

July 31, 2008

RECEIVED

2:28 pm, Jul 31, 2008

Alameda County
Environmental Health

**PHASE II LIMITED SUBSURFACE
INVESTIGATION REPORT**

414 Beverly Street
Livermore, CA 94550

AEI Project No. 279491

Prepared for

Alajandro Alamilla
414 Beverly Street
Livermore, CA 94550

Prepared By:

AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597
(925) 283-6000

AEI



2500 Camino Diablo, Walnut Creek, CA 94597
tel 800-801-3224
fax 925-944-2895

ENVIRONMENTAL & ENGINEERING SERVICES

www.aeiconsultants.com

July 31, 2008

Mr. Alejandro Alamilla
414 Beverly Street
Livermore, CA 94550

**Subject: Phase II Limited Subsurface Investigation Report
SLIC # RO0002972
414 Beverly Street
Livermore, CA 94550**

Dear Mr. Alamilla:

This report describes the activities and results of a Phase II Limited Subsurface Investigation performed by AEI Consultants at the above referenced property (Figure 1: Site Location Map). This investigation was required by Alameda County Environmental Health (ACEH) to assess a suspected surface spill of paint removal solvents identified in a prior investigation by the Livermore-Pleasanton Fire Department (LPFD).

I Background

The subject property (hereinafter referred to as the “site” or “property”) is located in a residential neighborhood of Livermore, California. The property totals approximately 0.25 acre and is improved with a multi-story residence totaling approximately 2,867 square feet. In addition, the site is improved with a concrete driveway and landscaping in the front, rear, and sides of the property. Mr. Alejandro Alamilla is currently the owner of the property.

On October 25, 2007 the Livermore-Pleasanton Fire Department (LPFD) received a complaint from an adjacent neighbor to the site. The neighbor reported witnessing Mr. Alamilla washing his hands with paint removal solvents over soil within a landscaped parcel located along the southern edge of his property.

On October 26, 2007 the LPFD responded to the call and visited the site to assess possible damages. The LPFD reported detecting a chemical solvent odor in the same location the neighbor had witnessed the surface spill. The LPFD collected one surface soil sample from the area where the odor was detected and analyzed it for volatile organic compounds (VOCs) and petroleum hydrocarbons.

The sample collected by the LPFD detected several VOCs, diesel, and mineral spirit petroleum hydrocarbons. Analytical data is summarized in Table 1 and presented in Appendix B.

On May 16, 2008 the case was declared a Spills, Leaks, Investigations, and Cleanup (SLIC # RO0002972) case and transferred over to the control of the ACEH. The ACEH issued Mr. Alamilla requirements for assessment and removal of the affected soil area. AEI was retained by Mr. Alamilla to fulfill the requirements requested by the ACEH.

The remainder of this report describes the methods and results from the limited subsurface investigation conducted by AEI at the site to assess the suspected spill of paint removal chemicals.

II Investigative Efforts

Prior to mobilization onsite, AEI visited the property to obtain measurements and photographic information, particularly regarding the area where the LPFD had previously collected a soil sample. In addition, AEI prepared and submitted a work plan dated June 11, 2008 to the ACEH. The submitted work plan proposed advancing shallow borings for soil sample collection and screening with a photo-ionizing detector (PID) and laboratory analysis to define the extent of soil contamination, followed with the excavation of the contaminated soil area. The work plan was approved by Mr. Wickham of the ACEH in a letter dated June 17, 2008.

Drilling and Soil Sample Collection

A total of six (6) soil borings were advanced on July 1, 2008. Mr. Wickham of the ACEH was on site at the time of sampling. Two (2) borings (SB-1 and SB-3) were advanced at the approximate location of the soil sample collected by the LPFD on October 26, 2007 to approximately four and a half (4.5) foot borings (bgs). The remaining four (4) borings (SB-2, SB-4, SB-5 and SB-6) were advanced to approximately two (2) foot bgs depths at approximately twelve (12) inch, eighteen (18) inch and 24 inch lateral distances east and west of SB-3 and SB-1. Soil boring locations are presented in Figure 2.

The borings were advanced by hand auger method. Soil samples were collected at one (1) foot intervals via slide hammer method into new three-inch brass soil tubes and screened in the field with a photo-ionizing detector (PID). No elevated PID readings were noted during sample collection from any of the soil borings. Selected soil samples were sealed with Teflon tape and plastic caps, labeled with a unique identifier, placed in a cooler with wet ice, and entered onto a chain of custody prior to transportation to the laboratory.

All drilling equipment was cleaned of excess dirt and moisture in between boring locations to minimize the potential of cross-contamination.

Backfilling

Upon completion of sampling and measurement activities, each boring was backfilled with on-site excavated soil to the existing grade.

Laboratory Analysis

On July 1, 2008 all soil samples were transported to McCampbell Analytical Inc. (Department of Health Services Certification #1644) under chain of custody protocol for analysis. Analytical results and chain of custody documents are included as Appendix A.

Five (5) soil samples were analyzed for VOCs by EPA method 8260B, TPH as gas, (TPH-g), TPH as mineral spirits (TPH-ms), and TPH as diesel (TPH-d) by EPA method 8015. All remaining soil samples were placed on hold.

III Findings

The near surface soil encountered during boring advancement consisted primarily of cobbles and moist mulch used for residential landscaping décor. At approximately one (1) foot bgs, a brown layer of moist sand was encountered. At approximately one and a half (1.5) foot bgs, a moist dark loamy sand was encountered. At approximately four (4) foot bgs, a soft moist sandy loam was encountered. At approximately four and a half (4.5) foot bgs, a layer of gravels approximately six (4) to six (6) inches in size was encountered. Due to the presence of large gravels, refusal was encountered at four and a half feet (4.5).

Soil

No VOCs were detected within laboratory reporting limits in any of the soil samples collected. No TPH-g, TPH-ms, or TPH-d was detected at or above laboratory reporting limits in any of the soil samples collected.

Soil sample analytical data is summarized in Table 1.

IV Summary and Conclusions

The purpose of this investigation was to assess the extent of a suspected surface spill of paint removal solvent identified by the LPFD in a prior investigation.

During soil sampling, no field indication of impact, including visual or olfactory observations or PID measurements, was observed. Sample analysis also did not detect any petroleum hydrocarbons or VOCs in the reported spill area.

Based on these findings there is not an impact to shallow soil remaining in this area. Although excavation has been planned to remove impacted soil, this does not appear necessary.


V Report Limitation

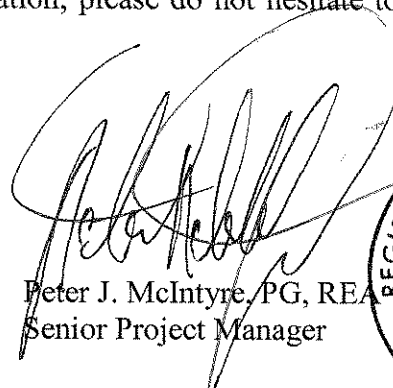
This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples were chosen to provide the requested information, but it cannot be assumed that they are representative of areas not sampled. All conclusions and/or recommendations are based on these analyses and observations. Conclusions beyond those stated and reported herein should not be inferred from this document.

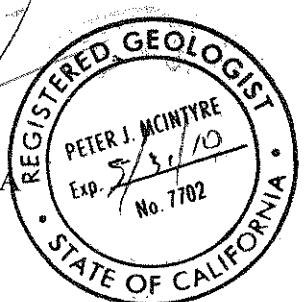
These services were performed in accordance with generally accepted practices, in the environmental engineering and construction field, which existed at the time and location of the work.

If you have any questions regarding our investigation, please do not hesitate to contact either of the undersigned at (925) 283-6000.

Sincerely,
AEI Consultants


Russell Bartlett
Staff Scientist


Peter J. McIntyre, PG, REA
Senior Project Manager



Figures

Figure 1: Site Map

Figure 2: Site Plan

Tables

Table 1: Soil Sample Analytical Data

Appendicies

Appendix A: Laboratory Analytical Documentation (7/1/08)

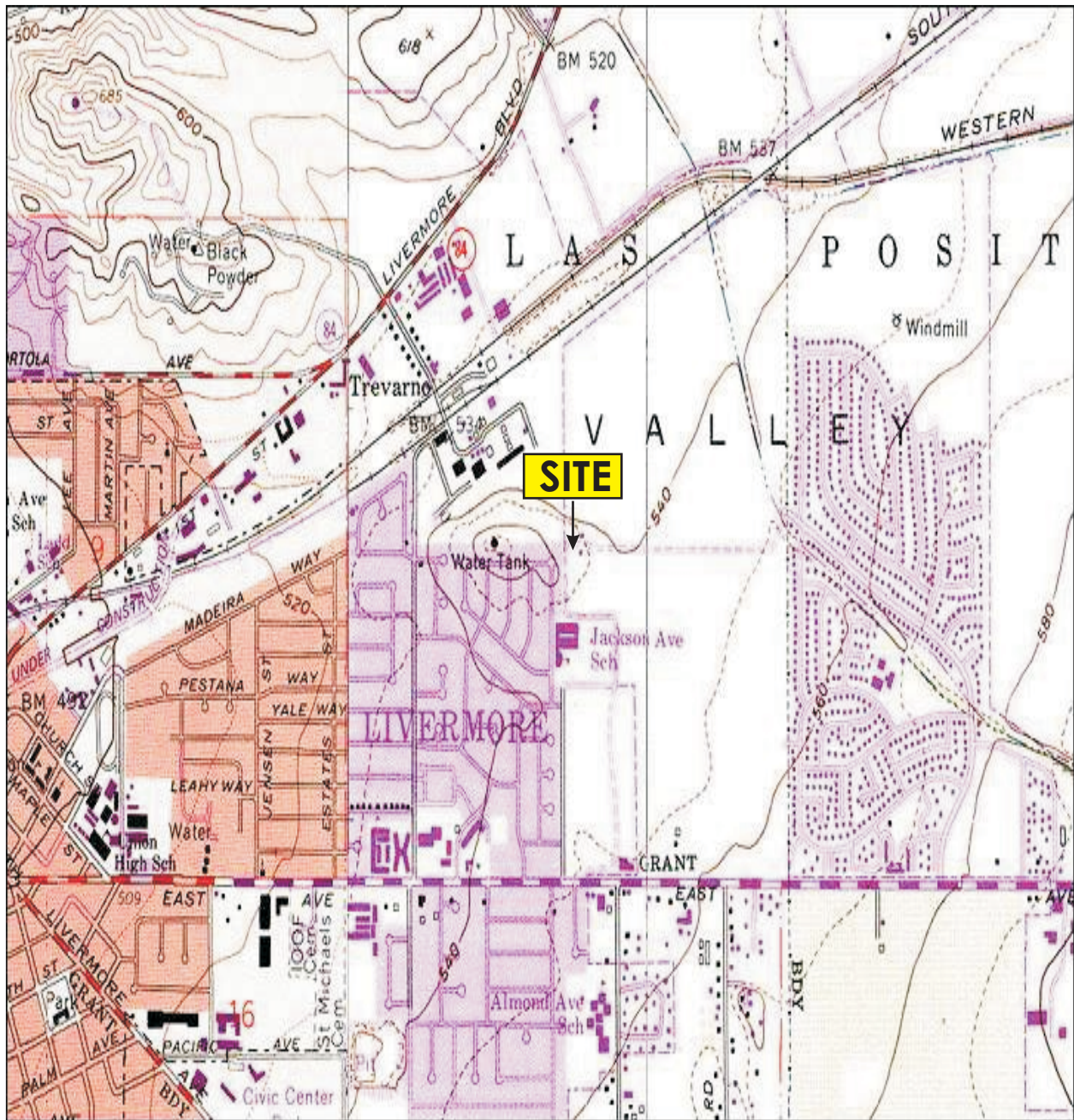
Appendix B: Laboratory Analytical Documentation (10/26/07)

Distribution:

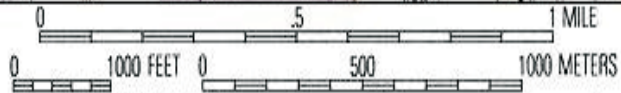
Alejandro Alamilla
414 Beverly Street
Livermore, CA 94550

Mr. Jerry Wickham
Senior Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

FIGURES



TN
MN
15°



Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)



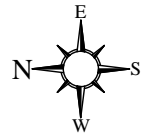
USGS TOPOGRAPHIC MAP
Livermore QUADRANGLE
Created 1995, Revised 1995

AEI CONSULTANTS
2500 Camino Diablo, Suite 200, Walnut Creek, CA 94597

SITE LOCATION MAP

414 Beverly Street
Livermore, CA

FIGURE # 1
Job No: 279491



414 Beverly Street
Residence

Side Yard

Front Lawn of
416 Beverly Street
Residence

Front Lawn

(Location of LPFD sample
collected on 10/26/08)

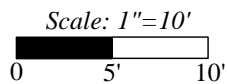
- ⊕ SB-6
- ⊕ SB-4
- ⊕ SB-3
- ⊕ SB-1
- ⊕ SB-2
- ⊕ SB-5

Concrete Driveway

Landscaping

Sidewalk

Beverly Street



LEGEND

⊕ Boring (7/1/2008)

— Fence

AEI CONSULTANTS
2500 CAMINO DIABLO, SUITE 200, WALNUT CREEK

SITE PLAN

414 Beverly Street
Livermore, CA 94550

FIGURE # 2
PROJECT NO. 279491

TABLES

Table 1
Soil Sample Analytical Data
414 Beverly Street, Livermore, CA

Sample ID	Sample Date	TPH-g	TPH-d	TPH-ms	Xylenes	Other VOCs
		mg/kg	mg/kg (EPA Method 8015)	mg/kg	mg/kg (EPA Method 8260)	mg/kg
SB-LPFD	10/26/07	-	2,900	4,200	6.6	(See Below)
SB-1-4.5'	6/23/08	<1.0	<1.0	<1.0	ND	ND
SB-2-2'	6/23/08	<1.0	<1.0	<1.0	ND	ND
SB-3-1'	6/23/08	<1.0	<1.0	<1.0	ND	ND
SB-3-4.5'	6/23/08	<1.0	<1.0	<1.0	ND	ND
SB-4-2'	6/23/08	<1.0	<1.0	<1.0	ND	ND
RL	-	1.0	1.0	1.0	1.9/ 0.005	Various

TPH-g = total petroleum hydrocarbons as gasoline

TPH-d = total petroleum hydrocarbons as diesel

TPH-ms = total petroleum hydrocarbons as mineral spirits

VOC= volatile organic compounds

LPFD= Livermore-Pleasanton Fire Department

ND= non detect at or above laboratory reporting limits

Soil values reported in milligrams per kilogram (mg/Kg)

RL = laboratory reporting limit

SB=soil boring

1.9/ 0.005= RL for SB-LPFD sample =1.9; RL for all remaining SB samples= 0.005

n-Butylbenzene detected in SB-LPFD at 8.2 mg/Kg

sec-Butylbenzene detected in SB-LPFD at 2.7 mg/Kg

4-Isopropyltoluene detected in SB-LPFD at 2.8 mg/Kg

N-Propylbenzene detected in SB-LPFD at 1.8 mg/Kg

1,2,4-Trimethylbenzene detected in SB-LPFD at 17 mg/Kg

1,3,5-Trimethylbenzene detected in SB-LPFD at 5.9 mg/KG

APPENDIX A
Laboratory Analytical data
(7/01/08)



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #279491; A.Alamilla, 414 Beverly Street, Livermore	Date Sampled: 07/01/08
		Date Received: 07/01/08
	Client Contact: Russ Bartlett	Date Reported: 07/09/08
	Client P.O.:	Date Completed: 07/08/08

WorkOrder: 0807036

July 09, 2008

Dear Russ:

Enclosed within are:

- 1) The results of the **5** analyzed samples from your project: **#279491; A.Alamilla, 414 Beverly St**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

0807036

McCAMPBELL ANALYTICAL INC.

1534 Willow Pass Road
Pittsburg, CA 94565

Telephone: (925) 252-9262

Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

EDF Required? Yes No

Report To: Russell Bartlett **Bill To:** SAME
Company: AEI Consultant
 2500 Camino Diablo, Suite 200
 Walnut Creek, CA 94597 **E-Mail:** rbartlett@aeiconsultants.com
Tele: (925) 944-2899 **Fax:** (925) 944-2895
Project #: 279491 **Project:** A. Alamilla
Project Location: 414 Beverly Street, Livermore, CA
Sampler Signature: *[Signature]*

Analysis Request

Other

Comments

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED							
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other				
SB-1-4.5'		7/1	12:30	1		X					X							
SB-2-2'		7/1	11:15	1		X					X							
SB-3-1'		7/1	10:07	1		X					X							
SB-3-4.5'		7/1	12:30	1		X					X							
SB-4-2'		7/1	11:50	1		X					X							
SB-1-3		7/1	10:25			X					X							HOLD
SB-3-B		7/1	11:00			X					X							HOLD
SB-1-2		7/1	10:15			X					X							HOLD
SB-3-1		7/1	10:07			X					X							HOLD
SB-4-1		7/1	11:30			X					X							HOLD
SB-1-1		7/1	10:15			X					X							HOLD

VOCs (8260B)	TPH as gas, mineral spirits, diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	HVOCs EPA 8260 & 8015	BTEX ONLY (EPA 602 / 8020)	MTBE only	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8260	EPA 625 / 8270 - SVOCs	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals 6010 & 8015	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI
--------------	--	---	--------------------------------------	-----------------------	----------------------------	-----------	---------------------------	----------------	------------------------	--	---------------------------	---------------	-----------------------------	-----

Relinquished By: *[Signature]* Date: 7/1 Time: 14:20 Received By: *[Signature]*
 Relinquished By: *[Signature]* Date: 7/1/08 Time: 13:30 Received By: ENVIRO-TECH SERVICES AA.
 Relinquished By: *[Signature]* Date: 7/1/08 Time: 3:55 Received By: *[Signature]*

ICE/T° 3-4
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 PRESERVATION _____
 APPROPRIATE CONTAINERS _____
 PERSERVED IN LAB _____
 VOAS O&G METALS OTHER

[Handwritten notes and signatures at the bottom of the page]

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0807036

ClientCode: AEL

WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:	Russ Bartlett AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597 (925) 944-2899 FAX (925) 944-2895	Email: rbartlett@aeiconsultants.com	Bill to: Denise Mockel AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597 dmockel@aeiconsultants.com	Requested TAT: 5 days Date Received: 07/01/2008 Date Printed: 07/01/2008
	ProjectNo: #279491; A.Alamilla, 414 Beverly Street, Livermore			

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0807036-001	SB-1-4.5'	Soil	7/1/2008 12:30	<input type="checkbox"/>	A	A										
0807036-002	SB-2-2'	Soil	7/1/2008 11:15	<input type="checkbox"/>	A	A										
0807036-003	SB-3-1'	Soil	7/1/2008 10:07	<input type="checkbox"/>	A	A										
0807036-004	SB-3-4.5'	Soil	7/1/2008 12:37	<input type="checkbox"/>	A	A										
0807036-005	SB-4.2'	Soil	7/1/2008 11:50	<input type="checkbox"/>	A	A										

Test Legend:

1	8260B_S	2	G-MBTEx_S	3		4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A contain testgroup.

Prepared by: Ana Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
 Hazardous samples will be returned to client or disposed of at client expense.



Sample Receipt Checklist

Client Name: **AEI Consultants** Date and Time Received: **7/1/08 8:04:24 PM**
Project Name: **#279491; A.Alamilla, 414 Beverly Street, Livermor** Checklist completed and reviewed by: **Ana Venegas**
WorkOrder N°: **0807036** Matrix Soil Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present? Yes No
Chain of custody signed when relinquished and received? Yes No
Chain of custody agrees with sample labels? Yes No
Sample IDs noted by Client on COC? Yes No
Date and Time of collection noted by Client on COC? Yes No
Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
Shipping container/cooler in good condition? Yes No
Samples in proper containers/bottles? Yes No
Sample containers intact? Yes No
Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
Container/Temp Blank temperature Cooler Temp: 3.6°C NA
Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
Sample labels checked for correct preservation? Yes No
TTLC Metal - pH acceptable upon receipt (pH<2)? Yes No NA

* NOTE: If the "No" box is checked, see comments below.

Client contacted: Date contacted: Contacted by:

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #279491; A.Alamilla, 414 Beverly Street, Livermore	Date Sampled: 07/01/08
	Client Contact: Russ Bartlett	Date Received: 07/01/08
	Client P.O.:	Date Extracted: 07/01/08
		Date Analyzed 07/08/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0807036

Lab ID	0807036-001A
Client ID	SB-1-4.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	100	%SS2:	105
%SS3:	110		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #279491; A.Alamilla, 414 Beverly Street, Livermore	Date Sampled: 07/01/08
	Client Contact: Russ Bartlett	Date Received: 07/01/08
	Client P.O.:	Date Extracted: 07/01/08
		Date Analyzed 07/08/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0807036

Lab ID	0807036-002A
Client ID	SB-2-2'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	99	%SS2:	104
%SS3:	110		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #279491; A.Alamilla, 414 Beverly Street, Livermore	Date Sampled: 07/01/08
	Client Contact: Russ Bartlett	Date Received: 07/01/08
	Client P.O.:	Date Extracted: 07/01/08
		Date Analyzed 07/08/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0807036

Lab ID	0807036-003A
Client ID	SB-3-1'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	100	%SS2:	104
%SS3:	109		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #279491; A.Alamilla, 414 Beverly Street, Livermore	Date Sampled: 07/01/08
	Client Contact: Russ Bartlett	Date Received: 07/01/08
	Client P.O.:	Date Extracted: 07/01/08
		Date Analyzed 07/08/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0807036

Lab ID	0807036-004A
Client ID	SB-3-4.5'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	100	%SS2:	104
%SS3:	111		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #279491; A.Alamilla, 414 Beverly Street, Livermore	Date Sampled: 07/01/08
	Client Contact: Russ Bartlett	Date Received: 07/01/08
	Client P.O.:	Date Extracted: 07/01/08
		Date Analyzed 07/03/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0807036

Lab ID	0807036-005A
Client ID	SB-4.2'
Matrix	Soil

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	ND	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	Chloroform	ND	1.0	0.005
Chloromethane	ND	1.0	0.005	2-Chlorotoluene	ND	1.0	0.005
4-Chlorotoluene	ND	1.0	0.005	Dibromochloromethane	ND	1.0	0.005
1,2-Dibromo-3-chloropropane	ND	1.0	0.004	1,2-Dibromoethane (EDB)	ND	1.0	0.004
Dibromomethane	ND	1.0	0.005	1,2-Dichlorobenzene	ND	1.0	0.005
1,3-Dichlorobenzene	ND	1.0	0.005	1,4-Dichlorobenzene	ND	1.0	0.005
Dichlorodifluoromethane	ND	1.0	0.005	1,1-Dichloroethane	ND	1.0	0.005
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004	1,1-Dichloroethene	ND	1.0	0.005
cis-1,2-Dichloroethene	ND	1.0	0.005	trans-1,2-Dichloroethene	ND	1.0	0.005
1,2-Dichloropropane	ND	1.0	0.005	1,3-Dichloropropane	ND	1.0	0.005
2,2-Dichloropropane	ND	1.0	0.005	1,1-Dichloropropene	ND	1.0	0.005
cis-1,3-Dichloropropene	ND	1.0	0.005	trans-1,3-Dichloropropene	ND	1.0	0.005
Diisopropyl ether (DIPE)	ND	1.0	0.005	Ethylbenzene	ND	1.0	0.005
Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005	Freon 113	ND	1.0	0.1
Hexachlorobutadiene	ND	1.0	0.005	Hexachloroethane	ND	1.0	0.005
2-Hexanone	ND	1.0	0.005	Isopropylbenzene	ND	1.0	0.005
4-Isopropyl toluene	ND	1.0	0.005	Methyl-t-butyl ether (MTBE)	ND	1.0	0.005
Methylene chloride	ND	1.0	0.005	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005
Naphthalene	ND	1.0	0.005	n-Propyl benzene	ND	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,1,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	ND	1.0	0.005	1,3,5-Trimethylbenzene	ND	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	ND	1.0	0.005

Surrogate Recoveries (%)

%SS1:	95	%SS2:	106
%SS3:	111		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #279491; A.Alamilla, 414 Beverly Street, Livermore	Date Sampled: 07/01/08
	Client Contact: Russ Bartlett	Date Received: 07/01/08
	Client P.O.:	Date Analyzed: 07/02/08-07/03/08

Gasoline (C6-C12) & Mineral Spirits (C9-C12) Range Volatile Hydrocarbons as Gasoline & Mineral spirits*

Extraction method: SW5030B

Analytical methods: SW8015Cm

Work Order: 0807036

Lab ID	Client ID	Matrix	TPH(g)	TPH(mineral spirits)	DF	% SS
0807036-001A	SB-1-4.5'	S	ND	ND	1	76
0807036-002A	SB-2-2'	S	ND	ND	1	74
0807036-003A	SB-3-1'	S	ND	ND	1	77
0807036-004A	SB-3-4.5'	S	ND	ND	1	75
0807036-005A	SB-4.2'	S	ND	ND	1	76

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	1.0	1.0	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

AEI Consultants 2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597	Client Project ID: #279491; A.Alamilla, 414 Beverly Street, Livermore	Date Sampled: 07/01/08
	Client Contact: Russ Bartlett	Date Received: 07/01/08
	Client P.O.:	Date Analyzed: 07/03/08-07/04/08
		Date Extracted: 07/01/08

Total Extractable Petroleum Hydrocarbons*

Extraction method SW3550C

Analytical methods: SW8015C

Work Order: 0807036

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS
0807036-001A	SB-1-4.5'	S	ND	1	106
0807036-002A	SB-2-2'	S	ND	1	85
0807036-003A	SB-3-1'	S	ND	1	115
0807036-004A	SB-3-4.5'	S	ND	1	85
0807036-005A	SB-4.2'	S	ND	1	83

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0807036

EPA Method SW8260B	Extraction SW5030B			BatchID: 36605			Spiked Sample ID: 0807036-005A						
	Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
		mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	97.4	98.5	1.14	108	108	0	60 - 130	30	60 - 130	30	
Benzene	ND	0.050	100	101	1.35	108	109	0.566	60 - 130	30	60 - 130	30	
t-Butyl alcohol (TBA)	ND	0.25	81	83.5	3.09	109	110	0.657	60 - 130	30	60 - 130	30	
Chlorobenzene	ND	0.050	98.7	101	2.47	109	110	0.806	60 - 130	30	60 - 130	30	
1,2-Dibromoethane (EDB)	ND	0.050	99.6	101	1.43	116	119	2.67	60 - 130	30	60 - 130	30	
1,2-Dichloroethane (1,2-DCA)	ND	0.050	99	99.8	0.813	127	129	1.81	60 - 130	30	60 - 130	30	
Diisopropyl ether (DIPE)	ND	0.050	102	102	0	98.4	99.5	1.09	60 - 130	30	60 - 130	30	
Ethyl tert-butyl ether (ETBE)	ND	0.050	98.7	99.2	0.495	123	123	0	60 - 130	30	60 - 130	30	
Methyl-t-butyl ether (MTBE)	ND	0.050	97.5	98.9	1.44	122	124	1.19	60 - 130	30	60 - 130	30	
Toluene	ND	0.050	97	98.3	1.30	110	110	0	60 - 130	30	60 - 130	30	
Trichloroethene	ND	0.050	101	102	1.28	128	129	0.0527	60 - 130	30	60 - 130	30	
%SS1:	95	0.12	91	90	1.05	102	104	2.04	70 - 130	30	70 - 130	30	
%SS2:	106	0.12	97	98	0.651	101	102	1.16	70 - 130	30	70 - 130	30	
%SS3:	111	0.12	97	96	0.711	89	90	2.03	70 - 130	30	70 - 130	30	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 36605 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0807036-001A	07/01/08 12:30 PM	07/01/08	07/08/08 2:55 AM	0807036-002A	07/01/08 11:15 AM	07/01/08	07/08/08 3:33 AM
0807036-003A	07/01/08 10:07 AM	07/01/08	07/08/08 4:12 AM	0807036-004A	07/01/08 12:37 PM	07/01/08	07/08/08 4:50 AM
0807036-005A	07/01/08 11:50 AM	07/01/08	07/03/08 2:27 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0807036

EPA Method SW8021B/8015Cm		Extraction SW5030B			BatchID: 36658			Spiked Sample ID: 0806819-005A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	0.60	90.9	88.4	2.73	110	111	1.25	70 - 130	20	70 - 130	20
MTBE	ND	0.10	93.1	91.8	1.41	81.1	91.3	11.9	70 - 130	20	70 - 130	20
Benzene	ND	0.10	80.1	79.6	0.581	93	96.2	3.38	70 - 130	20	70 - 130	20
Toluene	ND	0.10	77.8	77.7	0.129	91	92.2	1.37	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	82.8	82.9	0.0717	101	103	1.98	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	92	91.6	0.412	101	101	0	70 - 130	20	70 - 130	20
%SS:	104	0.10	91	90	1.02	91	93	2.02	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 36658 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0807036-001A	07/01/08 12:30 PM	07/01/08	07/03/08 1:03 AM	0807036-002A	07/01/08 11:15 AM	07/01/08	07/02/08 7:32 PM
0807036-003A	07/01/08 10:07 AM	07/01/08	07/02/08 8:03 PM	0807036-004A	07/01/08 12:37 PM	07/01/08	07/02/08 8:33 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0807036

EPA Method SW8021B/8015Cm		Extraction SW5030B			BatchID: 36677			Spiked Sample ID: 0807036-005A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	0.60	93.7	96.3	2.74	96.4	97.6	1.29	70 - 130	20	70 - 130	20
MTBE	ND	0.10	99.4	88.9	11.1	95.9	96.3	0.475	70 - 130	20	70 - 130	20
Benzene	ND	0.10	88.8	83.7	5.93	84	87.4	3.93	70 - 130	20	70 - 130	20
Toluene	ND	0.10	78.6	74.8	5.00	82.3	85.4	3.69	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	90.6	83.8	7.85	87.7	91.1	3.82	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	88.9	82.5	7.48	97.5	101	3.32	70 - 130	20	70 - 130	20
%SS:	76	0.10	81	83	1.89	81	86	6.05	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 36677 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0807036-005A	07/01/08 11:50 AM	07/01/08	07/02/08 9:03 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0807036

EPA Method SW8015C		Extraction SW3550C			BatchID: 36676			Spiked Sample ID: 0807036-005A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	ND	20	112	113	0.741	111	110	0.723	70 - 130	30	70 - 130	30
%SS:	83	50	108	109	0.490	108	107	0.889	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 36676 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0807036-001A	07/01/08 12:30 PM	07/01/08	07/04/08 11:17 AM	0807036-002A	07/01/08 11:15 AM	07/01/08	07/03/08 10:38 PM
0807036-003A	07/01/08 10:07 AM	07/01/08	07/03/08 8:24 PM	0807036-004A	07/01/08 12:37 PM	07/01/08	07/03/08 11:45 PM
0807036-005A	07/01/08 11:50 AM	07/01/08	07/04/08 12:51 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

APPENDIX B
Laboratory Analytical Data
(10/26/07)

ANALYTICAL REPORT

Job Number: 720-11530-1

Job Description: 414/448 Beverly

For:

Livermore-Pleasanton Fire Department

3560 Nevada Street

Pleasanton, CA 94566

Attention: Mr. John Rigter

RECEIVED

NOV 16 2007

FIRE PREVENTION

Surinder Sidhu

Surinder Sidhu

Customer Service Manager

surinder.sidhu@testamericainc.com

11/14/2007

Job Narrative
720-J11530-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC Semi VOA

Method(s) 8015B: Due to the high concentration of target analytes, the matrix spike / matrix spike duplicate (MS/MSD) for batch 28149 and 28150 could not be evaluated. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Livermore-Pleasanton Fire Department

Job Number: 720-11530-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-11530-1	102607-01				
n-Butylbenzene		8200	970	ug/Kg	8260B
sec-Butylbenzene		2700	970	ug/Kg	8260B
4-Isopropyltoluene		2800	970	ug/Kg	8260B
N-Propylbenzene		1800	970	ug/Kg	8260B
1,2,4-Trimethylbenzene		17000	970	ug/Kg	8260B
1,3,5-Trimethylbenzene		5900	970	ug/Kg	8260B
Xylenes, Total		6600	1900	ug/Kg	8260B
Diesel Range Organics [C10-C28]		2900	50	mg/Kg	8015B
Mineral Spirit Range Organics [C9-C13]		4200	50	mg/Kg	8015B

METHOD SUMMARY

Client: Livermore-Pleasanton Fire Department

Job Number: 720-11530-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS (Low Level)	TAL SF	SW846 8260B	
Purge and Trap for Methanol Extractions	TAL SF		SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	TAL SF	SW846 8015B	
Ultrasonic Extraction	TAL SF		SW846 3550B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: Livermore-Pleasanton Fire Department

Job Number: 720-11530-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-11530-1	102607-01	Solid	10/26/2007 1150	10/30/2007 1508

Analytical Data

Client: Livermore-Pleasanton Fire Department

Job Number: 720-11530-1

Client Sample ID: 102607-01

Lab Sample ID: 720-11530-1

Date Sampled: 10/26/2007 1150

Client Matrix: Solid

Date Received: 10/30/2007 1508

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-28180	Instrument ID: Varian 3900G
Preparation:	5030B-Medium	Prep Batch: 720-28157	Lab File ID: c:\saturnws\data\200711\11
Dilution:	200		Initial Weight/Volume: 5.16 g
Date Analyzed:	11/02/2007 1911		Final Weight/Volume: 10 mL
Date Prepared:	11/02/2007 1300		

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		970
Acetone		ND		9700
Benzene		ND		970
Dichlorobromomethane		ND		970
Bromobenzene		ND		970
Chlorobromomethane		ND		3900
Bromoform		ND		970
Bromomethane		ND		1900
2-Butanone (MEK)		ND		9700
n-Butylbenzene		8200		970
sec-Butylbenzene		2700		970
tert-Butylbenzene		ND		970
Carbon disulfide		ND		970
Carbon tetrachloride		ND		970
Chlorobenzene		ND		970
Chloroethane		ND		1900
Chloroform		ND		970
Chloromethane		ND		1900
2-Chlorotoluene		ND		970
4-Chlorotoluene		ND		970
Chlorodibromomethane		ND		970
1,2-Dichlorobenzene		ND		970
1,3-Dichlorobenzene		ND		970
1,4-Dichlorobenzene		ND		970
1,3-Dichloropropane		ND		970
1,1-Dichloropropene		ND		970
1,2-Dibromo-3-Chloropropane		ND		9700
Ethylene Dibromide		ND		970
Dibromomethane		ND		1900
Dichlorodifluoromethane		ND		1900
1,1-Dichloroethane		ND		970
1,2-Dichloroethane		ND		970
1,1-Dichloroethene		ND		970
cis-1,2-Dichloroethene		ND		970
trans-1,2-Dichloroethene		ND		970
1,2-Dichloropropane		ND		970
cis-1,3-Dichloropropene		ND		970
trans-1,3-Dichloropropene		ND		970
Ethylbenzene		ND		970
Hexachlorobutadiene		ND		970
2-Hexanone		ND		9700
Isopropylbenzene		ND		970
4-Isopropyltoluene		2800		970
Methylene Chloride		ND		1900

Analytical Data

Client: Livermore-Pleasanton Fire Department

Job Number: 720-11530-1

Client Sample ID: 102607-01

Lab Sample ID: 720-11530-1

Date Sampled: 10/26/2007 1150

Client Matrix: Solid

Date Received: 10/30/2007 1508

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-28180	Instrument ID: Varian 3900G
Preparation:	5030B-Medium	Prep Batch: 720-28157	Lab File ID: c:\saturnws\data\200711\11
Dilution:	200		Initial Weight/Volume: 5.16 g
Date Analyzed:	11/02/2007 1911		Final Weight/Volume: 10 mL
Date Prepared:	11/02/2007 1300		

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		9700
Naphthalene		ND		1900
N-Propylbenzene		1800		970
Styrene		ND		970
1,1,1,2-Tetrachloroethane		ND		970
1,1,2,2-Tetrachloroethane		ND		970
Tetrachloroethene		ND		970
Toluene		ND		970
1,2,3-Trichlorobenzene		ND		970
1,2,4-Trichlorobenzene		ND		970
1,1,1-Trichloroethane		ND		970
1,1,2-Trichloroethane		ND		970
Trichloroethene		ND		970
Trichlorofluoromethane		ND		970
1,2,3-Trichloropropane		ND		970
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		970
1,2,4-Trimethylbenzene		17000		970
1,3,5-Trimethylbenzene		5900		970
Vinyl acetate		ND		9700
Vinyl chloride		ND		970
Xylenes, Total		6600		1900
2,2-Dichloropropane		ND		970
Surrogate		%Rec	Acceptance Limits	
4-Bromofluorobenzene		71	60 - 140	
1,2-Dichloroethane-d4 (Surr)		95	60 - 140	
Toluene-d8 (Surr)		97	70 - 130	

Analytical Data

Client: Livermore-Pleasanton Fire Department

Job Number: 720-11530-1

Client Sample ID: 102607-01

Lab Sample ID: 720-11530-1

Date Sampled: 10/26/2007 1150

Client Matrix: Solid

Date Received: 10/30/2007 1508

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)

Method:	8015B	Analysis Batch: 720-28150	Instrument ID:	HP DRO5
Preparation:	3550B	Prep Batch: 720-28083	Lab File ID:	N/A
Dilution:	50		Initial Weight/Volume:	30.21 g
Date Analyzed:	11/05/2007 1225		Final Weight/Volume:	5 mL
Date Prepared:	11/01/2007 0913		Injection Volume:	
			Column ID:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		2900		50
Motor Oil Range Organics [C24-C36]		ND		2500
Mineral Spirit Range Organics [C9-C13]		4200		50

Surrogate	%Rec		Acceptance Limits
p-Terphenyl	0	D	40 - 119

DATA REPORTING QUALIFIERS

Client: Livermore-Pleasanton Fire Department

Job Number: 720-11530-1

<u>Lab Section</u>	<u>Qualifier</u>	<u>Description</u>
GC Semi VOA	D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.

Quality Control Results

Client: Livermore-Pleasanton Fire Department

Job Number: 720-11530-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 720-28157					
LCS 720-28157/1-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-28157/2-A	Lab Control Spike Duplicate	T	Solid	5030B	
MB 720-28157/3-A	Method Blank	T	Solid	5030B	
720-11530-1	102607-01	T	Solid	5030B	
Analysis Batch:720-28180					
LCS 720-28157/1-A	Lab Control Spike	T	Solid	8260B	720-28157
LCSD 720-28157/2-A	Lab Control Spike Duplicate	T	Solid	8260B	720-28157
MB 720-28157/3-A	Method Blank	T	Solid	8260B	720-28157
720-11530-1	102607-01	T	Solid	8260B	720-28157

Report Basis

T = Total

GC Semi VOA

Prep Batch: 720-28083					
LCS 720-28083/2-A	Lab Control Spike	T	Solid	3550B	
LCSD 720-28083/3-A	Lab Control Spike Duplicate	T	Solid	3550B	
MB 720-28083/1-A	Method Blank	T	Solid	3550B	
720-11530-1	102607-01	T	Solid	3550B	
Analysis Batch:720-28149					
LCS 720-28083/2-A	Lab Control Spike	T	Solid	8015B	720-28083
LCSD 720-28083/3-A	Lab Control Spike Duplicate	T	Solid	8015B	720-28083
MB 720-28083/1-A	Method Blank	T	Solid	8015B	720-28083
Analysis Batch:720-28150					
720-11530-1	102607-01	T	Solid	8015B	720-28083

Report Basis

T = Total

Quality Control Results

Client: Livermore-Pleasanton Fire Department

Job Number: 720-11530-1

Method Blank - Batch: 720-28157

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-28157/3-A
Client Matrix: Solid
Dilution: 200
Date Analyzed: 11/02/2007 1551
Date Prepared: 11/02/2007 1300

Analysis Batch: 720-28180
Prep Batch: 720-28157
Units: ug/Kg

Instrument ID: Varian 3900G
Lab File ID: c:\saturnews\data\200711\11
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		1000
Acetone	ND		10000
Benzene	ND		1000
Dichlorobromomethane	ND		1000
Bromobenzene	ND		1000
Chlorobromomethane	ND		4000
Bromoform	ND		1000
Bromomethane	ND		2000
2-Butanone (MEK)	ND		10000
n-Butylbenzene	ND		1000
sec-Butylbenzene	ND		1000
tert-Butylbenzene	ND		1000
Carbon disulfide	ND		1000
Carbon tetrachloride	ND		1000
Chlorobenzene	ND		1000
Chloroethane	ND		2000
Chloroform	ND		1000
Chloromethane	ND		2000
2-Chlorotoluene	ND		1000
4-Chlorotoluene	ND		1000
Chlorodibromomethane	ND		1000
1,2-Dichlorobenzene	ND		1000
1,3-Dichlorobenzene	ND		1000
1,4-Dichlorobenzene	ND		1000
1,3-Dichloropropane	ND		1000
1,1-Dichloropropene	ND		1000
1,2-Dibromo-3-Chloropropane	ND		10000
Ethylene Dibromide	ND		1000
Dibromomethane	ND		2000
Dichlorodifluoromethane	ND		2000
1,1-Dichloroethane	ND		1000
1,2-Dichloroethane	ND		1000
1,1-Dichloroethene	ND		1000
cis-1,2-Dichloroethene	ND		1000
trans-1,2-Dichloroethene	ND		1000
1,2-Dichloropropane	ND		1000
cis-1,3-Dichloropropene	ND		1000
trans-1,3-Dichloropropene	ND		1000
Ethylbenzene	ND		1000
Hexachlorobutadiene	ND		1000
2-Hexanone	ND		10000

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Livermore-Pleasanton Fire Department

Job Number: 720-11530-1

Method Blank - Batch: 720-28157

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-28157/3-A
Client Matrix: Solid
Dilution: 200
Date Analyzed: 11/02/2007 1551
Date Prepared: 11/02/2007 1300

Analysis Batch: 720-28180
Prep Batch: 720-28157
Units: ug/Kg

Instrument ID: Varian 3900G
Lab File ID: c:\saturnews\data\200711\11
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		1000
4-Isopropyltoluene	ND		1000
Methylene Chloride	ND		2000
4-Methyl-2-pentanone (MIBK)	ND		10000
Naphthalene	ND		2000
N-Propylbenzene	ND		1000
Styrene	ND		1000
1,1,1,2-Tetrachloroethane	ND		1000
1,1,2,2-Tetrachloroethane	ND		1000
Tetrachloroethene	ND		1000
Toluene	ND		1000
1,2,3-Trichlorobenzene	ND		1000
1,2,4-Trichlorobenzene	ND		1000
1,1,1-Trichloroethane	ND		1000
1,1,2-Trichloroethane	ND		1000
Trichloroethene	ND		1000
Trichlorofluoromethane	ND		1000
1,2,3-Trichloropropane	ND		1000
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1000
1,2,4-Trimethylbenzene	ND		1000
1,3,5-Trimethylbenzene	ND		1000
Vinyl acetate	ND		10000
Vinyl chloride	ND		1000
Xylenes, Total	ND		2000
2,2-Dichloropropane	ND		1000

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	104	60 - 140
1,2-Dichloroethane-d4 (Surr)	98	60 - 140
Toluene-d8 (Surr)	100	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Livermore-Pleasanton Fire Department

Job Number: 720-11530-1

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-28157**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 720-28157/1-A
Client Matrix: Solid
Dilution: 200
Date Analyzed: 11/02/2007 1444
Date Prepared: 11/02/2007 1300

Analysis Batch: 720-28180
Prep Batch: 720-28157
Units: ug/Kg

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200711\11
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-28157/2-A
Client Matrix: Solid
Dilution: 200
Date Analyzed: 11/02/2007 1517
Date Prepared: 11/02/2007 1300

Analysis Batch: 720-28180
Prep Batch: 720-28157
Units: ug/Kg

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200711\11
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	88	84	69 - 129	5	20		
Chlorobenzene	106	106	61 - 121	0	20		
1,1-Dichloroethene	99	98	65 - 125	1	20		
Toluene	98	96	70 - 130	2	20		
Trichloroethene	91	87	74 - 134	4	20		
Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits				
4-Bromofluorobenzene	108	106	60 - 140				
1,2-Dichloroethane-d4 (Surr)	102	101	60 - 140				
Toluene-d8 (Surr)	106	102	70 - 130				

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Livermore-Pleasanton Fire Department

Job Number: 720-11530-1

Method Blank - Batch: 720-28083

Method: 8015B
Preparation: 3550B

Lab Sample ID: MB 720-28083/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/01/2007 1900
Date Prepared: 11/01/2007 0913

Analysis Batch: 720-28149
Prep Batch: 720-28083
Units: mg/Kg

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.17 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		0.99
Motor Oil Range Organics [C24-C36]	ND		50
Mineral Spirit Range Organics [C9-C13]	ND		0.99

Surrogate	% Rec	Acceptance Limits
p-Terphenyl	93	40 - 119

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-28083**

Method: 8015B
Preparation: 3550B

LCS Lab Sample ID: LCS 720-28083/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/01/2007 1808
Date Prepared: 11/01/2007 0913

Analysis Batch: 720-28149
Prep Batch: 720-28083
Units: mg/Kg

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.21 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-28083/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/01/2007 1834
Date Prepared: 11/01/2007 0913

Analysis Batch: 720-28149
Prep Batch: 720-28083
Units: mg/Kg

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.14 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	78	81	50 - 130	4	30		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
p-Terphenyl	81		99	40 - 119			

Calculations are performed before rounding to avoid round-off errors in calculated results.

Login Sample Receipt Check List

Client: TestAmerica San Francisco

Job Number: 720-11530-1

Login Number: 11530

Creator: Mullen, Joan

List Number: 1

List Source: TestAmerica San Francisco

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	NCM
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Livermore-Pleasanton Fire Department Chain of Custody Form

Incident Number	Customer Service Request CSR # 7268
Date of Incident	10/26/07
Location/Address of Incident	448 Beverly St., Livermore, CA

Sample Identifier	Sample Description	Sample Media	Analyses Requested
102607-01	(1) 0.25 liter soil	Soil/gravel	

	Name	Agency/Company	Date	Time
Sample COLLECTED BY	Paul M. Amis	LPFD	10/26/07	11:50 AM
Sample Relinquished BY	Paul M. Amis	LPFD	10/26/07	11:57 AM
Sample Relinquished TO	John Richter	LPFD	10/26/07	11:58 AM
Sample Relinquished BY	John Richter	LPFD	10/26/07	12:38 AM
Sample Relinquished TO	John Richter	LPFD	10/26/07	12:38 AM
Sample Relinquished BY	John Richter	City of Livermore - WRD	10/26/07	12:38 PM
Sample Relinquished TO	Symon Arizola	City of Livermore - WRD	10/30/07	14:49
Sample Relinquished TO	John Richter	LPFD	10/26/07	14:50

0 copies
many
times

ON 10/26/07

Report To

Attn: John Rigter
Company: Livermore - Pleasanton F.D.
Address: 3560 Nevada St, PL
Phone: (925) 454-2337 mail: JRigter@LPRF.com
Bill To: LPRF
Attn: Sam
Sampled By: John Rigter
Phone: Max Smith

Analysis Request

Sample ID	Date	Time	Mat rix	Pres erv.	TPH EPA - <input type="checkbox"/> 8015 <input type="checkbox"/> 8021 <input type="checkbox"/> 8260B <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	Purgeable Aromatics BTEX EPA - <input type="checkbox"/> 8021 <input type="checkbox"/> 8260B	TEPH EPA 8015M* <input type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input checked="" type="checkbox"/> Other: <u>MS</u>	Fuel Tests EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> Five Oxygenates <input type="checkbox"/> DCA, EDB <input type="checkbox"/>	Purgeable Halocarbons (HVOCS) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) <input checked="" type="checkbox"/> EPA 8260B <input type="checkbox"/> 824	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 825	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 <input type="checkbox"/> PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	Low Level Metals by EPA 200.8/6020 (ICP-MS):	W.E.T (STLC) TCLP	Hexavalent Chromium pH (24h hold time for H ₂ O)	Spec Cond. <input type="checkbox"/> Alkalinity TSS <input type="checkbox"/> TDS <input type="checkbox"/>	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	
102607-01	10/30/07	11:50 AM	Soil	-			X			X												

Project Info. Sample Receipt

Project Name: 414/448 BARKLY ST
Project#: _____
PC#: _____
Credit Card#: _____
of Containers: _____
Head Space: _____
Temp: 8.8°C
Confirms to record: _____

T 5 Day 72h 48h 24h Other: _____
A _____
T _____

Report Routine Level 3 Level 4 EQD State Tank Fund EDF
Special instructions / Comments: See Terms and Conditions on (Form)
OD TO Analyze
*TestAmerica SF reports 8015M from C₃-C₂₄ (Industry norm). Default for 8015B is C₁₂-C₁₈

1) Relinquished by:
Signature: [Signature] Time: 3:08 PM
Printed Name: John Rigter Date: 10/30/07
Company: Livermore - Pleasanton F.D.

1) Received by:
Signature: Joan Mulken Time: 1508
Printed Name: Joan Mulken Date: 10-30-07
Company: FALSE

2) Relinquished by:
Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

2) Received by:
Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

3) Relinquished by:
Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

3) Received by:
Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____