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Alameda County Environmental Health

SITE INVESTIGATION WORKPLAN FIRE STATION No. 3 3200 SANTA RITA ROAD PLEASANTON, CALIFORNIA

August 10, 2007

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A Site Investigation Workplan Prepared for:

Mr. James W. Gotcher City of Pleasanton Public Works / Development Services 200 Old Bernal Avenue P.O. Box 520 Pleasanton, California 94566

SITE INVESTIGATION WORKPLAN FIRE STATION No. 3 3200 SANTA RITA ROAD PLEASANTON, CALIFORNIA

File No.: 84855/FS3

Prepared by:

Environmental Engineer

James A. Lehrman, PG, CHG

No. CHG 69 CERTIFIED

Environmental Group Manager

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August 10, 2007



SITE INVESTIGATION WORKPLAN FIRE STATION No. 3 3200 SANTA RITA ROAD PLEASANTON, CALIFORNIA

Table of Contents

2	<u>ection</u>		<u>Page</u>
1	INTRODUCT	FION	1
	1.1 OBJECT	TIVES AND SCOPE OF WORK	
2	BACKGROU	JND INFORMATION	2
3		VITIES	
	3.1 FIELD F	PREPARATION ACTIVITIES	4
	3.2 SOIL SA 3.3 GROUN	MPLING	4
	3.4 ANALYT	IDWATER SAMPLING	5
	3.5 BACKFI	LLING	6
	3.6 DECON	TAMINATION OF SAMPLING EQUIPMENT	6
		IGATION-DERIVED WASTE MANAGEMENT	
4	QUALITY AS	SSURANCE/QUALITY CONTROL	7
	4.1 FIELD P	PROCEDURES	7
	4.1.1 Fiel	d Data Sheets	7
		oto-documentation Record	
		nple Labels nin-of-Custody	/ &
	4.2 LABORA	ATORY QUALITY ASSURANCE/QUALITY CONTROL	8
5		REPARATION	
6	SCHEDULE.		10
7	QUALIFICAT	rions	11
8	HEALTH AN	D SAFETY	12
9	LIMITATION	S	13
Aı	PPENDIXES		
	Appendix A	Analytical Report	
	Appendix B	Site Plan with Proposed Boring Locations	
	Appendix C	Site Health and Safety Plan	



1 INTRODUCTION

Kleinfelder (Kleinfelder) has prepared this Workplan on behalf of City of Pleasanton (Owner) to investigate a fuel release at Fire Station No. 3 located at 3200 Santa Rita Road in Pleasanton, California (site). This Workplan is being submitted in accordance with the request of the Alameda County Environmental Health (ACEH), Environmental Health Division.

1.1 OBJECTIVES AND SCOPE OF WORK

The objective of the investigation is to assess the possible impact of a petroleum hydrocarbon release on soil and groundwater beneath the site. To meet this objective the following scope of work will be implemented.

- Advance one direct-push soil boring at the location of the former USTs;
- Collect soil samples and a groundwater grab sample from the borehole for laboratory analysis; and
- Prepare a report of the investigation.

2 BACKGROUND INFORMATION

On September 12, 1996, two underground storage tanks (USTs) were removed from Fire Station No. 3 located at 3200 Santa Rita Road. The USTs were each 500 gallons in capacity; one contained gasoline and the other contained diesel fuel. According to the Fire Department's Hazardous Materials Record of Inspection prepared on the day of the UST removal, the piping elbows for both the diesel and gasoline USTs were rusted, corroded and had holes in them. Both the diesel and gasoline USTs were tar wrapped with no obvious holes or rust, but there was obvious contamination from pipe leakage and gasoline odors. Four soil samples were collected: one from beneath the gasoline UST at a depth of approximately 9.5 feet below ground surface (bgs); one from the south sidewall of the excavation at a depth of approximately 4 feet bgs; and two from the stockpile. The highest detected concentrations were in the sidewall sample, with total petroleum hydrocarbons (TPH) as diesel (TPHd) detected at 2,800 mg/kg. The deeper soil sample had only minor detected concentration with TPHd at 29 mg/kg. Benzene was not detected in any of the soil samples. A report dated October 14, 1996 by the UST removal contractor, W.A. Craig, includes additional detail, and recommended further excavation to remove additional soil containing petroleum hydrocarbons.

According to a report by Ecology Recovery Associates (ERA), dated January 6, 1997, ERA excavated additional soil from the site and coordinated disposal of the contaminated soil. On November 27, 1996 approximately 12 additional cubic yards (cy) of soil from along the south side of the excavation was removed. A sample collected from a gravel layer at 2 feet bgs contained TPHd at 12,000 mg/kg, however, two additional samples collected from a dense clay below the gravel layer had no detectable TPHd concentrations. On December 19, 1996 approximately 7 additional cy of soil was excavated from the south sidewall. A sample collected from the remaining gravel layer detected only 2 mg/kg TPHd.

On June 26, 2007, at the request of the City of Pleasanton, Kleinfelder supervised the drilling of a soil boring at the location of the former USTs. The objective of the drilling was to assess the impact of the fuel release on soil and groundwater beneath the site, with the intention of obtaining regulatory case closure. However, due to a greater than anticipated depth to groundwater and the depth limitation of the drilling rig, the boring



was terminated at a depth of 28 feet below ground surface (bgs). No indications of soil contamination were observed in the boring, however groundwater was not encountered. A soil sample was collected from the boring at a depth of approximately 12 bgs. The only detected concentration in this sample was TPHd at 2.2 mg/kg. A copy of the analytical report for that sample is included as Appendix A.



3 FIELD ACTIVITIES

This section describes the proposed field activities at the site. The following topics are discussed in this section:

- Field Preparation Activities
- Soil Sampling
- Groundwater Sampling
- Decontamination of Sampling Equipment
- Investigation-Derived Waste Management

The project activities will be conducted under the supervision of a California Professional Geologist (PG) or Professional Engineer (PE). Kleinfelder will contract with state-licensed drillers, analytical laboratories, surveyors and hazardous materials contractors and transporters, as needed.

3.1 FIELD PREPARATION ACTIVITIES

Kleinfelder will prepare and submit a drilling permit application to Zone 7 Water Agency. The application will include the proposed boring location, site map, and a description of activities. A site plan / sketch with the proposed boring location is included in Appendix B.

Kleinfelder will visit the site and mark the proposed boring location with white paint. Underground Service Alert will be notified at least two working days prior to the initiation of the drilling activities, as required by law. In addition, Kleinfelder will contract with a private utility locator to visit the site and check for utilities within a five-foot radius of the drilling locations.

3.2 SOIL SAMPLING

The soil samples collected during this investigation will be completed using a truck-mounted, direct-push drill rig to minimize generated waste. If necessary, asphalt or concrete overlying borehole locations will be cored prior to drilling. The boreholes will



be advanced using direct-push drilling methods to five feet below the first encounter of groundwater (anticipated at approximately 55 feet bgs). Pre-inserted sample liners will be collected and the desired sample intervals will be selected for laboratory analysis. The soil will be screened with a PID and visually inspected to identify areas of impacted soil. One soil sample will be collected at approximately 50 feet below ground surface (ft bgs), unless another sample interval is identified as being impacted. The ends of each sample interval will be covered with Teflon® sheets and capped with plastic end caps. Samples will be placed in a cooler with ice for transport to the laboratory following chain-of-custody protocol. A Kleinfelder geologist or engineer will oversee the sampling activities and will prepare a log of the soils encountered in each boring.

3.3 GROUNDWATER SAMPLING

During this investigation one groundwater grab sample will be collected from the proposed boring. The groundwater sample will be collected at a depth of five feet below the first encounter of groundwater, anticipated at approximately 55 feet bgs. Once the boring is advanced to a depth of approximately 60 feet bgs, as described in Section 3.2, a small diameter polyvinyl chloride (PVC) pipe with a 10 foot screen section will be inserted to the bottom of the borehole. The groundwater sample will be collected using small diameter disposable bailer. Groundwater samples collected for analysis will be placed in appropriate containers, labeled, and placed into Ziploctm plastic bags. The samples will be placed in a cooler with ice for transport to the laboratory following chain-of—custody protocol.

3.4 ANALYTICAL TESTING

Soil and groundwater samples will be submitted for TPHg, TPHd, BTEX and fuel oxygenates analysis. Analyses will be performed using the following methods:

- TPHg and TPHd by EPA Test Method 8015M; and
- VOCs by EPA Test Method 8260;



3.5 BACKFILLING

Following the collection of groundwater samples, the PVC pipe will be withdrawn from the borehole. The boring will be sealed from the bottom to ground surface with neat cement grout (one 94-pound sack of Portland cement to approximately 5 gallons of water) and finished with cold asphalt or concrete patch to match the existing surface.

3.6 DECONTAMINATION OF SAMPLING EQUIPMENT

Prior to performing field activities, the sampling equipment will be pre-cleaned. All sampling equipment will be decontaminated prior to collecting each soil sample. The decontamination procedures will include: (1) removal of gross contamination by scraping, pulling or brushing (as necessary) followed by a tap water rinse; (2) Liquinox™ or equivalent equipment wash; (3) tap water rinse; and (4) deionized water rinse.

3.7 INVESTIGATION-DERIVED WASTE MANAGEMENT

Investigation-derived waste (IDW), such as decontamination rinsate fluids, soil cuttings and discarded groundwater will be separately drummed and temporarily held at the site in a labeled, U.S. Department of Transportation-approved, 55-gallon steel drum for later disposal pursuant to the City's direction.



4 QUALITY ASSURANCE/QUALITY CONTROL

This section describes the field and laboratory quality assurance/quality control (QA/QC) procedures that will be implemented during implementation of this workplan.

4.1 FIELD PROCEDURES

The following four formats will be used to document the implementation of field activities:

- Field data sheets;
- Photo-documentation record;
- · Sample labels; and
- Chain-of-custody form.

4.1.1 Field Data Sheets

Field data sheets will be completed in the field to document field activities. The data sheets will include: daily field reports, air monitoring records, and geologic boring logs.

4.1.2 Photo-documentation Record

Photographs will be used to document the field activities. These photographs will be logged and placed into the report, as appropriate.

4.1.3 Sample Labels

Sample labels will be completed in waterproof ink at the time of sample collection and before the sample is placed into the cooler. The following information will be included on the sample label: sample number, data and time, sample location and client, analysis and laboratory, preservative, samplers' initials, and project number.



4.1.4 Chain-of-Custody

A chain-of-custody record will be completed as soil and groundwater samples are collected, so that samples do not have to be removed from the cooler prior to delivery to the laboratory. The record will be checked for completeness at the end of each day samples are collected and signed. It will then be hand-delivered with the samples to the laboratory. Information on the chain-of-custody record will include: sample data and time, sample ID and location, matrix, number of containers, required analyses, preservative, turnaround time, project manager's name, project number, project name and location, laboratory name, and sampler signatures.

4.2 LABORATORY QUALITY ASSURANCE/QUALITY CONTROL

All analytical testing will be performed by a Cal/EPA ELAP-accredited hazardous-waste fixed-base laboratory. The laboratory will be responsible for maintaining custody of the samples, and for maintaining all associated records documenting that custody. Upon receipt of the samples, the laboratory will check the original chain-of-custody documents and compare them with the labeled contents of each sample container for accuracy and traceability.

5 REPORT PREPARATION

Following completion of the site investigation and receipt of the soil and groundwater analytical results, a letter report will be prepared to document the activities, findings, and conclusions of the investigation and to provide recommendations. The report will be submitted to the City of Pleasanton and will include:

- Introduction, purpose, and objectives of the investigation;
- Site map showing borehole locations:
- Presentation of soil and groundwater analytical results (tables and plates) in the context of regulatory agency action levels and guidelines;
- Certified laboratory analytical reports and chain-of-custody records; and
- Conclusions and recommendations for future work, if appropriate.

The investigation and the report preparation will be conducted under the direct supervision of and will be signed by a California Professional Geologist (PG) or Professional Engineer (PE).

6 SCHEDULE

Kleinfelder will begin implementation of this workplan as soon as approval has been granted by City of Pleasanton and the ACEH. The field preparation activities will be completed first, including securing the required permits and approvals from Zone 7 Water Agency. Kleinfelder will then schedule the utility clearance and drilling subcontractors. The actual fieldwork is anticipated to take one day.

Analytical results will be available one week after submittal of the samples to the laboratory. Kleinfelder will prepare a draft of the letter report and submit the draft to the City approximately two weeks after receipt of the analytical results. After incorporating the City's comments, we will finalize the report for submittal to the ACEH.



7 QUALIFICATIONS

Kleinfelder maintains current licenses, certifications, and training required for hazardous waste operations in the State of California, including:

- State of California Contractors State License Board General Engineering Contractor (A) License; and
- Federal Occupation Safety and Health Administration (OSHA) 40-hour health and safety training for hazardous waste operations (29 CFR 1910.120) certifications for all site workers.

The drilling contractor selected by Kleinfelder will have the following certifications and training:

- Class C-57 Contractor's License for the State of California; and
- Federal Occupation Safety and Health Administration (OSHA) 40-hour health and safety training for hazardous waste operations (29 CFR 1910.120) certifications for all site workers.

The laboratory contractors selected by Kleinfelder will have the following certifications:

• Current Cal/EPA ELAP accreditation for all the analytical methods used.

8 HEALTH AND SAFETY

A Health and Safety Plan is included in Appendix C. The Health and Safety Plan was prepared in accordance with Federal OSHA and California Department of Safety and Health (DOSH) requirements outlined in 29 CFR Part 1910.120[j]; Title 8, CCR, Section 5192.

The site-specific HASP provides general guidelines for decision points in site safety planning, and will establish personnel protection standards and mandatory safety practices and procedures. The HASP covers the following subjects:

- Emergency contacts to be used in the event of an accident or exposure;
- Description of site hazards, both physical and chemical;
- On-site monitoring and personnel protection;
- Project team organization and responsibilities;
- · Site control measures; and
- Decontamination procedures.

The provisions of the HASP will be mandatory for all onsite personnel; all Kleinfelder subcontractors shall conform to this plan at a minimum.

9 LIMITATIONS

Kleinfelder prepared this report in accordance with generally accepted standards of care that exist in Northern California at this time. This report may be used only by the City of Pleasanton (Client) and only for the purposes stated, within a reasonable time from its issuance, but in no event later than one (1) year from the date of the report. All information gathered by Kleinfelder is considered confidential and will be released only upon written authorization of the Client or as required by law. Non-compliance with any of these requirements by the Client or anyone else, unless specifically agreed to in advance by Kleinfelder in writing, will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party and the Client agrees to defend, indemnify, and hold harmless Kleinfelder from any claim or liability associated with such unauthorized use or non-compliance.

Kleinfelder offers various levels of investigative and engineering services to suit the varying needs of different clients. It should be recognized that definition and evaluation of geologic and environmental conditions are a difficult and inexact science. Judgments leading to conclusions and recommendations are generally made with incomplete knowledge of the subsurface conditions present. Although risk can never be eliminated, more-detailed and extensive investigations yield more information, which may help understand and manage the level of risk. Since detailed investigation and analysis involves greater expense, our clients participate in determining levels of service that provide adequate information for their purposes at acceptable levels of risk. More extensive studies, including subsurface investigations or field tests, may be performed to reduce uncertainties. Acceptance of this report will indicate that the Client has reviewed the document and determined that it does not need or want a greater level of service than provided.

During the course of the performance of Kleinfelder's services, hazardous materials may be discovered. Kleinfelder will assume no responsibility or liability whatsoever for any claim, loss of property value, damage, or injury that results from pre-existing hazardous materials being encountered or present on the project site, or from the discovery of such hazardous materials. Nothing contained in this report should be construed or interpreted as requiring Kleinfelder to assume the status of an owner, operator, generator, or person who arranges for disposal, transport, storage or



treatment of hazardous materials within the meaning of any governmental statute, regulation or order. The Client will be solely responsible for notifying all governmental agencies, and the public at large, of the existence, release, treatment or disposal of any hazardous materials observed at the project site, either before or during performance of Kleinfelder's services. The Client will be responsible for all arrangements to lawfully store, treat, recycle, dispose, or otherwise handle hazardous materials, including cuttings and samples resulting from Kleinfelder's services.

Regulations and professional standards applicable to Kleinfelder's services are continually evolving. Techniques are, by necessity, often new and relatively untried. Different professionals may reasonably adopt different approaches to similar problems. As such, our services are intended to provide the Client with a source of professional advice, opinions and recommendations. Our professional opinions and recommendations will be based on our limited number of field observations and tests, collected and performed in accordance with the generally accepted engineering practice that exists at the time and may depend on, and be qualified by, information gathered previously by others and provided to Kleinfelder by the Client. Consequently, no warranty or guarantee, expressed or implied, is intended or made.

APPENDIX A

ANALYTICAL REPORT

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

Kleinfelder, Inc.	Client Project ID: #84855/S&A Pleasanton	Date Sampled: 06/26/07
7133 Koll Center Pkwy, #100	Fire	Date Received: 06/26/07
Pleasanton, CA 94566	Client Contact: Jim Lehrman	Date Reported: 07/03/07
reasonon, err 7 1300	Client P.O.:	Date Completed: 07/03/07

WorkOrder: 0706693

July 03, 2007

Dear Jim:

Enclosed are:

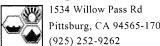
- 1). the results of 1 analyzed sample from your #84855/S&A; Pleasanton Fire project,
- 2). a QC report for the above sample
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.



CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Pittsburg, CA 94565-1701 WorkOrder: 0706693 ClientID: KFP ☐ EDF ☐ ThirdParty ☐ Excel Fax ✓ Email HardCopy Bill t Requested TAT: 5 days Report to: jlehrman@kleinfelder.com Accounts Payable Email: Jim Lehrman FAX: (925) 484-583 Kleinfelder Inc. TEL: (925) 484-170 Kleinfelder, Inc. Date Received 06/26/2007 7133 Koll Center Pkwy, #100 ProjectNo: #84855/S&A; Pleasanton Fire 7133 Koll Center Pkwy, #100 Pleasanton, CA 94566 Date Printed: 06/26/2007 PO: Pleasanton, CA 94566 Requested Tests (See legend below) 5 10 11 12 2 3 6 Collection Date Hold Sample ID ClientSampID Matrix Α 6/26/07 2:21:00 Α 0706693-002 SR-1-12 Soil Test Legend: G-MBTEX S 2 TPH(D)_S MBTEXOXY-8260B S 3 6 7 8 11 12 Prepared by: Melissa Valles The following SampID: 002A contains testgroup.

Comments:

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



Comments:

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name:	Kleinfelder, Inc.				Date	e ar	nd Time Received:	6/26/07 8:1	15:28 PM			
Project Name:	#84855/S&A Pleasanto	on Fire			Che	ckl	list completed and r	eviewed by:	Melissa Valles			
WorkOrder N°:	0706693 Matrix	Soil Soil			Carr	ier	: <u>EnviroTech</u>					
		Chain o	f Cu	stody (C	OC) Inform	nat	tion					
Chain of custody	y present?	١	Yes	V	No 🗆							
Chain of custody	y signed when relinquished a	nd received?	Yes	V	No 🗆							
Chain of custody	y agrees with sample labels?	١	Yes	✓	No 🗌							
Sample IDs note	d by Client on COC?	١	Yes	V	No 🗆							
Date and Time o	f collection noted by Client on	COC?	Yes	V	No 🗆							
Sampler's name	noted on COC?)	Yes	V	No 🗆							
Sample Receipt Information												
Custody seals in	ntact on shippping container/c	ooler?	Yes		No 🗆			NA 🗹				
-	ner/cooler in good condition?		Yes	V	No 🗆							
Samples in prop	per containers/bottles?	\	Yes	V	No 🗆							
Sample containe	ers intact?	`	Yes	V	No 🗆							
Sufficient sample	e volume for indicated test?	`	Yes	✓	No 🗆							
	S	ample Preserva	atior	and Ho	old Time (H	T)	Information					
All samples rece	eived within holding time?		Yes	V	No 🗆							
•	Blank temperature	(Coole	r Temp:	6.8°C			NA 🗆				
,	als have zero headspace / no	bubbles?	Yes		No 🗆		No VOA vials subm	itted 🗹				
	hecked for correct preservation		Yes	~	No 🗌							
TTLC Metal - pH	l acceptable upon receipt (pH<	<2)?	Yes		No 🗆			NA 🗹				
•												
Client contacted	:	Date contacted	d:				Contacted	by:				
								•				



McCampbell Analytical, Inc.

"When Ouality Counts"

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Telephone: 877-252-9262 Fax: 925-252-9269

Kleinfelder, Inc.	Client Project ID: #84855/S&A Pleasanton Fire	Date Sampled: 06/26/07		
7133 Koll Center Pkwy, #100	rieasamon riie	Date Received: 06/26/07		
Pleasanton, CA 94566	Client Contact: Jim Lehrman	Date Extracted: 06/26/07		
110000000000000000000000000000000000000	Client P.O.:	Date Analyzed 06/29/07		

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*												
Extraction method SW50	30B	Analytical n	nethods SW8015Cm	Work Order: 0706	693							
Lab ID	Client ID	Matrix	TPH(g)	DF	% SS							
002A	SR-1-12	S	ND	1	82							

0.00												
	Reporting Limit for DF =1; ND means not detected at or		NA	NA	1							
	he reporting limit	S	1.0	mg/l	Kg							

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

[#] cluttered 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) 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 peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) value derived using a client specified carbon range; o) results are reported on a dry weight basis; p) see attached narrative.



McCampbell Analytical, Inc.

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"When Ouality	Counts"		Telephone: 877-252-9262 Fax: 925-252-9269						
Kleinfelder, Inc.	Client Pr Pleasant	roject ID: #	‡84855	/S&A	Date Sampled:	06/26/07			
7133 Koll Center Pkwy, #100	1 icusum	ion i ne	Date Received:	06/26/07					
Pleasanton, CA 94566	Client C	Contact: Jin	n Lehrr	nan	Date Extracted:	06/26/07			
Treasunton, Cris 1500	Client P.	O.:	06/27/07						
	Oxyger	nates and B	ΓEX b	y GC/MS*					
Extraction Method: SW5030B	Ana	llytical Method:	SW826	0B		Work Order:	0706693		
Lab ID	0706693-002A								
Client ID	SR-1-12					Reporting DF			
Matrix	S	S				Dr	=1		
DF	1	-				S	W		
Compound	Compound Concentration					mg/kg	ug/L		
tert-Amyl methyl ether (TAME)	ND					0.005	NA		
Benzene	ND					0.005	NA		
t-Butyl alcohol (TBA)	ND					0.05	NA		
Diisopropyl ether (DIPE)	ND					0.005	NA		
Ethylbenzene	ND					0.005	NA		
Ethyl tert-butyl ether (ETBE)	ND					0.005	NA		
Methyl-t-butyl ether (MTBE)	ND					0.005	NA		
Toluene	ND					0.005	NA		
Xylenes	ND					0.005	NA		
	Surr	ogate Reco	veries	(%)		_			
%SS1:	98								
0/882	0.0	I		I	I	1			

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

99

%SS3:

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.

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



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

***************************************	when Quanty Counts		Telephone, o	111-232-3202 1 ax. 323-232-32	0.9			
Kleinfelder, Inc. 7133 Koll Center Pkwy, #100		Client Projec Pleasanton F	et ID: #84855/S&A	Date Sampled: 06/26/07				
7133 Koll Cen	ater Pkwy, #100	Pleasanton F	ire	Date Received: 06/26/07 Date Extracted: 06/26/07				
Pleasanton, C.	A 94566	Client Conta	ct: Jim Lehrman					
i icasamon, C.	A 74300	Client P.O.:		Date Analyzed 06/27	07			
	Diesel Rang	ge (C10-C23)	Extractable Hydrocarbons as	Diesel*				
Extraction method	SW3550C	Ana	llytical methods SW8015C	Work Or	der: 070	6693		
Lab ID	Client ID	Matrix	TPH(d)		DF	% SS		
0706693-002A	SR-1-12	S	2.2,k		1	87		
Repo	orting Limit for DF =1;	w	NA		N			
	neans not detected at or ove the reporting limit	S	1.0		ļ	/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 McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit; o) results are reported on a dry weight basis.

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

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0706693

EPA Method SW8021B/8015Cm		BatchID: 28966 Spiked Sample ID						0706679-014A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex [£]	ND	0.60	93.2	103	10.2	109	108	1.09	70 - 130	30	70 - 130	30
МТВЕ	ND	0.10	93.6	95.2	1.73	103	103	0	70 - 130	30	70 - 130	30
Benzene	ND	0.10	93.7	96.8	3.29	101	105	3.81	70 - 130	30	70 - 130	30
Toluene	ND	0.10	88.9	92.5	3.82	93.9	97.6	3.86	70 - 130	30	70 - 130	30
Ethylbenzene	ND	0.10	94.7	99.9	5.35	105	107	2.24	70 - 130	30	70 - 130	30
Xylenes	ND	0.30	107	110	3.08	100	103	3.28	70 - 130	30	70 - 130	30
%SS:	84	0.10	95	76	21.7	95	97	2.05	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 28966 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0706693-002A	06/26/07 2:21 PM	1 06/26/07	06/29/07 9:56 PM				

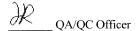
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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.



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

NONE

QC Matrix: Soil

WorkOrder 0706693

EPA Method SW8015C		BatchID: 28922 Sp				oiked Sample ID: 0706632-023A						
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			•
Allalyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(d)	ND	20	111	112	0.616	113	110	2.31	70 - 130	30	70 - 130	30
%SS:	93	50	114	116	1.36	113	110	2.71	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:

BATCH 28922 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0706693-002A	06/26/07 2:21 PM	1 06/26/07	06/27/07 9:16 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.

QA/QC Officer

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com

Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0706693

EPA Method SW8260B	Extraction SW5030B				BatchID: 28925			Spiked Sample ID: 0706632-023A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	Criteria (%))
7 tilalyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	107	110	3.32	104	102	2.31	70 - 130	30	70 - 130	30
Benzene	ND	0.050	123	118	4.39	117	112	4.43	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	103	103	0	101	102	0.409	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	109	111	2.37	103	105	2.79	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	117	114	2.77	108	102	5.42	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	128	126	2.03	119	119	0	70 - 130	30	70 - 130	30
Ethanol	ND	2.5	107	101	5.97	107	107	0	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	115	118	2.40	109	108	0.308	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	116	118	1.72	111	109	1.65	70 - 130	30	70 - 130	30
Toluene	ND	0.050	119	124	4.22	100	107	6.54	70 - 130	30	70 - 130	30
%SS1:	87	0.050	103	103	0	102	98	3.45	70 - 130	30	70 - 130	30
%SS2:	100	0.050	102	108	6.05	94	98	3.55	70 - 130	30	70 - 130	30
%SS3:	100	0.050	103	116	12.4	102	113	9.61	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 28925 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0706693-002A	06/26/07 2:21 PM	06/26/07	06/27/07 3:52 PM		7		

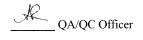
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = <math>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

Site Plan with Proposed Boring Locations

CITY OF PLEASANTON CALLY ST 4444 RAILE ST PLEASANTON, CALLY 94566 (415) 847-8114 LONG FORM HAZARDOUS MATERIALS MANAGEMENT PLAN

PLOT PLANI

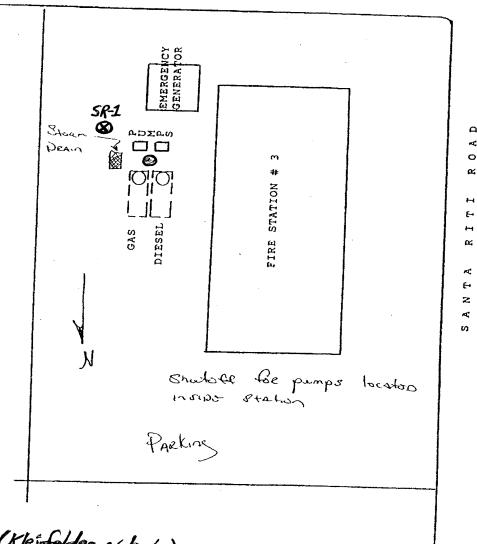
ON THIS PAGE SECTCH A SIMPLE LINE DRAVING OF THE PACILITY SHOWING:

- 1. LOCATION OF HEATERS, AIR CONDITIONING BOUIPTHEAT, VENTILATORS, PANS, ETC.
- 2. LOCATION OF SHUT-OFF SWITCHES POR ABOVE
- 3. SURFACE RUNOFF DETAILS-INCLUDE LOCATION OF STORM AND SANITARY SEMER DRAINS.
- 4. LOCATION OF ALL BUILDINGS AND STRUCTURES AND USES.
- 5. LOCATION OF CHEMICAL LOADING AREAS.
- 6. SHOW ADJACENT STREETS AND PROPERTY USES.
- 7. PARKING LOT LOCATION.
- 6. LOCATION OF ALL EMERGENCY RESPONSE EQUIPMENT.

INDICATE NORTH DIRECTION TOWARDS TOP OF PAGE.

DRAW TO LEGIBLE SCALE AND INDICATE SCALE.

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8 = Boring SR-1 (Kleinfelder 06/20/01)

8 = Proposed Location

APPENDIX C

HEATH AND SAFETY PLAN



SITE-SPECIFIC HEALTH AND SAFETY PLAN

Project No. <u>84855</u>	Date _ August 10, 2007					
Client City of Pleasanton	Address 200 Old Bernal Avenue					
Site Contact James Gotcher	Cita Phana Na 005 004 5004					
	Site Phone No. <u>925-931-5684</u>					
Job Location 3200 Santa Rita Road, Pleasanton, CA 94566						
Work Objectives Collecting soil vapor, soil and	d/or groundwater samples.					
Key Individuals: Project Manager	Jim Lehrman					
Site Health and Safety John Williams						
Prepared by Mehagan Hopkins, Erik Bluvas	Reviewer/Approver Jim Lehrman					
Hospital/Clinic Pleasanton Urgent Care						
Phone No. <u>925-462-9300</u>						
Address: 3128 Santa Rita Road, Pleasanton, CA						
Paramedic 911 Fire Dept. 911 Police De						
	· 					
Emergency/Contingency Plans: Stop work	and evaluate situation and stabilize victim(s).					
	nanager. Apply first aid and/or seek medical aid					
	f injuries permit. If necessary call Ambulance					
	hospital. Refer to attached maps for location of					
	Officer to notify Client and appropriate personnel					
of situation.	Simes to homy office and appropriate personner					
· · · · · · · · · · · · · · · · · · ·						
15 Minute Eyewash not required Fire Exting	uisher required First Aid Kit required					
in the Little	disher required inst Aid Kit required					
Site Control Measures: Do not allow unauthor	ized personnel into the work area					
one control incusures. Bo not allow unauthor	ized personner into the work area.					
Personal Decentamination Procedures: Dis	posable gloves will be utilized for soil sampling					
	soil will be washed immediately with soap and					
	oling to protect eyes. Hands and face shall be					
	noking, or other hand to mouth contact. Soil will					
	outerwear (especially boots and shoes) before					
getting in vehicles.						



CHEMICAL HAZARDS

The primary chemicals of concern at the site are VOCs. Acute/chronic health effects associated with these and other chemicals are listed in the table below.

Chemical Name	Expected Concentration	Health Hazards				
Fuel Hydrocarbons (i.e. Unknown		Acute: Headache, nausea, dizziness, skin/eye				
gasoline); TPH-gasoline		irritation, blurred vision, abdominal pains, vertigo,				
		diarrhea, convulsions.				
	·	Chronic: n/a				
Total Petroleum Hydrocarbons	Unknown	Acute: skin, eye, and respiratory irritation;				
(Diesel and other petroleum		headache, dizziness.				
hydrocarbons); TPD-diesel		Chronic: n/a				
Benzene	Unknown	Acute: Abdominal pain, headache, dizziness.				
		Chronic: Carcinogen, anemia, leukemia,				
Toluene	Unknown	Acute: Dermatitis (skin), respiratory irritant,				
		headache, dizziness				
		Chronic: n/a				
Ethyl Benzene	Unknown	Acute: Skin/eye irritant, headache, dizziness				
		Chronic: n/a				
Xylenes	Unknown	Acute: Skin/eye irritant, headache, dizziness,				
		drowsy				
Net / 3 Af		Chronic: n/a				

Notes: $\mu g/m^3 = Micrograms per cubic meter of air.$

mg/kg = milligrams per kilogram, approximately equivalent to parts per million (ppm)

n/a = Not Applicable

Respiratory Protection

The principal routes of potential exposure are inhalation and ingestion during field activities. However, at this time, Level D personal protective equipment without respiratory protection is anticipated. Kleinfelder site activities are not expected to generate significant quantities of dust. If site conditions are different or change, the need for respiratory protection will be reevaluated.



PHYSICAL HAZARDS

Physical hazard during sampling consist of accidents that can occur during handling of sharp tools and injuries resulting form trips and falls. In general, these types of accidents will be minimized by the use of proper safety equipment (hard hat, safety glasses, steel-toed boots), good communication among all on-site personnel, and being alert to potential hazards. Safety hazards associated with this site requiring specific precautions are summarized below.

PHYSICA	L HAZARDS						
X	Heat	X_Slip,	Trip, Fall			Excavations/Tren	ch
X	Cold	Elect	trical Haza	ards	X	Moving Equipmen	nt
X	Wet	X_Unde	rground H	lazards	·	Confined Space	
X	Noise	X_Overl	nead Haza	ards			
	Other						
PERSONA	AL PROTECTIV	VE EQUIP	MENT				
R = Requi	ired A = 1	As Neede	d				
R Hard	l Hat	R Safe	ety Eyege	ar: <u>glasses v</u>	w/ side pr	otection	
R Safe	ty Boots	_A_ Res	pirator (T	ype): Full-fac	ce	Half-face_A	
R Oran	ige Vest					gas HEPA_A	
A Hear	ing Protection						
		R Oth					
5 Mir	nute Escape Re	espirator					
In general	l, if air monitoi	ring readi	ngs in wo	rkers' brea	thing zo	ne exceed 5 ppm	for 60
						ate the immediate	
				•	•		
MONITOR	ING EQUIPME	NT					
	Organic Va Analyzer (I	•	X	PID with lar	mp of <u>10</u>	.6 eV	
	_ Oxygen Me	eter	•	Detector Tu	ıbe (spec	ify)	
	_ Combustib	le Gas		Passive Do	simeter		
	Meter						
74	_ H ₂ S Meter			Air Samplin	g Pump		
	_ W. B. G. T			Filter Media	ı		



ONSITE SAFETY MEETING ATTENDEES

Signature	Name (Printed)/Title	Date
	-	

Directions to Pleasanton, CA 94588, United States

YAHOO! LOCAL

Summary and Notes

START 3200 Santa Rita Rd, Pleasanton, CA 94588, United States

FINISH B 3128 Santa Rita Rd, Pleasanton, CA 94588, United States

Total Distance: 0.8 miles, Total Time: 1 min (approx.)

Add your notes	here

Distance

3200 SANTA RITA RD, PLEASANTON, CA 94588, UNITED STATES

1. Start at 3200 SANTA RITA RD, PLEASANTON

go 0.2 mi

2. Make a U-Turn at OLD SANTA RITA RD onto SANTA RITA

go **0.5** mi

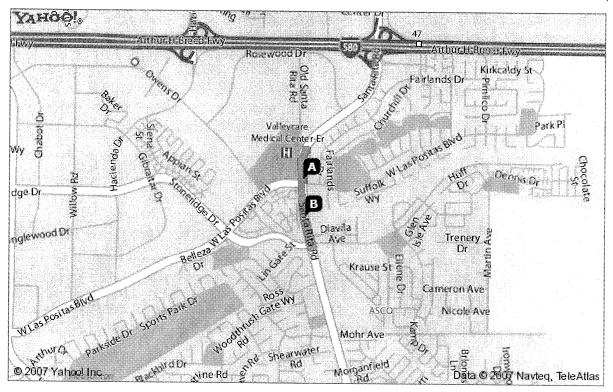
3. Make a U-Turn at STONERIDGE DR onto SANTA RITA RD

go **0.1** mi

4. Arrive at 3128 SANTA RITA RD, PLEASANTON

B 3128 SANTA RITA RD, PLEASANTON, CA 94588, UNITED STATES

Distance: 0.8 miles, Time: 1 mins



When using any driving directions or map, it's a good idea to do a reality check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning.