

Detterman, Mark, Env. Health

From: Peter Cusack [pcusack@Langan.com]
Sent: Monday, October 13, 2014 11:33 AM
To: Detterman, Mark, Env. Health
Subject: 2302 Valdez Street, Oakland
Attachments: Figure 2 Site Plan.pdf; T2.pdf; T3.pdf; T4.pdf; T1.pdf

Hello Mark

Per my voicemail, I have attached a site plan and summary tables of our recent sampling activities. Please contact me if you have any questions before our meeting.

Thank you

Peter

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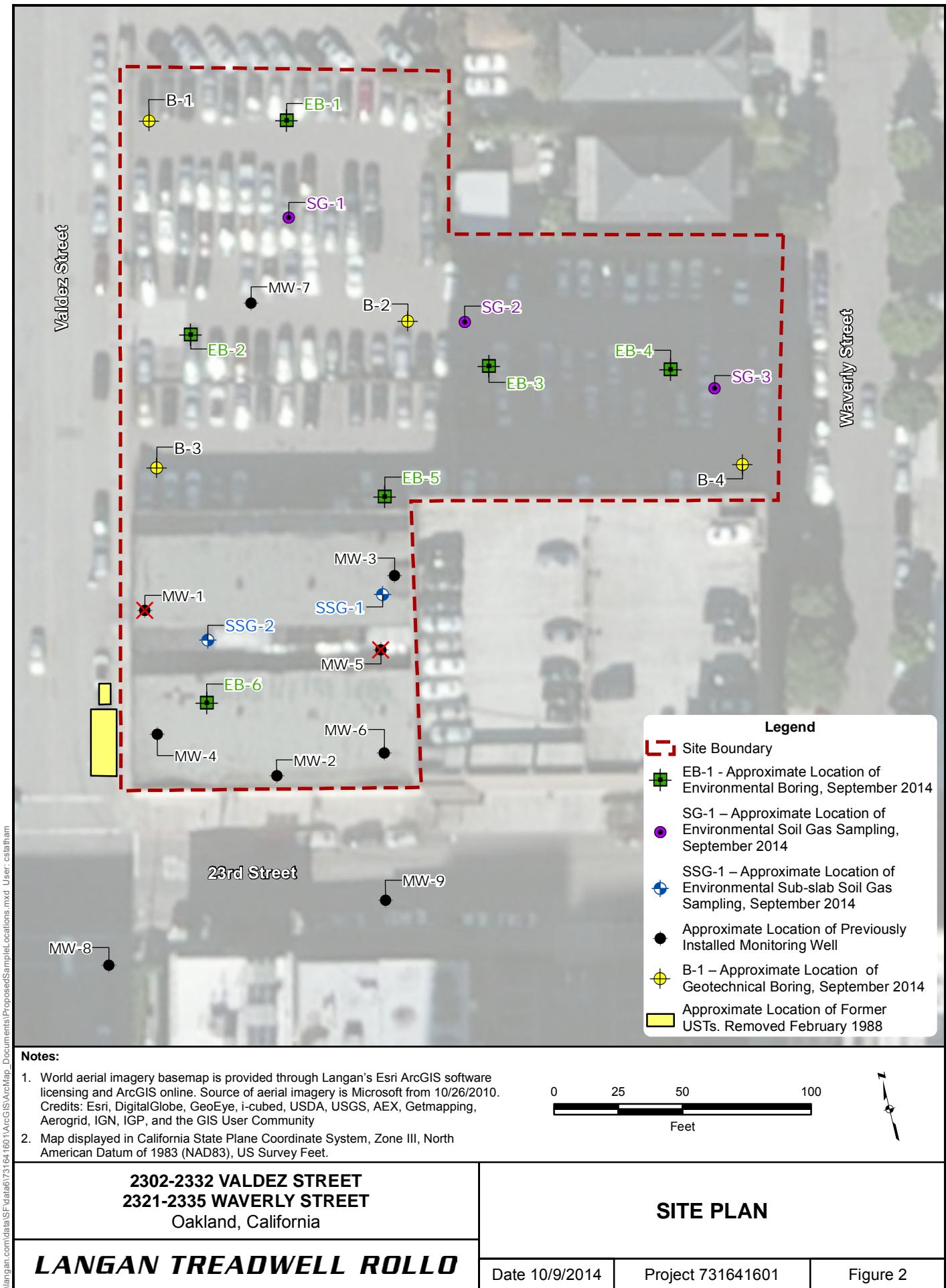


Table 1
Non-Metals Analytical Results in Soil
2302-2332 Valdez Street and 2321-2335 Waverly Street
Oakland, California

Langan Project: 731641601

October 2014

Sample ID	Depth (feet)	Date Sample	TPHg	TPHd	TPHmo	VOCs	SVOCs	OCPs and PCBs
(mg/kg)								
EB-1-1.5	1.5	09/06/14	< 1.0	< 1.0	< 5.0	--	--	ND
EB-1-5.0	5.0	09/06/14	< 1.0	2.7	33	ND	ND	--
EB-1-8.0	8.0	09/06/14	< 1.0	1.1	5.5	--	--	--
EB-2-1.5	1.5	09/06/14	< 1.0	2.2	19	--	--	--
EB-2-3.0	3.0	09/06/14	< 1.0	< 1.0	< 5.0	--	--	--
EB-2-8.0	8.0	09/06/14	< 1.0	< 1.0	< 5.0	--	--	--
EB-3-1.5	1.5	09/06/14	2.9	290	660	--	--	ND
EB-3-5.0	5.0	09/06/14	< 1.0	< 1.0	< 5.0	ND	ND	--
EB-4-1.5	1.5	09/06/14	< 1.0	4.5	59	--	--	--
EB-4-3.0	3.0	09/06/14	< 1.0	< 1.0	< 5.0	--	--	--
EB-4-8.0	8.0	09/06/14	< 1.0	< 1.0	< 5.0	--	--	--
EB-5-1.5	1.5	09/06/14	< 1.0	3.8	26	--	--	ND
EB-5-3.0	3.0	09/06/14	< 1.0	1.2	15	--	--	--
EB-5-5.0	5.0	09/06/14	< 1.0	3.6	70	--	--	--
EB-5-8.0	8.0	09/06/14	< 1.0	< 1.0	< 5.0	--	--	--
EB-6-1.5	1.5	09/06/14	< 1.0	< 1.0	< 5.0	--	--	--
EB-6-3.0	3.0	09/06/14	< 1.0	1.0	< 5.0	ND	ND	< 0.050 PCBs Only
B-1-3.0	3.0	09/06/14	< 1.0	2.1	8.9	--	--	--
B-1-9.0	9.0	09/06/14	< 1.0	< 1.0	< 5.0	--	--	--
B-2-3.0	3.0	09/06/14	< 1.0	< 1.0	< 5.0	--	--	--
B-2-5.5	5.5	09/06/14	< 1.0	1.3	< 5.0	--	--	--
B-3-3.0	3.0	09/06/14	< 1.0	< 1.0	< 5.0	--	--	--
B-3-5.0	5.0	09/06/14	< 1.0	2.6	< 5.0	--	--	--
B-4-3.0	3.0	09/06/14	< 1.0	< 1.0	< 5.0	--	--	--
B-4-5.5	5.5	09/06/14	< 1.0	< 1.0	< 5.0	--	--	--

Notes:

mg/kg - milligrams per kilogram

TPHg - Total Petroleum Hydrocarbons as Gasoline, EPA Method 8015M

TPHd - Total Petroleum Hydrocarbons as Diesel Range, EPA Method 8015M

TPHmo - Total Petroleum Hydrocarbons as Motor Oil EPA Method 8015M

VOCs - Volatile Organics, EPA Method 8260B

SVOCs - Semi-Volatile Organics, EPA Method 8270C

OCPs - Organochlorine Pesticides (EPA Method 8081A/8082)

PCBs - Polychlorinated Biphenyls (EPA Method 8081A/8082)

– Not analyzed

ND - Not detected at or above the laboratory reporting limit

< 1.0 - Analyte was not detected above the laboratory reporting limit (1.0 mg/kg)

Table 2
Metal Analytical Results in Soil
2302-2332 Valdez Street and 2321-2335 Waverly Street
Oakland, California

Sample ID	Depth (feet)	Date Sampled	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium STLC	Cobalt	Copper	Lead	Lead STLC	Lead TCLP	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
			(mg/kg)						(mg/L)	(mg/kg)			(mg/L)	(mg/kg)									
EB-1-1.5	1.5	09/06/14	< 0.50	3.6	180	0.54	< 0.25	50	< 0.050	14	17	10	--	--	< 0.050	0.65	38	< 0.50	< 0.50	< 0.50	39	32	
EB-1-5.0	5.0	09/06/14	--	--	--	--	< 0.25	38	--	--	--	5.1	--	--	--	--	74	--	--	--	--	30	
EB-1-8.0	8.0	09/06/14	--	--	--	--	< 0.25	53	< 0.050	--	--	14	--	--	--	--	79	--	--	--	--	46	
EB-2-1.5	1.5	09/06/14	0.59	4.3	140	0.52	< 0.25	43	--	10	19	44	--	--	0.052	< 0.50	43	< 0.50	< 0.50	< 0.50	39	54	
EB-2-3.0	3.0	09/06/14	--	--	--	--	< 0.25	49	--	--	--	7.6	--	--	--	--	54	--	--	--	--	31	
EB-2-8.0	8.0	09/06/14	--	--	--	--	< 0.25	61	0.077	--	--	15	--	--	--	--	85	--	--	--	--	52	
EB-3-1.5	1.5	09/06/14	--	--	--	--	0.50	38	--	--	--	290	24	1.1	--	--	32	--	--	--	--	260	
EB-3-5.0	5.0	09/06/14	--	--	--	--	< 0.25	40	--	--	--	6.3	--	--	--	--	27	--	--	--	--	26	
EB-4-1.5	1.5	09/06/14	1.8	6.7	350	0.57	0.51	45	--	13	52	190	8.5	< 0.20	0.45	0.57	44	< 0.50	< 0.50	< 0.50	42	180	
EB-4-3.0	3.0	09/06/14	--	--	--	--	< 0.25	45	--	--	--	310	26	< 0.20	--	--	38	--	--	--	--	65	
EB-4-8.0	8.0	09/06/14	--	--	--	--	< 0.25	12	--	--	--	2.6	--	--	--	--	7.8	--	--	--	--	43	
EB-5-1.5	1.5	09/06/14	1.0	6.6	320	0.68	0.34	44	--	13	42	170	11	< 0.20	0.24	0.61	47	< 0.50	< 0.50	< 0.50	41	150	
EB-5-3.0	3.0	09/06/14	--	--	--	--	0.37	48	--	--	--	510	27	0.36	--	--	57	--	--	--	--	210	
EB-5-5.0	5.0	09/06/14	--	--	--	--	0.53	36	--	--	--	360	19	< 0.20	--	--	30	--	--	--	--	250	
EB-5-8.0	8.0	09/06/14	--	--	--	--	< 0.25	60	--	--	--	7.8	--	--	--	--	55	--	--	--	--	28	
EB-6-1.5	1.5	09/06/14	--	--	--	--	< 0.25	57	< 0.050	--	--	7.1	--	--	--	--	89	--	--	--	--	36	
EB-6-3.0	3.0	09/06/14	< 0.50	3.6	130	0.62	< 0.25	58	< 0.050	--	18	6.0	--	--	< 0.050	< 0.50	89	< 0.50	< 0.50	< 0.50	43	38	
B-1-3.0	3.0	09/06/14	< 0.50	4.0	140	0.68	< 0.25	62	< 0.050	14	20	7.1	--	--	0.074	< 0.50	92	< 0.50	< 0.50	< 0.50	47	41	
B-1-9.0	9.0	09/06/14	--	--	--	--	< 0.25	59	< 0.050	--	--	7.7	--	--	--	--	78	--	--	--	--	49	
B-2-3.0	3.0	09/06/14	--	--	--	--	< 0.25	39	--	--	--	4.8	--	--	--	--	32	--	--	--	--	20	
B-2-5.5	5.5	09/06/14	--	--	--	--	< 0.25	62	< 0.050	--	--	12	--	--	--	--	94	--	--	--	--	41	
B-3-3.0	3.0	09/06/14	< 0.50	3.8	120	0.51	< 0.25	49	--	11	17	5.1	--	--	0.077	< 0.50	66	< 0.50	< 0.50	< 0.50	40	33	
B-4-3.0	3.0	09/06/14	< 0.50	2.8	180	< 0.50	0.31	29	1.2	9.0	14	60	1.2	< 0.20	0.054	< 0.50	27	< 0.50	< 0.50	< 0.50	28	120	
B-4-5.5	5.5	09/06/14	--	--	--	--	< 0.25	44	--	--	--	4.8	--	--	--	--	38	--	--	--	--	29	
Hazardous Waste Criteria																							
TTLC	(mg/kg)		500	500	10,000	75	100	2,500	--	8,000	2,500	1,000	--	--	20	3,500	2,000	100	500	700	2,400	5,000	
STLC	(mg/L)		15	5	100	0.75	1	--	5	80	25	--	5	--	0.2	350	20	1	5	7	24	250	
TCLP	(mg/L)		--	5	100	--	1	--	--	--	--	--	--	5	0.2	--	--	1	5	--	--	--	
ESL	(mg/kg)		20	0.39	750	4.0	12	1,000	--	23	230	80	--	--	6.7	40	150	10	20	0.78	200	600	

Notes:

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

< 0.5 - Analyte was not detected above the laboratory reporting limit (0.5 mg/kg).

- Not analyzed

TTLC - California Total Threshold Limit Concentration - State hazardous waste criterion

STLC - California Soluble Threshold Limit Concentration

TCLP - Federal Toxicity Characteristic Leaching Procedure

ESL - Regional Water Quality Control Board, SFBay, Environmental Screening Level from Summary Table for Shallow Soils (December 2013)

Bold - Exceeds State of California Hazardous Waste Criteria

Table 3
Volatile Organic Compound Analytical Results in Grab Water
2302-2332 Valdez and 2321-2335 Waverly Street
Oakland, California

Sample ID	Date Sampled	TPHg	TPHd	TPHmo	Acetone	Benzene	2-Butanone (MEK)	n-Butyl benzene	sec-Butyl benzene	Ethyl-benzene	Isopropyl-benzene	4-Isopropyl toluene	Naphthalene	n-Propyl benzene	Toluene	1,3,5- Trimethyl-benzene	Total Xylenes	All Other VOCs	
(µg/L)																			
MW-2	09/12/14	190	< 50	< 250	< 10	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	1.1	< 0.50	< 0.50	1.4	< 0.50	< 0.50	< 0.50	< 0.50	ND
MW-2	09/24/14	< 50	< 50	< 250	< 10	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	ND
MW-4	09/12/14	< 50	78	< 250	< 10	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	ND
MW-4	09/24/14	< 50	< 50	< 250	< 10	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	ND
MW-6	09/24/14	< 50	< 50	< 250	< 10	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	ND
MW-7	09/12/14	< 50	< 50	< 250	< 10	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	ND
MW-8	09/12/14	< 50	< 50	< 250	< 10	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	ND
MW-9	09/12/14	620	460	< 250	17	2.3	8.3	2.2	1.7	4.4	11	0.68	6.2	14	2.0	0.73	2.7	ND	
MW-9	09/24/14	520	220	< 250	< 10	< 0.50	< 2.0	< 0.50	< 0.50	< 0.50	0.55	0.73	1.5	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	ND
ESLs		100	100	100	1,500	1.0	7,100	--	--	30	--	--	6.1	--	40	--	20	--	

Notes:

µg/L - micrograms per liter

TPHg - Total Petroleum Hydrocarbons as Gasoline, EPA Method 8015M

TPHd - Total Petroleum Hydrocarbons as Diesel Range, EPA Method 8015M

TPHmo - Total Petroleum Hydrocarbons as Motor Oil, EPA Method 8015M

MEK - Methyl ethyl ketone

VOC - Volatile Organics Compounds, EPA 8260B

< 50 - Analyte was not detected above the laboratory reporting limit (50 µg/L)

ND - Analyte was not detected above the laboratory reporting limits

ESLs - Regional Water Quality Control Board, SFBay, Environmental Screening Level from Summary Table for Groundwater (December 2013)

Bold - Exceeds Screening Level(s)

Table 4
Non-Metals Analytical Results in Soil Gas
2302-2332 Valdez Street and 2321-2335 Waverly Street
Oakland, California

Sample ID	Date Sample	VOCs																			Helium	
		1,3-Butadiene	Acetone	Carbon Disulfide	Isopropanol	n-Hexane	2-Butanone (MEK)	Ethyl Acetate	Tetrahydrofuran	Cyclohexane	Benzene	n-Heptane	Toluene	Tetrachloroethylene (PCE)	Ethylbenzene	mp-Xylenes	o-Xylenes	Total Xylenes	1,2,4-Trimethylbenzene	1,3-Dichlorobenzene	All Other VOCs	
(µg/m ³)																					(Mol %)	
SSG-1	09/06/14	< 0.92	15	< 0.92	100	< 0.92	4.7	< 0.92	< 0.92	< 0.92	< 0.92	2.1	< 0.92	< 0.92	3.0	1.1	4.1	< 0.92	1.6	ND	< 0.18	
SSG-2	09/06/14	1.5	150	1.4	170	2.3	14	1.1	< 0.89	3.6	1.9	2.2	3.4	< 0.89	< 0.89	2.5	1.1	3.6	< 0.89	4.2	ND	< 0.18
ESL-R¹	--	6.4E+05	--	--	--	1.04E+05	--	--	--	1.68	--	6.2E+03	8.2	19.4	--	--	2.0E+03	--	--	--	--	
CHHSLs²	--	--	--	--	--	--	--	--	--	1.68	--	6.26E+03	8.24	--	1.46E+04	1.46E+04	--	--	--	--	--	
SG-1	09/06/14	2.0	36	< 0.92	21	6.7	4.8	< 0.92	2.3	5.1	2.7	2.4	2.5	< 0.92	28	100	32	132	< 0.92	1.4	ND	< 0.18
SG-2	09/06/14	3.1	24	1.4	32	14	6.5	< 0.98	< 0.98	3.1	6.4	3.8	5.2	4.8	15	56	18	74	< 0.98	3.8	ND	< 0.20
SG-3	09/06/14	3.3	9.2	2.2	25	3.2	3.3	< 0.99	3.1	2.4	5.1	1.8	5.9	< 0.99	17	61	20	81	1.4	2.3	ND	< 0.20
ESL-R³	--	1.60E+07	--	--	--	2.60E+06	--	--	--	42	--	1.60E+05	210	490	--	--	5.20E+04	--	--	--	--	
CHHSLs⁴	--	--	--	--	--	--	--	--	--	36.2	--	1.35E+05	180	--	3.18E+05	3.15E+05	--	--	--	--	--	

Notes:µg/m³ - micrograms per cubic meter

VOCS - Volatile Organics, EPA Method 8260B

< 0.92 - Analyte was not detected above the laboratory reporting limit (0.92 µg/m³)

ND - Not detected at or above method reporting limits

Bold - Exceeds Screening Level(s)ESL-R¹ - Regional Water Quality Control Board, Table E-3, Environmental Screening Levels for lowest residential Ambient and Indoor Air, December 2013 and calculated with an attenuation factor of 0.05CHHSLs² - California Environmental Protection Agency's (Cal/EPA), Table 2, California Human Health Screening Levels (CHHSLs) for Indoor Air, residential land use, January 2005 and calculated with an attenuation factor of 0.05ESL-R³ - Regional Water Quality Control Board, Table E-2, Environmental Screening Levels for lowest residential Soil Gas, December 2013CHHSLs⁴ - California Environmental Protection Agency's (Cal/EPA), Table 2, California Human Health Screening Levels (CHHSLs) for Shallow Soil Gas, residential land use, January 2005