



ENVIRONMENTAL
PROTECTION
97 FEB 28 AM 10:34

Project 130-05-01

February 18, 1997

Mr. Bryce Ruschaupt
California Petroleum Equipment
P. O. Box 9364
Fresno, CA 93792

**Subject: UST Removal Soil Sampling Report for Foothill Beacon, 16210
Foothill Boulevard, San Leandro, California**

Dear Mr. Ruschaupt:

This letter documents soil sampling related to the excavation of soil and the removal of four underground gasoline tanks from the above referenced site on January 28 and 30, 1997.

Underground Tank Removal

The tanks were removed by California Petroleum Equipment, Inc., of Fresno on January 28, 1997. Prior to removal from the pit, dry ice was placed in each tank. The Alameda County Environmental Health Dept.'s representative was on hand to observe the tank removal and loading, inspect the tanks, and observe soil sampling. There were two 8,000 gallon tanks and two 5,000 gallon tanks, single wall steel, and appeared to be in fair condition, with some pitting evident on the tanks with close inspection.

The Alameda County inspector probed the pitted areas and found two 1/4" to 1/2" holes at the end of one of the 5,000 gallon tanks. The holes were about 3 feet from the bottom of the tank at the weld by the tank cylinder and tank end. Although the metal was soft enough to disintegrate with the probing of a screwdriver, it appears that the tank did not leak from these spots. The tanks were sitting in about 4 feet of water, and if the tanks leaked, water would have been 3 to four feet deep in this tank. Since no water was pumped from the tank during service, the tank was apparently intact until removal.

questionable

The tanks and piping were hauled to the Erickson, Inc. facility in Richmond, California, where they will be destroyed. The dispensers and island were removed prior to the tank removal.

Recycled Paper

The tank bottoms rested at about 14 feet depth below ground surface (BGS)(Figure 1: Site Plan, Sample Data). The dispensers were located south of the tanks on two separate gas islands. Groundwater was 11 feet below grade surface on the day of the tank removal, as measured by tape measure.

Sample Collection

Prior to the tank removals, samples were taken of soils in the pipe trenches and under the former island locations (Samples P-1 through P-9) at depths of 2 to 3 feet BGS with a backhoe. A six-inch brass tube was pushed into the soil just above the bucket teeth until the tube was full. Aluminum foil and plastic caps were placed over the tubes, then the samples were labeled and placed on ice for transport to the testing laboratory for certified chemical analysis. A chain of custody form accompanied the samples to the lab. The tank excavation was not sampled on this day because the County Inspector desired additional excavation of the backfill materials prior to sampling. Standing water was observed in the tank pit prior to and after the tanks were removed.

The tank pit samples (T-1 through T-5, W-1) and additional pipe trench samples (P-10, P-11) were obtained on January 30, 1997. The soil samples were obtained as described above. The water sample was obtained by lowering a teflon bailer into the standing water, allowing the bailer to completely submerge, and placing the sample water in two 40 milliliter vials. All samples were labeled and placed on ice in a cooler, and a chain of custody form was completed for transport to the analytical laboratory.

The sampled soils were comprised mainly of stiff clays, and smelled none to strongly of aged or fresh gasoline.

Sample Analysis Results

The soil samples were analyzed at a State Certified Environmental Laboratory for total petroleum hydrocarbons as gasoline (TPH-g), methyl-tert butyl ether (MTBE), and benzene, toluene, ethylbenzene, xylenes (BTEX) by EPA methods 8015 modified/8020 (Attachment A: Soil Sample Analytical Data).

The native soil samples indicated low level gasoline contamination with background lead concentrations. Sample results are presented in Table 1 below.

Conclusions

On January 28, 1997, two 8,000 gallon and two 5,000 gallon single wall steel underground fuel storage tanks were removed from the property located at 16210 Foothill Boulevard, San Leandro, California. Soil samples were taken on January 28 and 30, 1997, from the tank pit ends, under the gas islands and under the piping for certified chemical analysis of TPH as gasoline, MTBE, and BTEX. One water sample was obtained from the tank excavation on January 30, 1997.

Samples from under the piping and gas islands had low to moderate TPH-g detected, and samples from the tank pit yielded low level gasoline results. The water sample had a moderately high amount of gasoline detected. The highest amounts of gasoline detected were found under the piping near the south east corner of the tank excavation.

A copy of this report and attachments will be forwarded by Parker Environmental to the Alameda County Environmental Health Department on behalf of the property owner.

Sincerely:
PARKER ENVIRONMENTAL SERVICES



James D. Parker
President

Attachments
Site Drawing
Laboratory Analysis Reports

Table 1
Soil Sample Analytical Results
Foothill Beacon, 16210 Foothill Boulevard
San Leandro, California

Sample	TPH-gas	MTBE	benzene	toluene	ethyl-benzene	xylenes
1/28/97						
P-1@2'	ND	ND	ND	ND	ND	ND
P-2@2'	ND	ND	ND	ND	ND	0.011
P-3@2'	870	7.4	ND<0.03	0.59	ND<0.03	98
P-4@2'	ND	ND	ND	ND	ND	ND
P-5@3'	150	110	2.3	10	2.3	19
P-6@3'	360	0.43	0.26	1.5	1.0	14
P-7@3'	1.1	0.70	0.028	0.074	0.009	0.031
P-8@2'	ND	0.16	ND	ND	ND	0.012
P-9@2'	180	1.5	ND	0.093	0.16	0.32
1/30/97						
T-1@10.5'	10	9.4	0.17	0.23	0.074	0.68
T-2@10.5'	1.4	1.3	0.38	0.008	ND	ND
T-3@10.5'	17	0.24	0.042	0.027	0.026	0.056
T-4@10.5'	2.5	0.10	ND	0.009	ND	0.044
T-5@10.5'	130	0.48	1.1	0.19	3.0	5.8
P-10@6'	3.2	.38	ND	0.007	ND	0.005
P-11@9.5'	130	2.6	1.8	2.3	3.0	18
det. lim. (S)	1.0	0.05	0.005	0.005	0.005	0.005
<hr/>						
W-1@11'	4000	2800	110	88	46	620
det. lim. (W)	50	5.0	0.5	0.5	0.5	0.5

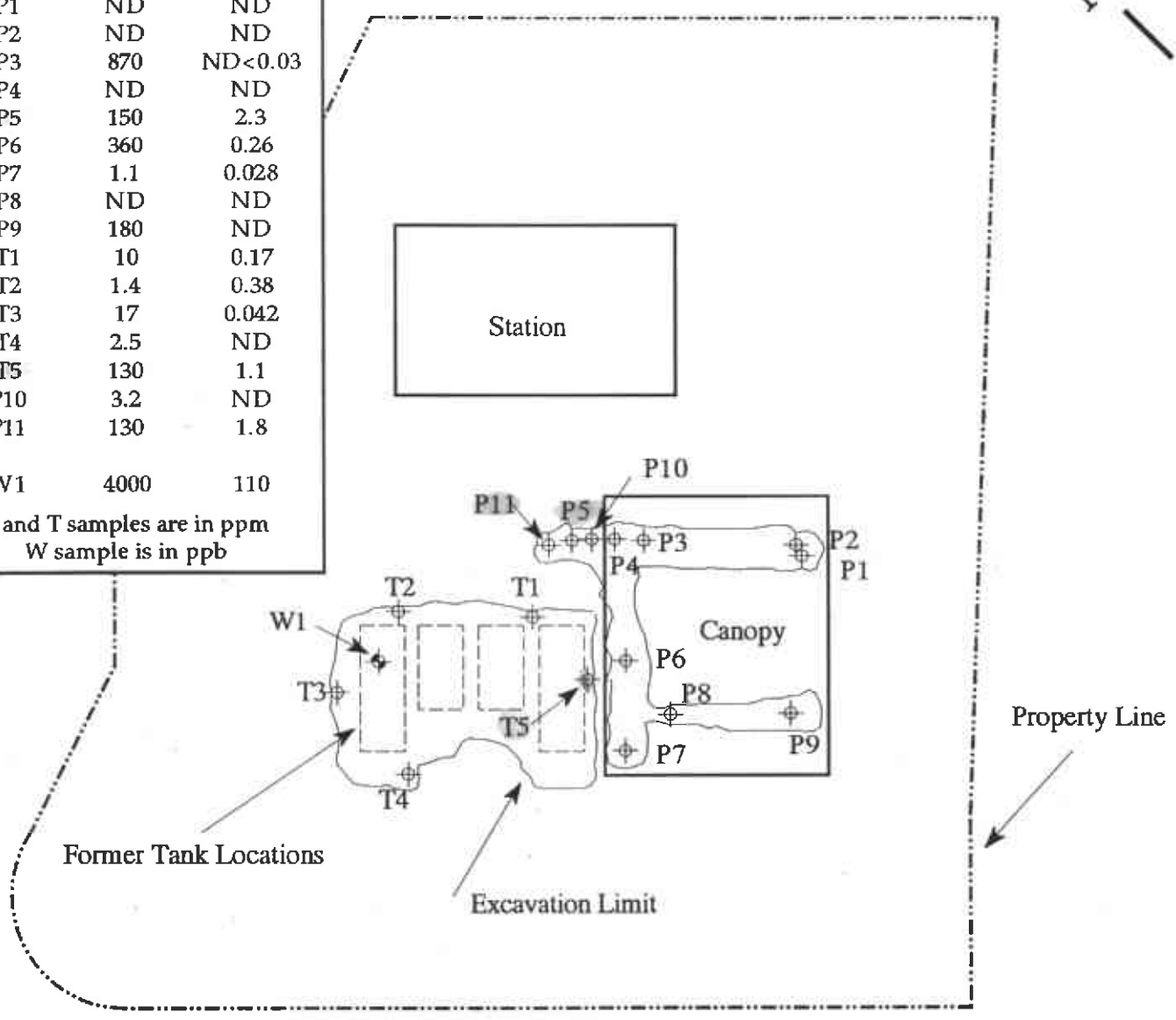
Soil results are in mg/kg or parts per million (ppm), Water results are in µg/L or parts per billion (ppb).
ND = not detected at or above method detection limits

lead results?

Analytical Results

Sample	TPH-g	Benzene
P1	ND	ND
P2	ND	ND
P3	870	ND<0.03
P4	ND	ND
P5	150	2.3
P6	360	0.26
P7	1.1	0.028
P8	ND	ND
P9	180	ND
T1	10	0.17
T2	1.4	0.38
T3	17	0.042
T4	2.5	ND
T5	130	1.1
P10	3.2	ND
P11	130	1.8
W1	4000	110

P and T samples are in ppm
W sample is in ppb



FOOTHILL BOULEVARD

Samples were obtained on January 28 and 30, 1997.

Scale: 1" = 30'

Locations of Site Features are Approximate

Project 130-05-01

PARKER Environmental Services	190 East 7th Street Pittsburg, CA 94565 (510) 439-1024
	UST Removal Sampling Points Beacon Station 16210 Foothill Boulevard San Leandro, California

QC REPORT FOR HYDROCARBON ANALYSES

Date: 01/28/97-01/29/97

Matrix: Soil

Analyte	Concentration (mg/kg) Sample (#68845)			Amount Spiked	% Recovery		RPD
	MS	MSD			MS	MSD	
TPH (gas)	0.000	2.191	2.137	2.03	108	105	2.5
Benzene	0.000	0.222	0.222	0.2	111	111	0.0
Toluene	0.000	0.230	0.238	0.2	115	119	3.4
Ethylbenzene	0.000	0.218	0.232	0.2	109	116	6.2
Xylenes	0.000	0.654	0.658	0.6	109	110	0.6
TPH (diesel)	0	338	333	300	113	111	1.5
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

PARKER

Environmental Services
190 East 7th Street
Pittsburg, CA 94565
(510) 439-1024
Fax (510) 439-2566

CHAIN OF CUSTODY FORM

8017 APE 282

Job. Client: 130-05-01 California Petroleum Equip-
Site Name: BEACON STATION
Location: 16210 FOOTHILL BLVD, SAN LEANDRO, CA.

Date 1-28-97

Sample Number	Type			Analysis Requested							Remarks	
	Soil	Water	Time	TPH-g	TPH-d	BTEX	O & G	MTBE	Metals (list)	Asbestos		Other
P-102'	X		14:58	X		X		X				<div style="background-color: black; color: white; padding: 5px; text-align: center;"> 73270 73271 73272 73273 73274 73275 73276 73277 73278 </div>
P-202'	X		15:10	X		X		X				
P-302'	X		15:13	X		X		X				
P-402'	X		15:16	X		X		X				
P-503'	X		15:20	X		X		X				
P-603'	X		15:30	X		X		X				
P-703'	X		15:35	X		X		X				
P-802'	X		15:42	X		X		X				
P-902'	X		15:47	X		X		X				

ICE/T°
 GOOD CONDITION
 HEAD SPACE ABSENT
 PRESERVATIVE APPROPRIATE CONTAINERS
 VOCs O&G METALS OTHER

Sampler Name (Print)

J. IM PARKER

Sampler Signature

Jim Parker

Relinquished By: Date and Time

Jim Parker 1/28/97 17:02

Received By: Date and Time

Mike Price

Relinquished By: Date and Time

Received By: Date and Time

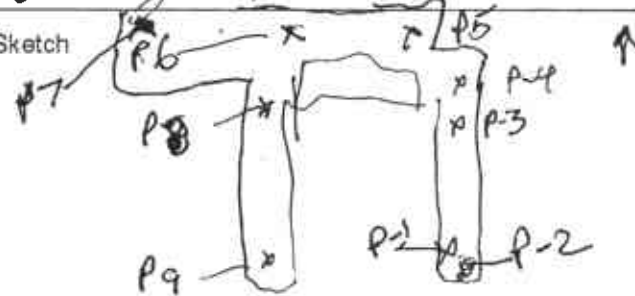
Relinquished By: Date and Time

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Sampling Site Sketch



QC REPORT FOR HYDROCARBON ANALYSES

Date: 01/30/97

Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		
	Sample (#68845)	MS	MSD		MS	MSD	RPD
TPH (gas)	0.000	1.980	1.933	2.03	98	95	2.4
Benzene	0.000	0.190	0.180	0.2	95	90	5.4
Toluene	0.000	0.214	0.186	0.2	107	93	14.0
Ethylbenzene	0.000	0.190	0.180	0.2	95	90	5.4
Xylenes	0.000	0.600	0.558	0.6	100	93	7.3
TPH (diesel)	0	302	300	300	101	100	0.9
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

QC REPORT FOR HYDROCARBON ANALYSES

Date: 01/31/97

Matrix: Soil

Analyte	Concentration (mg/kg) Sample (#68846)			Amount Spiked	% Recovery		RPD
	MS	MSD			MS	MSD	
TPH (gas)	0.000	2.170	1.960	2.03	107	97	10.2
Benzene	0.000	0.200	0.184	0.2	100	92	8.3
Toluene	0.000	0.210	0.192	0.2	105	96	9.0
Ethylbenzene	0.000	0.204	0.188	0.2	102	94	8.2
Xylenes	0.000	0.648	0.562	0.6	108	94	14.2
TPH (diesel)	0	345	337	300	115	112	2.2
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\text{Rec} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

QC REPORT FOR HYDROCARBON ANALYSES

Date: 01/30/97

Matrix: Water

Analyte	Concentration (mg/L)			Amount Spiked	% Recovery		RPD
	Sample (#73220)	MS	MSD		MS	MSD	
TPH (gas)	0.0	95.0	91.8	100.0	95.0	91.8	3.4
Benzene	0.0	9.2	8.7	10.0	92.0	87.0	5.6
Toluene	0.0	9.2	8.9	10.0	92.0	89.0	3.3
Ethyl Benzene	0.0	9.3	9.0	10.0	93.0	90.0	3.3
Xylenes	0.0	27.9	26.7	30.0	93.0	89.0	4.4
TPH (diesel)	0	137	138	150	91	92	0.7
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

* Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

QC REPORT FOR ICP and/or AA METALS

Date: 01/31/97

Matrix: Soil

Analyte	Concentration (mg/kg, mg/L, ug/wip)			Amount Spiked	% Recovery		RPD
	Sample	MS	MSD		MS	MSD	
Total Lead	0.0	4.41	4.29	5.0	88	86	2.7
Total Cadmium	0.0	5.25	4.97	5.0	105	99	5.4
Total Chromium	0.0	4.55	4.35	5.0	91	87	4.5
Total Nickel	0.0	4.40	4.25	5.0	88	85	3.6
Total Zinc	0.0	5.03	4.86	5.0	101	97	3.5
Total Copper	N/A	N/A	N/A	N/A	N/A	N/A	N/A
STLC Lead	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

PARKER

Environmental Services
190 East 7th Street
Pittsburg, CA 94565
(510) 439-1024
Fax (510) 439-2566

CHAIN OF CUSTODY FORM

8033 APE 283

Job, Client: 130-05-01 Calif. Petroleum Equip.
Site Name: BEACON STATION
Location: 16210 Foothill Blvd. San Leandro, CA.

Date 1-30-97

Sample Number	Type			Analysis Requested							Remarks	
	Soil	Water	Time	TPH-g	TPH-d	BTEX	O & G	MTBE	Metals (list)	Asbestos		Other
T1010.5	X		14:20	X		X		X	Total Lead			NORMAL TAT
T2010.5	X		14:25									73351 73352 73353 73354 73355 73356 73357 73358
T3010.5	X		14:32									
T4010.5	X		14:38									
T5010.5	X		14:45									
P1006'	X		14:57									
P1109.5'	X		15:12									
(+) W1011'		X	15:20	X		X		X				

ICE/T ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
PRESERVATIVE APPROPRIATE CONTAINERS ✓
VOAS ✓
D&G ✓
METALS ✓
OTHER ✓

Sampler Name (Print) Jim PARKER

Sampler Signature *Jim Parker*

Relinquished By: <i>Jim Parker</i> 1/30/97 17:10	Received By: <i>Angel Rodriguez</i> 1/30/97 17:10
Relinquished By: _____	Received By: _____
Relinquished By: _____	Received By: _____
Relinquished By: _____	Received By: _____

