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1187 Ocean Avenue

Emeryville, California 94608

(510) 547-8540 FAX (510) 527-7785

Industrial, Civil, Structural and Architectural Engineering. Construction Management. Hazardous Material Removal & Remediation

Eric M. Cox, PE, SE
Structural Engineering, Construction Management
David Benaroya Helfant, Ph.D., M.ASCE, ICBO
Environmental, Seismic and Drainage Design
Structural and Engineering Inspections
Michael S. Noell, M.Arch., A.I.A.
Architecture and Planning
Ilhami Karaca, PE, SE
Structural Engineering

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February 5, 2001

TO: Mr. Lawrence Seto, Senior Hazmat Specialist, Environmental Protection Division, ACHCSA

RE: Final Report-1. <u>Removal of Contaminated Soils</u>, former tank site #1, trenches at former product lines for former tank #1, removal of soils at former dispenser #2 and

2. Resampling Under Previous Tank #1, Prod. Line for #1 & #2, at former dispenser for Tank #1 and #2, and at the Groundwater Sampling Well

- 6335 San Pablo Avenue, Oakland, CA 94608, Stid 1685

Dear Mr. Seto:

As per our meetings of September 6, 2000, and October 25, 2000, and according to the specifications of the approved work plan dated 12/24/2000, we report here the findings of the resampling and over-excavation to remove contaminated soils.

According to existing documents on file, all previous County requirements were completed in 1988 during the owners' removal of two small underground gas tanks. New tests, required by the County in 1999, revealed a small residue of other contamination [by a different test for other substances not formerly required for testing by the County in 1988].

All previous tests [including test results from County closure in 1988 and this firm's sampling in July 1999] indicated that only a small area around the previous site of the 500 gallon buried tank, its dispenser and at its former product pipeline, contained contaminated soils, as did a groundwater sample from the sampling well installed 10-feet downgradient from the lowest site. [See the attached site and sampling plan.]

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1. Background for Completion of Final Report:

Two previously removed UST's (removed and closure secured in 1988) at 6335 San Pablo Avenue contained gasoline. One was a 500- gallon tank, the other a 1000-gallon tank. Each were properly inerted, removed and the metal recycled. The soil originally collected at the former locations was analyzed for Total Petroleum Hydrocarbons as Gasoline (TPH-G). Additional analyses were provided in July 1999, and the tests were again duplicated during the completed procedure in January 2001. These tests were performed to determine the existence of benzene, toluene, ethyl benzene, xylene (BTEX), lead, and methyl-tert-butyl ether (MTBE).

2. Site Location:

The site is the former repair shop formerly known as Bolin's Service Garage. Mr. Bolin was in the business of repairing vehicles. The former shop is located at the corner of San Pablo Avenue and 64th Street in North Oakland, near the Berkeley and Emeryville borders. The former business is accessed through 64th Street.

3. Site History:

The owner operated a repair shop for 30-years, and the property has been in the family for at least this period of time. No other record of business activities is found, and the site is thought to have been largely vacant prior to the establishment of Mr. Bolin's business. The service garage had two UST's for gasoline, one a 500 gallon tank nearest the shop structure, and a second one located adjacent to a driveway. The owner had both tanks removed in 1988 under the benefit of County permit.

The sale of gasoline was not part of the business services offered at Bolin's garage and the tanks were lightly used. Upon removal and sampling >2,400 ppm TPH-G was found in the sample hole #2 below the 1,000 gallon tank adjacent to the driveway. All contaminated soils were removed and tansported to an approved landfill under manifest. Site closure was granted.

4. Statement of Work Completed:

The owners, in accordance with County guidelines:

.1 Completed excavation of those areas where the contamination was found as a result of the testing completed in July 1999. At these areas the excavation traced the contamination plume in the soil. The excavation and the soil removal continued until-through visual judgement that included the absence of odor and and the absence of petroleum stained soils or other indications of the presence of contaminated soils- a clean line of remaining soils was found.

In the area of the former dispenser for the smaller UST and its product pipeline

excavations proceeded. For the dispenser the excavation was done against the building where the former dispenser for UST #1 was previously located. After excavating 7.5- feet deep directly against and below the structure, and removing the contaminated soils, it was determined in conjunction with members of the County's environmental specialist team and the owners' engineers that no further excavation against the building was appropriate given the potential for undermining the structure. [It appeared that the clean line was nearly reached when the excavation was halted for reasons of safety and the maintenance of the structural integrity of the building.]

The term "clean line" was determined in the field by judgement according to color, odor and soil characteristics. The latter is defined as the change in the character of the soil produced by the contaminants attributed to underground fuel tanks. [See site plan.] A registered geologist from a state certified analytical lab, the chief field engineer and investigator for the owner, three members of the ownership trust, two members of the County's environmental health department, and two hazmat trained workers of the licensed engineering and hazmat contractor were on hand to execute and or observe the work.

A utility backhoe and small excavator were used to excavate soils and to set such excavated soils on a 6-mil visqueen ground sheet that was covered with 6- mil plastic sheeting upon completion of the excavation. Two samples per each 20-yards of material in the spoils piles were collected and analyzed as per protocol of the licensed treatment facility, Bay Soil Remediation, Richmond, California.

- .2 Previous investigations did not reveal product pipeline at the site of the 500 gallon UST [the product pipeline for the 1,000-gallon tank had been removed in 1988]. To address this, the recently completed work involved further excavation to remove the product pipeline for the 500-gallon tank, and to remove all soils viewed as contaminated through viusal analysis and odor around and beneath this pipeline.
- .3 Excavation at the site of the former product pipeline and the dispenser for the 1,000-gallon tank was also performed, the soils were removed and the remaining soils in the former product pipeline trench and dispenser were sampled and analyzed.
- .4 The excavated soil was stockpiled and then sampled and profiled by a registered geologist employed by County approved state certified lab with six samples taken among the 55-+,- yards of stockpiled soil, as per the certified disposal site that contracted with the owner for the soil remediation. A copy of all manifests are included in this report with the final analytical results.
- .5 When the excavations were completed and the soils removed, the remaining soils left unexcavated were also sampled to determine that the "clean line" of remaining soil has been reached, or if not, what the profile of the remaining soil would show based on the same laboratory analysis.

In all: one sample under the former 500-gallon tank, two under its former dispenser, three under its product line, one sample under the former dispenser of the 1,000 -gallon former tank, one under its product line, and one sample of the groundwater well [after purging the well] were taken. Three composite samples of the soils spoils pile were also taken.

Sampling involved pounding brass tube lab containers with a wooden mallet into undisturbed sections of the excavations and the spoils piles. The tubes were completely filled leaving no head space. These were capped, labeled, and immediately refrigerated and brought to the certified lab for analysis.

- .1 Soil samples were collected in thin-walled stainless or brass tubes at least 5-inches long and 1.5-inches in diameter. No headspace was present in the tube once the sample was collected. Each end of the tube was covered with aluminum foil and then capped with polyethylene lid, taped, and labeled. The samples were immediately placed in an ice chest containing dry ice and kept cold at 4 degrees C] for delivery to the laboratory.
- .2 The samples were tested for the presence of THP -gas, BTEX, lead, and MTBE. For MTBE the analytical laboratory used EPA method 8260. To access the soil for testing when it is covered by paving, the paving in the way was removed.
- .6 The contaminated soils found were trucked under manifest to an approved disposal/treatment plant [Bay soil Remediation Center, Richmond, California] and under manifest cleaned. A report from the treatment and disposal facility is provided in this final report to illustrate approved disposal.
- .7 A groundwater sample was taken at the existing groundwater sampling well. The groundwater sample and the pruging of the well prior to the sampling was performed by a registered geologist from a state certified laboratory in a manner that reduced or eliminated the possibility of loss of volatile constitutents from the sample. A decontaminated teflon bailer for the groundwater sample was used to collect the sample for analysis. After completion of the sampling, the well was grouted and closed under permit to close the sampling well processed through the Alameda County Public Works [contact person, James Yoo at 510-670-6633]. Groundwater sampling proceeded as follows:
- .1 A grab water sample or purged sample was collected [after temperature, conductivity and Ph has stabilized] from the groundwater sampling well. This procedure enabled the well to be emptied [contents stored in a sealed above ground 55 gal container] of the latent water in the well. The contents of this will be analyzed and disposed of by a certified liquid treatment facility. [A manifest will be provided indicating chain of command and transport.] By sampling after purging, the groundwater sample was representative of the groundwater. The sample was taken after the water level in the groundwater sampling well approached 80% of its initial level.

- .2 The water sample was tested for TPH [gas], BTEX [as per laboratory procedure], lead, and MTBE. The volatile water samples were collected in VOA vials and sampled in such a manner to minimize headspace loss. The water sample for lead was filtered onsite, and collected in a glass container with nitric acid as a preservative. The samples were placed in an ice chest maintained at 4 degrees C with blue ice with care taken to prevent freezing of the water and bursting of the glass vial.
- .8 The entire procedure was monitored for quality control and the results are included in this report. Please sees the attached dimensioned drawing of the site indicating the depths of the samples collected, the areas where excavation took place.
- .9 Upon completion of the removal of the contaminated soils, the excavated areas will be backfilled and compacted with clean imported fill.

6. CONCLUSIONS AND RECOMMENDATIONS:

Based on the above findings, we believe the owners have removed the contaminated soils for all practical health and environmental purposes, with little evidence of any significant remaining soil contamination, and no source of additional contamination, that would limit the use of this parcel in the manner in which the property is zoned [light industrial].

Therefore, based on the investigation findings, including the laboratory chemical analysis of the soils and the ground water, and the manifest indicating the soils off-hauled have been transported to a licensed soils treatment facility, we recommend the disturbed portions of the property be repayed in order for the owners to regain its commercial use.

No. C.E. 2416

Sincerely

d/Penaroya Helfant, PhD, M. ASCE

Eric M. Cox PÉ

Attachment:

Site and Sampling Plan
Analytical Laboratory Profile

02-05-0

- SITE & SAMPLING PLAN! 6335 SAN PABLO AVENUE, OAKKAND.

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	-Bolin Service	-			<u>) 929-377</u>	18	Levels		_
	6335 San Pabl	o Ave.			Contact		TPH Levels		
			USA	FAX#) 547-630	1 0	AVG. Levels		
	Designated Facility (Transport			Facility	Phone # - 205-8778	3.0	Facility Permit	Numbers	
	Bay Soil Reme			<u> </u>	교립교육하기 (설 Contact				
	20 Recycling	Lane		Û⊕ o i FAX#	a Tuchser	n			***
	Machmond, CA	94801	មនុស្ស		-231-4154				
	Transporter Name and Mailing	Address:		Transpo	ter's Phone #		Transporter's U	S EPS ID No.	:
				Person t	O Contact		Transporter's D	OT No,:	
				FAX #	·	 _	Customer Acco	unt Number:	
			Contaminated by:	Approx.Qtv:	Description of D	elivery	Gross LBS	Tare LBS	Net LBS
	Description of Soil	Moisture Content	Commitmeted by.						
	Description of Soil Sand Organic Organic Other Other	0-10%	Gas Diesel Dother D						
	Sand 🔾 Organic 🔾	0-10% Cl 10-20% Cl	Gas 🗆 Diesel 🗆				- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	-	
	Sand Organic Organi	0-10%	Gas						
	Sand Organic Organi	0-10%	Gas	nced herein i	s taken entirely fr thing has been ac	om those s dded or dd	oils described	in the Soil	Data Shee
	Sand Organic Clay Other Cla	0-10%	Gas	nced herein i	thing has been a	om those s dded or dd	oils described	in the Soil	Data Shee
	Sand Organic OClay Other OCLAY OTHER	0-10%	Gas Diesel Diesel Diesel Doubler Diesel Diesel Diesel Doubler Diesel Doubler Diesel Doubler Diesel Doubler Diesel Doubler Diesel Doubler Diesel Double Diesel Diese	Signature and il described assoils is being	thing has been added: bove and certify directly transport	that such	oils described ne to such so	in the Soil il that would	Data Sheet alter it is
	Sand Organic OClay Other OCLAY OTHER	0-10%	Gas Diesel Diesel Diesel Doubler Diesel Diesel Diesel Doubler Diesel Doubler Diesel Doubler Diesel Doubler Diesel Doubler Diesel Doubler Diesel Double Diesel Diese	Signature and il described assoils is being	thing has been added to the control of the control	that such	oils described ne to such so	in the Soil il that would	Data Shee I alter it in
	Sand Organic Organic Orlay Other Oth	0-10%	Gas Diesel Diesel Diesel Doubler Diesel Diesel Diesel Doubler Diesel Doubler Diesel Doubler Diesel Doubler Diesel Doubler Diesel Doubler Diesel Double Diesel Diese	Signature and il described disoils is being my way delayi	thing has been added to the control of the control	that such	oils described ne to such so	Month Melivered in Site to the i	Data Sheet alter it is Day Yes exactly the Designate.
	Sand Organic Organic Orlay Other Oth	0-10%	Gas Diesel Diesel Diesel Dother Diesel Diesel Diesel Diesel Diesel Dother Diesel Dother Diesel Dother Diesel Dother Diesel Dother Diesel Diese	Signature and il described described as being my way delayi	thing has been added to the control of the control	that such that such ted from the	oils described ne to such so	Month Melivered in Site to the i	Data Sheet alter it in Day Yes exactly the Designates
Tecycling facility	Sand Organic Organic Orlay Other Oth	0-10%	Gas Diesel Diesel Diesel Dother Diesel Diesel Diesel Diesel Diesel Dother Diesel Dother Diesel Dother Diesel Dother Diesel Dother Diesel Diese	Signature and il described described as being my way delayi	thing has been added to the control of the control	that such that such ted from the	oils described ne to such so	Month Melivered in Site to the i	Data Sheet alter it in Day Yes exactly the Designates

ANALYSISOF SAMPLES JULY 1999 Nachtmann Analytical Laboratory, Inc.

720 Olive Drive • Davis, CA 95616 • (530) 758-5850 • Fax (530) 758-5870 Mailing Address: P.O. Box 1025 . Davis, CA 95617

Analytical Laboratory Report

Client: Sciesco Engineering Co.

1187 Ocean Ave. Emet7yville,CA. 94608 Attn: Davis Helefont 7/28/99(revised 11/26/99) Sample ID #

:1A,1B to #10

Sample Location: 64th St& San pablo Ave.

Sample Matrix : All soil, #10 water

Sampling Date :7/19 to 7/21/99

Sampled By

:Client

Sample received: 7/22/99

Sample	ID#/	Conc.	(ug/l)	in	Extract	

	Analytes	MDL(ug/l)	1A	1B	#2	#3	#4	#5	#6
TPH- TPH- TPH- TPH-	Benzene Toluene Ethyl benzene Xylenes(total)	0.5 0.5 0.5 0.5	3.22 1.94 1.54 5.51	301. 2,680. 1,954. 14,221.	27.19 3.66 19.54 45.41	17,23 3.00 2.06 11.80	< 0.5 3.84 < 0.5 25.92	< 0.5 < 0.5 < 0.5 < 0.5	< 0.5 < 0.5 < 0.5 < 0.5
Methyl	- t - butyl ether	5.0	< 5.0	446,35	3.13	< 5.0	1.55	< 5.0	< 5.0

		#7	#8	#9	_10
ТРН-	Benzene	< 0.5	< 0.5	< 0.5	284.37
TPH-	Toluene	< 0.5	< 0.5	< 0.5	9.43
TPH-	Ethyl benzene	< 0.5	< 0.5	< 0.5	< 0.5
TPH-	Xylenes(total)	< 0.5	< 0.5	< 0.5	508.8
Methyl	- t - butyl ether	< 5.0	< 5.0	< 5.0	50.37

Sample ID#/ Conc. (mg/kg)

Analy	es	MDL(mg/l)	1A	1B	#2	#3	#4	#5	#6
Lead (total)	Pb	0.02	< 1.0	1.8	< 1.0	< 1.0	1.8	2.3	3.64

<u> </u>			// 20
11 45	4.55	6.4	5.5

Nachtmann Analytical La

Report comtinued

Client: Siesco Engineering Co.

1187 Ocean Ave. Emeryville, CA. 95608

<u>OC</u>

Surrogate (BTEX)

% Recovery

a,a,a-Trifluorotoluene

101.8

Matrix Spikes	%]	Recovery	RPD
•	MS # 1	MS # 2	
Benzene	92.35	108.	16.
Toluene	99.1	103.3	4.11
Ethyl-benzene	99.1	103.4	4.2
Xylene (total)	101,3	105,8	4.3
Total Lead (Pb)	117	132	12.04

Sample Preparations:

For BTEX & MTBE

Equal amounts of soil samples extracted for analysis of BTEX &

MTBE.

For total Lead

Portion of soil samples dried at 107 C, sieved through 500 um

sieve opening . 1.00 gram of this sieved digested in aqua regia

to 50 ml of final volume for analysis.

This laboratory services performed per State of California's laboratory certification # 1419

Chemist in charge

Ahmed Modabber

Report comtinued

Client: Siesco Engineering Co.

1187 Ocean Ave.

Emeryville, CA. 95608

7/28/99

(revised 11/26/99)

 \mathbf{oc}

Surrogate (BTEX)

% Recovery

a,a,a-Trifluorotoluene

101.8

Matrix Spikes	% Recovery		RPD
•	MS # 1	MS # 2	
Benzene	92.35	108.	16.
Toluene	99.1	103,3	4.11
Ethyl-benzene	99.1	103,4	4.2
Xylene (total)	101.3	105.8	4.3
Total Lead (Pb)	117	132	12.04

Method of Analysis for BTEX & MTBE

: Sample Preparation : EPA SW 846 # 5030A

Sample Analysis: EPA SW 846 # 8020 purge & Trap

For total Lead

Portion of soil samples dried at 107 C, sieved through 500 um sieve opening . 1.00 gram of this sieved digested in aqua regia to 50 ml of final volume for analysis . According to method # 7420

Method of Analysis for total Pb

: Sample Preparation : EPA SW 846 # 3050A

Sample Analysis: EPA SW # 7420

This laboratory services performed per State of California's laboratory certification # 1419

Chemist in charge

Ahmed Modabber

J.M.

AVALYSIS OF SAMPLES FROM

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com B-mail: main@mccampbell.com

CONTAM

Client Project ID: #RJLEE6176; 6335	Date Sampled: 01/17/2001		
San Pablo Ave	Date Received: 01/18/2001		
Client Contect: Ben Schiefelbein	Date Extracted: 01/18-01/19/2001		
Client P.O:	Date Analyzed: 01/18-01/19/2001		
	Client Contact: Ben Schiefelbein		

Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

Lab ID	dr 3030, modific Client ID	Metrix	TPH(g)+	МТВЕ	Benzene	Toluene	Ethyl- benzene	Xylenes	% Recovery Surrogate
58160	MW1	W	63,2	•••	4.8	ND	2.2	2.2	98
									-
								-	
_									
									·
									•
Otherwise	Limit unless stated; ND	w	50 ug/L	5.0	0,5	0.5	0.5	0.5	
the repo	etected above rting limit	\$	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and studge samples in mg/kg, and all TCLP and SPLP extrasts in ug/L

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly mulified gasoline is significant; b) heavier gasoline range compounds are significant[aged gasoline?]; c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; c) TPH pattern that does not appear to be derived from gasoline (?); () one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible shoen is present; i) liquid sample that contains greater than -5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

cluttered chromatogram; sample peak coelutes with surrogate peak



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RJ Lee Group, Ir		Client	Project ID: #RJLEE6176; 6335	Date Sampled: 0	1/17/2001	
530 McCormick	Street	San Pablo Ave		Date Received: 01/18/2001		
San Leandro, CA	94577	Client	Contact: Ben Schiefelbein	Date Extracted: (01/18/2001	
		Client	P.O:	Date Analyzed: (
EPA method \$260 tr	adified		Methyl tert-Butyl Ether *			
Lab ID	Client ID	Matrix	MTGE*		% Recovery	
58160	MWI	w			Surrogate	
		"	ND		104	
					· · · · · · · · · · · · · · · · · · ·	
		-				
						
		- +				
			· · · · · · · · · · · · · · · · · · ·			
						
		-			<u></u>	
Reporting Limit vale	ss Otherwise	w	1.0 ug/L			
tated; ND means not d the reporting	istected above L	s				
			5.0 ug/kg			
water samples are rep g/L	corted in ug/L, so	il and studge	camples in ug/kg, wipe samples in ug/wip	and all TCLP/STLC/	SPLP extrects in	
) lighter than water im Ranic content	miscible sheen is	bussauri i) jie	tuid sample that contains greater than -S vi	ol. % sediment: j) sample	diluted due to hist	

DHS Certification No. 1644



110 2nd Avenuc South, #D7, Pacheco, CA 94553-5560 Telsphone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

RJ Les Group, Inc.		Client	Project ID: #RJ	LBE6176; 6335	Date Sampled: 01/17/2001		
530 McCon	mick Street	San Pr	iblo Ave		Date Received: 01/18/2001		
Sen Leandre	o, CA 94577	Client	Contact: Ben Sc	hlefelbein	Date Extracted	: 01/18/2001	
		Client	P,Q;		Date Analyzed	01/18/2001	
EPA analytical	methods 6010/200.7, 23	19.21	Lea	d*			
Lab 1D	Client ID	Matrix	Extraction "	Le	ad*	% Recovery Surrogate	
\$\$160	MWt	w	Dissolved	N	D	N/A	
				·	-		
							
				-			
					 -		
							
					***************************************	<u> </u>	
						<u> </u>	
	·			····			
Reporting Li	mit unless Otherwise	S	TILC	3.0 m			
stated; ND ma the n	ens not detested above sporting limit	W	Dissolved	0.005	ring/I.		
		 }	STLC,TCLP	0.2 m	ng/L		

^{*} soil and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLF / TCLP extracts in mg/l. "Lead is analysed using EPA method 6010 (ICP) for soils, sludges, STLC & TCLP extracts and method 239.1 (AA Purnace) for water

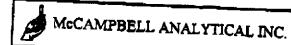
S DISTLC extractions are performed using STLC methodology except that detonized water is substituted for citric acid buffer as file extraction fluid. DISTLC results are not applicable to STT.C regulatory limits.

[&]quot; EPA extraction methods 1311 (TCLP), 3010/3020 (water, TTLC), 3040 (organic matrices, TTLC), 3050 (solids, TTLC); STLC - CA Title 22

[&]quot; surrogate diluted out of range; N/A means surrogate not applicable to this analysis

^{*} reporting limit reised due matrix interference

i) liquid sample that contains greater than -2 vol. % sediment, this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.



110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Tclephone: 925-798-1620 Fax: 925-792-1622 http://www.mccampbell.com B-mail: main@mccampbell.com

RJ Lee Group, Inc. Client Project ID: #RJLEE6176; 6335 Date Sampled: 01/17/2001 San Pablo Ave 530 McConmick Street Date Received: 01/18/2001 San Leandro, CA 94577 Client Contact: Ben Schiefelbein Date Extracted: 01/18-01/20/2001

		Clicat		Date Analys	Date Analyzed: 01/22/2001		
	nethods 6010/200.7,	39.2"	Lead*				
Lab ID	Client ID	Macrix	Extraction *	Lend*	% Recover		
58169	Comp A	S	STLC	0.37	Surrogate		
58170	Comp B	S	STLC	0.99	N/A		
58171	Comp C	S	STLC	0,20	N/A		
				17,20	N/A		
		 					
		 					
							
Paratina Linux	lana aika a	S	TTLC	3.0 mg/kg			
tėd; ND means	unless otherwise not detected above ring limit	w	піс	0.005 mg/!	_		
aw tebat	ning arm		STLC,TCLP	0.2 mg/T.			

^{*} soil and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLP / TCLP extracts in mg/L *Load is analyzed using BPA method 6010 (ICP)for soils, sludges. STLC & TCLP extracts and method 239.2 (AA Fumace) for water

E DISTEC extractions are performed using STEC methodology except that deionized water is substituted for citric acid buffer as the extraction fluid. DISTEC regulæ are not applicable to STEC regulatory limits.

^{*} EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTI.C); STLC - CA Title 22 f surrogate diluted out of range; N/A meens surrogate not applicable to this analysis

A reporting limit releed due matrix interference

i) liquid sample that contains greater than -2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

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RJ Lee Group, Inc.	Client Project ID: #RJLEB6176; 6335	Date Sampled: 01/17/2001		
530 McCormick Street	San Pablo Ave	Date Received: 01/18/2001		
San Leandro, CA 94577	Client Contact: Ben Schiefelbein	Date Extracted: 01/18/2001		
	Client P.O:	Date Analyzed: 01/19/2001		

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

Lab ID	Client ID	Matrix	TPH(g) [†]	MTBE	Benzene	Toluena	Ethyl- benzene	Xylenes	% Recovery Surrogate
58169	Comp A	8	83,a	ND	0.069	0,45	0.58	4.3	103
58170	Comp B	S	60,a	ND<0.10	0.3)	0.13	0,26	1.0	104
58171	Comp C	S	34,a	ND	0.078	0.26	0.26	1.5	
				<u> </u>			, 		· · · · · · · · · · · · · · · · · · ·
	-								
			···········						
			·						
Reporting	Limit unless se stated; ND	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
	detected above orting limit	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

^{*} water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and studge samples in mg/kg, and alt TCLF and SPLP extracts in ug/L

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic poaks are significant; biologically aftered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~9 vol. % sediment; j) no recognizable pattern.

[&]quot; cluttered chromologram; sample peak coelules with surrogate peak

RJ LeeGroup, Inc.

530 McCormick Street • San Leandro, CA 94577 510/567-0480 • FAX 510/567-0488

		Client P.O:	Date Analy	zed: 01/26/2001
		Methyl ter	t-Butyl Ether *	
A method 82	60 modified		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	% Recovery
Lab ID	Client ID	Mutrix	мтве'	Surrogate
58169	Comp A	s	ND<25.j	101
58170	Comp B	s	ND<25.j	100
58171	Comp C	S	ND<25.j	94
			1	
· · · · · · · · · · · · · · · · · · ·				
	+			
			i	
			auce Fe	
9 coording	Limit unless otherwise	w	1.0 ug/L	
analed NID	means not detected above e reporting limit	s	5.0 ug/kg	

⁼ water samples are reported in ug/L, soil and sladge samples in ug/kg, wipe samples in ug/wipe and all TCLP / STLC / SPLP extracts in

h) lighter than water immiscible sheen is present i) liquid sample that contains greater (ban =5 vol. % sediment; j) sample diluted due to high

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RJ Lee G	roup, Inc.		Client Project ID: #RJLBE6176; 6335 San Pablo Ave			6335	Date Sampled: 01/17/2001 Date Received: 01/18/2001			
	ormick Street									
San Lean	dro, CA 9457	7	Client Cont	act: Bon S	chic/elbein		Date Extra	cted: 01/11	3/2001	
			Client P.O:				Date Analy	yzed: 01/1	3/2001	
	e Range (C6- ds 5030, modifie								& BTEX*	
Lab ID	Client ID	Matrix	TPH(g)*	MTBE	Benzenc	Toluene	Ethyl- benzene	Xylones	% Recovery Surrogate	
58168	T1-6.5	S	4.3.j		0.008	0.030	0,0063	0.028	107	
									-	
	_									
	<u> </u>									
				-			<u> </u>	 		
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<u>-</u>	<u> </u>		· · · · · · · · · · · · · · · · · · ·		ļ					
					<u> </u>			 		
		<u> </u>								
								ļ		
otherw:	ig Limit unless ise statod; ND	w	50 ug/L	5.0	0.5	0.5	0.5	0.5		
	t detected above porting limit	\$	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005		

water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLF and SFLP extracts in ug/L

The following descriptions of the TPH circumstagram are currenty in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant specificant; gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad cloumatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); () one to a few isolated peaks present; g) atroughy aged gasoline or dienel range compounds are significant; h) lighter than water immissible sheen is present; i) liquid sample that contains greater than -5 vol. % sediment; j) no recognizable partern.

Edward Hamilton, Lab Director

[&]quot; cluttered chromatogram; sample peak coalutes with surrogate peak



110 2nd Avenue South, #D7, Pacheco, CA 94553-556(I http://www.mccampbell.com E-mail: main@mccampbell.com

RJ Lee Group, Inc.	Client Project ID: #RJLEE6176; 6335	Date Sampled: 01/17/2001
530 McCormick Street	San Pablo Ave	Date Received: 01/18/2001
San Leandro, CA 94577	Client Contact: Ben Schiefelbein	Date Extracted: 01/18/2001
	Client P.O:	Date Analyzed: 01/19/2001
		· <u></u>

Mathyl tert-Butyl Ether							
PA method 82 Lab ID	Ctions ID	Matrix	MTBE'	% Recovery Surrogate			
58168	T1-6.5	5	ND	92			
		-					
							
Reporting Limit unless otherwise stated; ND means not detected above		w	1.0 ug/L				
stated; ND means not detected above the reporting limit		S	5.0 ug/kg				

^{*} water samples are reported in ug/L, soil and studge samples in ug/kg, wipe samples in ug/wipe and all TCLP / STLC / SPLP extracts in

DHS Certification No. 1644

h) lighter than water immiscible sheen is present: () liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content.



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RJ Lee Group, Inc. 530 McConnick Street		Client Project ID: #RJLEE6176; 6335 San Pablo Ave			Date Sampled: 01/17/2001		
		SER PR	DIU AVE		Date Received: 01/18/2001		
San Leandro,	CA 94577	Client	Contact: Ben Sc	hiefelbein	Date Extracted: 0	1/18/2001	
·		Client	P.O:		Date Analyzed: 0	1/18/2001	
EPA analytical m	ethods 6010/200.7, 239	9.2*	Lesi	j z		- , -	
Lab ID	Client ID	Matrix	Extraction °	Le	rad*	% Recovery Surrogate	
58168	TI-6.5	s	TTLC	<u> </u>	20	101	
			-		***************************************		
-		_					
							
					<u></u>		
					<u> </u>		
		S	TTLC	ta	mg/kg		
Reporting Limits stated: ND mean	uit unless otherwise is not detocted above	w	TTLC		05 mg/L	1	
the rep	orting limit		STLC,TCLP		mg/L		

^{*} soil and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC / SPLP / TCLP extracts in mg/L "Land is analysed using EPA method 6010 (ICP)for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water

^{*} DISTLC extractions are performed using STLC methodology except that defonized water is substituted for citric acid buffer as the extraction fluid. DISTLC results are not applicable to STLC regulatory limits.

^{*} EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC - CA 'litic 22

surrogate diluted out of range; NA means surrogate not applicable to this analysis

^{*} reporting limit raised due matrix interference

i) liquid sample that contains greater than -2 vot. % sectiment; this sediment is expected with the liquid, in accordance with IPA methodologics and can significantly effect repured metal concentrations.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Pax: 925-798-1622 http://www.mecampbell.com R-mail: main@mccampbell.com

RJ Lee Group, Inc.	Client Project ID: #RJLEE6176; 6335	Date Sampled: 01/17/2001	
530 McCormick Street	San Pablo Ave	Date Received: 01/18/2001	
San Leandro, CA 94577	Client Contact: Ben Schiefelbein	Date Extracted: 01/18/2001	
	Client P.O:	Date Analyzed: 01/19/2001	

Gasolina Range (C6-C1I) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & HTEX* BPA methods 5030, medified \$015, and 5020 or 602; California RWOCE (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)*	MTBE	Benzene	Totuene	Ethyl- benzene	Xylenes	% Recovery Surrogate
58164	PT1-5.0	s	ND	-4-	ND	ND	ND	סא	104
58165	PT2-4.0	8	20,a	~=-	0.53	0.069	0.39	1.3	106
58166	PT3-4.5	\$	ND	_	מא	ND	DN	ND	103
58167	PT4-3.0	s	210,a	-	1.1	0.29	1.2	5.2	97
			<u>:</u>						
*				<u>-</u>					
· · · · · · · · · · · · · · · · · · ·						-		 	
		-				-			
								_	
Reporting	ng Limit unless	w	50 ug/L	5.0	0.5	0.5	0.5	0.5	
means no	t detected above porting limit	S	1.0 mg/kg	0.05	0.005	200.0	0.005	0.005]

water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP carracts in ug/L

eluttered chromatogram; sample peak coelutes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation; a) primodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are rignificant/aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline mbge compounds having broad chromatographic peaks are significant; biologically altered gasolines; e) TPH pattern that does not appear to be derived from gasoline (?); () one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immissible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

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RJ Lee Group, Inc. 530 McCormick Street San Leandro, CA 94577		Client Project	ID: #RJLEE6176; 6335	Date Sampled: 01/17/2001 Date Received: 01/18/2001		
		San Pablo Ave	•			
		Client Contac	t: Ben Schiefelbein	Date Extracted: 0	1/18/2001	
		Client P.O:		Date Analyzed: 0	1/19-01/25/2001	
EPA method 82	160 modified	Methy	yl tert-Butyt Ether		~~~~~~~~~~	
Lab ID	Client ID	Matrix	мтрв"		% Recovery Surrogate	
58164	PT1-5.0	S	ND		93	
58165	PT2-4.0	S	12		106	
58166	PT3-4.5	S	6.1		94	
58167	PT4-3.0	5	ND<10J		3 1	
				-		
				<u> </u>		
Reporting Lin	mic unless otherwise ins nut detected above	w	1.0 ug/L			
fire to	porting limit	S	5.0 ug/kg	_		

[·] water samples are reported to ug/L, soil and shidge samples in ug/kg, wipe samples in ug/wipe and all TCLP / STLC / SPLP extracts in

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h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than -5 vol. % sediment; j) sample diluted due to high organic content.

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http://www.mccampbell.com B-mail: main@mccampbell.com

RJ Lee Group, Inc. 530 McCormick Street San Leandro, CA 94577		Client	Client Project ID: #RJLEB6176; 6335			Date Sampled: 01/17/2001	
		San Pa	blo Ave	Date Received: 01/18/2001			
		Client	Contact: Ben Schief	elbein	Date Extrac	ted: 01/18/2001	
		Client	P _i O;		Date Analyz	red: 01/18/2001	
EPA analytical me	thods 6010/200.7, 23	19.2 ⁺	Lead*		:		
Lab ID	Client ID	Matrix	Extraction "	La	nd*	% Recovery Surrogate	
58164	PT1-5.0	S	TTLC	-	7.2	103	
58165	PT2-4.0	S	TTLC		7.0	98	
58166	PT3-4.5	S	TTLC	-	7.0	99	
58167	PT4-3.0	S	TILC	7	7,1	101	
							
	· · · · · · · · · · · · · · · · · · ·						
							
				·			
					-		
Nepoeting 1 5-4	unless otherwise	5	TTLC	3.0	mg/kg		
stated; ND means	not detected above tring limit	w	TTLC	0.00)5 mg/L		
	g		STLC,TCLP	0.2	nig/L		

[&]quot; soil and sludge samples are reported in mg/kg, wipe samples in ug/wipe, and water samples and all STLC/SPLP/TCLP extracts in mg/L. "Lead is analysed using EPA mathod 6010 (ICP) for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples.

4

DISTLC extractions are performed using STLC methodology except that deionized water is substituted for eithe acid buffer as the extraction fluid. DISTLC results are not applicable to STLC regulatory limits.

^{*} EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC - CA l'itle 22
* surrogate diluted out of range; N/A means surrogate not applicable to this analysis

^{*} reporting limit raised due matrix interference

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

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RJ Lee Group, Inc.		
· ·	Client Project ID: #RILEE6176; 6335	Date Sampled: 01/17/2001
530 McConnick Street	San Pablo Ave	
		Date Roceived: 01/18/2001
San Leandro, CA 94577	Client Contact: Ben Schiefelbein	
		Date Extracted: 01/18/2001
	Client P.O:	
Gasoline Range (C6-C12) Vo	death, and	Date Analyzed: 01/19/2001
- (C(D) + 6	MOTUS MYOPARARIANA A. A	

Gasoline I	Range (F.	Cin a	Chant P.C			_ [Date Ana	yzed: 01/1	9/2001
6PA methoda	5010, modici	ed 8015, and	letile Hydra 1 1020 or 602; o	earbons as National RW	Catoline*	, with Me	hyl tert-B	utyl Ether	A BTEX
210 (0)	Client ID	Matrix	TPH(g)*	MTBS	Benzene	Tolucne	Ethyl-	Xylones	% Recover
38161	D)-5.0	2	ND	***	ND	ND	benzone ND	 	Surrogan
58162	D2-5.0	\$	120,5	-	0.38	 		ND	100
18163	D3-8.0	S	1+,0	 		0.51	3.4	8.3	~~*
		1			1.0	1.3	0.41	1.9	115
									
		-							
									 -
									
								-	
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	 -							. }	
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									···
				+		_	 +		
Reporting Limits of the other wife and the other wife and the other wife are other wife are other wife.	ede avia	w	50 ug/[.	5.0	0.5	0.5	0.5	4) 4	
the reporting	ed shows	s	LO mg/kg	0.05	0.005			0.5	
				3. Th	4.005	0.005	0.005	0.005	

^{*} water and vapor samples are reported in ug/L, wips samples in ug/wips, sail and studge samples in mg/kg, and all TCLP and SPLP extrauts in us/L

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Edward Hamilton, Lab Director

DHS Certification No. 1644



s clustered of romatogram; sample peak angletes with surrogate peak

The following descriptions of the TPH chromatogram are cursory in nature and McCumpbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified pasoline as significant, in heavier gasoline range compounds ore significant(aged chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that dues not appear to be derived from gasoline (2); f) one to a few isolated peaks present; g) strongly aged gasoline?; e) TPH pattern that dues not appear to be derived from gasoline (2); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immissible phoen is present; j) liquid sample that contains greater than ~5 vol. % sestiment; j) no recognizable pattern.

water samples are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe and all TCLP / STLC / SPLP extracts in

h) lighter than water immiscible sheen is present; i) liquid sample that compline greater than ~5 vol. % sediment; j) sample diluted due to high

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RJ Lee Group, Inc. 530 McCormick Street		Client	Project ID: #RILE	6176; 6335	Date Sample	:d: 01/17/2001
		San Pa	San Pablo Ave			Date Received: 01/18/2001
San Leandro,	CA 94577	Client	Client Contact: Ben Schiefelbein			ed: 01/18/2001
		Client P.O:			Date Analyz	ed: 01/18/2001
SPA analytical r	methods 6010/200.7, 2	39.2*	Lead*		1	
Lab ID	Client ID	Matrix	Extraction *	Le	ad*	% Recovery
58161	D1-5.0	S	TTLC		la	102
58162	D2-5.0	8	TTLC		41	100
58163	D3-8.0	s	TTLC	6	5.5	102
						
	····					
		1			•	
				 ', , ,		
					-	
						
					······	
				w.A.		
	·					
Reporting Lie	nit unless otherwise	5	TTLC	3.0 v	ng/kg	
fizited; ND mear	ns not detected above corting limit	An.	TTIC	0.00	S mg/L	
	TO A CONTROL OF THE PARTY.	[]	STLC,TCLP	0.2	me/l.	 1

^{*} soil and sludge samples are reported in marke, wipe samples in univipe, and water samples and all STLC / SPLP / TCLP exerces in mg/L "Lead is analysed using EPA method 6010 (ICP) for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water

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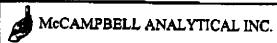
^{*} DISTLC extractions are performed using STLC methodology except that described water is substituted for citric sold buffer as the extraction fluid. DISTLC results are not applicable to STLC regulatory limits.

^{*} EPA extraction methods 1311(TCLF), 3010/3020(water, TTLC), 3040(organic metrices, TTLC), 3050(solids, TTLC); STLC - CA Title 22

surrogate diluted out of range; N/A means sarrogate not applicable to this analysis

reporting limit raised due matrix interference

¹⁾ liquid sample that contains greater than ~2 vol. % sediment; this acdiment is extracted with the liquid, in accordance with EPA methodologies and can significantly effaut resorted metal concentrations.



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RJ Lee Group, Inc.	Client Project ID: #RJLEB6176; 6335	Date Sampled: 01/17/2001	
530 McCormick Street	San Pablo Ave	Date Received; 01/18/2001	
San Leandro, CA 94577	Client Contact: Ben Schiefelbein	Date Extracted: 01/18/2001	
	Client P.O:	Date Analyzed: 01/19-01/22/2001	

Methyl tert-Butyl Ether *

Lab ID	Client ID	Matrix	MTBE"	% Recovery Swrogato
58161	D1-5.0	S	ND	93
58162	D2-5.0	S	מא	82
58163	D3-8.0	S	ND	89
-				
Reporting Limit unless otherwise stated: ND means not detected above the reporting limit		w	1.0 ug/L	
		S	5.0 ug/kg	

water samples are reported to ug/L, toil and studge samples in ug/kg, wips samples in ug/wipe and all TCLP / STLC / SPLP extracts in

DHS Certification No. 1644



h) lighter than water immiscible shoen is present; i) liquid sample that contains greater than -5 vol. % sudiment; j) sample diluted due to high organic content.