-Asbestos Residue	4.98%		
1000 pt. POINT COUNT						
	Asbestos Present: Yes	Total % Non-Asbestos:		99.58%	**Total %Asbestos:**	**0.42%**
2251946-005	Rm 17, SE					
R-15	Window Putty, White/Gray, Non-homogeneous	LAYER 1 100%	Acid Soluble Material	75.49%	Chrysotile	0.42%
			Organic/Volatile Material	12.73%		
			Non-Asbestos Residue	11.36%		
1000 pt. POINT COUNT						
	Asbestos Present: Yes	Total % Non-Asbestos:		99.58%	**Total %Asbestos:**	**0.42%**

Point Count was used in laboratory analysis.

ENVIRONMENTAL LABORATORIES LLC

1508 East 33rd Street
Signal Hill, CA 90755
Tel: 562-206-2770
Fax: 562-206-2773

Alta Environmental
3777 Long Beach Blvd.
Long Beach CA 90807
Attn.: Jim Byers

Report Number 2251946

Project Number LCSD-22-11189
Project Name Paradise Canyon
Location La Canada, CA
PO Number PLM Ref. #2251463
WO Number

Date Received 12/13/2022
Date Analyzed 12/16/2022
Date Reported 12/16/2022

Date Sampled 11/02/2022
Sampled By Jorge Robles
Total Samples 5

Method of Analysis 40 CFR Part 763 Appendix E to Subpart E, EPA Method 600/M4-82-020; updated method 600 R-93/116 Determination of Asbestos in Bulk Building Materials.

Test Report

Laboratory ID / Sample No.	Sample Location / Description	Layer No. / Layer %	Non-Asbestos Components	(%)	Asbestos Type	(%)

Method Detection Limit: One tenth of one percent (0.10%). Asbestos content has been determined using the point count method. Samples tested were received in acceptable condition unless otherwise stated. Test report relates only to items tested. Non-homogeneous samples containing discrete and separable layers are analyzed and reported separately; composite results may be reported upon customer's request. Non-homogeneous samples with inseparable layers are analyzed and reported as composite samples. Due to the limitations of Polarized Light Microscopy, samples reported as None Detected or with low asbestos concentrations may not be reliable and further analysis such as TEM is recommended to confirm PLM results. This report shall not be reproduced except in full without the written approval of this laboratory. This report may not be used by the customer to claim product certification, endorsement, or approval by NIST/NVLAP or any agency of the government. Samples shall be disposed according to local, state and federal laws, 30 days after results are reported unless otherwise instructed.

CA-ELAP #2823

Cristina E Tabatt
Analyst - Cristina Tabatt

Cristina E Tabatt
Approved Signatory Cristina E. Tabatt

NVLAP TESTING
NVLAP Lab Code 500044-0

Point Count was used in laboratory analysis.

Please Reply To:

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

LABORATORY ELECTRONIC TRANSMITTAL

To: Project Manager
NV5, Inc.
Fax #:

Email: diane.arredondo@nv5.com, Therese.Rizarri@nv5.com, Jim.Byers@nv5.com

From: Thu M. Nguyen
AmeriSci Job #: 922121186
Subject: PLM 3 day Results
Client Project: LCSD-22-11189; Paradise Canyon

Date: Monday, December 19, 2022
Time: 14:48:09
Comments:

Number of Pages: _____
(including cover sheet)

NOTE: Attached report is to be considered preliminary until final review with accompanying analysis summary letter is issued.

CONFIDENTIALITY NOTICE: Unless otherwise indicated, the information contained in this communication is confidential information intended for use of the individual named above. If the reader of this communication is not the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is prohibited. If you have received this communication in error, please immediately notify the sender by telephone and return the original message to the above address via the US Postal Service at our expense. Samples are disposed of in 60 days or unless otherwise instructed by the protocol or special instructions in writing. Thank you.

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

NV5, Inc.
Attn: Project Manager
3777 Long Beach Blvd.
Annex Building
Long Beach, CA 90807-3335

Date Received 12/15/22
Date Examined 12/16/22

AmeriSci Job # 922121186
P.O. #
Page 1 **of** 2

RE: LCSD-22-11189; Paradise Canyon

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
A-101	922121186-01	***No***	NAD (by CVES) by Thu M. Nguyen on 12/16/22
Location: White Coating on Brick Wall			
Analyst Description: White, Heterogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
B-101	922121186-02	***No***	NAD (by CVES) by Thu M. Nguyen on 12/16/22
Location: White Coating on Brick Wall			
Analyst Description: White, Heterogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
D-101	922121186-03	***No***	NAD (by CVES) by Thu M. Nguyen on 12/16/22
Location: White Coating on Brick Wall			
Analyst Description: White, Heterogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
E-101	922121186-04	***Yes***	Trace (<1 %) (by CVES) by Thu M. Nguyen on 12/16/22
Location: White Coating on Brick Wall			
Analyst Description: White, Heterogeneous, Fibrous, Coating **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			
F-101	922121186-05	***Yes***	Trace (<1 %) (by CVES) by Thu M. Nguyen on 12/16/22
Location: White Coating on Brick Wall			
Analyst Description: White, Heterogeneous, Non-Fibrous, Coating **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

LCSD-22-11189; Paradise Canyon

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
G-101	922121186-06	***No***	NAD (by CVES) by Thu M. Nguyen on 12/16/22
Location: White Coating on Brick Wall			
Analyst Description: White, Heterogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
H-101	922121186-07	***No***	NAD (by CVES) by Thu M. Nguyen on 12/16/22
Location: White Coating on Brick Wall			
Analyst Description: White, Heterogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			
J-101	922121186-08	***No***	NAD (by CVES) by Thu M. Nguyen on 12/16/22
Location: White Coating on Brick Wall			
Analyst Description: White, Heterogeneous, Non-Fibrous, Coating **Asbestos Types:** **Other Material:** Non-fibrous 100%			

Reporting Notes:

Analyzed by: Thu M. Nguyen 
Date: 12/16/2022

Reviewed by: Patricia Weakley 

*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.

AMERI SCI
www.amerisci.com

Asbestos Analysis Chain of Custody

AMERISCI JOB #: 922121186

AMERISCI LOS ANGELES
24416 S Main St. Suite 308
Carson, CA 90745
Phone (310) 834-4868
Fax (310) 834-4772

COMPANY: NV5	ADDRESS: 3777 Long Beach Blvd, Long Beach CA							P.O.#:	
PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME						AIR FILTER INFORMATION:	
		RUSH	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: Paradise Canyon	TEM AHERA							MCE	
	TEM EPA LEVEL II							PC	
JOB NUMBER: LCSD-22-11159	TEM DUST MICROVAC	■						25 mm	
	TEM BULK	■						37 mm	
JOB MANAGER: Jim Byers	PCM							0.45 um	
	PLM BULK				X			0.80 um	
JOB DESCRIPTION:	PLM 1000 P. C.	■						TEMP:	
	OTHER:							OTHER:	

INITIAL RESULTS DELIVERY: ☐ FAX ☐ EMAIL ☐ VERBAL ☐ MAIL ONLY

RETURN SAMPLES YES ☐

REPORTS TO: Jim.Byers@NV5.com

PHONE:

INVOICE TO:

FAX:

COMMENTS:

EMAIL:

PAGER/CELL:

SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
A-101	white coating on Brick wall.						12/14/22
B-101							
D-101							
E-101							
F-101							
G-101							
H-101							
J-101							

SAMPLED BY: Jorge Robles 12/14/22 0800	DATE/TIME:	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY: Jorge Robles 12/15/22 1350	DATE/TIME:	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY:	DATE/TIME:	RECEIVED IN LAB BY: Glenda Lizon GL 12/15/22 16:00	DATE/TIME:

Appendix C

Sample Location Maps: Asbestos and Lead

NV5

ALTA ENVIRONMENTAL

Scale None

Sheet 1 of 1

Project Name Paradise Canyon E.S. Hazmat

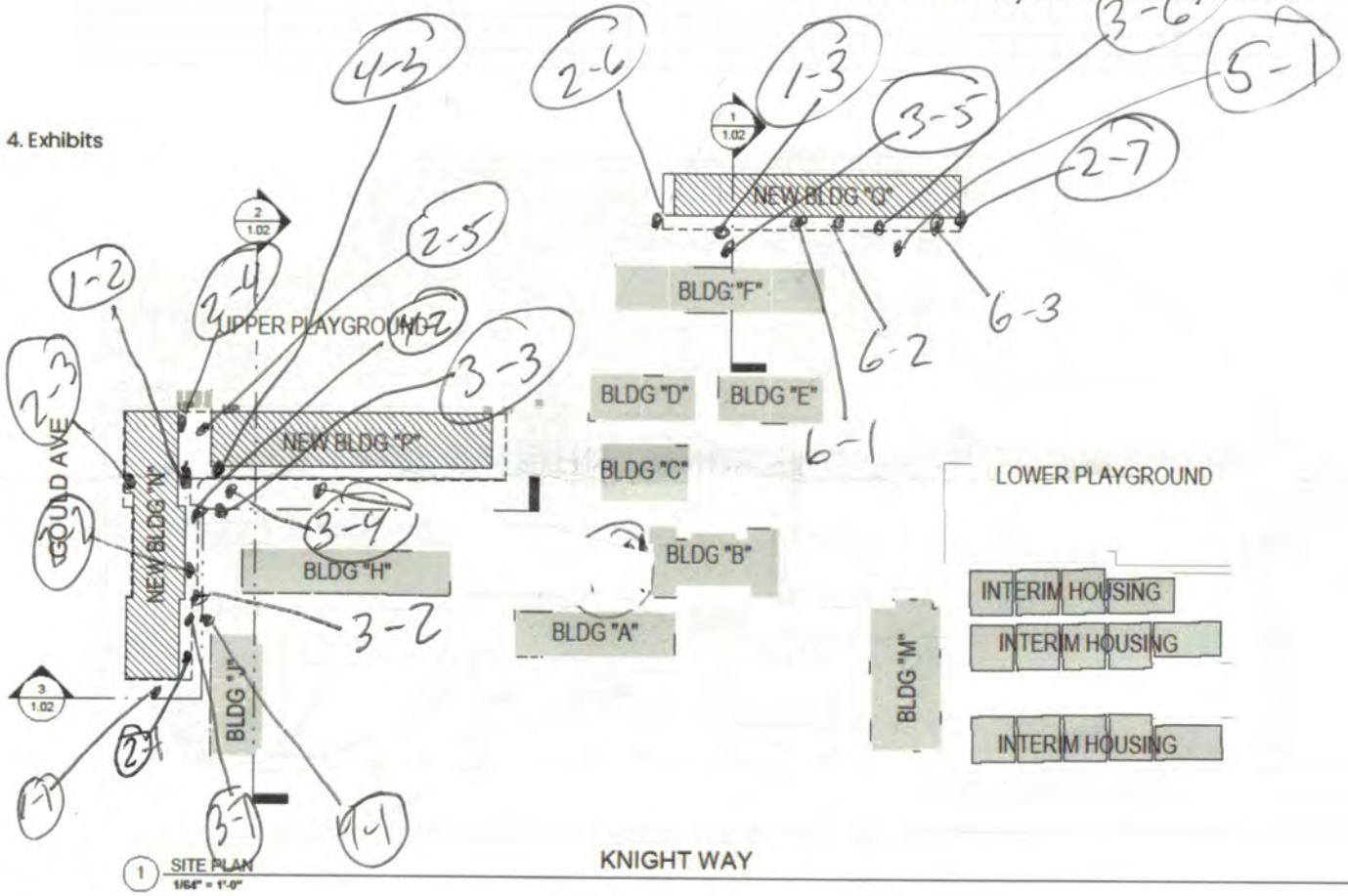
Project No./Task No. LCSD-22-11189

Calculated by _____ Date _____

Checked by _____ Date _____

Samples by Tom Jenkins, CSST
10/28/2022
Paradise Canyon Elementary School

4. Exhibits



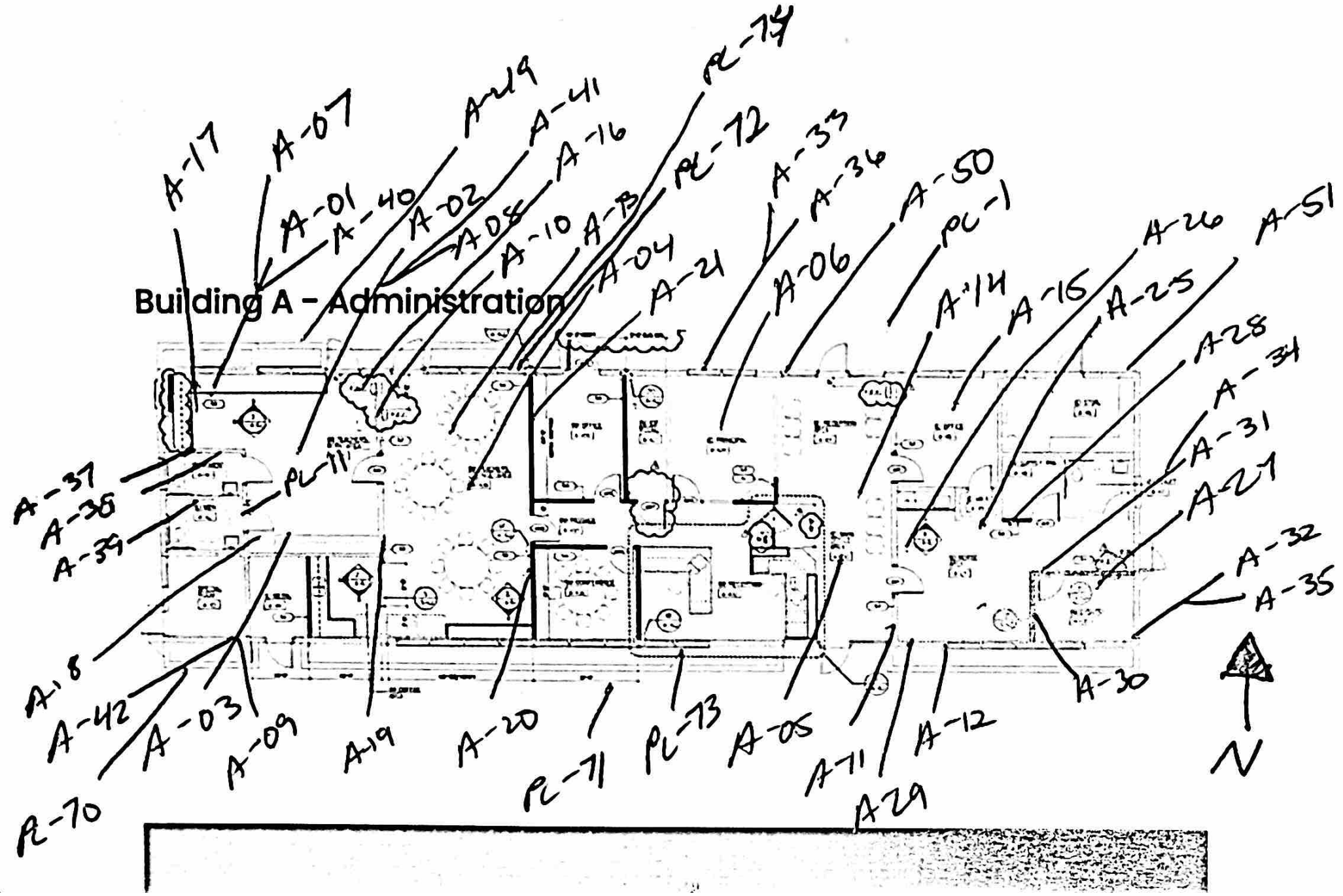
1 SITE PLAN
1/64" = 1'-0"

PARADISE CANYON ES MODERNIZATION
LCUSD
April 29, 2022

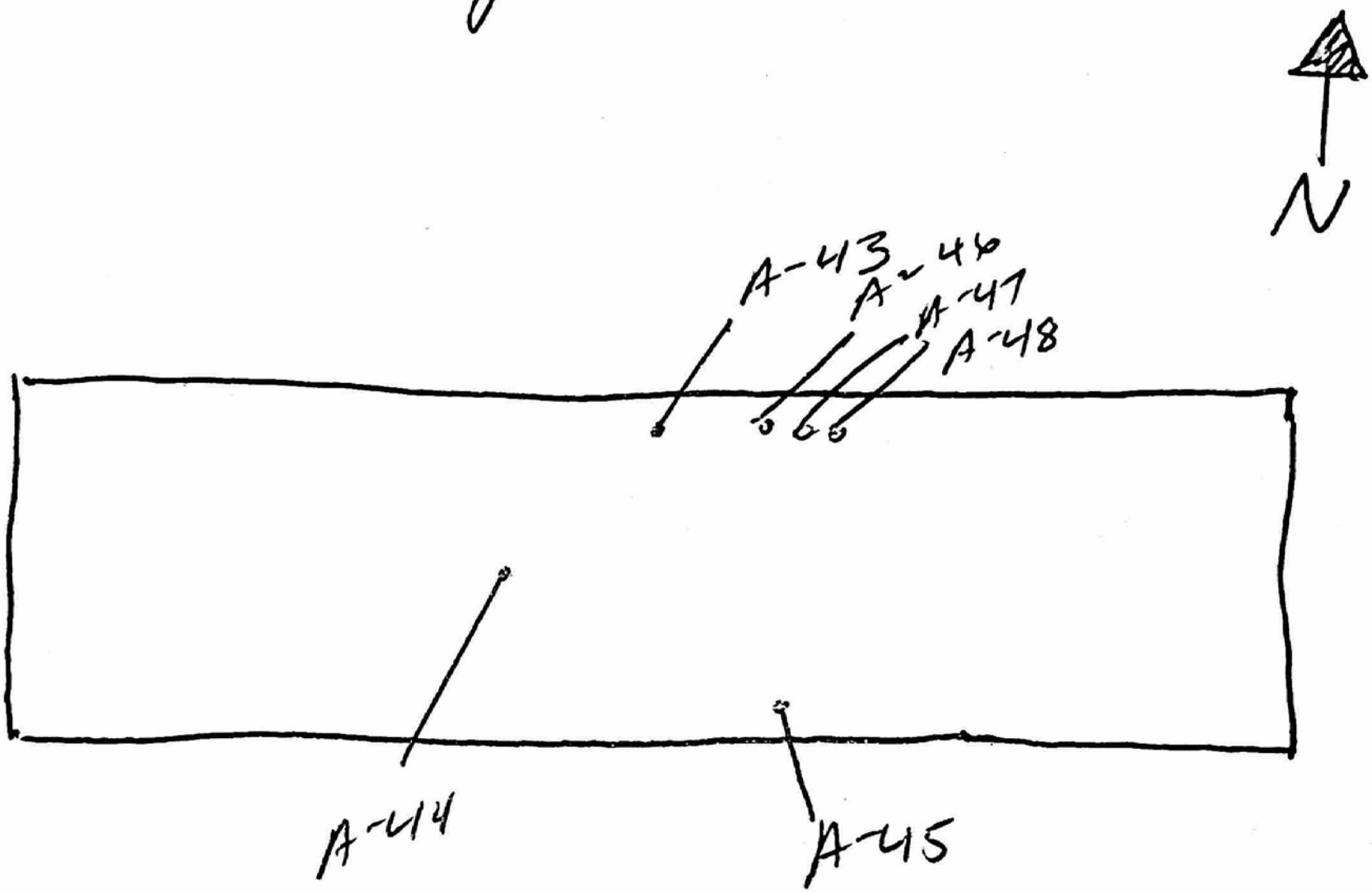
1.01
SITE PLAN

Tom Jenkins, CSST
10/28/22

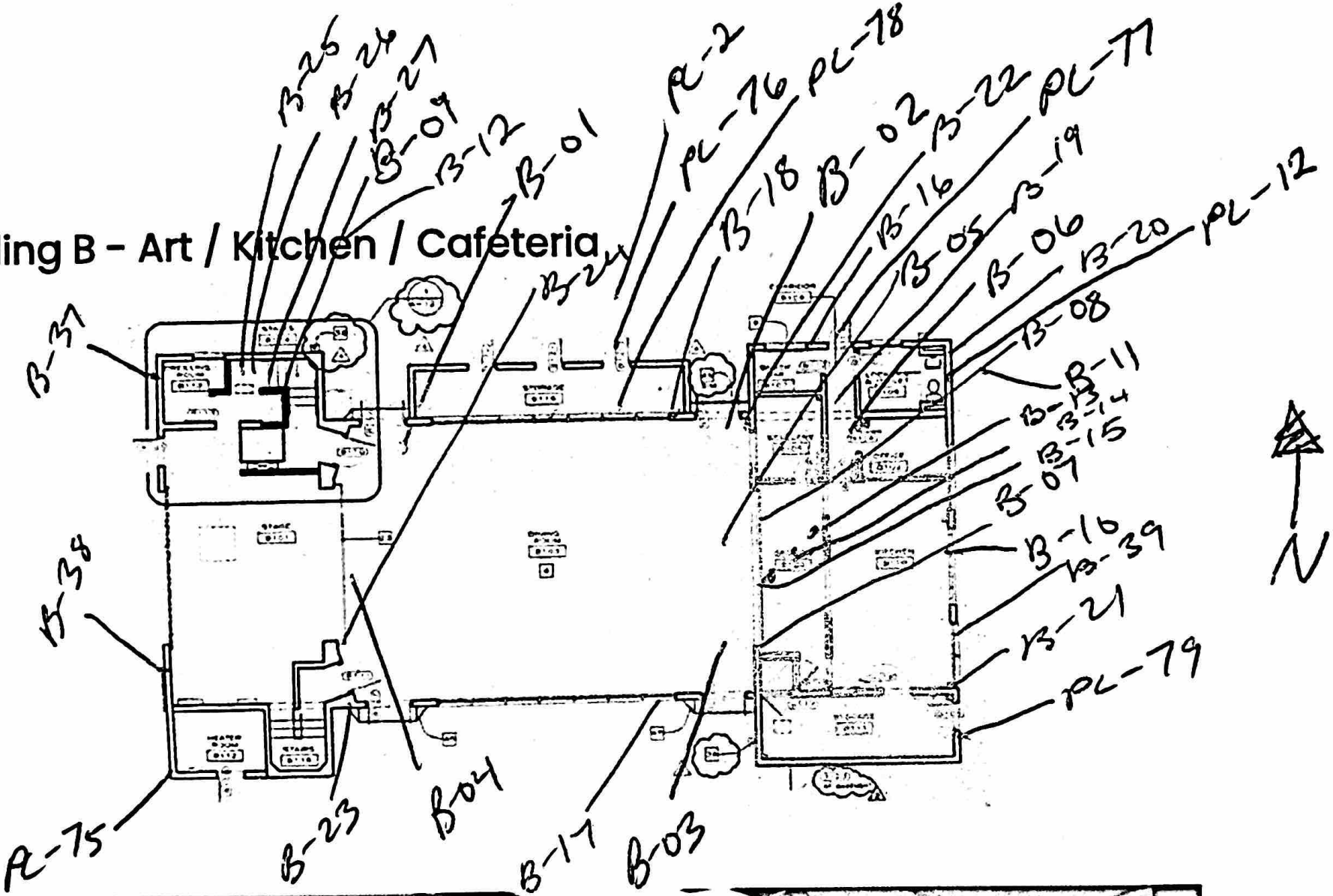
Received by: Justine Pabro
10/31/2022 0800


Building A – Administration
A-17
A-07
A-19
A-41
A-16
A-01
A-40
A-02
A-08
A-10
A-B
A-04
A-21
A-33
A-36
A-06
A-50
PC-1
A-14
A-16
A-26
A-25
A-51
A-28
A-31
A-31
A-27
A-32
A-35
A-30
A-37
A-38
A-39
PC-11
A-18
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A-12
A-29
R-70
N

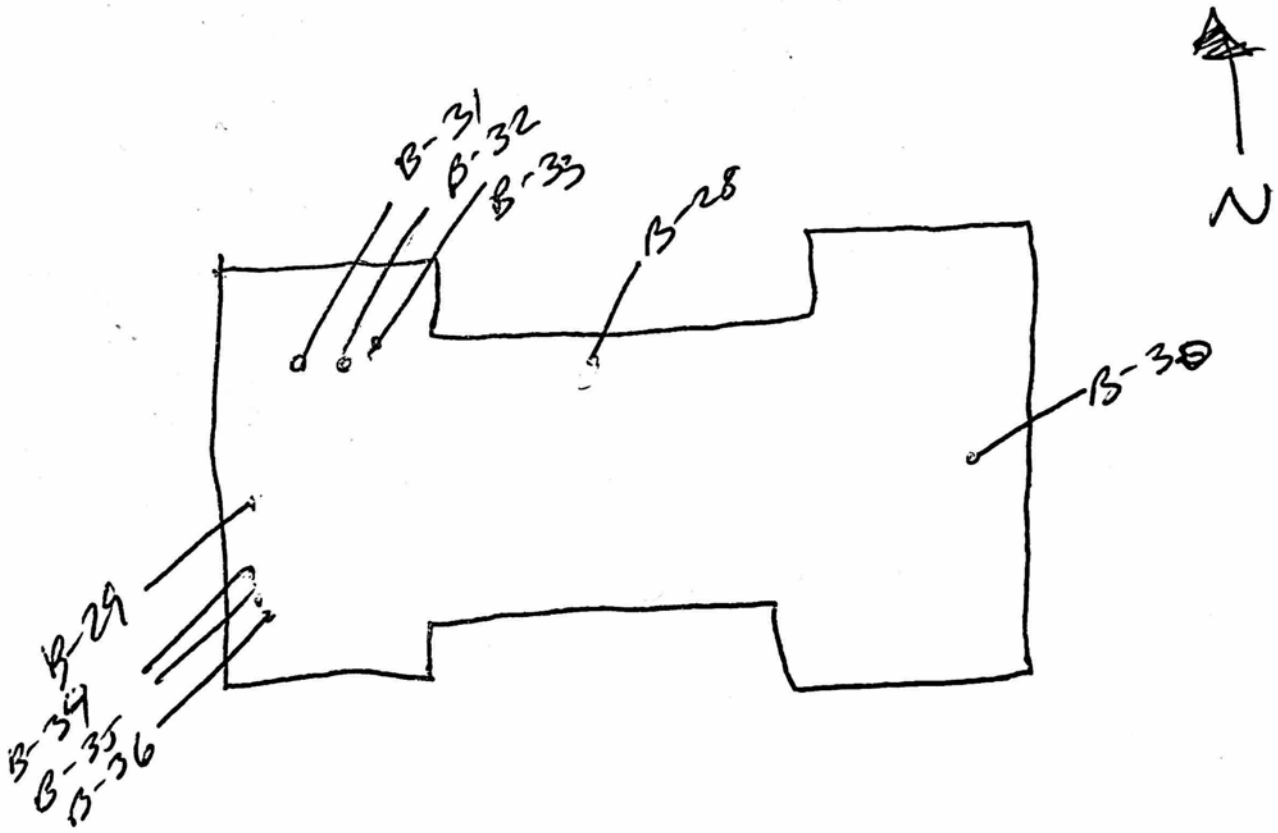
Bldg A Roof



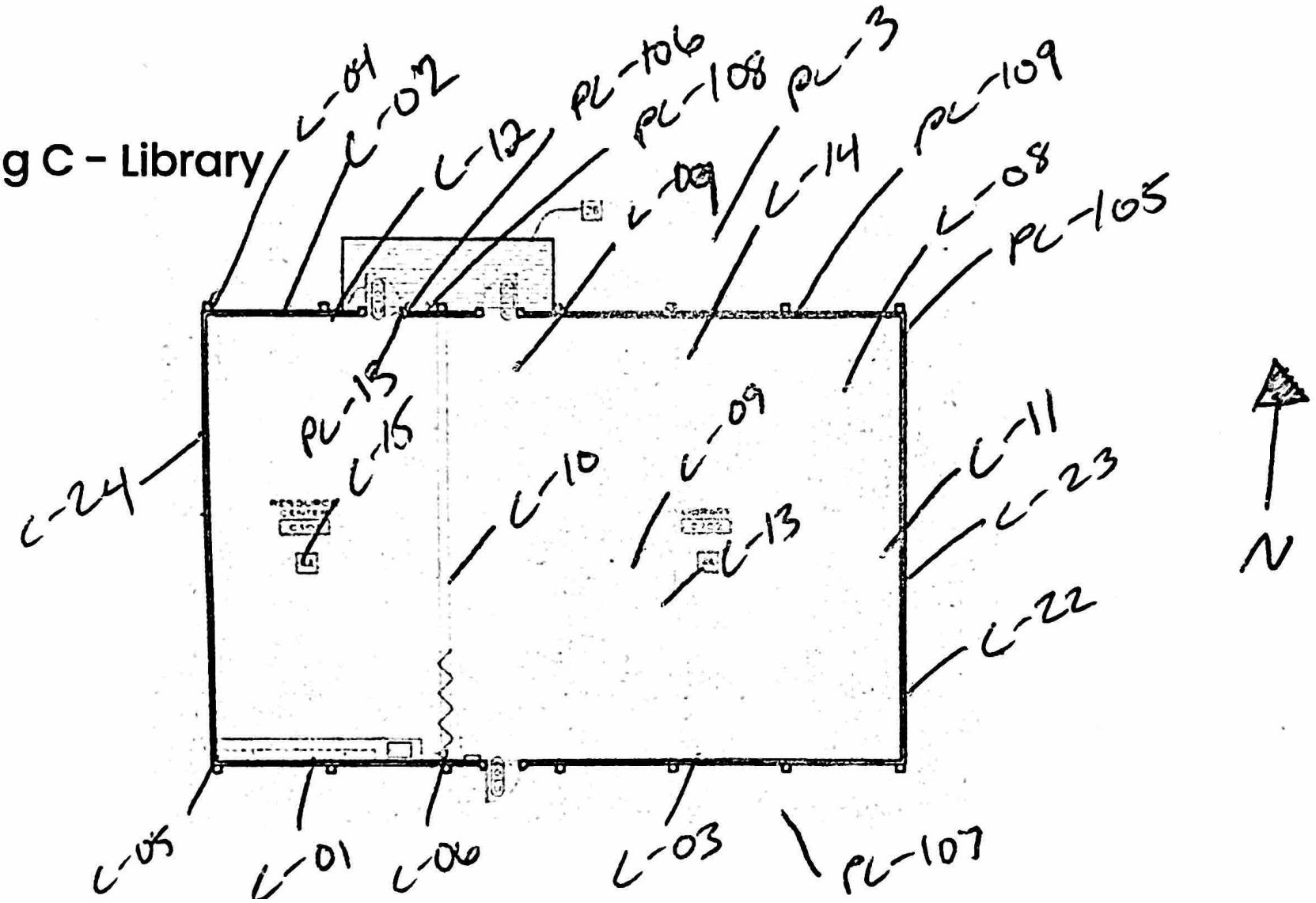
Building B – Art / Kitchen / Cafeteria



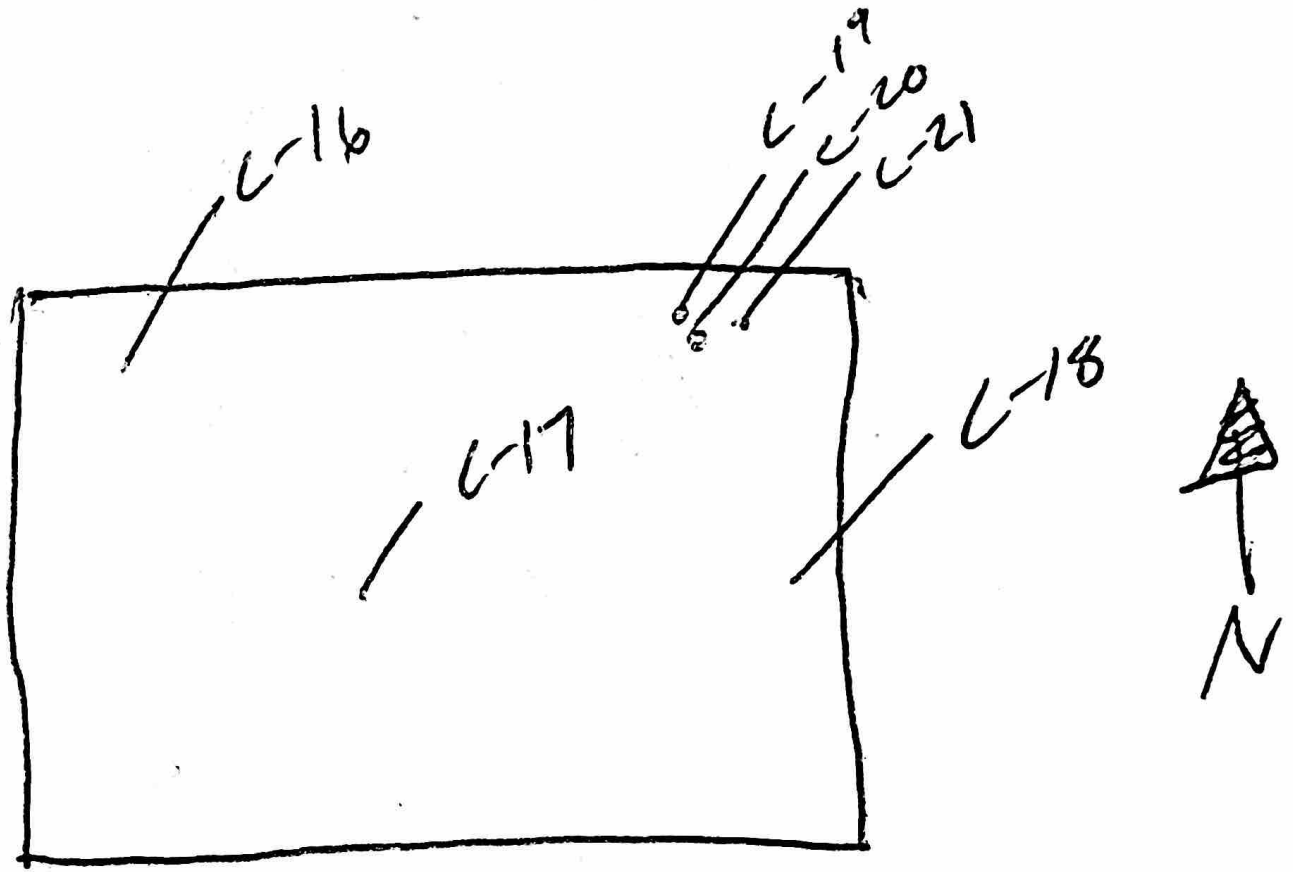
Bldg B Roof



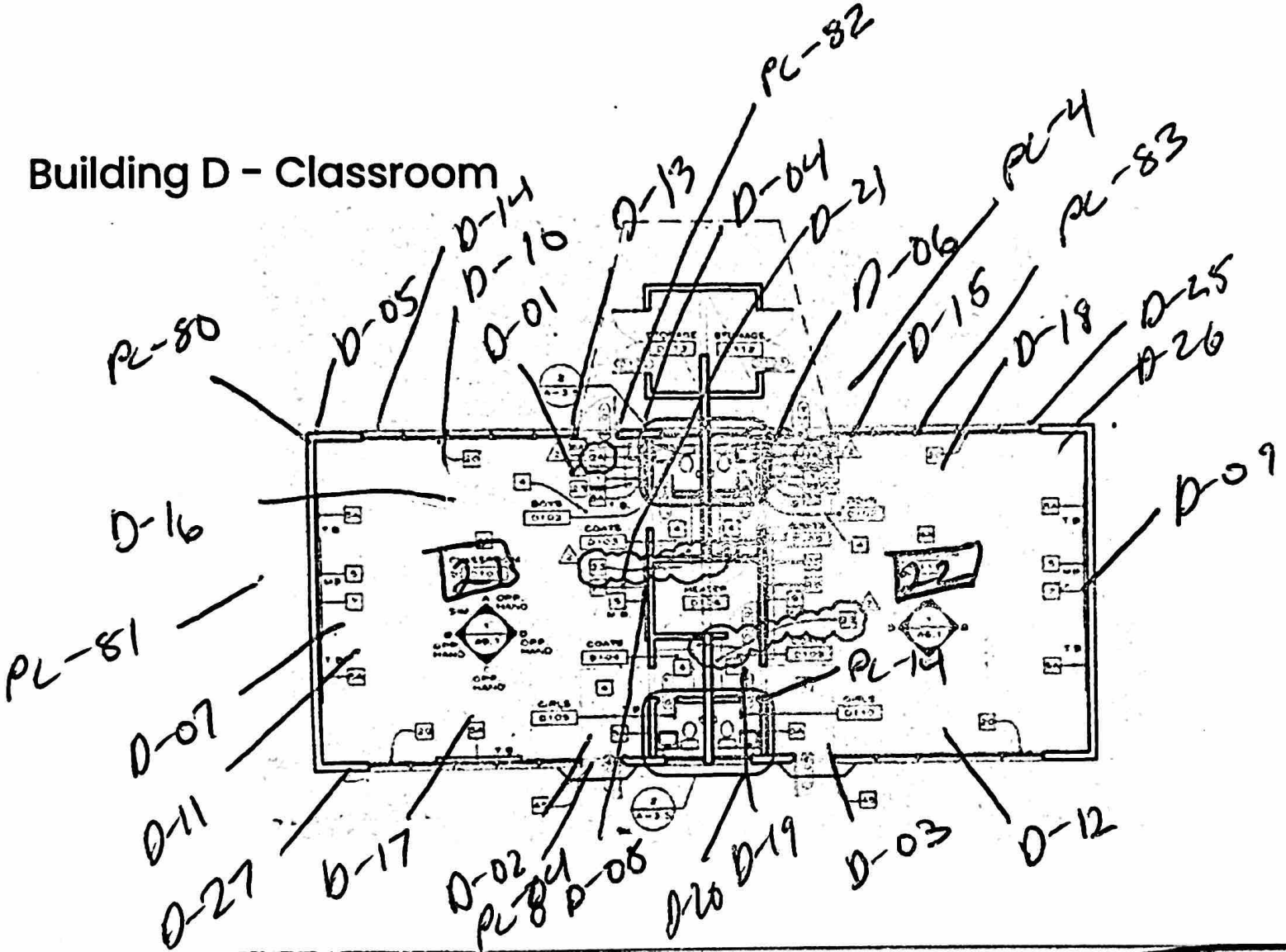
Building C - Library



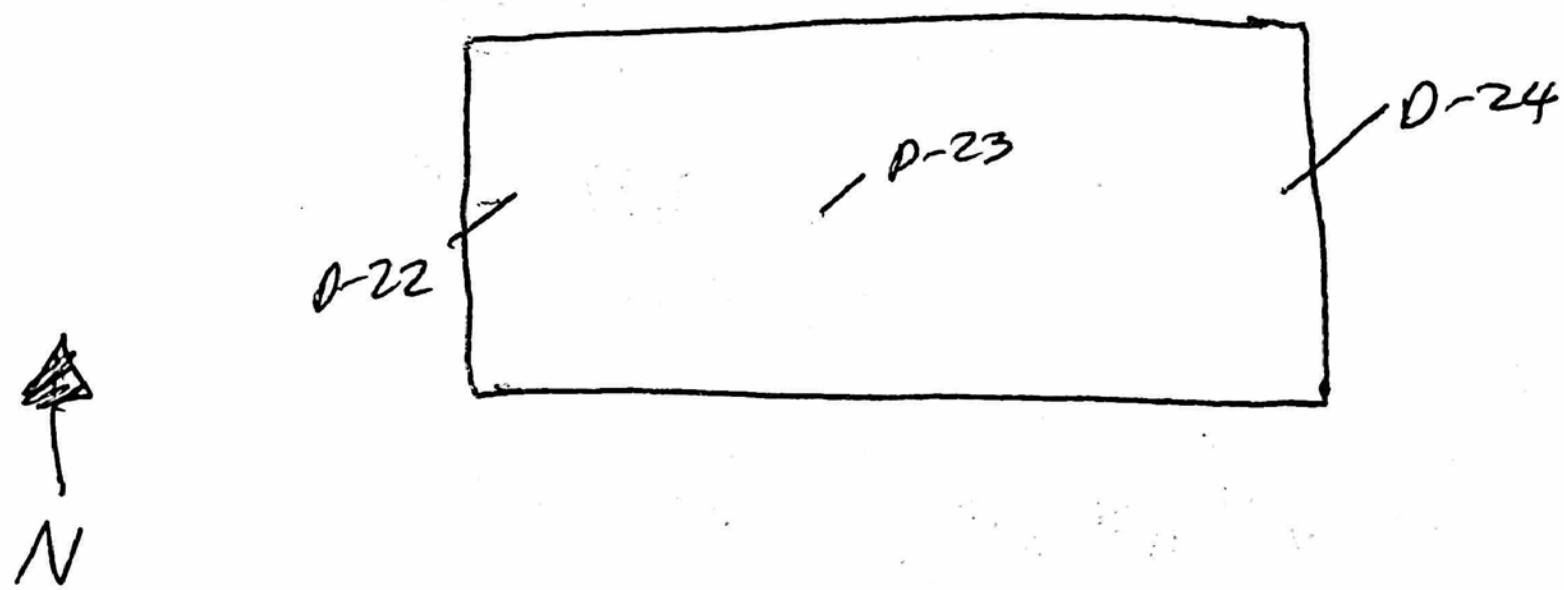
Bldg C Roof



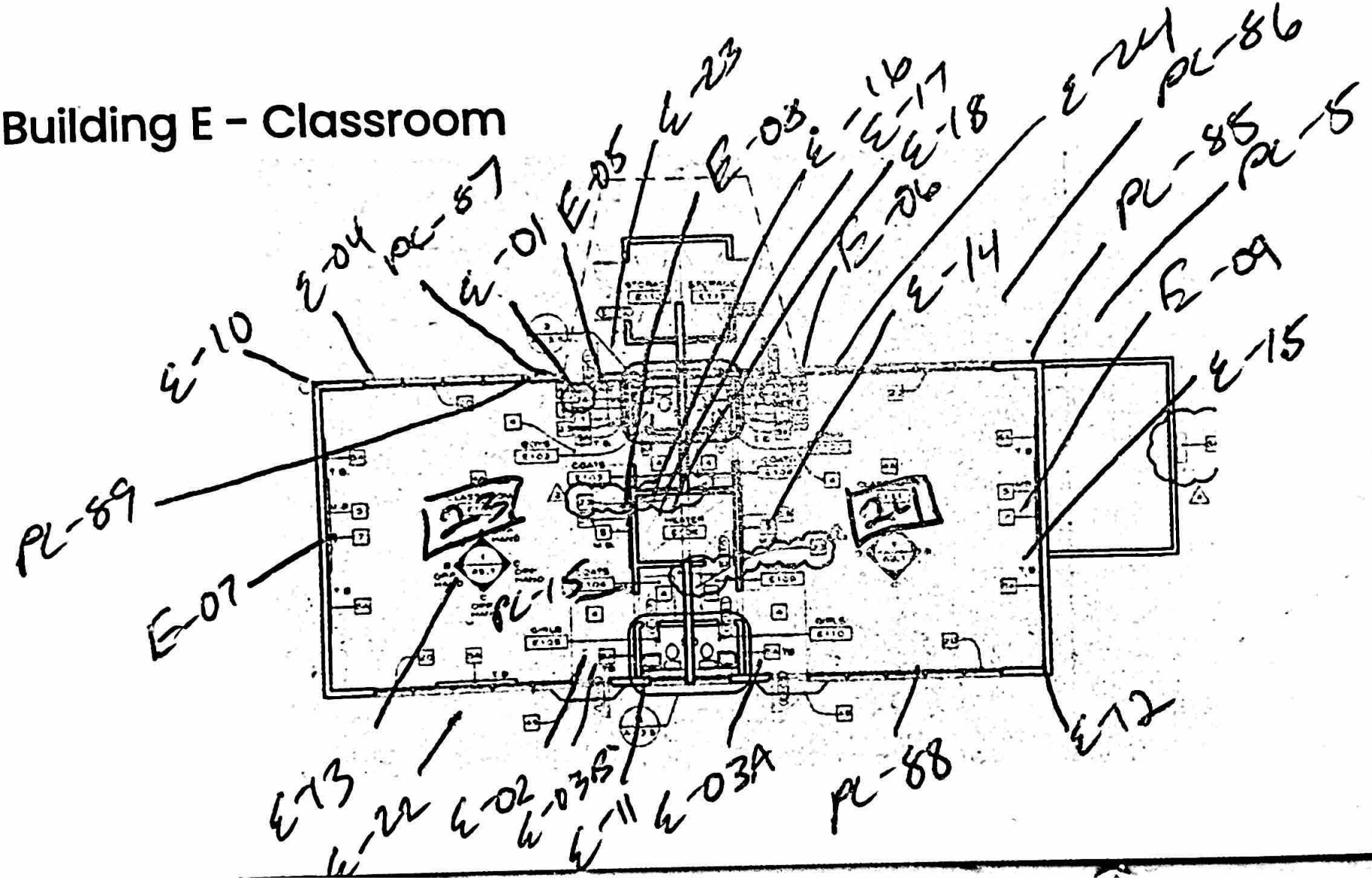
Building D - Classroom



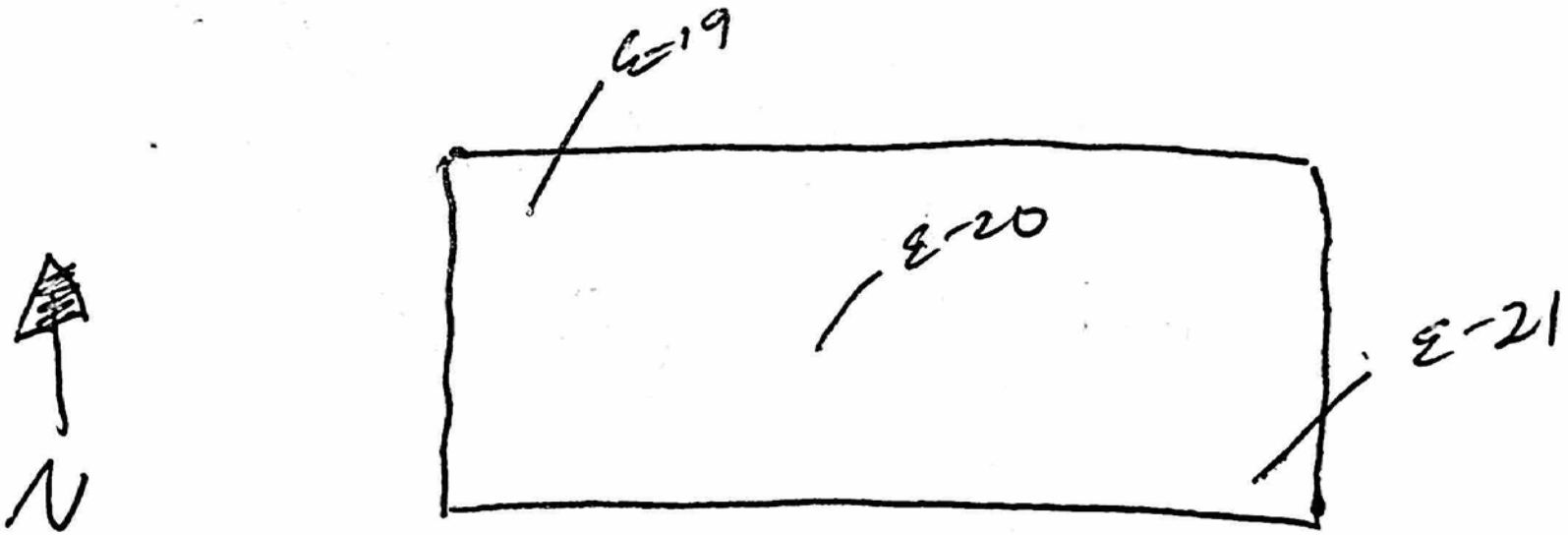
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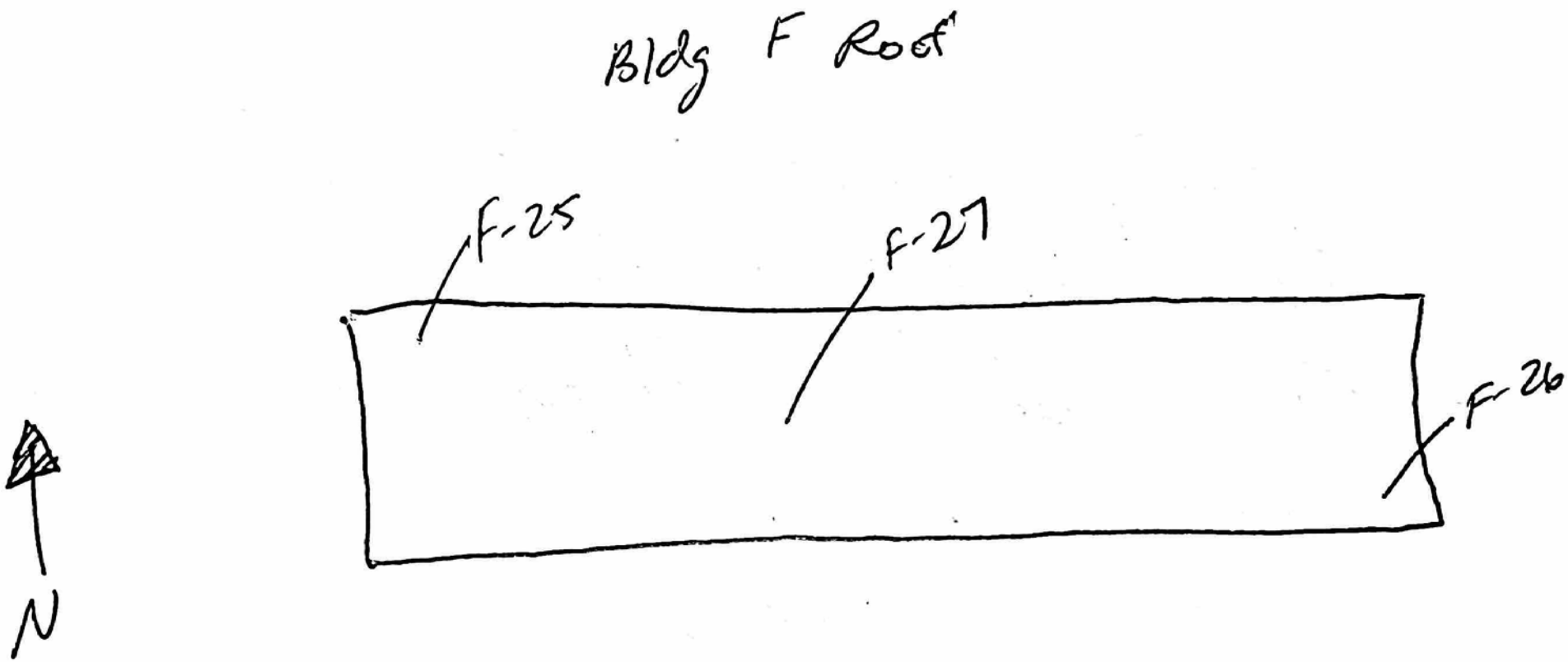
Building E - Classroom

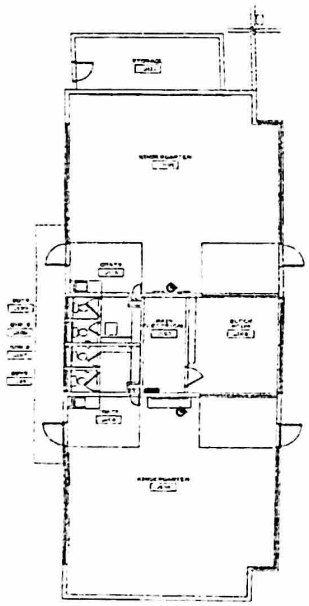


Bldg E Roof

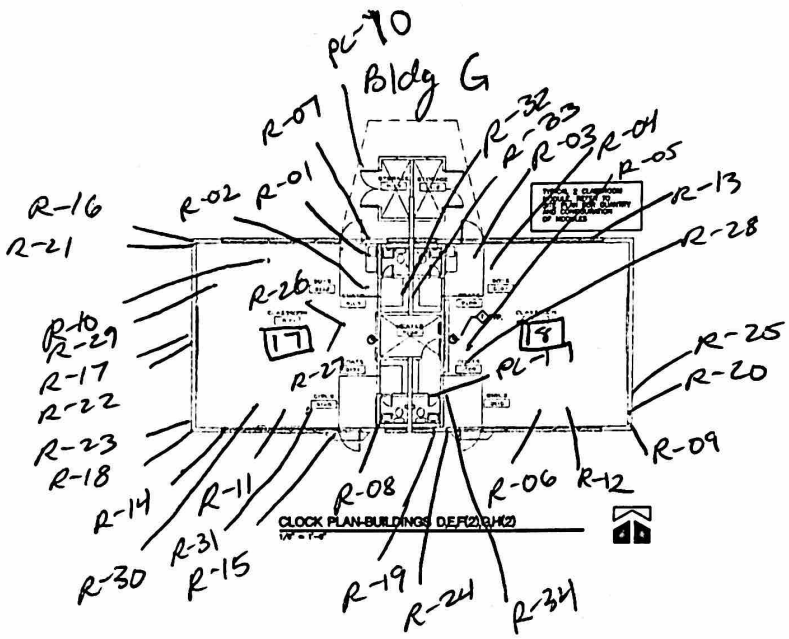


Building F - Classroom

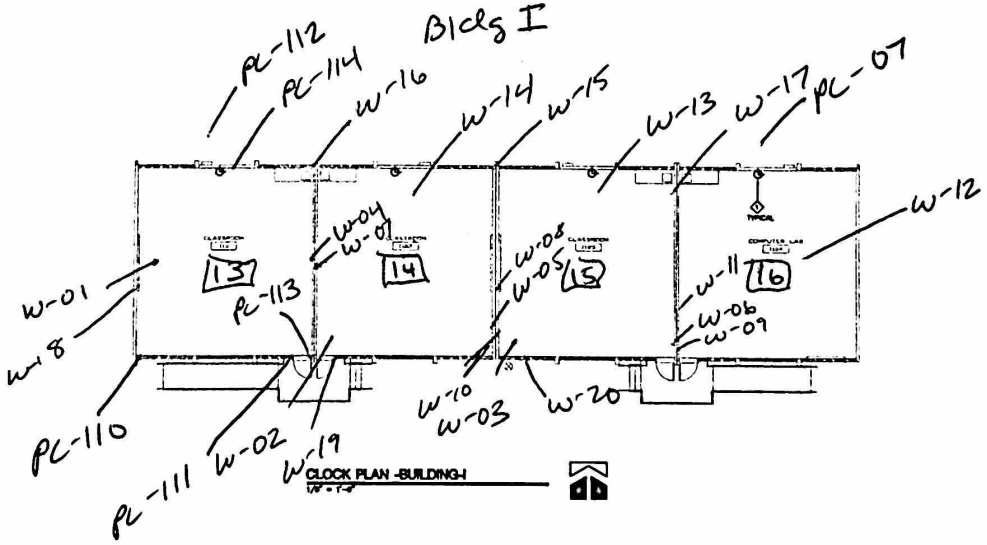

Bldg F Roof
F-25
F-27
F-26
N



CLOCK PLAN -BUILDING-J



CLOCK PLAN-BUILDINGS D,E,F(2),G,H(2)



CLOCK PLAN -BUILDING-I

SHEET NOTES

1. PROVIDE CLOCK @ ALL LOCATIONS INDICATED. WHERE NEW CLOCKS EXIST, REMOVE EXISTING CLOCK & ASSOCIATED WORK AND PLACE NEW CLOCK OVER EXISTING BACKBOX. TYPICAL.

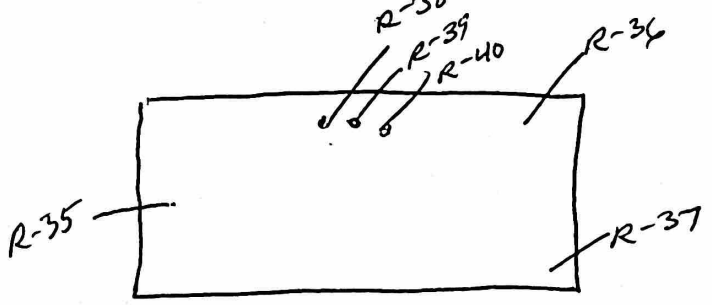
MODERNIZATION TO:
PARADISE CANYON ELEMENTARY SCHOOL - PHASE 2
LA CANADA UNIFIED SCHOOL DISTRICT
LA CANADA, CALIFORNIA

CLOCK PLAN - BUILDING - D, E, F, G, H, I & J

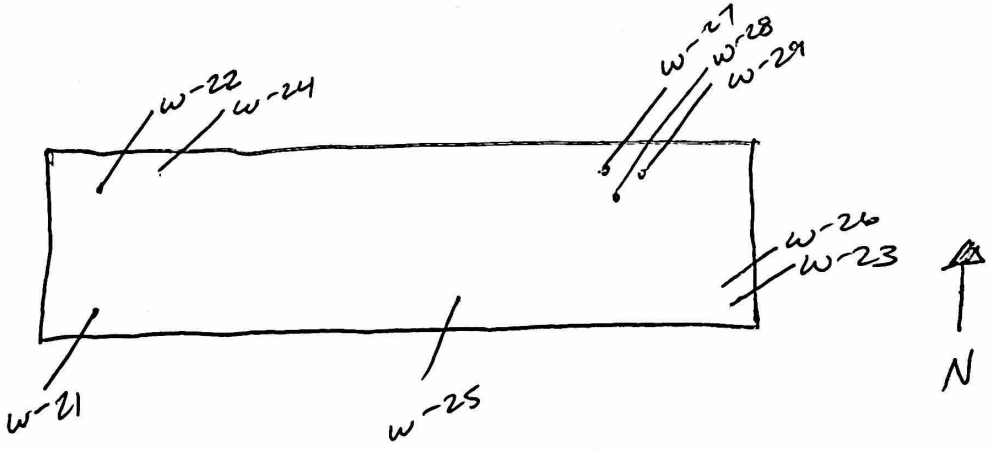
NTD

E-2.1

Bldg G Roof

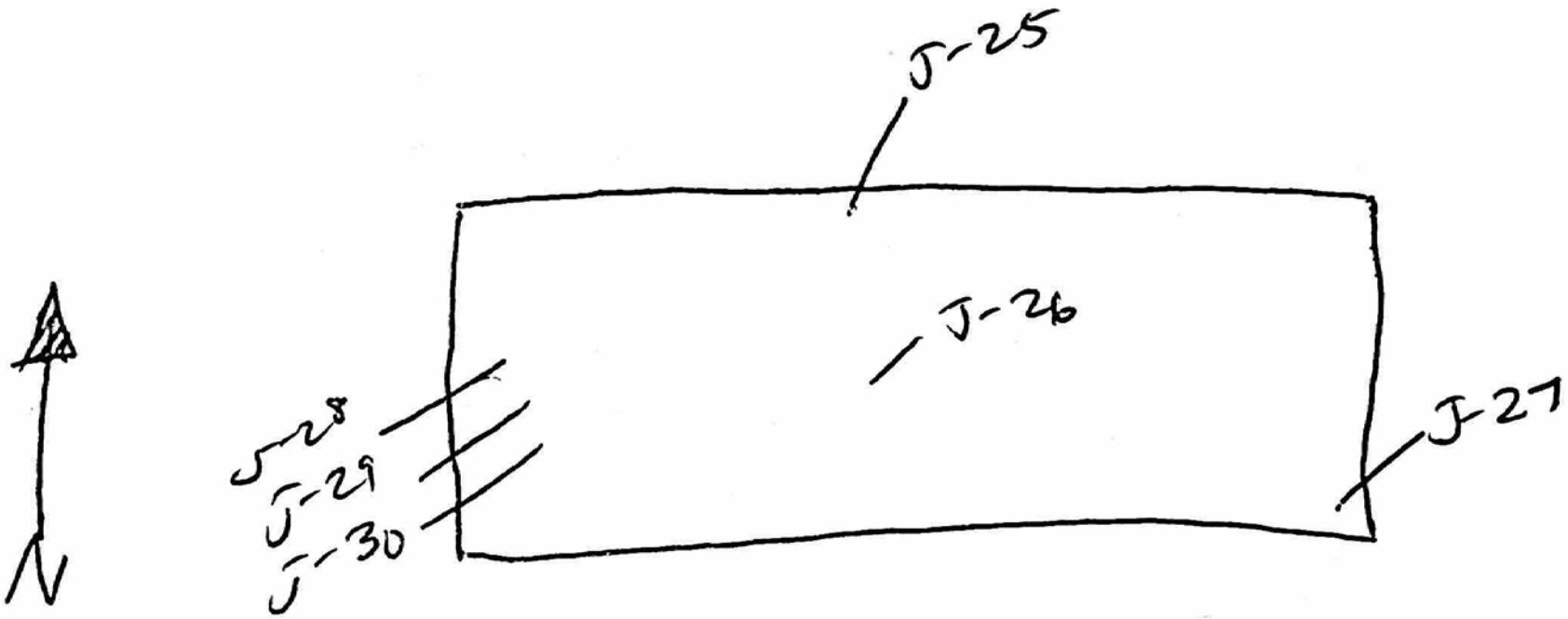


Bldg I Roof



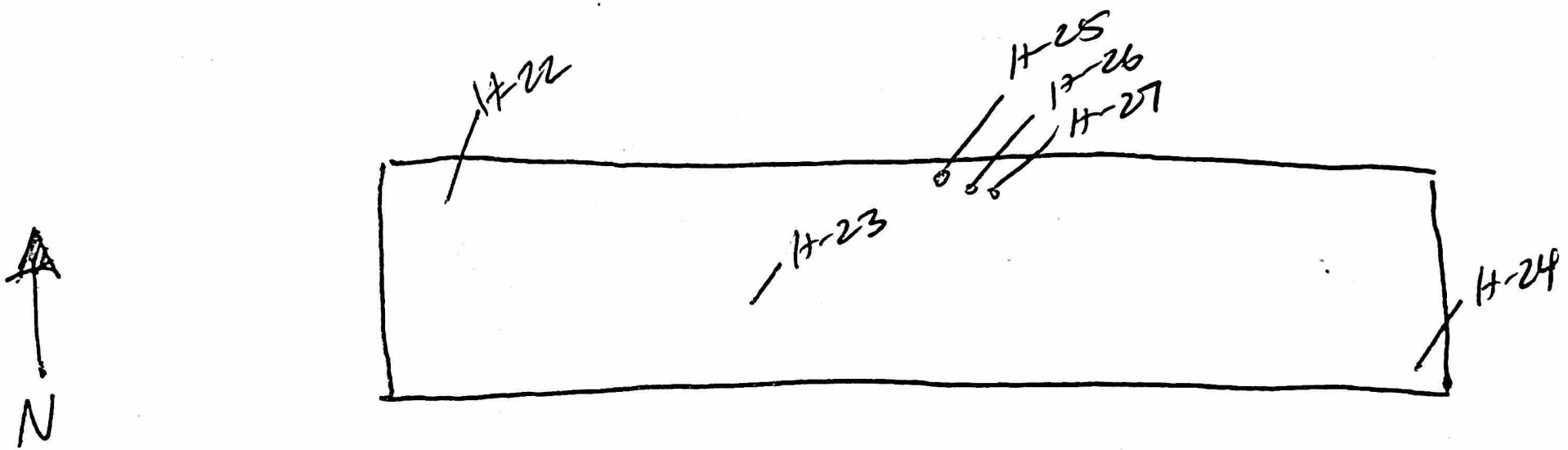
Building J - Classrooms

Bldg J Roof



Building H – Classroom

Bldg H Roof



NV5

ALTA ENVIRONMENTAL

Sheet ____ of ____

Project Name Paradise Canyon

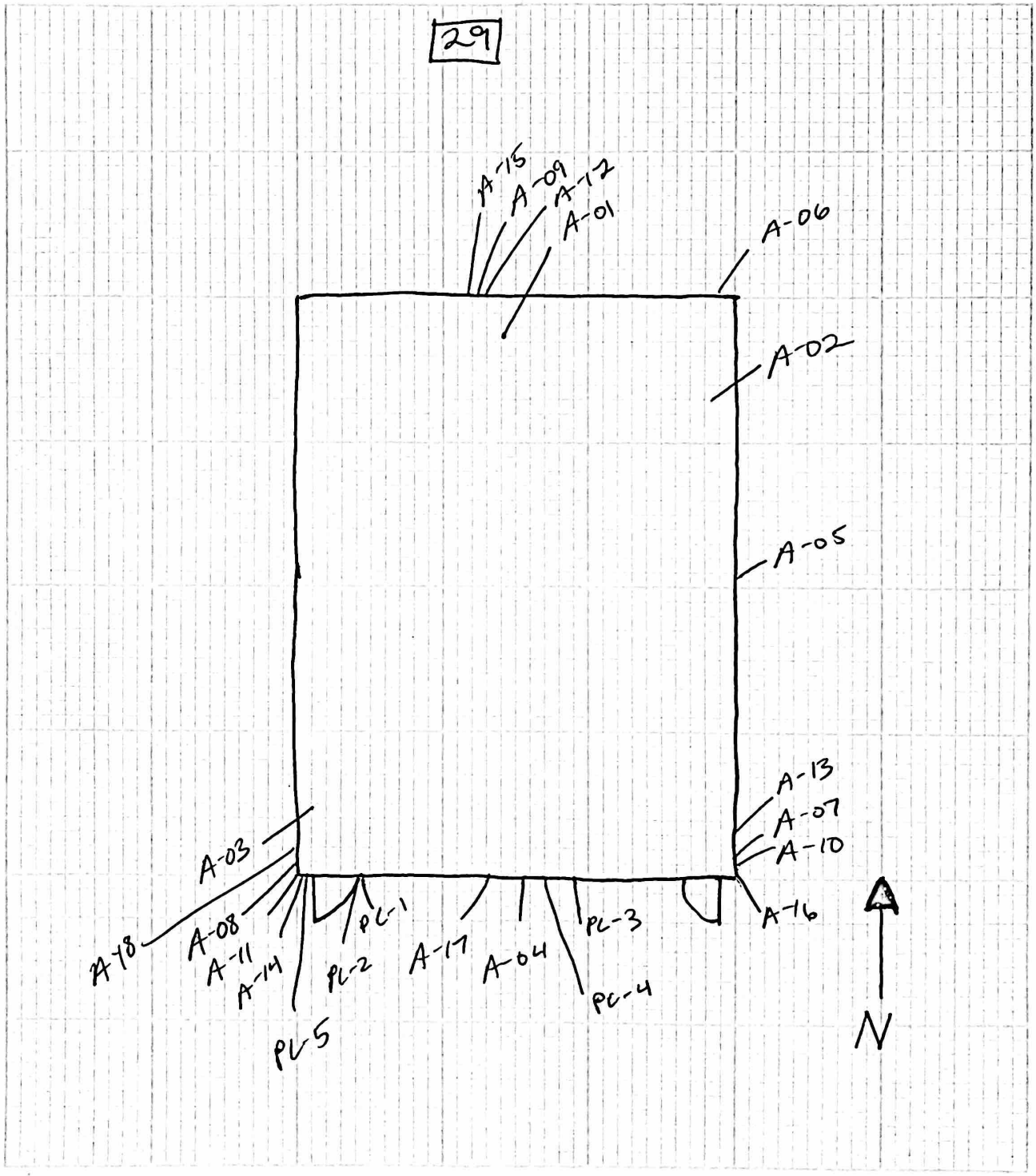
Project No./Task No. LCSD-22-11189

Calculated by Jorge R. Date ____

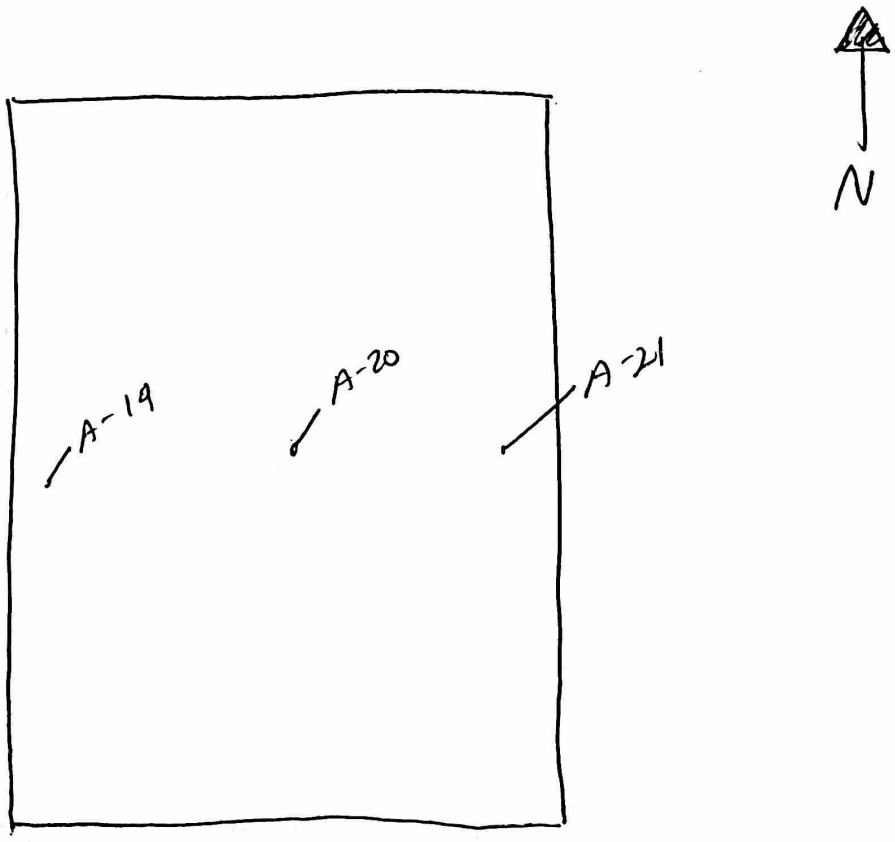
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Checked by ____ Date ____

29



29 Roof



NV5

ALTA ENVIRONMENTAL

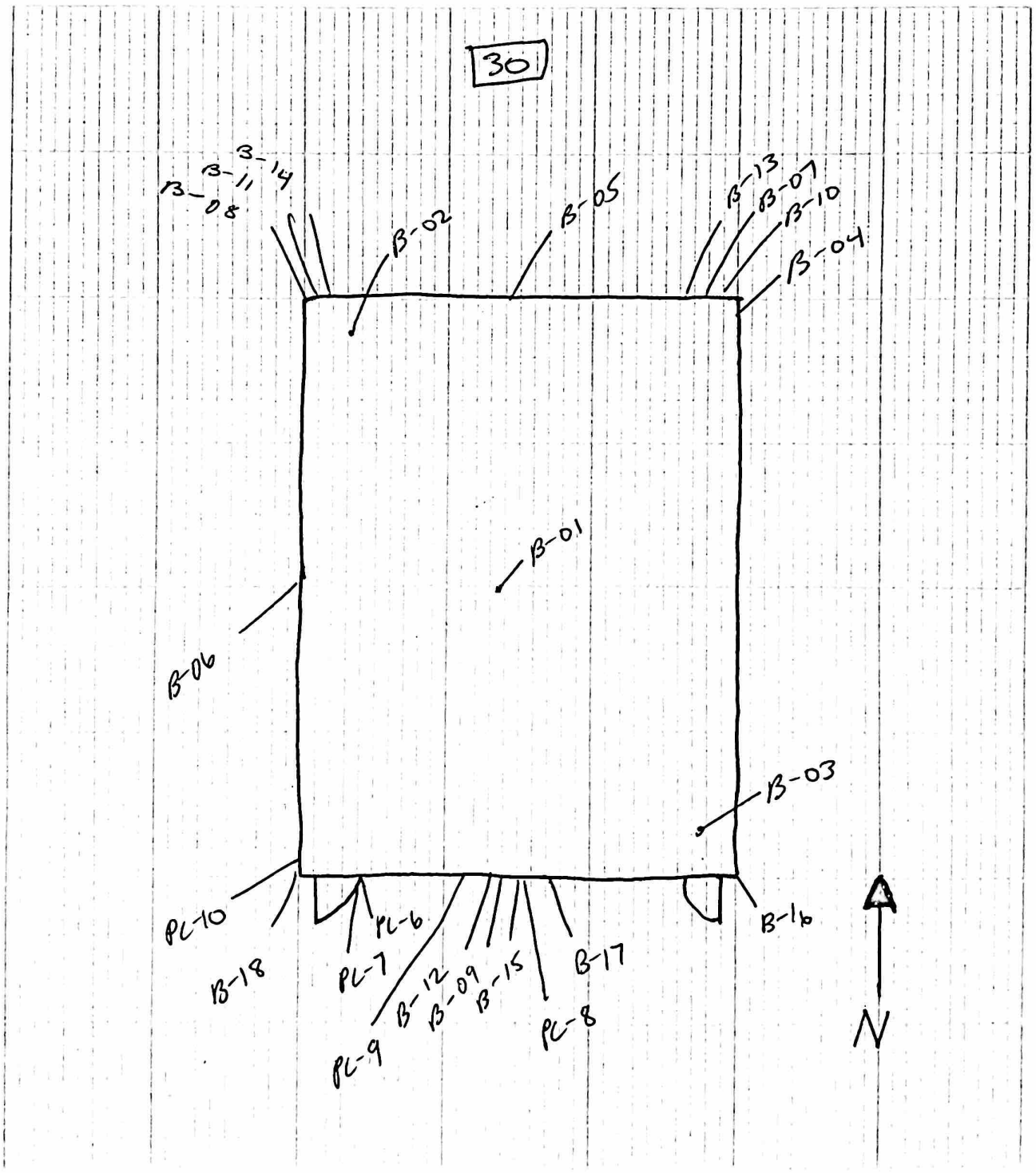
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Project Name Paradise Canyon

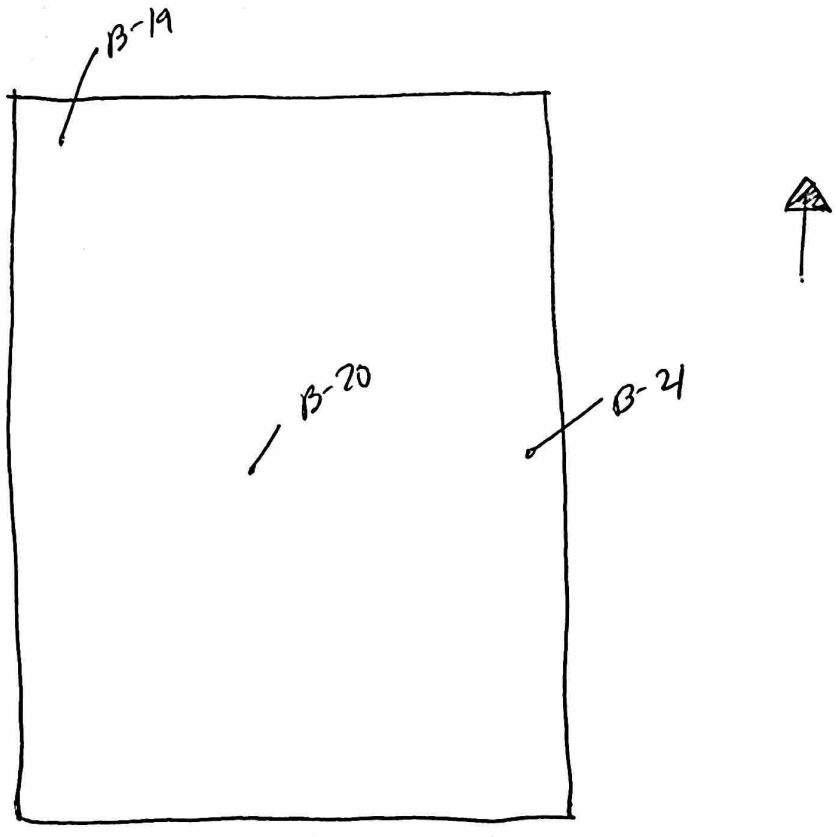
Project No./Task No. LCSD-22-11189

Calculated by Jorge R. Date ____

Scale ____ Checked by ____ Date ____



30 Roof



NV5

ALTA ENVIRONMENTAL

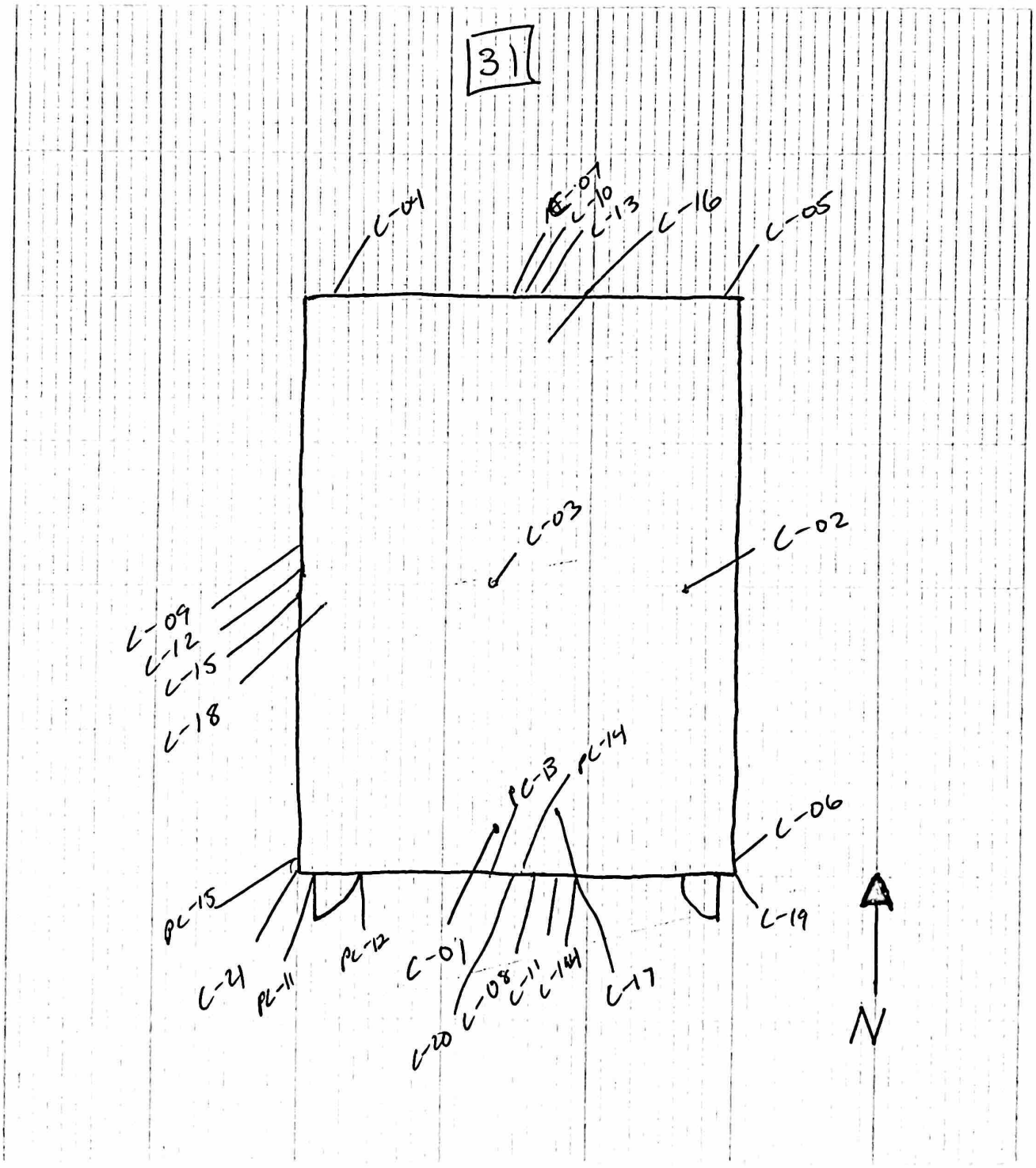
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Project Name Paradise Canyon

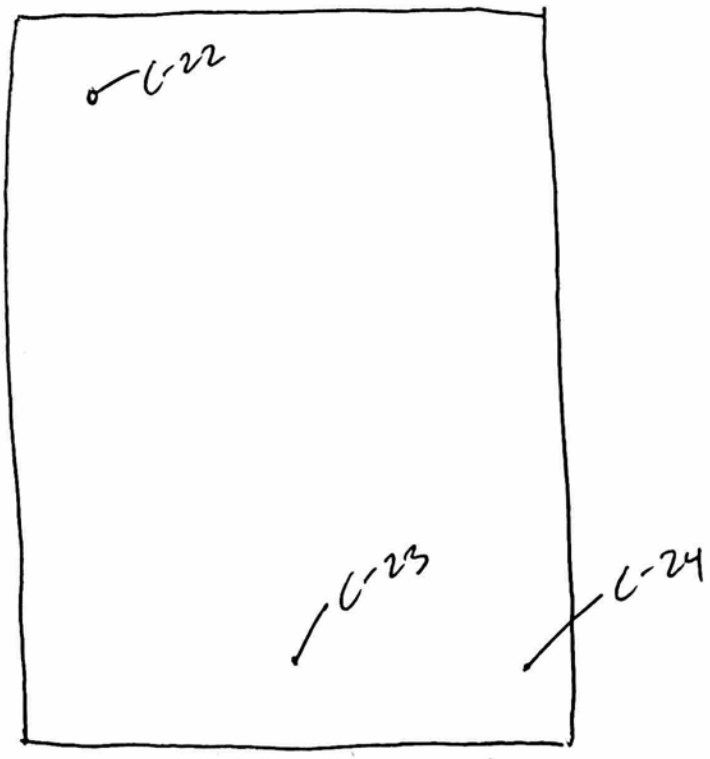
Project No./Task No. LCSD-22-11189

Calculated by Jorge R. Date ____

Scale ____ Checked by ____ Date ____



31 Roof



NV5

ALTA ENVIRONMENTAL

Sheet ____ of ____

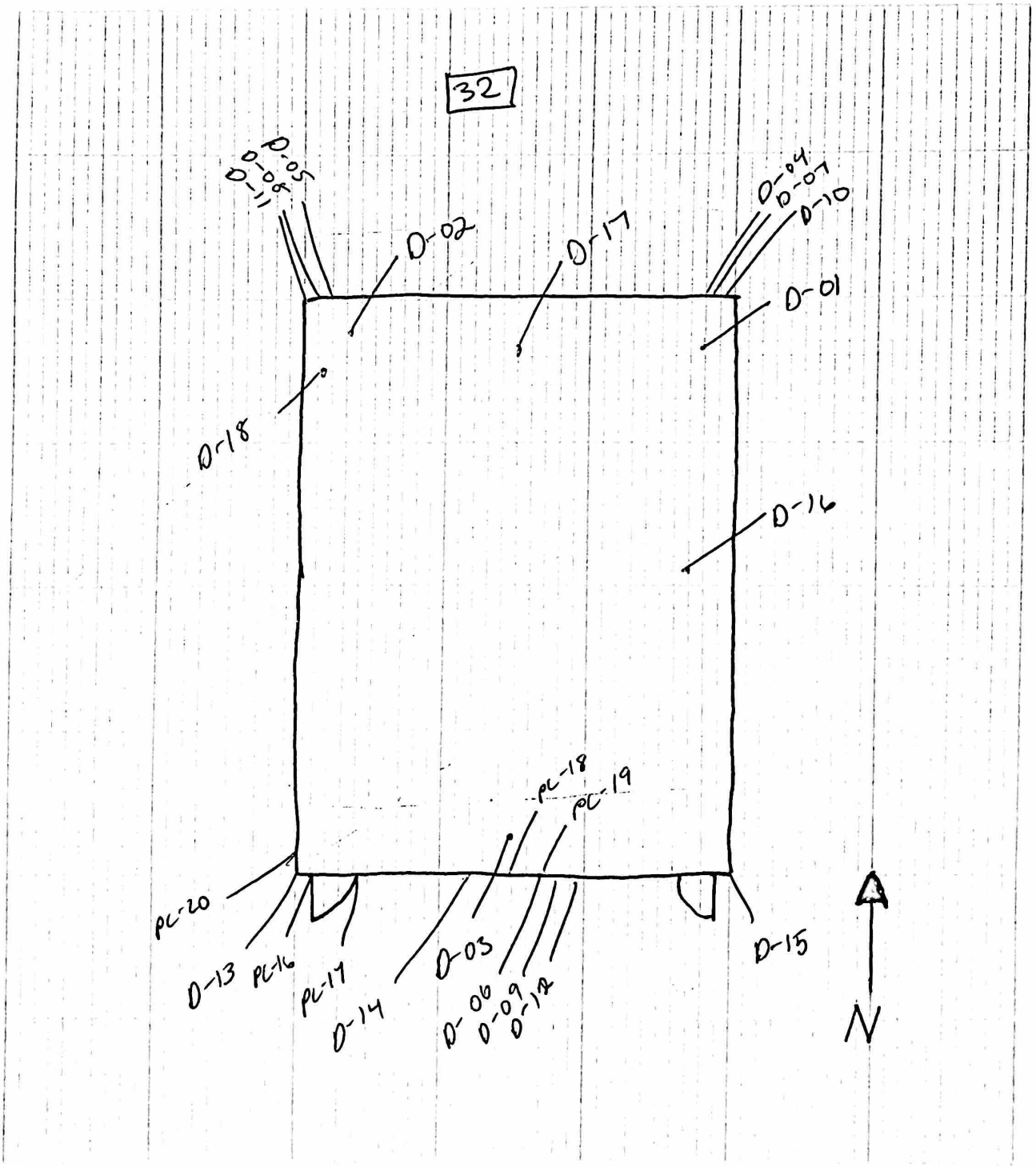
Project Name Paradise Canyon

Project No./Task No. LCSD-22-11189

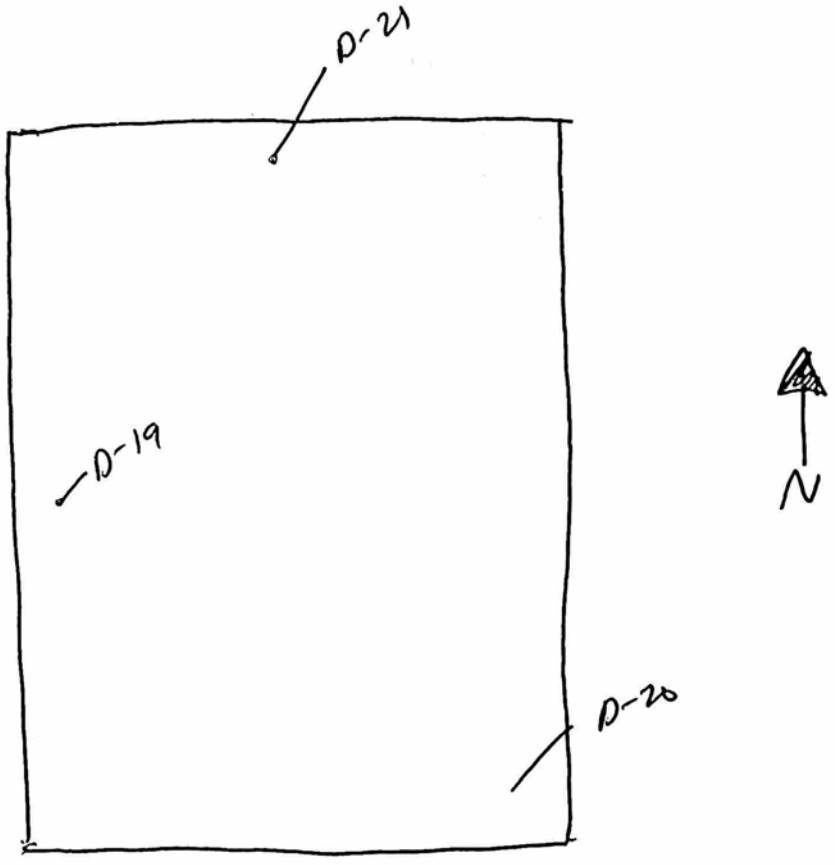
Calculated by Jorge R. Date ____

Checked by ____ Date ____

Scale ____



32 Roof



NV5

ALTA ENVIRONMENTAL

Sheet ____ of ____

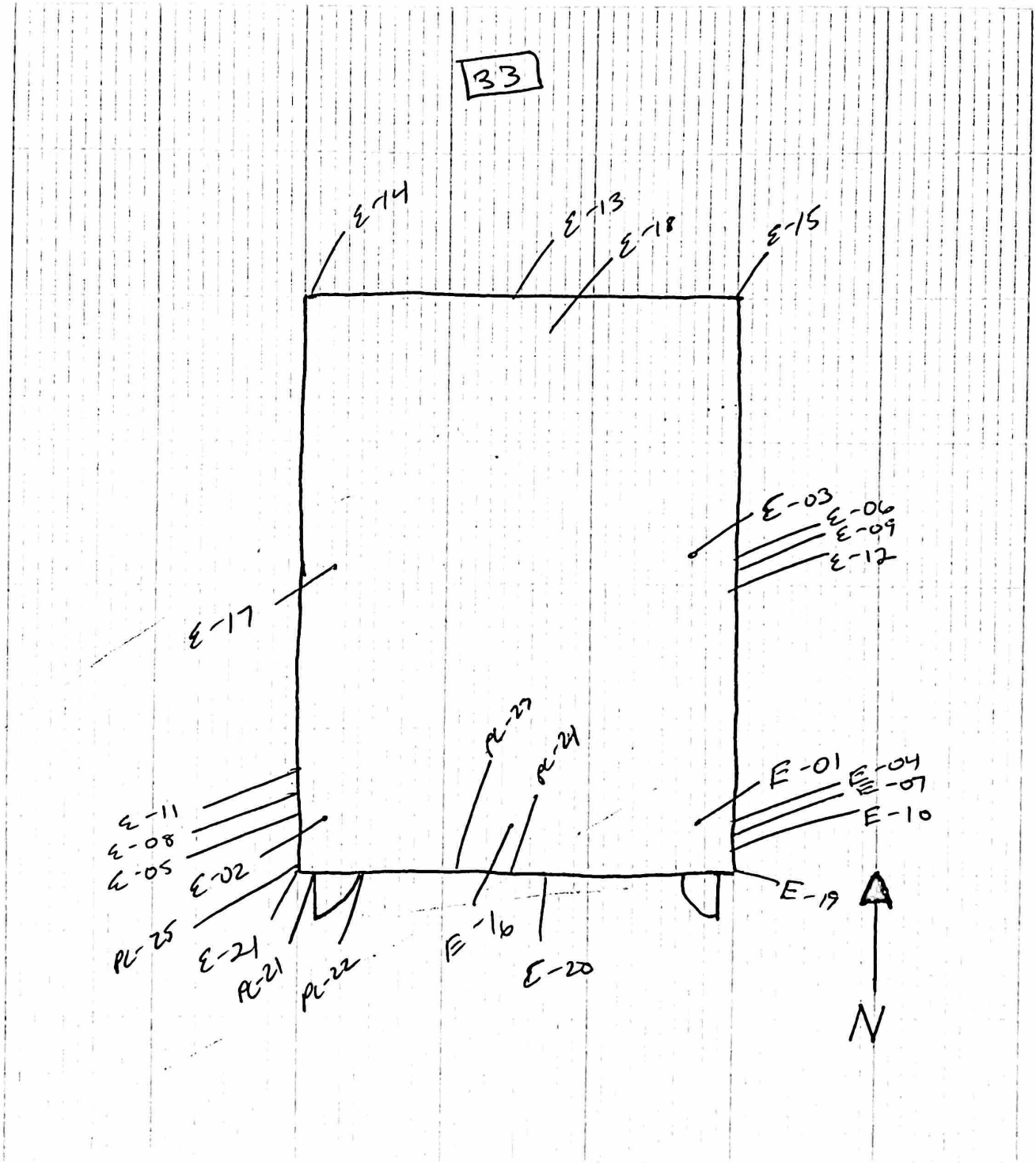
Project Name Paradise Canyon

Project No./Task No. LCSD-22-11189

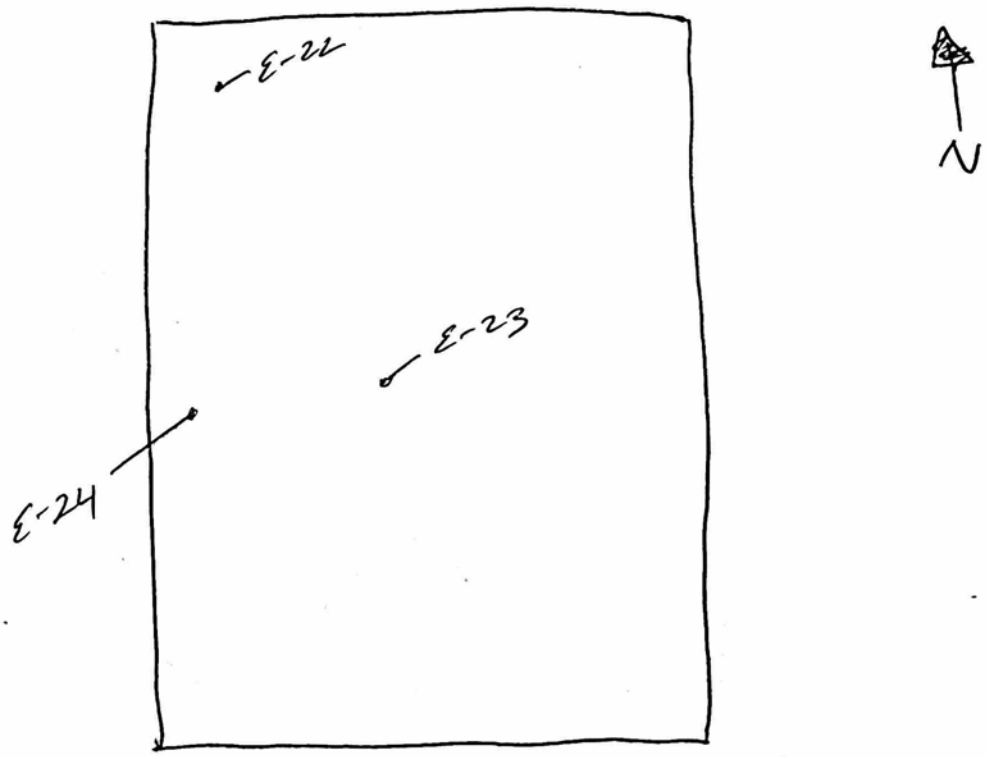
Calculated by Jorge R. Date ____

Scale ____

Checked by ____ Date ____



33 Roof



NV5

ALTA ENVIRONMENTAL

Sheet ____ of ____

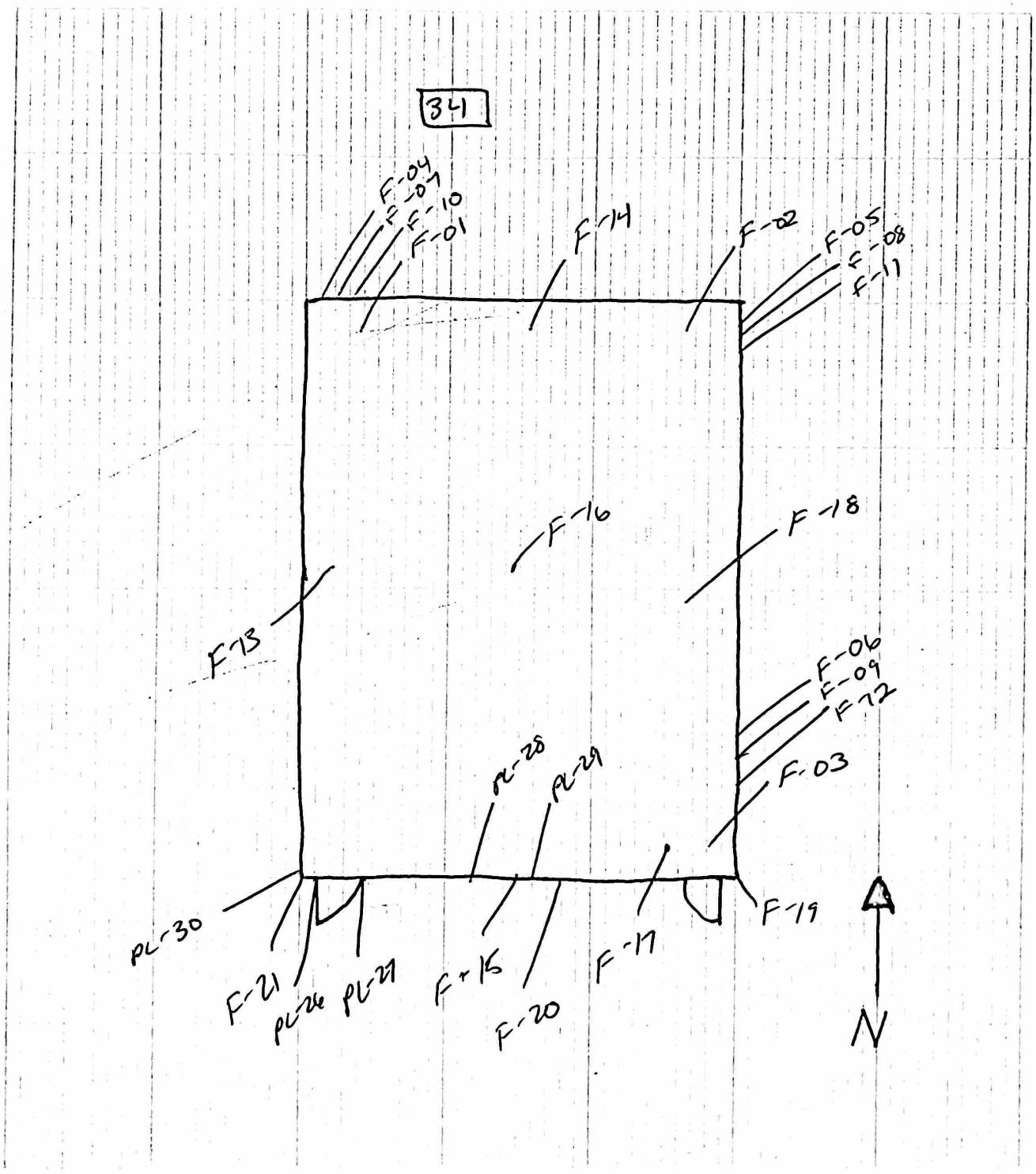
Project Name Paradise Canyon

Project No./Task No. LCSD-22-11189

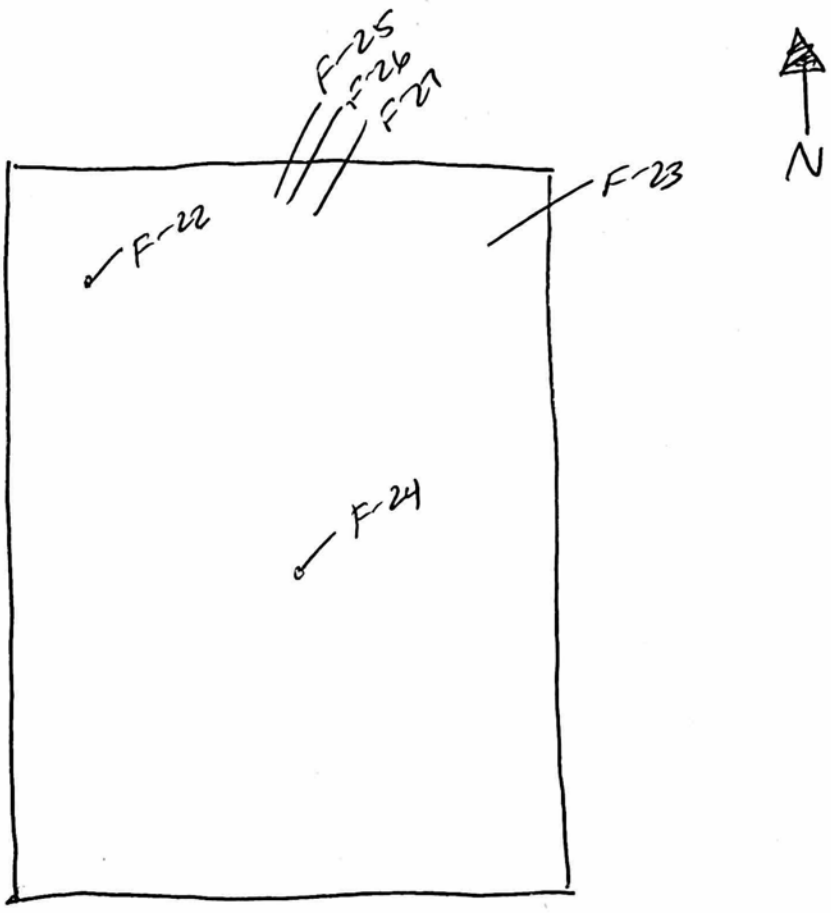
Calculated by Jorge R. Date ____

Scale ____

Checked by ____ Date ____



34 Roof



NV5

ALTA ENVIRONMENTAL

Sheet _____ of _____

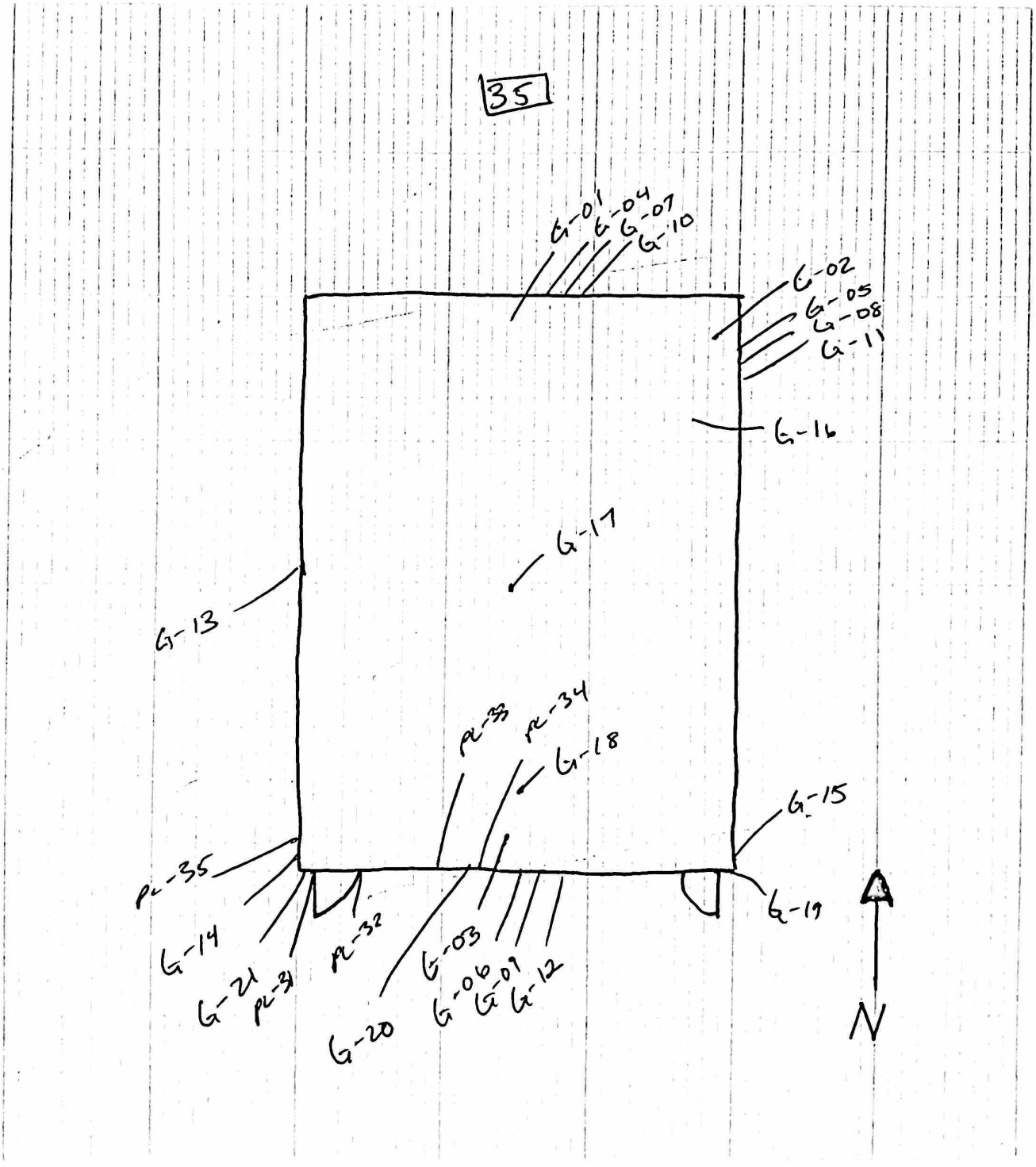
Project Name Paradise Canyon

Project No./Task No. LCSD-22-11189

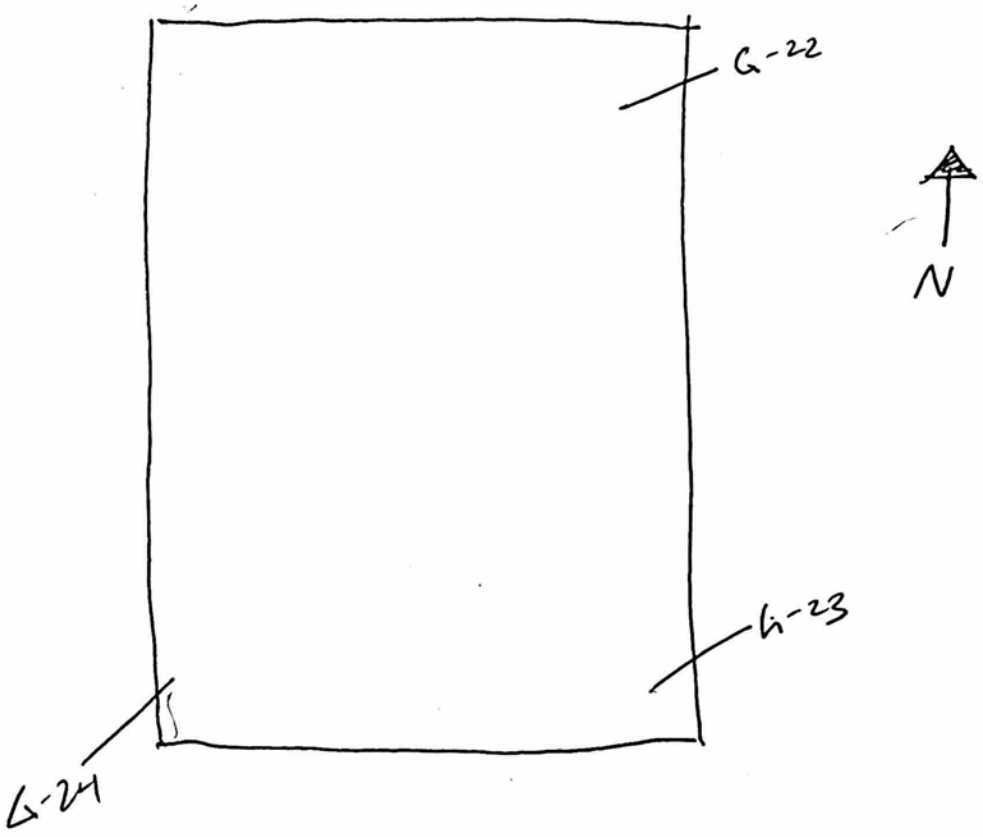
Calculated by Jorge R. Date _____

Scale _____

Checked by _____ Date _____



35 Roof



NV5

ALTA ENVIRONMENTAL

Scale _____

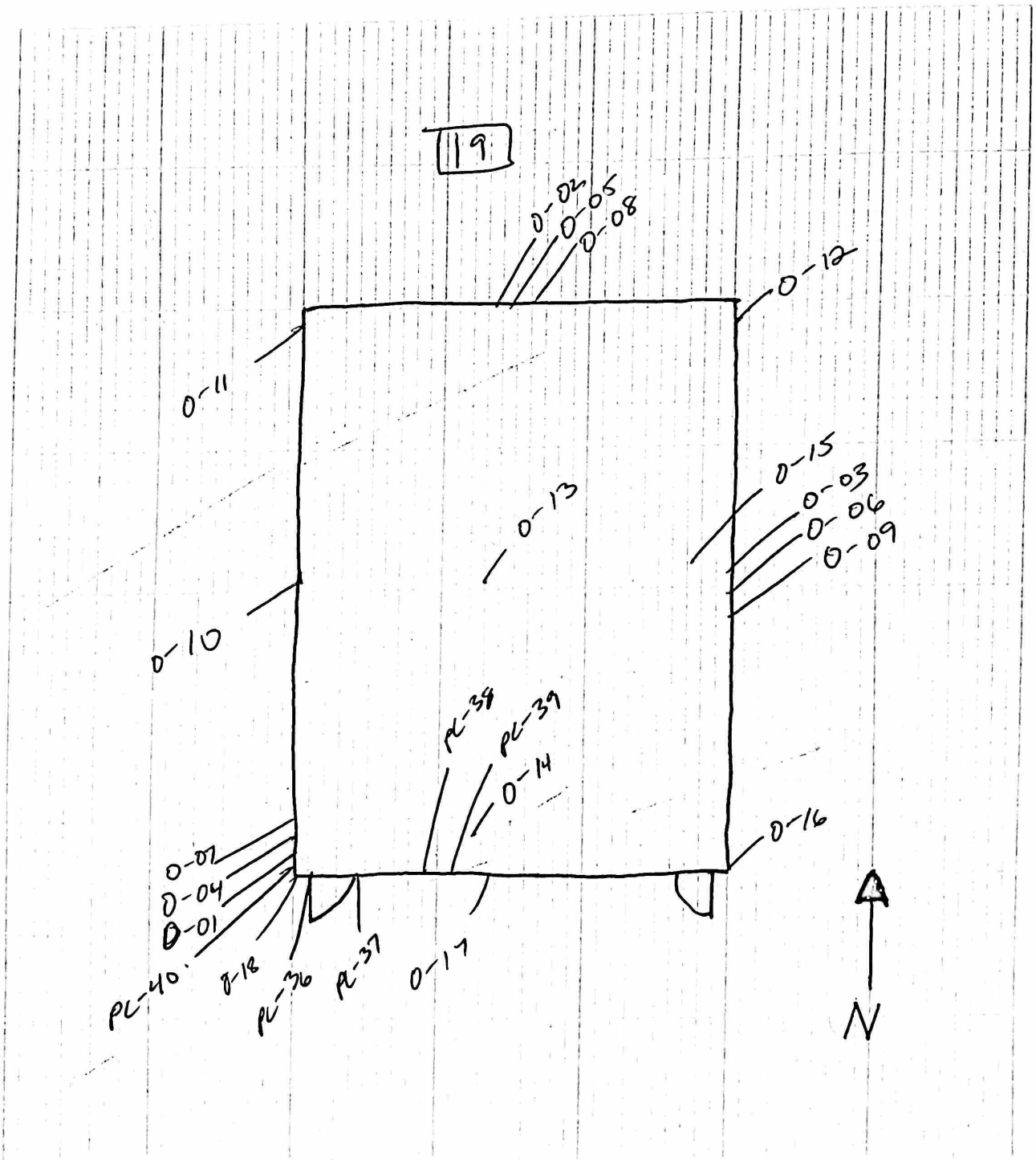
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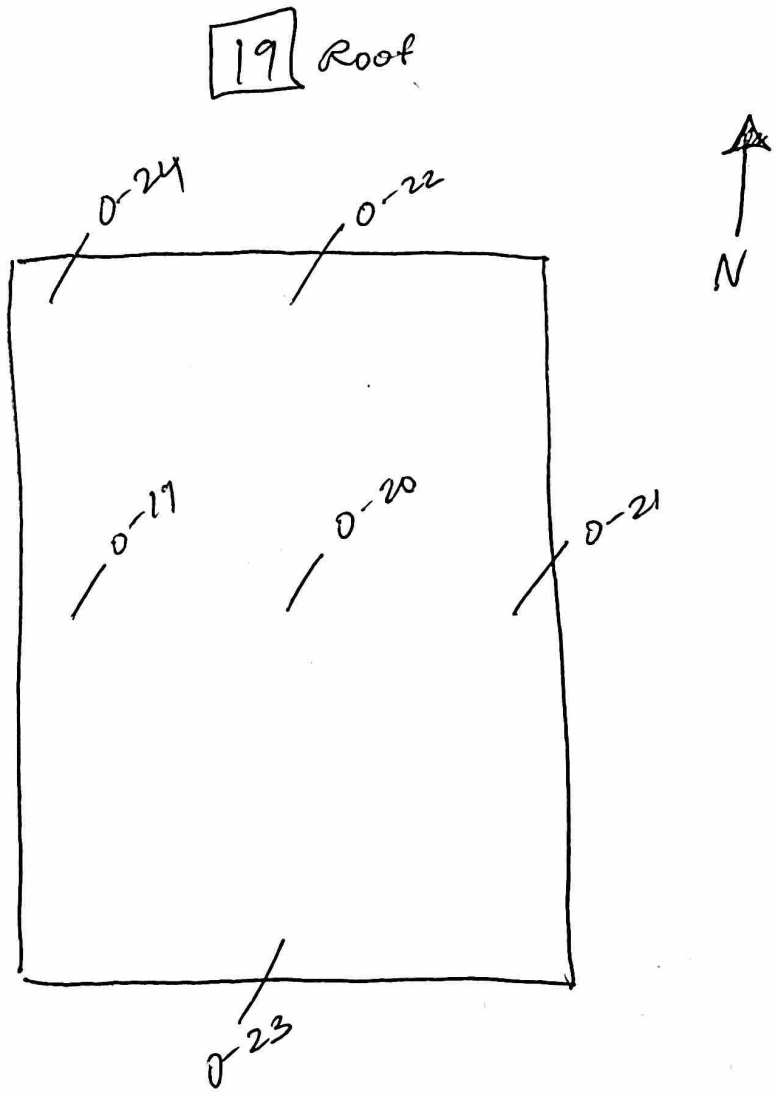
Project Name Paradise Canyon

Project No./Task No. LCSD-22-11189

Calculated by Jorge R. Date _____

Checked by _____ Date _____




19 Roof
0-24
0-22
N
0-17
0-20
0-21
0-23

NV5

ALTA ENVIRONMENTAL

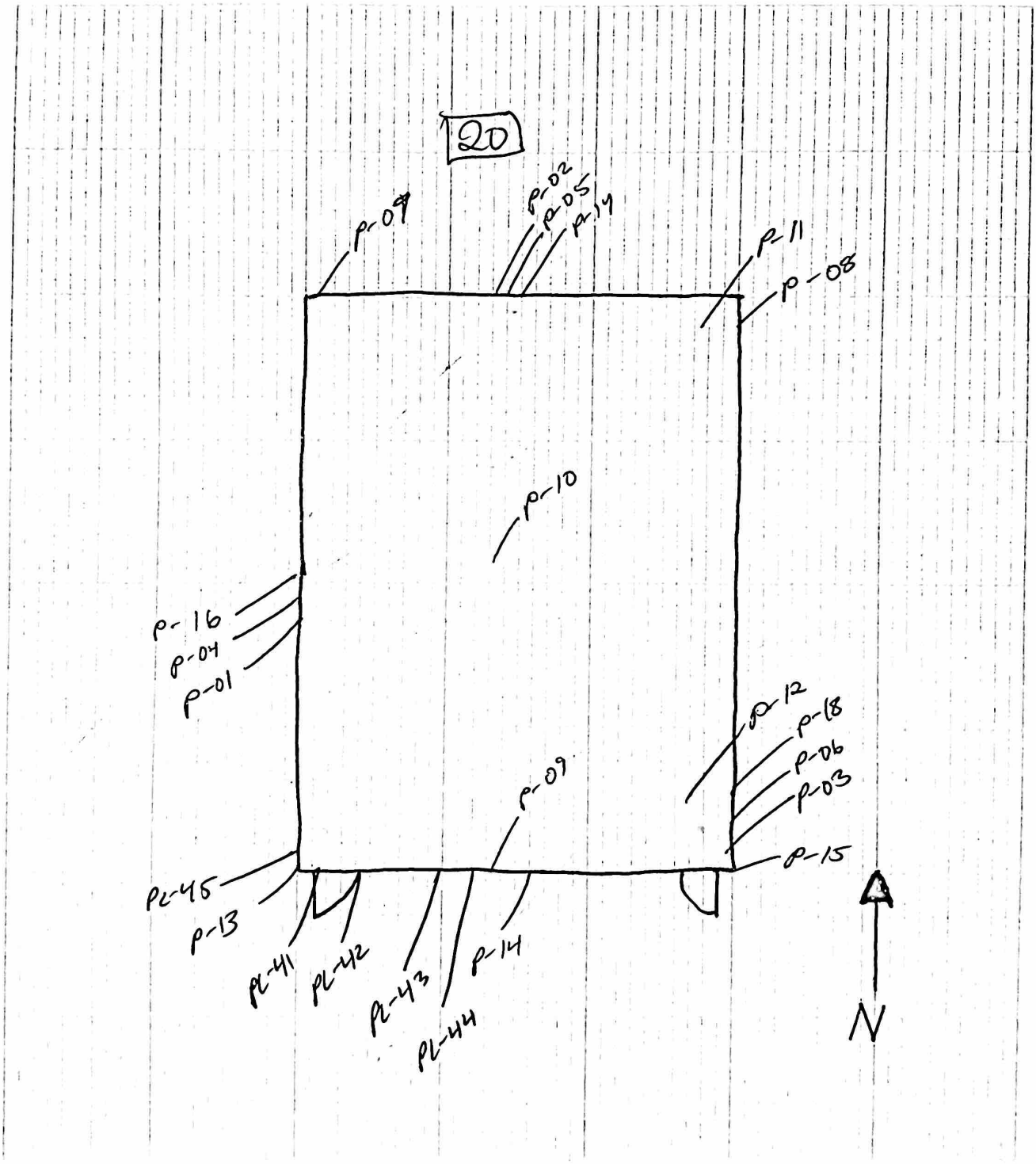
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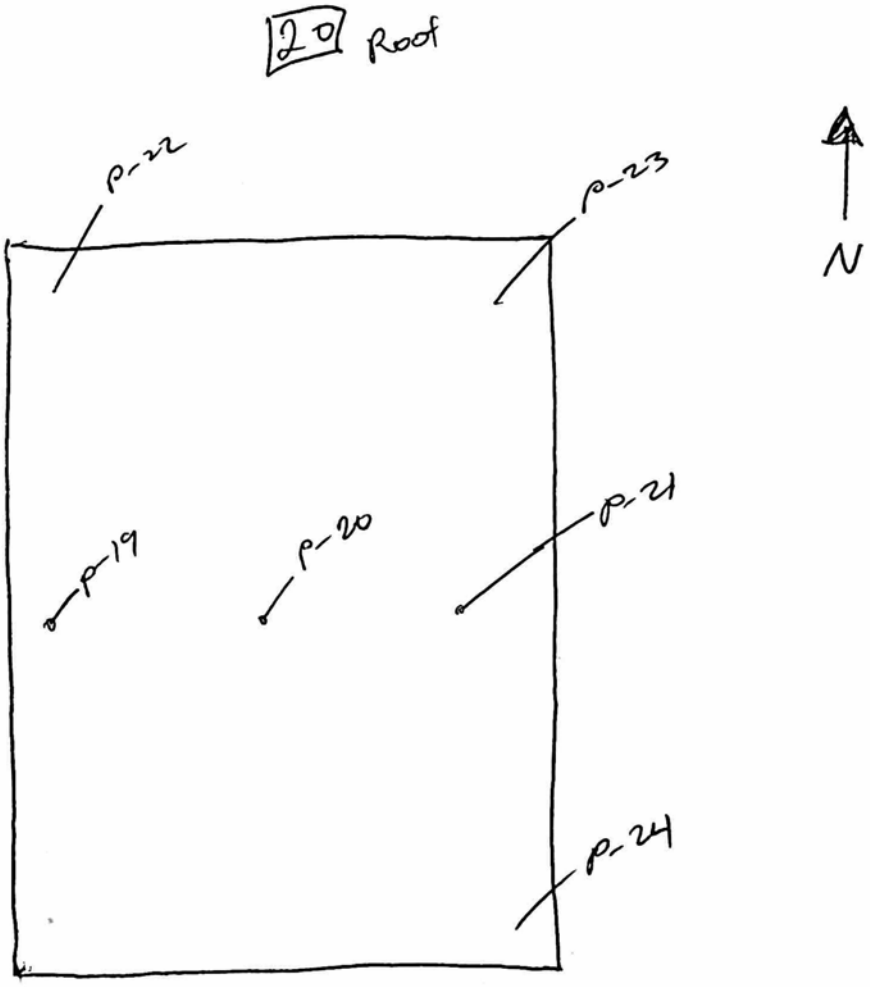
Project Name Paradise Canyon

Project No./Task No. LCSD-22-11189

Calculated by Jorge R. Date ____

Scale ____ Checked by ____ Date ____




20 Roof
P-22
P-23
N
P-19
P-20
P-21
P-24

NV5

ALTA ENVIRONMENTAL

Sheet ____ of ____

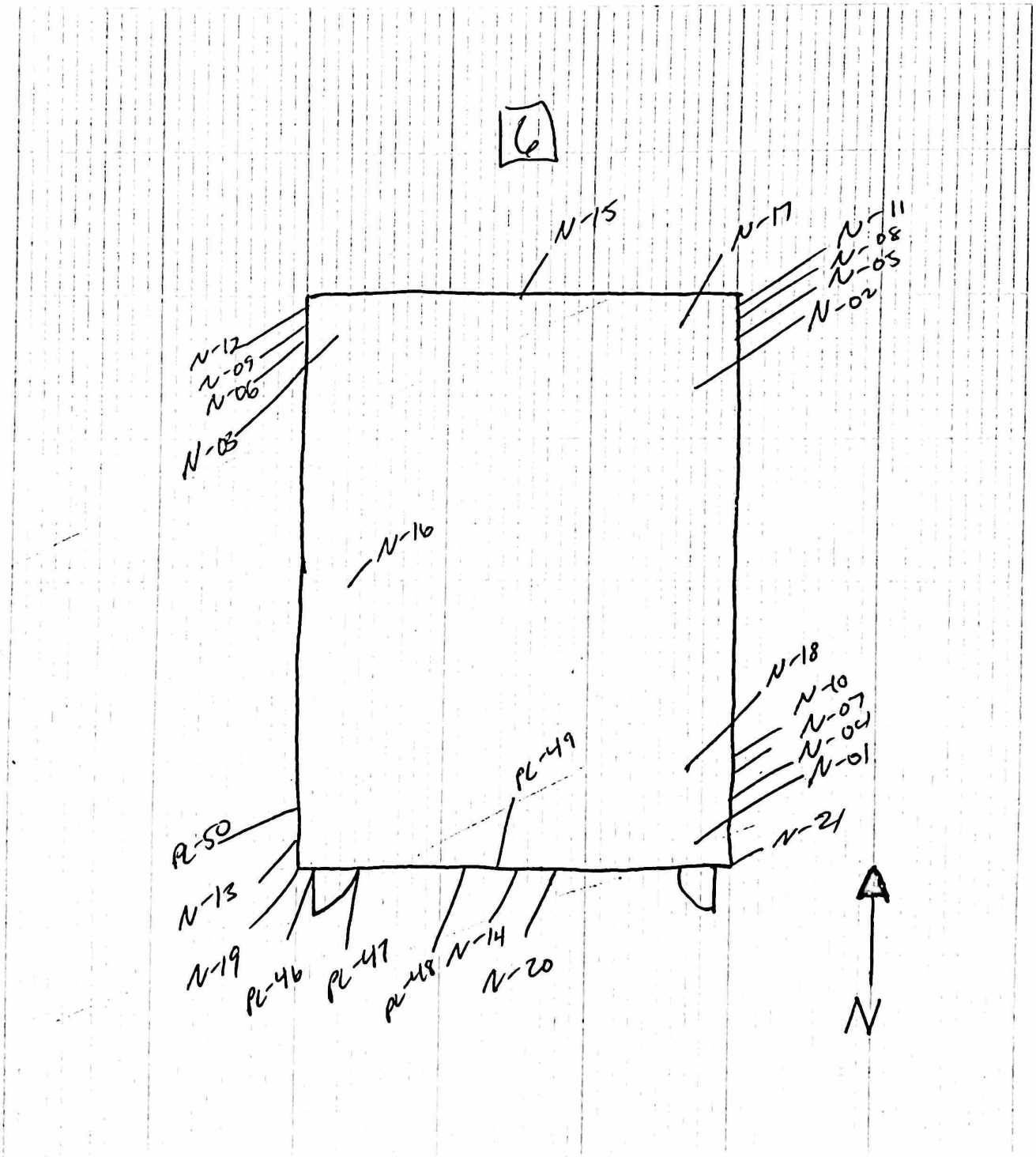
Project Name Paradise Canyon

Project No./Task No. LCSD-22-11189

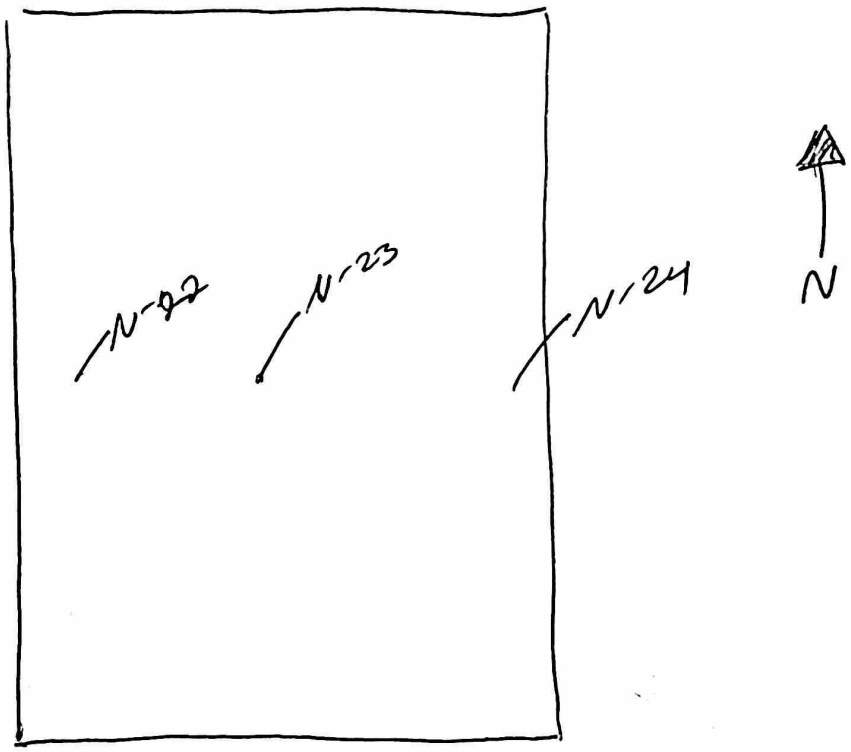
Calculated by Jorge R. Date ____

Scale ____

Checked by ____ Date ____



6 Roof



NV5

ALTA ENVIRONMENTAL

Sheet _____ of _____

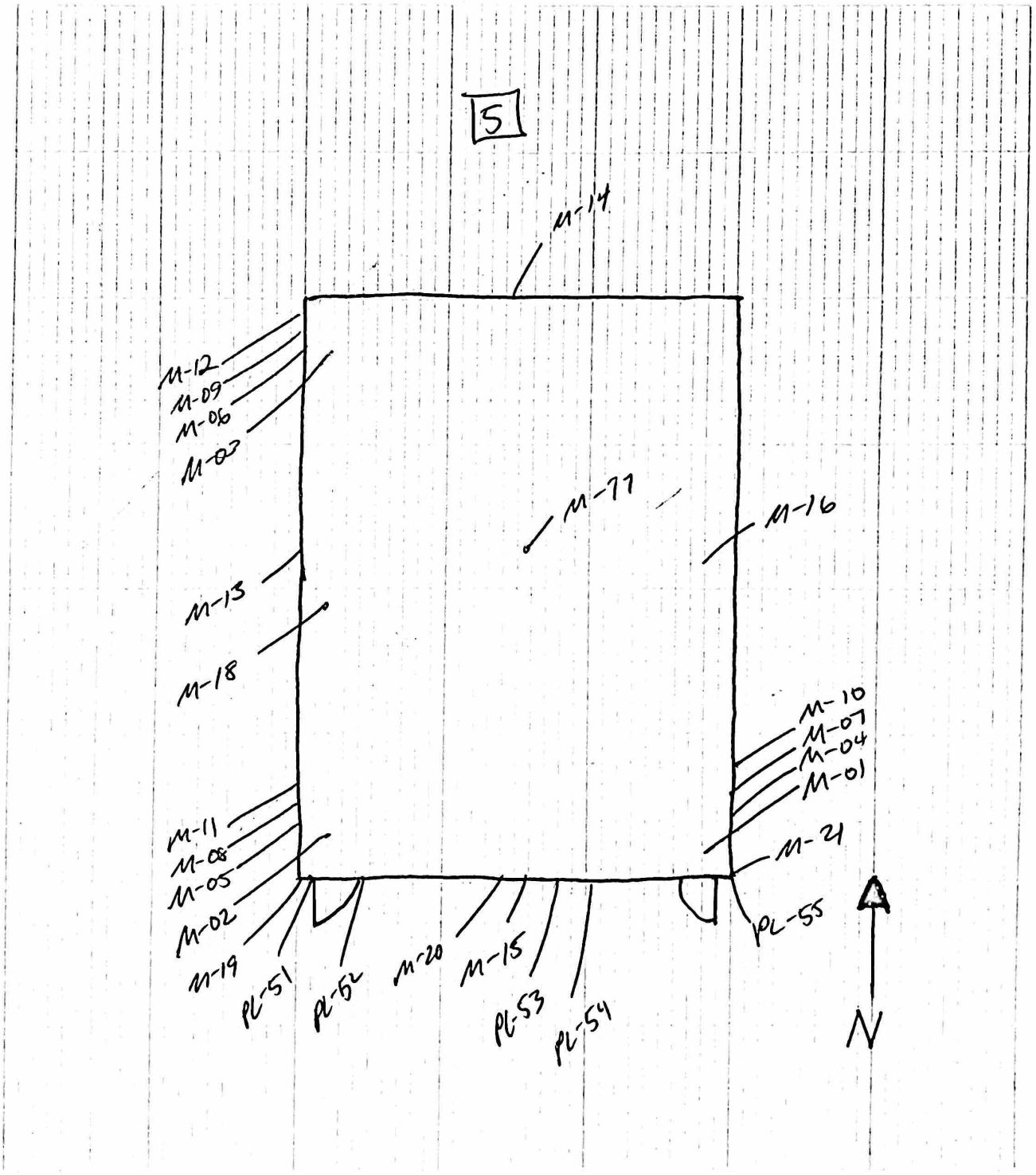
Project Name Paradise Canyon

Project No./Task No. LCSD-22-11189

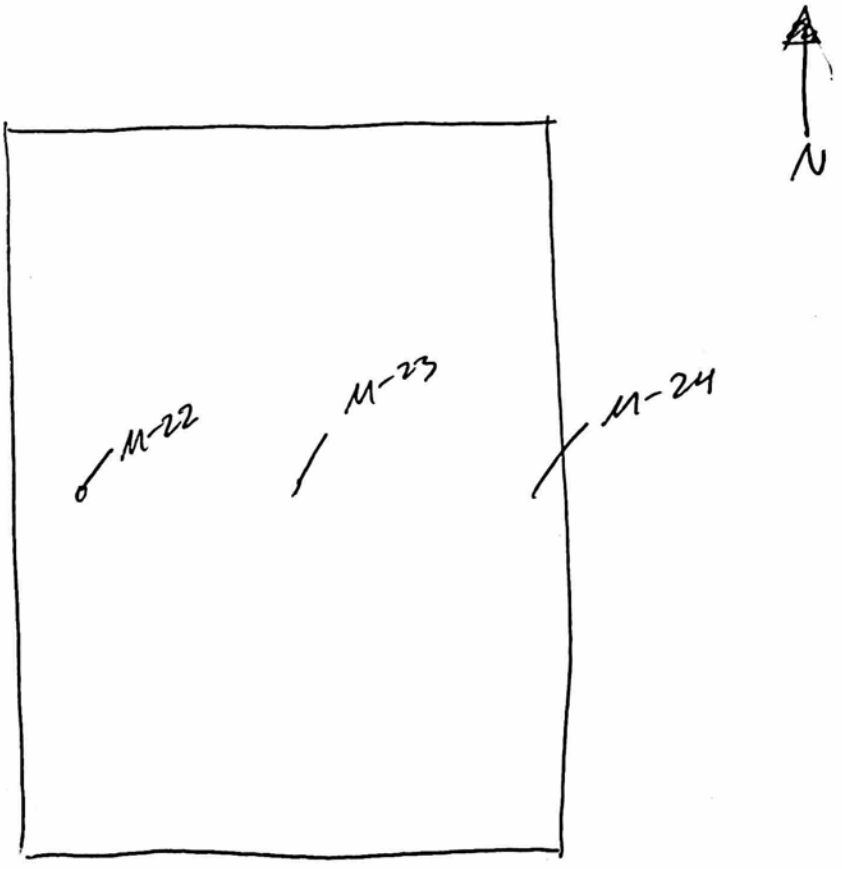
Calculated by Jorge R. Date _____

Scale _____

Checked by _____ Date _____



5 Roof



NV5

ALTA ENVIRONMENTAL

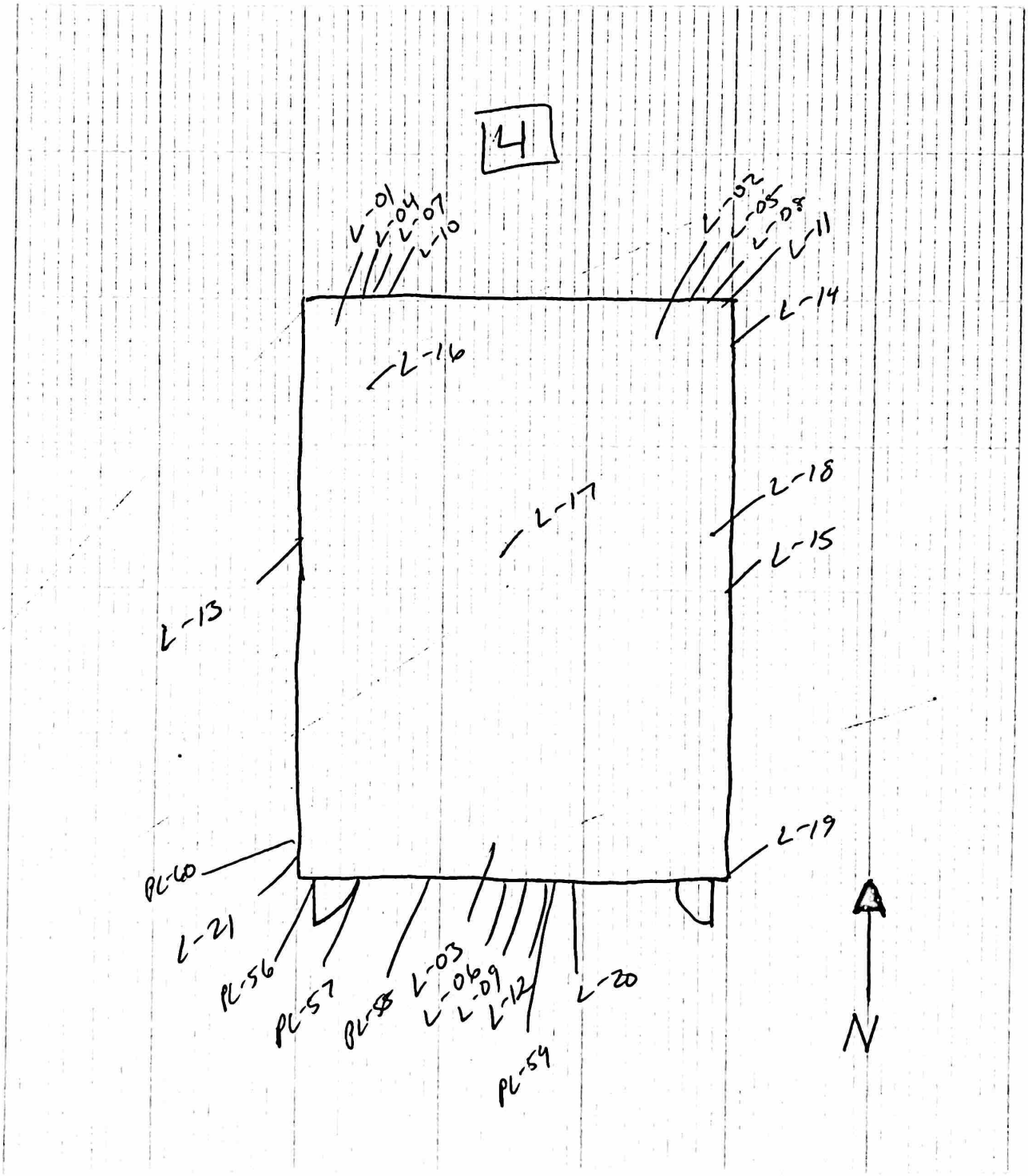
Sheet ____ of ____

Project Name Paradise Canyon

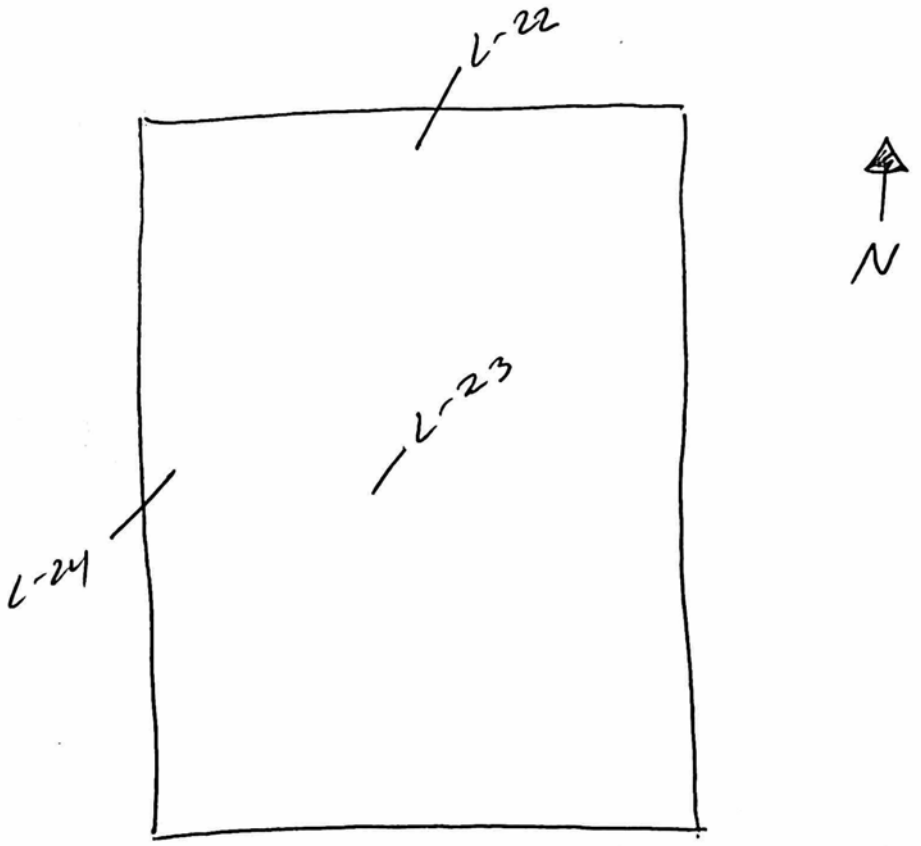
Project No./Task No. LCSD-22-11189

Calculated by Jorge R. Date ____

Scale ____ Checked by ____ Date ____



4 Roof



NV5

ALTA ENVIRONMENTAL

Sheet ____ of ____

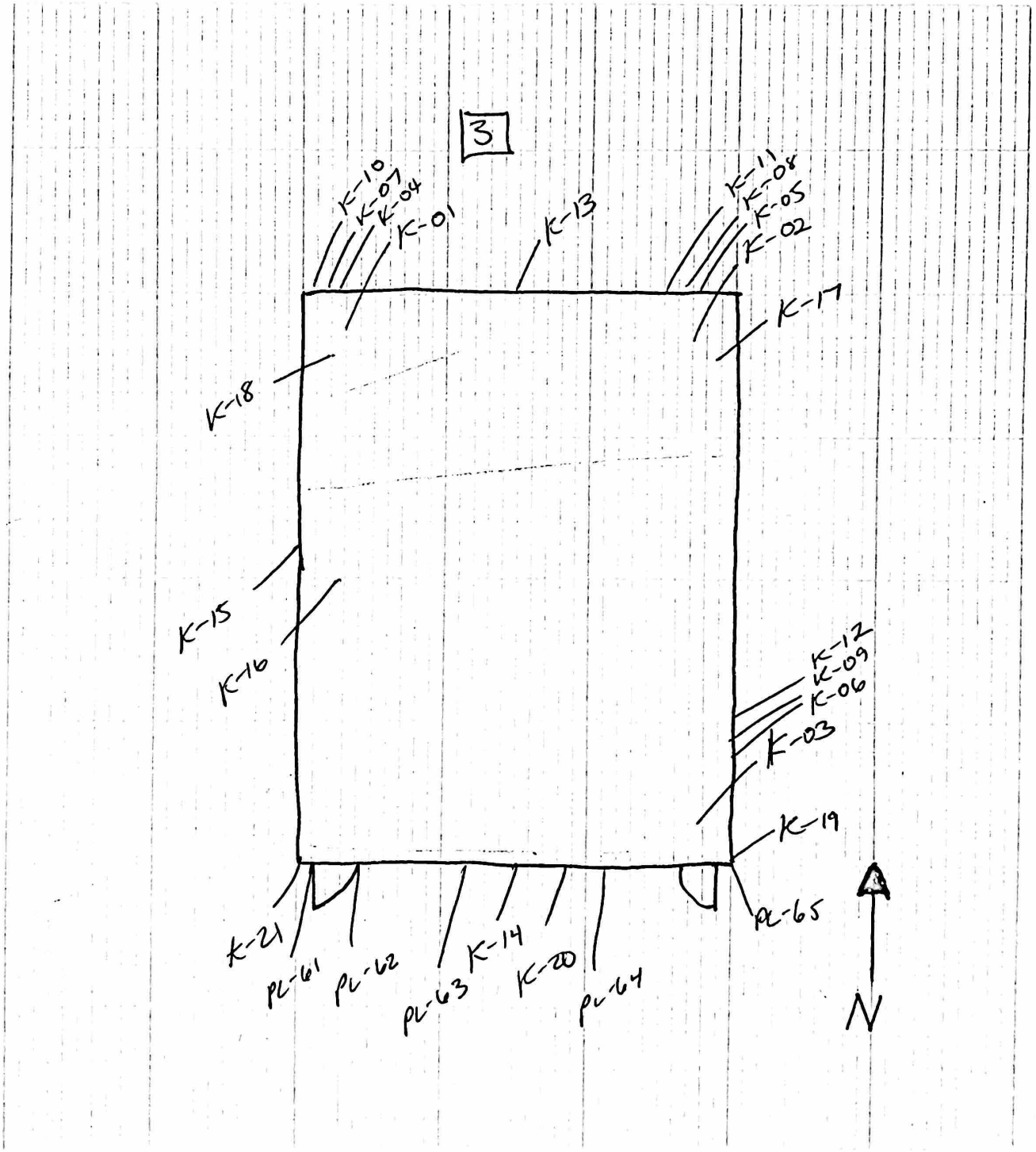
Project Name Paradise Canyon

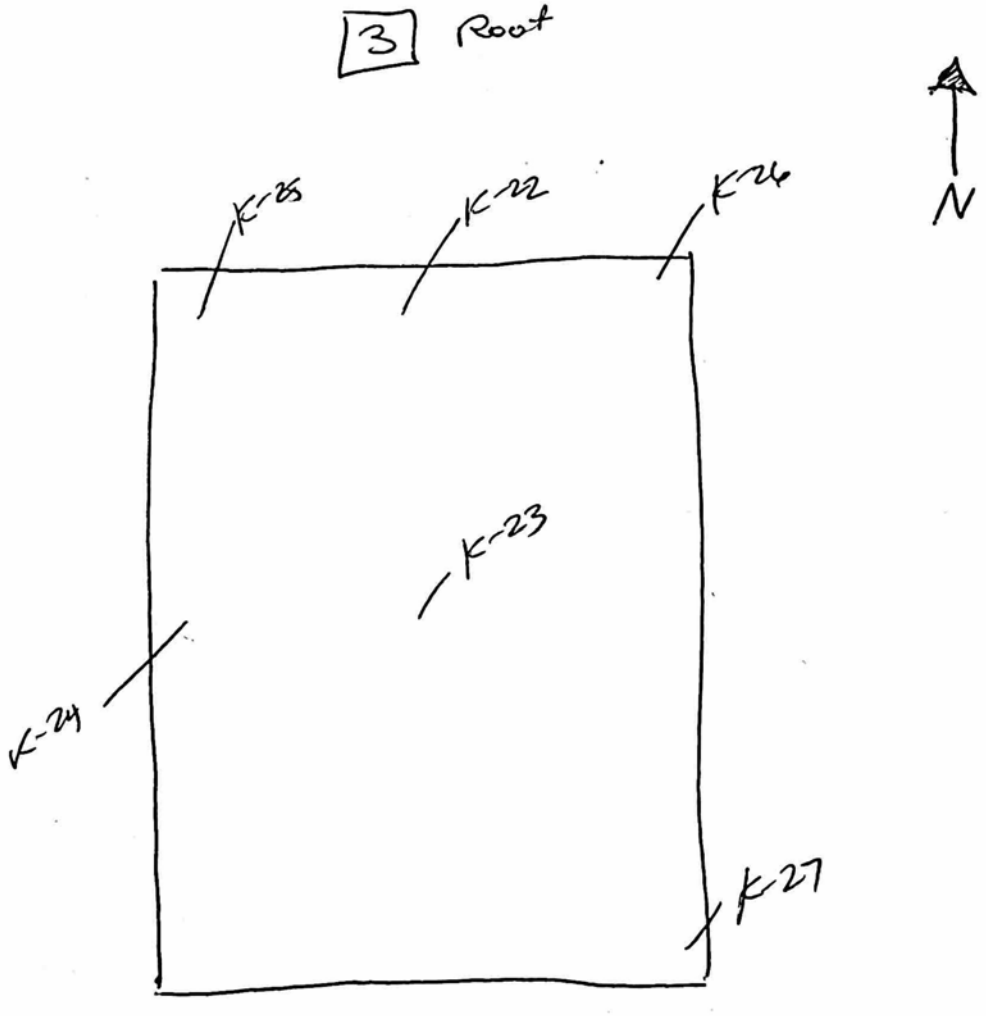
Project No./Task No. LCSD-22-11189

Calculated by Jorge R. Date ____

Scale ____

Checked by ____ Date ____




3 Roof
N
K-25
K-22
K-26
K-23
K-24
K-27

NV5

ALTA
ENVIRONMENTAL

Sheet _____ of _____

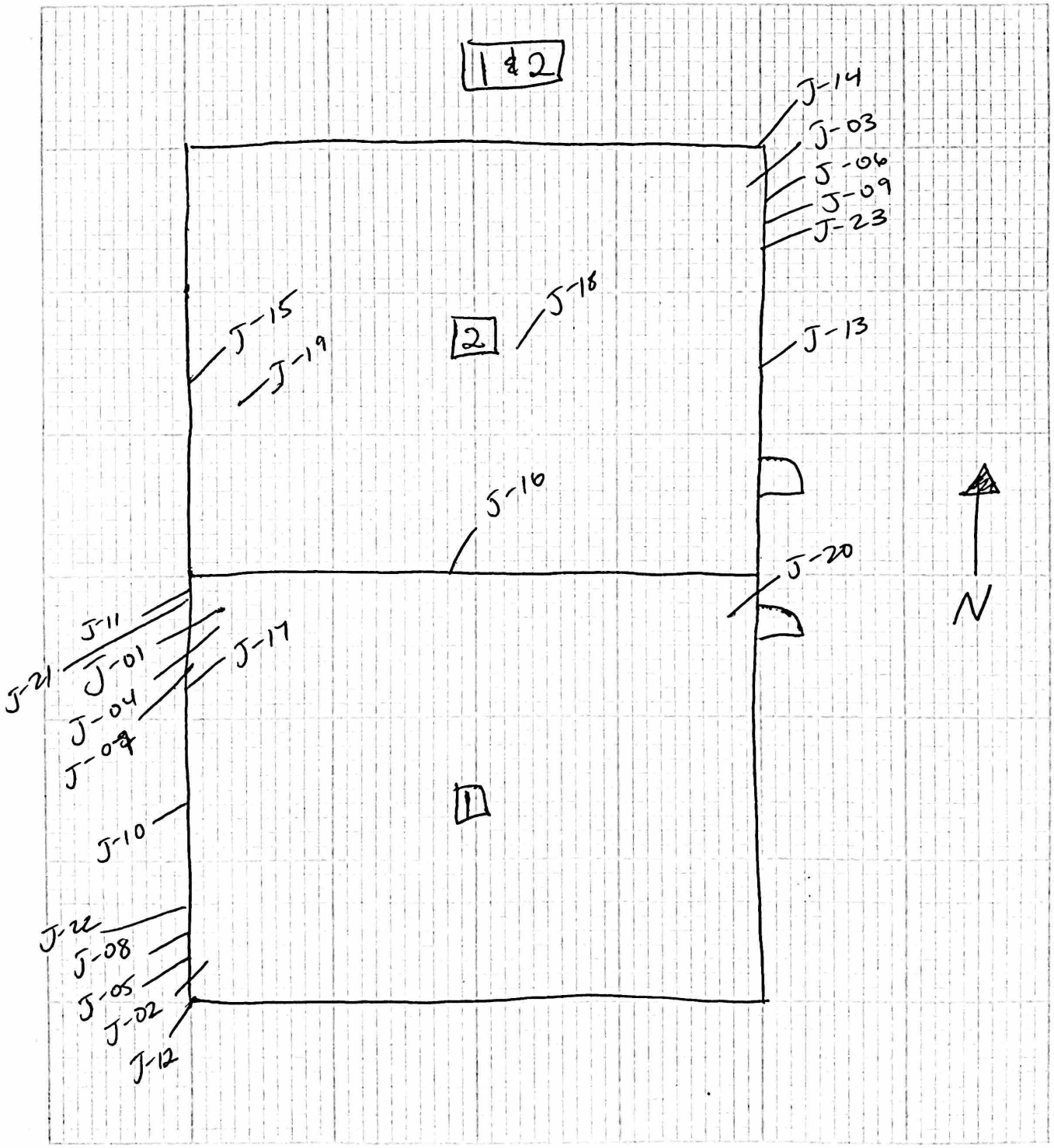
Project Name _____

Project No./Task No. _____

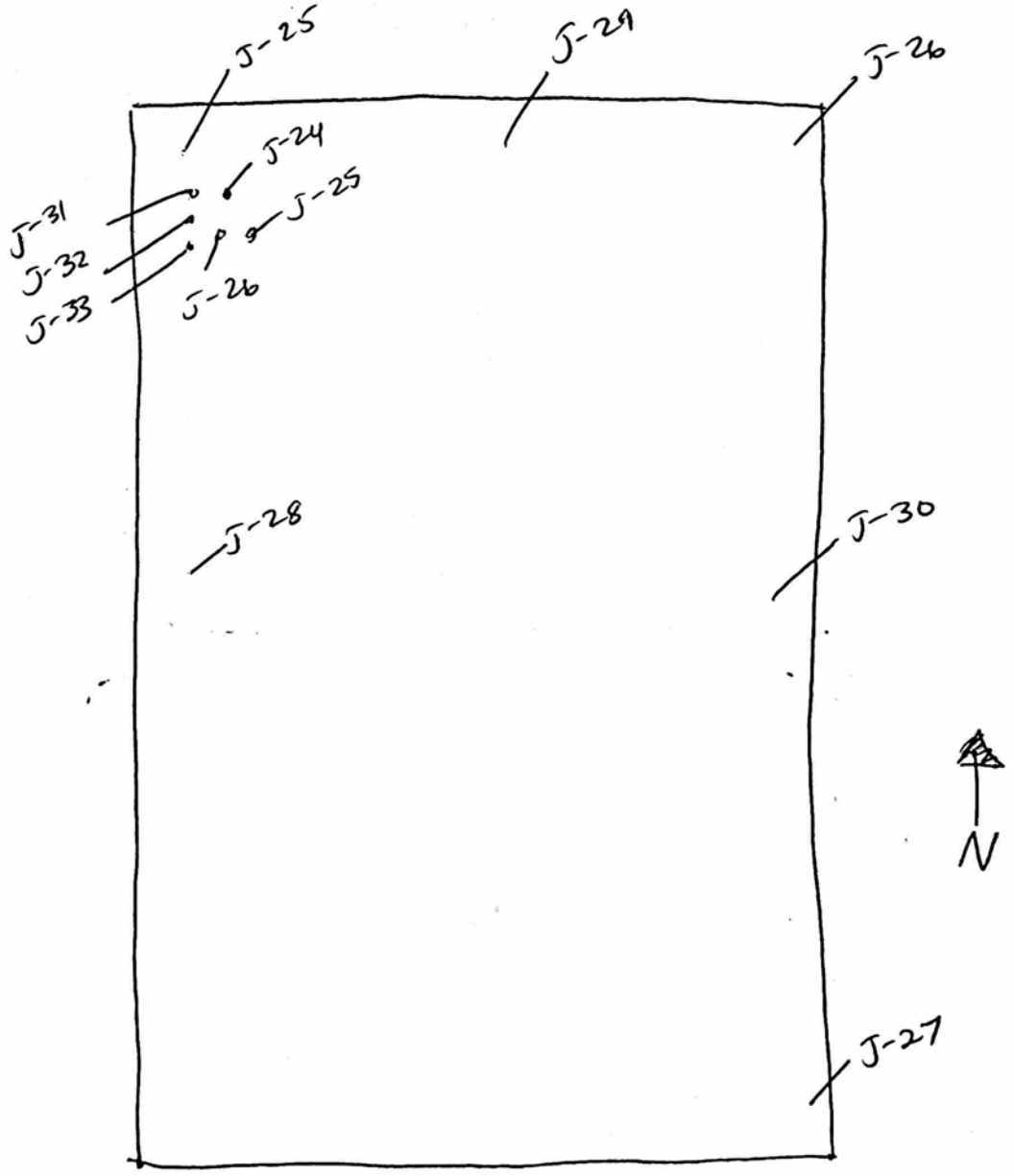
Calculated by _____ Date _____

Scale _____

Checked by _____ Date _____



1 & 2 Roof



Appendix D

Employee Certifications

California Department of PublicHealth

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH

LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:
 Thomas Jenkins	Lead Sampling Technician	LRC-00002971	10/27/2022

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD.


State of California
Division of Occupational Safety and Health
Certified Site Surveillance Technician
Thomas D Jenkins
Name
Certification No. 19-6698
Expires on 01/14/23
This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

California Department of PublicHealth

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH

LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:
 Jorge Robles	Lead Sampling Technician	LRC-00003495	10/28/2022

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD.

State of California
Division of Occupational Safety and Health

Certified Site Surveillance Technician



Jorge Robles
Name

Certification No. **17-6028**

Expires on **11/14/23**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC HEALTH

LEAD-RELATED CONSTRUCTION CERTIFICATE

INDIVIDUAL:	CERTIFICATE TYPE:	NUMBER:	EXPIRATION DATE:
 **James Byers**	Lead Inspector/Assessor	LRC-00001746	8/24/2023

Disclaimer: This document alone should not be relied upon to confirm certification status. Compare the individual's photo and name to another valid form of government issued photo identification. Verify the individual's certification status by searching for Lead-Related Construction Professionals at www.cdph.ca.gov/programs/clppb or calling (800) 597-LEAD


State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant
James Charles Byers, Jr.
Certification No. 06-4122
Expires on 01/18/23

NV5

Delivering Solutions
Improving Lives

Michael Baker
INTERNATIONAL

Appendix G
Noise Technical Results



Noise Measurement Site 1 - looking north



Noise Measurement Site 1 - looking northeast



Noise Measurement Site 1 - looking east



Noise Measurement Site 1 - looking southeast



Noise Measurement Site 1 - looking south



Noise Measurement Site 1 - looking southwest



Noise Measurement Site 1 - looking west



Noise Measurement Site 1 - looking northwest



Noise Measurement Site 2 - looking north



Noise Measurement Site 2 - looking northeast



Noise Measurement Site 2 - looking east



Noise Measurement Site 2 - looking southeast



Noise Measurement Site 2 - looking south



Noise Measurement Site 2 - looking southwest



Noise Measurement Site 2 - looking southwest



Noise Measurement Site 2 - looking west



Noise Measurement Site 3 - looking north



Noise Measurement Site 3 - looking northeast



Noise Measurement Site 3 - looking east



Noise Measurement Site 3 - looking southeast



Noise Measurement Site 3 - looking south



Noise Measurement Site 3 - looking southwest



Noise Measurement Site 3 - looking west



Noise Measurement Site 3 - looking northwest

Site 1 - South Side of School (SW Corner of East Field)

October 17, 2022 11:52:29 AM Leq Daytime = 57.0
Sampling Time = 1 sec Freq Weighting=A Leq Nighttime = 49.8
Record Num = 86402 CNEL(24hr)= 58.0
Leq = 54.7 Ldn(24hr)= 57.7
Min = 36.0 Min Leq hr at 1:09 AM 44.8
Max = 84.8 Max Leq hr at 1:21 PM 62.4

Site 1 - South Side of School (SW Corner of East Field)

SPL	Time	Leq (1 hour Avg.)	Ldn	CNEL
64.7	11:52:29		64.7	64.7
61.0	11:52:30		61.0	61.0
62.1	11:52:31		62.1	62.1
61.8	11:52:32		61.8	61.8
60.3	11:52:33		60.3	60.3
64.8	11:52:34		64.8	64.8
71.3	11:52:35		71.3	71.3
71.8	11:52:36		71.8	71.8
68.9	11:52:37		68.9	68.9
66.4	11:52:38		66.4	66.4
66.8	11:52:39		66.8	66.8
65.6	11:52:40		65.6	65.6
62.6	11:52:41		62.6	62.6
61.8	11:52:42		61.8	61.8
66.1	11:52:43		66.1	66.1
64.3	11:52:44		64.3	64.3
66.7	11:52:45		66.7	66.7
65.8	11:52:46		65.8	65.8
64.2	11:52:47		64.2	64.2
63.0	11:52:48		63.0	63.0
64.8	11:52:49		64.8	64.8
64.5	11:52:50		64.5	64.5
63.5	11:52:51		63.5	63.5
62.2	11:52:52		62.2	62.2
64.0	11:52:53		64.0	64.0
65.4	11:52:54		65.4	65.4
64.5	11:52:55		64.5	64.5
61.0	11:52:56		61.0	61.0
57.9	11:52:57		57.9	57.9
56.8	11:52:58		56.8	56.8
57.6	11:52:59		57.6	57.6
55.3	11:53:00		55.3	55.3
54.5	11:53:01		54.5	54.5
56.6	11:53:02		56.6	56.6
56.0	11:53:03		56.0	56.0
55.0	11:53:04		55.0	55.0
56.3	11:53:05		56.3	56.3
59.2	11:53:06		59.2	59.2
57.4	11:53:07		57.4	57.4
54.7	11:53:08		54.7	54.7
54.3	11:53:09		54.3	54.3
53.3	11:53:10		53.3	53.3
53.6	11:53:11		53.6	53.6
54.0	11:53:12		54.0	54.0
53.5	11:53:13		53.5	53.5
55.4	11:53:14		55.4	55.4
57.9	11:53:15		57.9	57.9
56.3	11:53:16		56.3	56.3
70.4	11:53:17		70.4	70.4
68.3	11:53:18		68.3	68.3
68.0	11:53:19		68.0	68.0
67.1	11:53:20		67.1	67.1
63.1	11:53:21		63.1	63.1
59.3	11:53:22		59.3	59.3
55.5	11:53:23		55.5	55.5
53.6	11:53:24		53.6	53.6
54.8	11:53:25		54.8	54.8
77.3	11:53:26		77.3	77.3
84.8	11:53:27		84.8	84.8
80.6	11:53:28		80.6	80.6
79.9	11:53:29		79.9	79.9
82.7	11:53:30		82.7	82.7
79.0	11:53:31		79.0	79.0
74.8	11:53:32		74.8	74.8
70.6	11:53:33		70.6	70.6
66.4	11:53:34		66.4	66.4
62.2	11:53:35		62.2	62.2
58.1	11:53:36		58.1	58.1
54.8	11:53:37		54.8	54.8
52.4	11:53:38		52.4	52.4
50.1	11:53:39		50.1	50.1
48.2	11:53:40		48.2	48.2
45.4	11:53:41		45.4	45.4
45.3	11:53:42		45.3	45.3
49.1	11:53:43		49.1	49.1
49.5	11:53:44		49.5	49.5
46.5	11:53:45		46.5	46.5
45.1	11:53:46		45.1	45.1
44.7	11:53:47		44.7	44.7
43.4	11:53:48		43.4	43.4
42.3	11:53:49		42.3	42.3
45.3	11:53:50		45.3	45.3
47.2	11:53:51		47.2	47.2
47.0	11:53:52		47.0	47.0
45.1	11:53:53		45.1	45.1
45.1	11:53:54		45.1	45.1
46.6	11:53:55		46.6	46.6
45.9	11:53:56		45.9	45.9
44.4	11:53:57		44.4	44.4
43.4	11:53:58		43.4	43.4
45.7	11:53:59		45.7	45.7
49.3	11:54:00		49.3	49.3
49.2	11:54:01		49.2	49.2
47.2	11:54:02		47.2	47.2
48.5	11:54:03		48.5	48.5
49.7	11:54:04		49.7	49.7
54.5	11:54:05		54.5	54.5
53.5	11:54:06		53.5	53.5
50.6	11:54:07		50.6	50.6
48.0	11:54:08		48.0	48.0
45.6	11:54:09		45.6	45.6
44.4	11:54:10		44.4	44.4
45.5	11:54:11		45.5	45.5
45.2	11:54:12		45.2	45.2
43.9	11:54:13		43.9	43.9
44.4	11:54:14		44.4	44.4
44.7	11:54:15		44.7	44.7
44.2	11:54:16		44.2	44.2
43.2	11:54:17		43.2	43.2
42.8	11:54:18		42.8	42.8
42.8	11:54:19		42.8	42.8
42.9	11:54:20		42.9	42.9
43.1	11:54:21		43.1	43.1
43.0	11:54:22		43.0	43.0
42.5	11:54:23		42.5	42.5
41.8	11:54:24		41.8	41.8
41.5	11:54:25		41.5	41.5
41.5	11:54:26		41.5	41.5
42.1	11:54:27		42.1	42.1
41.7	11:54:28		41.7	41.7
41.3	11:54:29		41.3	41.3
41.0	11:54:30		41.0	41.0
40.8	11:54:31		40.8	40.8
41.1	11:54:32		41.1	41.1
41.6	11:54:33		41.6	41.6
42.0	11:54:34		42.0	42.0
42.8	11:54:35		42.8	42.8
44.3	11:54:36		44.3	44.3
44.1	11:54:37		44.1	44.1
43.8	11:54:38		43.8	43.8
43.9	11:54:39		43.9	43.9
44.0	11:54:40		44.0	44.0
43.8	11:54:41		43.8	43.8
45.3	11:54:42		45.3	45.3
48.6	11:54:43		48.6	48.6
46.2	11:54:44		46.2	46.2
44.8	11:54:45		44.8	44.8
44.3	11:54:46		44.3	44.3
44.2	11:54:47		44.2	44.2
51.9	11:54:48		51.9	51.9
54.2	11:54:49		54.2	54.2
51.3	11:54:50		51.3	51.3
48.5	11:54:51		48.5	48.5
46.4	11:54:52		46.4	46.4
45.7	11:54:53		45.7	45.7
45.5	11:54:54		45.5	45.5
45.4	11:54:55		45.4	45.4
45.7	11:54:56		45.7	45.7
46.0	11:54:57		46.0	46.0
45.9	11:54:58		45.9	45.9
46.1	11:54:59		46.1	46.1
46.2	11:55:00		46.2	46.2
49.2	11:55:01		49.2	49.2
50.5	11:55:02		50.5	50.5
48.3	11:55:03		48.3	48.3
46.7	11:55:04		46.7	46.7
45.9	11:55:05		45.9	45.9
45.8	11:55:06		45.8	45.8
45.7	11:55:07		45.7	45.7
45.9	11:55:08		45.9	45.9
46.3	11:55:09		46.3	46.3
45.9	11:55:10		45.9	45.9
45.7	11:55:11		45.7	45.7
45.7	11:55:12		45.7	45.7

Site 2 - Northwest Corner of School

October 17, 2022 11:57:33 AM Leq Daytime = 60.8
Sampling Time = 1 sec Freq Weighting=A Leq Nighttime = 49.6
Record Num = 86402 CNEL(24hr)= 59.6
Leq = 58.1 Ldn(24hr)= 59.5
Min = 37.5 Min Leq hr at 2:32 AM 44.5
Max = 89.5 Max Leq hr at 12:43 PM 68.0

Site 2 - Northwest Corner of School

SPL	Time	Leq (1 hour Avg.)	Ldn	CNEL
69.6	11:57:33		69.6	69.6
67.0	11:57:34		67.0	67.0
69.2	11:57:35		69.2	69.2
70.8	11:57:36		70.8	70.8
70.3	11:57:37		70.3	70.3
66.3	11:57:38		66.3	66.3
68.3	11:57:39		68.3	68.3
66.8	11:57:40		66.8	66.8
73.5	11:57:41		73.5	73.5
71.2	11:57:42		71.2	71.2
67.3	11:57:43		67.3	67.3
64.8	11:57:44		64.8	64.8
62.5	11:57:45		62.5	62.5
64.9	11:57:46		64.9	64.9
66.4	11:57:47		66.4	66.4
65.9	11:57:48		65.9	65.9
63.7	11:57:49		63.7	63.7
62.6	11:57:50		62.6	62.6
63.3	11:57:51		63.3	63.3
65.4	11:57:52		65.4	65.4
69.9	11:57:53		69.9	69.9
68.7	11:57:54		68.7	68.7
67.6	11:57:55		67.6	67.6
67.2	11:57:56		67.2	67.2
67.9	11:57:57		67.9	67.9
66.1	11:57:58		66.1	66.1
64.5	11:57:59		64.5	64.5
66.6	11:58:00		66.6	66.6
65.4	11:58:01		65.4	65.4
71.3	11:58:02		71.3	71.3
67.4	11:58:03		67.4	67.4
64.6	11:58:04		64.6	64.6
63.5	11:58:05		63.5	63.5
60.9	11:58:06		60.9	60.9
70.9	11:58:07		70.9	70.9
67.8	11:58:08		67.8	67.8
65.4	11:58:09		65.4	65.4
63.6	11:58:10		63.6	63.6
67.9	11:58:11		67.9	67.9
73.8	11:58:12		73.8	73.8
70.6	11:58:13		70.6	70.6
69.7	11:58:14		69.7	69.7
68.1	11:58:15		68.1	68.1
69.5	11:58:16		69.5	69.5
67.8	11:58:17		67.8	67.8
73.2	11:58:18		73.2	73.2
71.3	11:58:19		71.3	71.3
67.9	11:58:20		67.9	67.9
67.4	11:58:21		67.4	67.4
68.0	11:58:22		68.0	68.0
67.2	11:58:23		67.2	67.2
64.6	11:58:24		64.6	64.6
63.0	11:58:25		63.0	63.0
62.5	11:58:26		62.5	62.5
61.9	11:58:27		61.9	61.9
70.0	11:58:28		70.0	70.0
69.2	11:58:29		69.2	69.2
73.6	11:58:30		73.6	73.6
72.8	11:58:31		72.8	72.8
70.1	11:58:32		70.1	70.1
67.2	11:58:33		67.2	67.2
65.9	11:58:34		65.9	65.9
64.4	11:58:35		64.4	64.4
62.0	11:58:36		62.0	62.0
63.0	11:58:37		63.0	63.0
63.2	11:58:38		63.2	63.2
61.2	11:58:39		61.2	61.2
61.3	11:58:40		61.3	61.3
60.5	11:58:41		60.5	60.5
62.3	11:58:42		62.3	62.3
63.9	11:58:43		63.9	63.9
63.5	11:58:44		63.5	63.5
64.8	11:58:45		64.8	64.8
62.5	11:58:46		62.5	62.5
61.8	11:58:47		61.8	61.8
65.7	11:58:48		65.7	65.7
65.3	11:58:49		65.3	65.3
64.6	11:58:50		64.6	64.6
64.7	11:58:51		64.7	64.7
63.1	11:58:52		63.1	63.1
60.4	11:58:53		60.4	60.4
60.2	11:58:54		60.2	60.2
63.2	11:58:55		63.2	63.2
62.4	11:58:56		62.4	62.4
63.2	11:58:57		63.2	63.2
63.1	11:58:58		63.1	63.1
62.9	11:58:59		62.9	62.9
65.0	11:59:00		65.0	65.0
64.1	11:59:01		64.1	64.1
65.7	11:59:02		65.7	65.7
71.1	11:59:03		71.1	71.1
70.3	11:59:04		70.3	70.3
70.8	11:59:05		70.8	70.8
69.9	11:59:06		69.9	69.9
68.1	11:59:07		68.1	68.1
66.5	11:59:08		66.5	66.5
63.8	11:59:09		63.8	63.8
61.9	11:59:10		61.9	61.9
62.3	11:59:11		62.3	62.3
64.9	11:59:12		64.9	64.9
66.0	11:59:13		66.0	66.0
65.6	11:59:14		65.6	65.6
67.3	11:59:15		67.3	67.3
66.3	11:59:16		66.3	66.3
65.0	11:59:17		65.0	65.0
65.9	11:59:18		65.9	65.9
64.9	11:59:19		64.9	64.9
65.0	11:59:20		65.0	65.0
66.0	11:59:21		66.0	66.0
66.6	11:59:22		66.6	66.6
67.8	11:59:23		67.8	67.8
67.2	11:59:24		67.2	67.2
64.4	11:59:25		64.4	64.4
63.0	11:59:26		63.0	63.0
62.1	11:59:27		62.1	62.1
62.4	11:59:28		62.4	62.4
61.1	11:59:29		61.1	61.1
64.6	11:59:30		64.6	64.6
62.5	11:59:31		62.5	62.5
60.6	11:59:32		60.6	60.6
64.0	11:59:33		64.0	64.0
68.4	11:59:34		68.4	68.4
67.4	11:59:35		67.4	67.4
65.2	11:59:36		65.2	65.2
63.7	11:59:37		63.7	63.7
61.6	11:59:38		61.6	61.6
61.8	11:59:39		61.8	61.8
62.2	11:59:40		62.2	62.2
64.4	11:59:41		64.4	64.4
64.3	11:59:42		64.3	64.3
64.0	11:59:43		64.0	64.0
65.3	11:59:44		65.3	65.3
66.3	11:59:45		66.3	66.3
69.4	11:59:46		69.4	69.4
68.4	11:59:47		68.4	68.4
70.1	11:59:48		70.1	70.1
70.0	11:59:49		70.0	70.0
68.0	11:59:50		68.0	68.0
66.3	11:59:51		66.3	66.3
66.2	11:59:52		66.2	66.2
64.9	11:59:53		64.9	64.9
70.3	11:59:54		70.3	70.3
71.5	11:59:55		71.5	71.5
68.6	11:59:56		68.6	68.6
65.6	11:59:57		65.6	65.6
63.4	11:59:58		63.4	63.4
63.1	11:59:59		63.1	63.1
63.7	12:00:00		63.7	63.7
63.1	12:00:01		63.1	63.1
62.4	12:00:02		62.4	62.4
61.7	12:00:03		61.7	61.7
62.1	12:00:04		62.1	62.1
64.2	12:00:05		64.2	64.2
65.4	12:00:06		65.4	65.4
67.1	12:00:07		67.1	67.1
69.0	12:00:08		69.0	69.0
68.7	12:00:09		68.7	68.7
67.5	12:00:10		67.5	67.5
65.0	12:00:11		65.0	65.0
63.2	12:00:12		63.2	63.2
66.8	12:00:13		66.8	66.8
64.1	12:00:14		64.1	64.1
61.4	12:00:15		61.4	61.4
62.8	12:00:16		62.8	62.8

Site 3 - North Side of School

October 17, 2022 12:01:19 PM Leq Daytime = 57.3
Sampling Time = 1 sec Freq Weighting=A Leq Nighttime = 45.8
Record Num = 86402 CNEL(24hr)= 56.3
Leq = 54.6 Ldn(24hr)= 56.2
Min = 36.2 Min Leq hr at 3:15 AM 41.7
Max = 81.1 Max Leq hr at 3:44 PM 64.0

Site 3 - North Side of School

SPL	Time	Leq (1 hour Avg.)	Ldn	CNEL
58.6	12:01:19		58.6	58.6
58.2	12:01:20		58.2	58.2
58.6	12:01:21		58.6	58.6
59.9	12:01:22		59.9	59.9
62.7	12:01:23		62.7	62.7
62.6	12:01:24		62.6	62.6
60.7	12:01:25		60.7	60.7
66.8	12:01:26		66.8	66.8
69.2	12:01:27		69.2	69.2
68.5	12:01:28		68.5	68.5
66.7	12:01:29		66.7	66.7
65.0	12:01:30		65.0	65.0
65.4	12:01:31		65.4	65.4
66.6	12:01:32		66.6	66.6
62.8	12:01:33		62.8	62.8
60.3	12:01:34		60.3	60.3
59.5	12:01:35		59.5	59.5
59.5	12:01:36		59.5	59.5
58.1	12:01:37		58.1	58.1
57.6	12:01:38		57.6	57.6
59.2	12:01:39		59.2	59.2
64.8	12:01:40		64.8	64.8
70.1	12:01:41		70.1	70.1
66.7	12:01:42		66.7	66.7
65.4	12:01:43		65.4	65.4
66.1	12:01:44		66.1	66.1
65.4	12:01:45		65.4	65.4
65.2	12:01:46		65.2	65.2
64.5	12:01:47		64.5	64.5
65.5	12:01:48		65.5	65.5
64.9	12:01:49		64.9	64.9
68.1	12:01:50		68.1	68.1
67.8	12:01:51		67.8	67.8
64.4	12:01:52		64.4	64.4
61.6	12:01:53		61.6	61.6
59.7	12:01:54		59.7	59.7
59.8	12:01:55		59.8	59.8
60.7	12:01:56		60.7	60.7
58.1	12:01:57		58.1	58.1
58.0	12:01:58		58.0	58.0
58.6	12:01:59		58.6	58.6
60.0	12:02:00		60.0	60.0
58.7	12:02:01		58.7	58.7
56.2	12:02:02		56.2	56.2
57.2	12:02:03		57.2	57.2
59.8	12:02:04		59.8	59.8
60.8	12:02:05		60.8	60.8
60.5	12:02:06		60.5	60.5
59.7	12:02:07		59.7	59.7
60.2	12:02:08		60.2	60.2
71.5	12:02:09		71.5	71.5
73.6	12:02:10		73.6	73.6
73.1	12:02:11		73.1	73.1
70.1	12:02:12		70.1	70.1
67.2	12:02:13		67.2	67.2
78.8	12:02:14		78.8	78.8
81.1	12:02:15		81.1	81.1
76.9	12:02:16		76.9	76.9
72.8	12:02:17		72.8	72.8
68.9	12:02:18		68.9	68.9
66.3	12:02:19		66.3	66.3
66.1	12:02:20		66.1	66.1
73.3	12:02:21		73.3	73.3
74.4	12:02:22		74.4	74.4
70.6	12:02:23		70.6	70.6
67.0	12:02:24		67.0	67.0
64.0	12:02:25		64.0	64.0
62.8	12:02:26		62.8	62.8
62.3	12:02:27		62.3	62.3
60.3	12:02:28		60.3	60.3
59.5	12:02:29		59.5	59.5
57.2	12:02:30		57.2	57.2
56.0	12:02:31		56.0	56.0
57.3	12:02:32		57.3	57.3
57.5	12:02:33		57.5	57.5
55.9	12:02:34		55.9	55.9
56.0	12:02:35		56.0	56.0
57.6	12:02:36		57.6	57.6
64.1	12:02:37		64.1	64.1
62.7	12:02:38		62.7	62.7
59.6	12:02:39		59.6	59.6
57.0	12:02:40		57.0	57.0
54.7	12:02:41		54.7	54.7
53.4	12:02:42		53.4	53.4
53.2	12:02:43		53.2	53.2
53.0	12:02:44		53.0	53.0
55.6	12:02:45		55.6	55.6
55.6	12:02:46		55.6	55.6
57.9	12:02:47		57.9	57.9
57.3	12:02:48		57.3	57.3
57.0	12:02:49		57.0	57.0
60.2	12:02:50		60.2	60.2
61.4	12:02:51		61.4	61.4
60.2	12:02:52		60.2	60.2
60.4	12:02:53		60.4	60.4
59.0	12:02:54		59.0	59.0
57.6	12:02:55		57.6	57.6
57.1	12:02:56		57.1	57.1
57.9	12:02:57		57.9	57.9
56.3	12:02:58		56.3	56.3
58.0	12:02:59		58.0	58.0
58.3	12:03:00		58.3	58.3
59.9	12:03:01		59.9	59.9
59.3	12:03:02		59.3	59.3
58.7	12:03:03		58.7	58.7
58.9	12:03:04		58.9	58.9
59.4	12:03:05		59.4	59.4
59.7	12:03:06		59.7	59.7
56.9	12:03:07		56.9	56.9
62.7	12:03:08		62.7	62.7
65.4	12:03:09		65.4	65.4
62.6	12:03:10		62.6	62.6
61.3	12:03:11		61.3	61.3
59.0	12:03:12		59.0	59.0
58.1	12:03:13		58.1	58.1
58.4	12:03:14		58.4	58.4
56.0	12:03:15		56.0	56.0
55.9	12:03:16		55.9	55.9
55.1	12:03:17		55.1	55.1
53.4	12:03:18		53.4	53.4
52.9	12:03:19		52.9	52.9
55.4	12:03:20		55.4	55.4
56.6	12:03:21		56.6	56.6
55.1	12:03:22		55.1	55.1
54.4	12:03:23		54.4	54.4
54.8	12:03:24		54.8	54.8
53.7	12:03:25		53.7	53.7
54.4	12:03:26		54.4	54.4
54.9	12:03:27		54.9	54.9
54.4	12:03:28		54.4	54.4
55.6	12:03:29		55.6	55.6
56.0	12:03:30		56.0	56.0
57.3	12:03:31		57.3	57.3
59.2	12:03:32		59.2	59.2
60.9	12:03:33		60.9	60.9
60.0	12:03:34		60.0	60.0
59.1	12:03:35		59.1	59.1
58.8	12:03:36		58.8	58.8
59.4	12:03:37		59.4	59.4
60.5	12:03:38		60.5	60.5
60.1	12:03:39		60.1	60.1
58.8	12:03:40		58.8	58.8
60.3	12:03:41		60.3	60.3
59.2	12:03:42		59.2	59.2
57.7	12:03:43		57.7	57.7
56.4	12:03:44		56.4	56.4
55.3	12:03:45		55.3	55.3
55.8	12:03:46		55.8	55.8
57.2	12:03:47		57.2	57.2
59.6	12:03:48		59.6	59.6
58.8	12:03:49		58.8	58.8
59.4	12:03:50		59.4	59.4
62.7	12:03:51		62.7	62.7
61.2	12:03:52		61.2	61.2
62.1	12:03:53		62.1	62.1
63.6	12:03:54		63.6	63.6
63.7	12:03:55		63.7	63.7
65.2	12:03:56		65.2	65.2
66.0	12:03:57		66.0	66.0
64.6	12:03:58		64.6	64.6
63.4	12:03:59		63.4	63.4
60.5	12:04:00		60.5	60.5
59.2	12:04:01		59.2	59.2
58.6	12:04:02		58.6	58.6

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 1/11/2023
Case Description: Paradise Cyn Elementary School - Stage 1 Mobilization

				---- Receptor #1 ----
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Home to North	Residential	57.3	57.3	45.8

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	210	0
Excavator	No	40		80.7	210	0
Grader	No	40	85		210	0
Roller	No	20		80	210	0
Compactor (ground)	No	20		83.2	210	0
Compactor (ground)	No	20		83.2	210	0
Backhoe	No	40		77.6	210	0
Front End Loader	No	40		79.1	210	0
Tractor	No	40	84		210	0

		Calculated (dBA)		Results			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane		68.1	60.1	N/A	N/A	N/A	N/A
Excavator		68.2	64.3	N/A	N/A	N/A	N/A
Grader		72.5	68.6	N/A	N/A	N/A	N/A
Roller		67.5	60.5	N/A	N/A	N/A	N/A
Compactor (ground)		70.8	63.8	N/A	N/A	N/A	N/A
Compactor (ground)		70.8	63.8	N/A	N/A	N/A	N/A
Backhoe		65.1	61.1	N/A	N/A	N/A	N/A
Front End Loader		66.6	62.7	N/A	N/A	N/A	N/A
Tractor		71.5	67.6	N/A	N/A	N/A	N/A
	Total	**72.5**	**74.1**	N/A	N/A	N/A	N/A

	Noise Limits (dBA)		
	Night		
Equipment	Lmax	Leq	
Crane	N/A	N/A	
Excavator	N/A	N/A	
Grader	N/A	N/A	
Roller	N/A	N/A	
Compactor (ground)	N/A	N/A	
Compactor (ground)	N/A	N/A	
Backhoe	N/A	N/A	
Front End Loader	N/A	N/A	
Tractor	N/A	N/A	
Total	N/A	N/A	

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 1/11/2023
Case Description: Paradise Cyn Elementary School - Stage 1 Mobilization

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Home to West	Residential	60.8	60.8	49.6

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	400	0
Excavator	No	40		80.7	400	0
Grader	No	40	85		400	0
Roller	No	20		80	400	0
Compactor (ground)	No	20		83.2	400	0
Compactor (ground)	No	20		83.2	400	0
Backhoe	No	40		77.6	400	0
Front End Loader	No	40		79.1	400	0
Tractor	No	40	84		400	0

		Calculated (dBA)		Results Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane		62.5	54.5	N/A	N/A	N/A	N/A
Excavator		62.6	58.7	N/A	N/A	N/A	N/A
Grader		66.9	63.0	N/A	N/A	N/A	N/A
Roller		61.9	54.9	N/A	N/A	N/A	N/A
Compactor (ground)		65.2	58.2	N/A	N/A	N/A	N/A
Compactor (ground)		65.2	58.2	N/A	N/A	N/A	N/A
Backhoe		59.5	55.5	N/A	N/A	N/A	N/A
Front End Loader		61.0	57.1	N/A	N/A	N/A	N/A
Tractor		65.9	62.0	N/A	N/A	N/A	N/A
	Total	**66.9**	**68.5**	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 1/11/2023
Case Description: Paradise Cyn Elementary School - Stage 1 Mobilization

---- Receptor #3 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Home to South	Residential	57.0	57.0	49.8

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	450	0
Excavator	No	40		80.7	450	0
Grader	No	40	85		450	0
Roller	No	20		80	450	0
Compactor (ground)	No	20		83.2	450	0
Compactor (ground)	No	20		83.2	450	0
Backhoe	No	40		77.6	450	0
Front End Loader	No	40		79.1	450	0
Tractor	No	40	84		450	0

		Results					
		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane		61.5	53.5	N/A	N/A	N/A	N/A
Excavator		61.6	57.6	N/A	N/A	N/A	N/A
Grader		65.9	61.9	N/A	N/A	N/A	N/A
Roller		60.9	53.9	N/A	N/A	N/A	N/A
Compactor (ground)		64.1	57.2	N/A	N/A	N/A	N/A
Compactor (ground)		64.1	57.2	N/A	N/A	N/A	N/A
Backhoe		58.5	54.5	N/A	N/A	N/A	N/A
Front End Loader		60.0	56.0	N/A	N/A	N/A	N/A
Tractor		64.9	60.9	N/A	N/A	N/A	N/A
	Total	**65.9**	**67.5**	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 1/11/2023
Case Description: Paradise Cyn Elementary School - Stages 2&3 Demolition

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Home to North	Residential	57.3	57.3	45.8

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	210	0
Excavator	No	40		80.7	210	0
Backhoe	No	40		77.6	210	0
Front End Loader	No	40		79.1	210	0
Tractor	No	40	84		210	0

	Calculated (dBA)		Results Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Mixer Truck	66.3	62.4	N/A	N/A	N/A	N/A
Excavator	68	64	N/A	N/A	N/A	N/A
Backhoe	65.1	61.1	N/A	N/A	N/A	N/A
Front End Loader	66.6	62.7	N/A	N/A	N/A	N/A
Tractor	71.5	67.6	N/A	N/A	N/A	N/A
Total	**71.5**	**71.2**	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 1/11/2023
Case Description: Paradise Cyn Elementary School - Stages 2&3 Demolition

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Home to West	Residential	60.8	60.8	49.6

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	400	0
Excavator	No	40		80.7	400	0
Backhoe	No	40		77.6	400	0
Front End Loader	No	40		79.1	400	0
Tractor	No	40	84		400	0

	Calculated (dBA)		Results Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Mixer Truck	60.7	56.8	N/A	N/A	N/A	N/A
Excavator	62.6	58.7	N/A	N/A	N/A	N/A
Backhoe	59.5	55.5	N/A	N/A	N/A	N/A
Front End Loader	61.0	57.1	N/A	N/A	N/A	N/A
Tractor	65.9	62.0	N/A	N/A	N/A	N/A
Total	**65.9**	**65.6**	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 1/11/2023
Case Description: Paradise Cyn Elementary School - Stages 2&3 Demolition

		Baselines (dBA)		**---- Receptor #3 ----**
Description	Land Use	Daytime	Evening	Night
Nearest Home to South	Residential	57.0	57.0	49.8

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	450	0
Excavator	No	40		80.7	450	0
Backhoe	No	40		77.6	450	0
Front End Loader	No	40		79.1	450	0
Tractor	No	40	84		450	0

		Calculated (dBA)		Results Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Mixer Truck		59.7	55.7	N/A	N/A	N/A	N/A
Excavator		61.6	57.6	N/A	N/A	N/A	N/A
Backhoe		58.5	54.5	N/A	N/A	N/A	N/A
Front End Loader		60.0	56.0	N/A	N/A	N/A	N/A
Tractor		64.9	60.9	N/A	N/A	N/A	N/A
	Total	**64.9**	**64.6**	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 1/11/2023
Case Description: Paradise Cyn Elementary School - Stages 2,3,4&5 Building Construction

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Home to North	Residential	57.3	57.3	45.8

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	210	0
Crane	No	16		80.6	210	0
Excavator	No	40		80.7	210	0
Grader	No	40	85		210	0
Roller	No	20		80	210	0
Compactor (ground)	No	20		83.2	210	0
Compactor (ground)	No	20		83.2	210	0
Backhoe	No	40		77.6	210	0
Front End Loader	No	40		79.1	210	0
Tractor	No	40	84		210	0
Compressor (air)	No	40		77.7	210	0

		Calculated (dBA)		Results Noise Limits (dBA) Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Mixer Truck		66.3	62.4	N/A	N/A	N/A	N/A
Crane		68.1	60.1	N/A	N/A	N/A	N/A
Excavator		68.2	64.3	N/A	N/A	N/A	N/A
Grader		72.5	68.6	N/A	N/A	N/A	N/A
Roller		67.5	60.5	N/A	N/A	N/A	N/A
Compactor (ground)		70.8	63.8	N/A	N/A	N/A	N/A
Compactor (ground)		70.8	63.8	N/A	N/A	N/A	N/A
Backhoe		65.1	61.1	N/A	N/A	N/A	N/A
Front End Loader		66.6	62.7	N/A	N/A	N/A	N/A
Tractor		71.5	67.6	N/A	N/A	N/A	N/A
Compressor (air)		65.2	61.2	N/A	N/A	N/A	N/A
	Total	**72.5**	**74.6**	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 1/11/2023
Case Description: Paradise Cyn Elementary School - Stages 2,3,4&5 Building Construction

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Home to West	Residential	60.8	60.8	49.6

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	400	0
Crane	No	16		80.6	400	0
Excavator	No	40		80.7	400	0
Grader	No	40	85		400	0
Roller	No	20		80	400	0
Compactor (ground)	No	20		83.2	400	0
Compactor (ground)	No	20		83.2	400	0
Backhoe	No	40.0		77.6	400	0
Front End Loader	No	40.0		79.1	400	0
Tractor	No	40.0	84		400	0
Compressor (air)	No	40.0		77.7	400	0

Equipment		Calculated (dBA) *Lmax	Leq	Results Day Lmax	Noise Limits (dBA) Leq	Evening Lmax	Leq
Concrete Mixer Truck		60.7	56.8	N/A	N/A	N/A	N/A
Crane		62.5	54.5	N/A	N/A	N/A	N/A
Excavator		62.6	58.7	N/A	N/A	N/A	N/A
Grader		66.9	63.0	N/A	N/A	N/A	N/A
Roller		61.9	54.9	N/A	N/A	N/A	N/A
Compactor (ground)		65.2	58.2	N/A	N/A	N/A	N/A
Compactor (ground)		65.2	58.2	N/A	N/A	N/A	N/A
Backhoe		59.5	55.5	N/A	N/A	N/A	N/A
Front End Loader		61.0	57.1	N/A	N/A	N/A	N/A
Tractor		65.9	62.0	N/A	N/A	N/A	N/A
Compressor (air)		59.6	55.6	N/A	N/A	N/A	N/A
	Total	**66.9**	**69.0**	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 1/11/2023
Case Description: Paradise Cyn Elementary School - Stages 2,3,4&5 Building Construction

---- Receptor #3 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Home to South	Residential	57.0	57.0	49.8

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	450	0
Crane	No	16		80.6	450	0
Excavator	No	40		80.7	450	0
Grader	No	40	85		450	0
Roller	No	20		80	450	0
Compactor (ground)	No	20		83.2	450	0
Compactor (ground)	No	20		83.2	450	0
Backhoe	No	40		77.6	450	0
Front End Loader	No	40		79.1	450	0
Tractor	No	40	84		450	0
Compressor (air)	No	40		77.7	450	0

Equipment		Results Calculated (dBA) *Lmax	Leq	Noise Limits (dBA) Day Lmax	Leq	Evening Lmax	Leq
Concrete Mixer Truck		59.7	55.7	N/A	N/A	N/A	N/A
Crane		61.5	53.5	N/A	N/A	N/A	N/A
Excavator		61.6	57.6	N/A	N/A	N/A	N/A
Grader		65.9	61.9	N/A	N/A	N/A	N/A
Roller		60.9	53.9	N/A	N/A	N/A	N/A
Compactor (ground)		64.1	57.2	N/A	N/A	N/A	N/A
Compactor (ground)		64.1	57.2	N/A	N/A	N/A	N/A
Backhoe		58.5	54.5	N/A	N/A	N/A	N/A
Front End Loader		60.0	56.0	N/A	N/A	N/A	N/A
Tractor		64.9	60.9	N/A	N/A	N/A	N/A
Compressor (air)		58.6	54.6	N/A	N/A	N/A	N/A
	Total	**65.9**	**68.0**	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 1/11/2023
Case Description: Paradise Cyn Elementary School - Stage 6 Restoration of Playfields

				---- Receptor #1 ----
		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Home to North	Residential	57.3	57.3	45.8

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	210	0
Excavator	No	40		80.7	210	0
Grader	No	40	85		210	0
Roller	No	20		80	210	0
Compactor (ground)	No	20		83.2	210	0
Compactor (ground)	No	20		83.2	210	0
Backhoe	No	40		77.6	210	0
Front End Loader	No	40		79.1	210	0
Tractor	No	40	84		210	0

		Calculated (dBA)		Results Noise Limits (dBA) Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane		68.1	60.1	N/A	N/A	N/A	N/A
Excavator		68.2	64.3	N/A	N/A	N/A	N/A
Grader		72.5	68.6	N/A	N/A	N/A	N/A
Roller		67.5	60.5	N/A	N/A	N/A	N/A
Compactor (ground)		70.8	63.8	N/A	N/A	N/A	N/A
Compactor (ground)		70.8	63.8	N/A	N/A	N/A	N/A
Backhoe		65.1	61.1	N/A	N/A	N/A	N/A
Front End Loader		66.6	62.7	N/A	N/A	N/A	N/A
Tractor		71.5	67.6	N/A	N/A	N/A	N/A
	Total	**72.5**	**74.1**	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 1/11/2023
Case Description: Paradise Cyn Elementary School - Stage 6 Restoration of Playfields

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Home to West	Residential	60.8	60.8	49.6

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	400	0
Excavator	No	40		80.7	400	0
Grader	No	40	85		400	0
Roller	No	20		80	400	0
Compactor (ground)	No	20		83.2	400	0
Compactor (ground)	No	20		83.2	400	0
Backhoe	No	40		77.6	400	0
Front End Loader	No	40		79.1	400	0
Tractor	No	40	84		400	0

		Results					
		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane		62.5	54.5	N/A	N/A	N/A	N/A
Excavator		62.6	58.7	N/A	N/A	N/A	N/A
Grader		66.9	63.0	N/A	N/A	N/A	N/A
Roller		61.9	54.9	N/A	N/A	N/A	N/A
Compactor (ground)		65.2	58.2	N/A	N/A	N/A	N/A
Compactor (ground)		65.2	58.2	N/A	N/A	N/A	N/A
Backhoe		59.5	55.5	N/A	N/A	N/A	N/A
Front End Loader		61.0	57.1	N/A	N/A	N/A	N/A
Tractor		65.9	62.0	N/A	N/A	N/A	N/A
	Total	**66.9**	**68.5**	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 1/11/2023
Case Description: Paradise Cyn Elementary School - Stage 6 Restoration of Playfields

---- Receptor #3 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Home to South	Residential	57.0	57.0	49.8

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	450	0
Excavator	No	40		80.7	450	0
Grader	No	40	85		450	0
Roller	No	20		80	450	0
Compactor (ground)	No	20		83.2	450	0
Compactor (ground)	No	20		83.2	450	0
Backhoe	No	40		77.6	450	0
Front End Loader	No	40		79.1	450	0
Tractor	No	40	84		450	0

		Results					
		Calculated (dBA)		Noise Limits (dBA)			
				Day		Evening	
Equipment		*Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane		61.5	53.5	N/A	N/A	N/A	N/A
Excavator		61.6	57.6	N/A	N/A	N/A	N/A
Grader		65.9	61.9	N/A	N/A	N/A	N/A
Roller		60.9	53.9	N/A	N/A	N/A	N/A
Compactor (ground)		64.1	57.2	N/A	N/A	N/A	N/A
Compactor (ground)		64.1	57.2	N/A	N/A	N/A	N/A
Backhoe		58.5	54.5	N/A	N/A	N/A	N/A
Front End Loader		60.0	56.0	N/A	N/A	N/A	N/A
Tractor		64.9	60.9	N/A	N/A	N/A	N/A
	Total	**65.9**	**67.5**	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.