

April 28, 2008
File No. 84855/FH#1 UST

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

RECEIVED

2:33 pm, Jun 19, 2008

Alameda County
Environmental Health

SUBJECT: Environmental Site Investigation of Fire Station No. 1, 4444 Railroad Avenue, Pleasanton, California

Dear Mr. Gotcher:

This letter report presents the results of an environmental site investigation performed at the Fire Station No. 1 property located at 4444 Railroad Avenue in Pleasanton (the Site, shown on Plate 1) for the City of Pleasanton. This work was performed in general accordance with the *Site Investigation Workplan* prepared by Kleinfelder and dated August 10, 2007, and technical comments included in a letter to the City of Pleasanton from Alameda County Environmental Health dated September 20, 2007. Kleinfelder completed field work related to this investigation on April 3, 2008. Field activities included advancement of one soil boring to collect two soil samples and one groundwater sample. The samples were analyzed by a California state-certified analytical laboratory to assess potential presence of impacted soil or groundwater related to the former underground storage tanks (USTs) on the site. Total petroleum hydrocarbons in the gasoline and diesel ranges, and related volatile organic compounds were not detected at or above laboratory reporting limits in the soil and groundwater samples analyzed. Kleinfelder recommends no further action related to potential releases from the former UST on the Site.

Purpose and Scope of Work

The work described in this report was performed pursuant to a request to the City of Pleasanton from Alameda County Environmental Health (ACEH). The scope of work included advancement of one soil boring on the site, collection of two discrete soil

samples and one groundwater grab sample, analysis of samples by a state-certified analytical laboratory, disposal of investigation-derived wastes, and preparation of this report.

Site Description and Background

The Site is located at 4444 Railroad Avenue in Pleasanton, California, near the intersection with West Neal Street, and is adjacent to a former railroad right of way. The site is situated in the Amador Valley, and the site geology represents typical Coast Range alluvial fill – interbedded and discontinuous sands, gravels, silts and clays.

On September 12, 1996, two 500-gallon USTs were removed from Fire Station No. 1. One tank contained gasoline and the other diesel fuel. According to the Fire Department's *Hazardous Materials Record of Inspection* prepared on the day of the UST removal, the diesel tank had rust, corrosion and small holes on top. The gasoline tank had no obvious holes. No detectable concentrations of petroleum hydrocarbons were detected in confirmation soil samples collected from beneath the former diesel and gasoline USTs. However, analyses of the stockpile sample found concentrations of diesel fuel and xylenes in the original backfill material at concentrations of 150 milligrams per kilogram (mg/kg) and 0.008 mg/kg, respectively, indicating that a minor release had occurred. A report dated September 20, 1996 by the UST removal contractor, W.A. Craig, includes additional detail.

On June 26, 2007, at the request of the City of Pleasanton, Kleinfelder supervised the drilling of a soil boring (boring number RR-1) 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 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. Samples were not collected from boring RR-1 for chemical analysis. The boring log for boring RR-1 is included in Appendix B.

Field Activities

Kleinfelder completed the field portion of this investigation on April 3, 2008. Vironex of Pacheco, California, a state-licensed well drilling contractor (C57 license no. 705927) and Kleinfelder's subcontractor, advanced one soil boring under the direction of a

Kleinfelder professional geologist. Soil and groundwater samples collected during this investigation were analyzed by McCampbell Analytical, Inc. of Pittsburg, California, a state-certified chemical testing laboratory (DHS ELAP certification no. 1644).

Soil Borings

Prior to drilling, Kleinfelder obtained a drilling permit from the Zone 7 Water Agency. A copy of the drilling permit is included in Appendix A. Kleinfelder notified Underground Service Alert at least 48 hours prior to drilling, as required by law, to notify local utilities with underground facilities in the vicinity of the investigation area (USA ticket no. 110407). Kleinfelder retained Cruz Brothers Locators to clear the boring location using geophysical equipment. The soil boring location and site features are shown on Plate 2.

Vironex provided drilling services for one boring location using a truck-mounted Geoprobe 6600 (direct-push) drill rig employing the Macro-core sampling system. The direct push rig advances a five-foot long steel tube using a hydraulic ram and hydraulic percussion hammer. The steel tube has an inside diameter of two inches and an interchangeable acrylic liner, which allows for a continuous sample through the entire depth of the borehole.

One boring was advanced to a depth of 55 feet bgs. Soil was collected in acrylic liners and inspected for indications of staining and/or odors. The continuous soil samples were logged in the field using the Unified Soil Classification System. The soil boring log is included in Appendix B.

Soil samples were collected at depth intervals of five feet and screened for organic vapors using a photo-ionization gas detector (PID). Staining and odors were not noted in the soil samples and elevated PID readings were not detected. Two soil samples, one from a depth of 10 feet and one from a depth of 30 feet were selected from the boring and sealed on both ends with Teflon sheets and rubber end caps. The soil samples were transferred on ice to McCampbell Analytical, Inc. under chain-of-custody protocol for analysis. Soil sampling equipment was decontaminated between sample intervals and locations as described below.

Groundwater was encountered at a depth of 46 feet bgs. Because the borehole collapsed when the drill-string was withdrawn, Vironex advanced 2.25-inch steel casing in the borehole in order to set temporary PVC casing within the groundwater interval. The steel casing was withdrawn to expose the PVC screen before collecting a

groundwater sample. One groundwater sample was collected using new 3/8-inch polyethylene tubing and a ball-check valve device. Groundwater samples were placed in laboratory-supplied containers, labeled, and transferred on ice to McCampbell Analytical, Inc. under chain-of-custody protocol.

After groundwater samples were collected, temporary well casing was removed and discarded, and the borehole was backfilled with neat cement and abandoned according to well permit requirements.

Decontamination Procedures

Non-expendable sampling equipment was decontaminated prior to use and between each borehole using an Alconox detergent and water solution and two stage rinse. New expendable equipment was used whenever possible.

Investigation-Derived Waste Management

Waste soil cuttings and decontamination rinsates generated during this investigation were placed in a DOT 17H 55-gallon steel drum and left at the Firehouse No. 3 site pending approval of a waste profile. The drum was removed by Clearwater Environmental and transferred to Alviso Independent Oil in Alivso, California for disposal on April 24, 2008. The non-hazardous waste manifest is included in Appendix C.

Chemical Analysis

Soil and groundwater samples were submitted to McCampbell Analytical, Inc., for the following analyses:

- Volatile Organic Compounds (VOCs) limited to Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX), fuel oxygenates (tertiary-Amyl Methyl Ether, tertiary-Butyl Alcohol, Diisopropyl Ether, Ethyl tertiary-Butyl Ether and Methyl tertiary-Butyl Ether), Ethylene Dibromide, and 1, 2-Dichloroethane using EPA Method 8260B;
- Total Petroleum Hydrocarbons in the Gasoline range (TPHg) using EPA Method 8015Cm; and
- Total Petroleum Hydrocarbons in the Diesel range (TPHd) using EPA Method 8015C

Soil samples were also analyzed for total lead using EPA Method 6020A.

Results

The analytical results for soil samples collected on April 3, 2008, are summarized on Table 1. The results for groundwater samples collected on April 3, 2008, are summarized on Table 2. The analytical report from McCampbell Analytical, Inc. is included in Appendix D.

Analytical results are compared to Environmental Screening Levels (ESLs) established by the San Francisco Bay Regional Water Quality Control Board (RWQCB). For the purposes of this investigation, the ESLs established for shallow soil in residential areas where groundwater is a current or potential source of drinking water were used. RWQCB ESLs do not represent regulatory action levels for contaminants, however they provide a guideline from which to assess risk factors associated with the presence of chemicals in soil, groundwater and soil gas.

A total of two soil samples were collected and analyzed for VOCs, TPHg, TPHd and total lead. VOCs, TPHg and TPHd were not detected at or above laboratory reporting limits in the two soil samples submitted. Total lead was detected at concentrations below its ESL.

One groundwater sample was collected and analyzed for VOCs, TPHg and TPHd. VOCs, TPHg and TPHd were not detected at or above laboratory reporting limits in the groundwater sample submitted.

Conclusions and Recommendations

Based on the results of this investigation, it does not appear that soil and groundwater beneath the site have been impacted by releases from the former USTs on the site. Kleinfelder recommends no further action with respect to the former underground storage tanks on the Fire Station No. 1 site.

Limitations

Kleinfelder prepared this report in accordance with generally accepted standards of care that exist in Alameda County at this time. This report may be used only by the City of Pleasanton 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 City of Pleasanton or as required by law. Non-compliance with any

of these requirements by the City of Pleasanton 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 City of Pleasanton 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 City of Pleasanton 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 City of Pleasanton 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 City of Pleasanton 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.

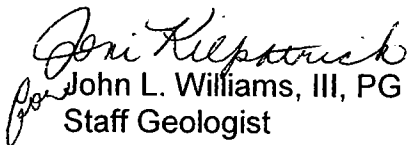
Regulations and professional standards applicable to Kleinfelder's services are continually evolving. Techniques are, by necessity, often new and relatively untried. Different professionals may reasonably adopt different approaches to similar problems. As such, our services are intended to provide the City of Pleasanton with a source of professional advice, opinions and recommendations. Our professional opinions and recommendations are 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 City of Pleasanton. Consequently, no warranty or guarantee, expressed or implied, is intended or made.

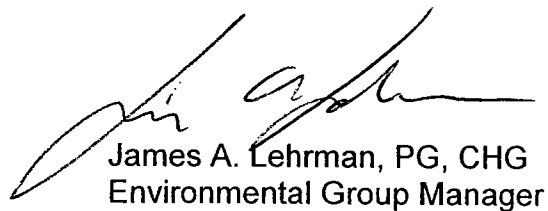
Closing Remarks

We appreciate the opportunity to work with you on this project. If you have any questions regarding this letter report, please call Jim Lehrman or John Williams at (925) 484-1700.

Respectfully submitted,

KLEINFELDER WEST, INC.


John L. Williams, III, PG
Staff Geologist


James A. Lehrman, PG, CHG
Environmental Group Manager



JLW/JAL/jmk

Attachments: Table 1 – Summary of Soil Analytical Results, Fire Station No. 1
Table 2 – Summary of Groundwater Analytical Results, Fire Station No. 1
Plate 1 – Site Vicinity Map
Plate 2 – Site Plan
Appendix A – Drilling Permit from Zone 7 Water Agency
Appendix B – Soil Boring Logs
Appendix C – Non-Hazardous Waste Manifest
Appendix D – Laboratory Analytical Report

TABLES

**TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
FIRE STATION NO. 1
PLEASANTON, CALIFORNIA**

Analyte		Sample ID and Date		RWQCB - ESLs	Hazardous Waste Criteria	
		RR-2-10 4/3/2008	RR-2-30 4/3/2008	Residential Land Use 2007	TTLc	STLC x 10
Total Lead (mg/kg)	6020A	4.0	6.7	200	1,000	50
Petroleum Hydrocarbons (mg/kg)	8015C					
TPH (Gasoline)		ND (<1.0)	ND (<1.0)	83	---	---
TPH (Diesel)		ND (<1.0)	ND (<1.0)	83	---	---
BTEX and Oxygenates (mg/kg)	8260B					
Benzene		ND (<0.005)	ND (<0.005)	1.0	---	---
Toluene		ND (<0.005)	ND (<0.005)	40	---	---
Ethylbenzene		ND (<0.005)	ND (<0.005)	30	---	---
Total Xylenes		ND (<0.005)	ND (<0.005)	20	---	---
tert-Amyl Methyl Ether (TAME)		ND (<0.005)	ND (<0.005)	NE	---	---
tert-Butyl Alcohol (TBA)		ND (<0.05)	ND (<0.05)	NE	---	---
Diisopropyl Ether (DIPE)		ND (<0.005)	ND (<0.005)	NE	---	---
Ethyl tert-Butyl Ether (ETBE)		ND (<0.005)	ND (<0.005)	NE	---	---
Methyl tert-Butyl Ether (MTBE)		ND (<0.005)	ND (<0.005)	5.0	---	---
Ethylene Dibromide		ND (<0.004)	ND (<0.004)	0.05	---	---
1, 2-Dichloroethane		ND (<0.004)	ND (<0.004)	0.5	---	---

Samples were analyzed by McCampbell Analytical, Inc of Pittsburg, California, a state-certified analytical laboratory. Laboratory data met EPA and laboratory specifications for quality assurance and quality control.

¹ California Regional Water Quality Control Board, San Francisco Bay Region. *Screening For Environmental Concerns at Sites with Contaminated Soil and Groundwater, Volume 1: Summary Tier 1 Lookup Tables, Shallow Soils, Groundwater is Current or Potential Source of Drinking Water*, Interim Final, November 2007.

Acronyms/Abbreviations:

- mg/kg - milligrams per kilogram
- mg/L - milligrams per liter
- ESLs - Environmental Screening Levels
- RWQCB - Regional Water Quality Control Board (San Francisco Bay Region)
- ND - Not detected at or above laboratory reporting limit
- NE - Not established

**TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FIRE STATION NO. 1
PLEASANTON, CALIFORNIA**

Analyte	Method	Sample ID and Date	RWQCB - ESLs ¹
		RR-2 4/3/2008	Residential Land Use 2007
Petroleum Hydrocarbons (µg/L)	8015C		
TPH (Gasoline)		ND (<50)	83
TPH (Diesel)		ND (<50)	83
Volatile Organic Compounds (µg/L)	8260B		
Benzene		ND (<0.5)	1.0
Toluene		ND (<0.5)	40
Ethylbenzene		ND (<0.5)	30
Total Xylenes		ND (<0.5)	20
tert-Amyl Methyl Ether (TAME)		ND (<0.5)	NE
tert-Butyl Alcohol (TBA)		ND (<2.0)	NE
Diisopropyl Ether (DIPE)		ND (<0.5)	NE
Ethyl tert-Butyl Ether (ETBE)		ND (<0.5)	NE
Methyl tert-Butyl Ether (MTBE)		ND (<0.5)	5.0
Ethylene Dibromide		ND (<0.5)	0.05
1, 2-Dichloroethane		ND (<0.5)	0.5

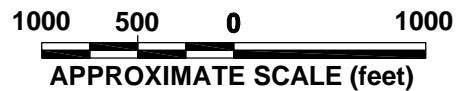
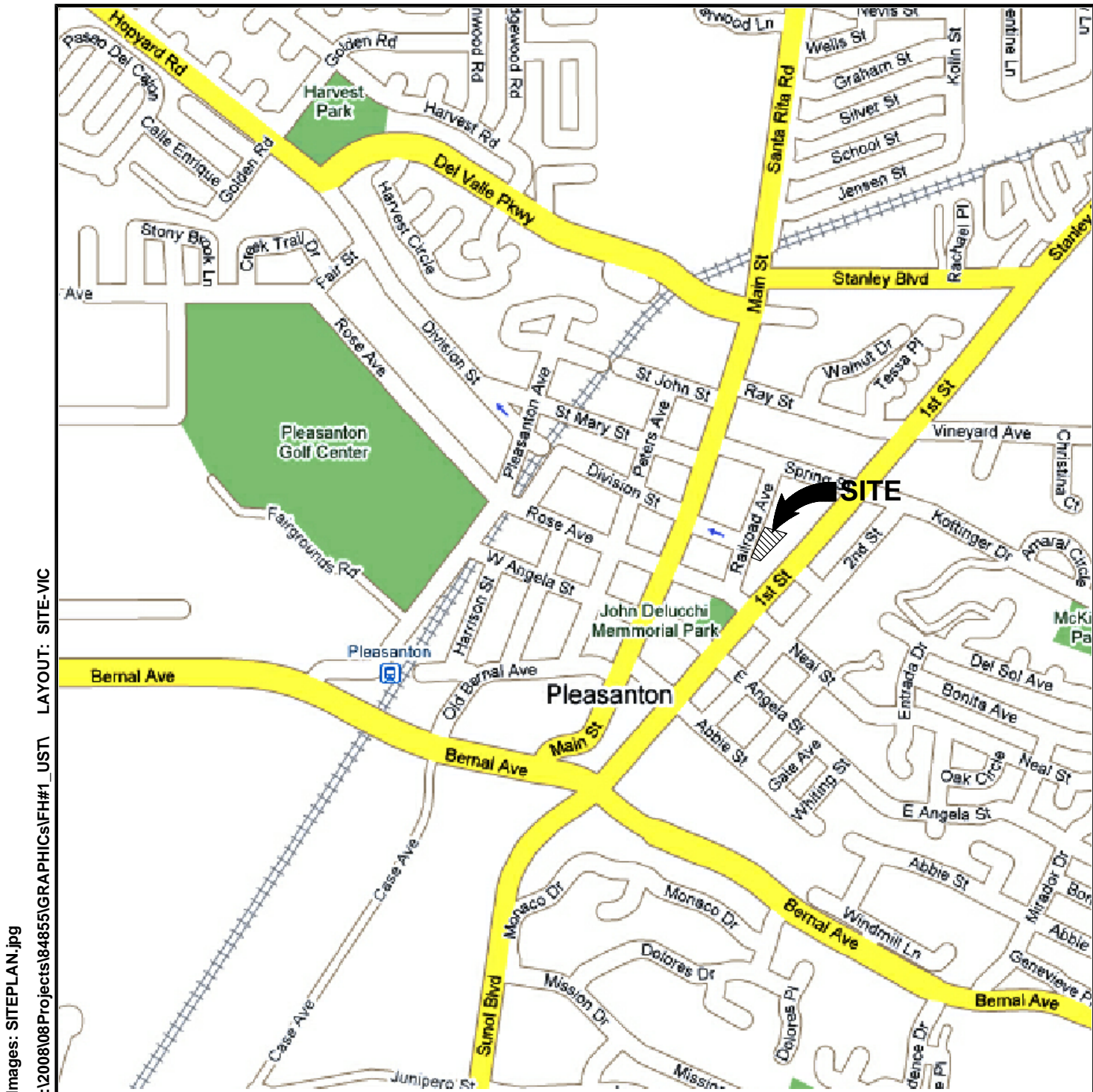
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- ND - Not detected at or above laboratory reporting limit
- NE - Not established

PLATES



REFERENCE:
www.google.com, 2006

ATTACHED IMAGES: Images: SITE-VIC.jpg Images: SITEPLAN.jpg
 ATTACHED XREFS: XRef: Style A_08x11
 CAD FILE: L:\2008\08Projects\84855\GRAPHICS\FH#1_UST_LAYOUT: SITE-VIC
 PLEASANTON

KLEINFELDER 7133 Koll Center Parkway, Suite 100 Pleasanton, CA 94566 PH. (925) 484-1700 FAX. (925) 484-5838 www.kleinfelder.com	SITE VICINITY MAP		DRAWN BY: LGS
	PLEASANTON FIREHOUSE #1 4444 RAILROAD AVENUE PLEASANTON, CALIFORNIA		REVISED BY:
CHECKED BY: JAL PLATE <div style="text-align: center; font-size: 2em; font-weight: bold;">1</div>			
DRAWN: APR 2008 APPROVED BY:	PROJECT NO. 84855 FILE NAME: FH#1_UST.dwg		

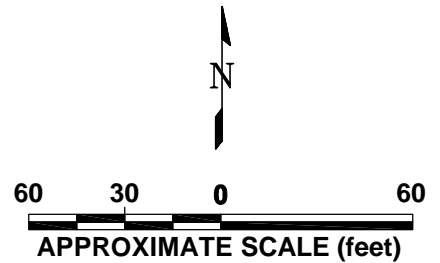
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 ATTACHED XREFS: XRef: Style A_08x11
 CAD FILE: L:\2008\08Projects\84855\GRAPHICS\FH#1_UST LAYOUT: SITEPLAN
 PLEASANTON



LEGEND

- · · · — PROPERTY LINE
- ▣ STORM DRAIN INLET
- **RR-2** SOIL BORING (by Kleinfelder, 2008)
- ◆ **RR-1** SOIL BORING (by Kleinfelder, 2007)

NOTE: Locations are approximate.



REFERENCE:
 googleeearthpro, 2008

<p>KLEINFELDER</p> <p>7133 Koll Center Parkway, Suite 100 Pleasanton, CA 94566 PH. (925) 484-1700 FAX. (925) 484-5838 www.kleinfelder.com</p>	<p>SITE PLAN</p>	<p>DRAWN BY: LGS</p> <p>REVISED BY:</p> <p>CHECKED BY: JAL</p>
	<p>PLEASANTON FIREHOUSE #1 4444 RAILROAD AVENUE PLEASANTON, CALIFORNIA</p>	<p>2</p>
<p>DRAWN: APR 2008 APPROVED BY: _____</p>	<p>PROJECT NO. 84855 FILE NAME: FH#1_UST.dwg</p>	

APPENDIX A



ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306

E-MAIL whong@zone7water.com

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 4444 RAILROAD AVE
PLEASANTON, CA 94566

PERMIT NUMBER 28036
WELL NUMBER _____
APN 094-0105-001-00

California Coordinates Source _____ ft. Accuracy _____ ft.
CCN _____ ft. CCE _____ ft.
APN 094-0106-008-08

PERMIT CONDITIONS

(Circled Permit Requirements Apply)

CLIENT
Name CITY OF PLEASANTON
Address 200 OLD BERNAL AVE Phone 925-931-5684
City PLEASANTON Zip 94566

- A. GENERAL**
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
 3. Permit is void if project not begun within 90 days of approval date.

APPLICANT
Name JOHN WILLIAMS - KLEINFELDER
Email JLWilliams@kleinfelder.com Fax 925-484-5838
Address 7133 KOLL CENTER PKWY STE 100 Phone 925-484-1700
City PLEASANTON Zip 94566

- B. WATER SUPPLY WELLS**
1. Minimum surface seal diameter is four inches greater than the well casing diameter.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
 3. Grout placed by tremie.
 4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
 5. A sample port is required on the discharge pipe near the wellhead.

TYPE OF PROJECT:
Well Construction .. Geotechnical Investigation ..
Well Destruction .. Contamination Investigation ..
Cathodic Protection .. Other ..

- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
 3. Grout placed by tremie.

PROPOSED WELL USE:
Domestic .. Irrigation ..
Municipal .. Remediation ..
Industrial .. Groundwater Monitoring ..
Dewatering .. Other ..

- D. GEOTECHNICAL.** Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

DRILLING METHOD:
Mud Rotary .. Air Rotary .. Hollow Stem Auger ..
Cable Tool .. Direct Push .. Other ..

- E. CATHODIC.** Fill hole above anode zone with concrete placed by tremie.

DRILLING COMPANY VIRONEX
DRILLER'S LICENSE NO. 705927

- F. WELL DESTRUCTION.** See attached.

WELL SPECIFICATIONS:
Drill Hole Diameter _____ in. Maximum _____ ft.
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number _____

- G. SPECIAL CONDITIONS.** Submit to Zone 7 within 60 days after completion of permitted work the well installation report including all soil and water laboratory analysis results.

SOIL BORINGS:
Number of Borings 1 Maximum Depth 45 ft.
Hole Diameter 3 in. Depth _____ ft.

ESTIMATED STARTING DATE 4/3/08
ESTIMATED COMPLETION DATE 4/3/08

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

Approved Wyman Hong Date 3/25/08

APPLICANT'S SIGNATURE John Williams Date 3/24/08

ATTACH SITE PLAN OR SKETCH

APPENDIX B

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS		LTR	ID	DESCRIPTION	MAJOR DIVISIONS	LTR	ID	DESCRIPTION
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY		GW	Well-graded gravels or gravel with sand, little or no fines.	FINE GRAINED SOILS		ML	Inorganic silts and very fine sands, rock flour or clayey silts with slight plasticity.
			GP	Poorly-graded gravels or gravel with sand, little or no fines.		CL	Inorganic lean clays of low to medium plasticity, gravelly clays, sandy clays, silty clays.	
			GM	Silty gravels, silty gravel with sand mixture.		OL	Organic silts and organic silt-clays of low plasticity.	
			GC	Clayey gravels, clayey gravel with sand mixture.		MH	Inorganic elastic silts, micaceous or diatomaceous or silty soils.	
	SAND AND SANDY		SW	Well-graded sands or gravelly sands, little or no fines.		CH	Inorganic fat clays (high plasticity).	
			SP	Poorly-graded sands or gravelly sands, little or no fines.		OH	Organic clays of medium high to high plasticity.	
			SM	Silty sand.				
			SC	Clayey sand.		Pt	Peat and other highly organic soils.	



- Geoprobe, Direct Push Sample
- Large Bore Discrete Soil Sampler, 1.5 in. O.D., 1.12 in. I.D.
- Modified California Sampler, 2.5 in. O.D., 2 in. I.D.
- California Sampler, 3.0 in. dia.
- Shelby Tube 3.0 inch O.D.



- Blank casing
- Screened casing
- Cement grout
- Bentonite
- Sand pack or gravel pack

- OVA Organic Vapor Analyzer
- PID Total organic vapors (parts per million) measured by a photo-ionization device
- FID Total Organic vapors (parts per million) measured by a flame-ionization device
- NA Not Applicable

- Sharp Contact (observed)
- Inferred Contact (contact not observed)
- Gradational Contact (observed)
- Water level observed in boring
- Stabilized water level
- NFWE No free water encountered

Notes: Blow counts represent the number of blows a 140-pound hammer falling 30 inches required to drive a sampler through the last 12 inches of an 18 inch penetration.

The lines separating strata on the logs represent approximate boundaries only. The actual transition may be gradual. No warranty is provided as to the continuity of soil strata between borings. Logs represent the soil section observed at the boring location on the date of drilling only.

References to plasticity of cohesive soils are based on qualitative field observations and not on quantitative field or laboratory tests. Qualitative soil plasticity is noted solely to aid in stratigraphic correlation and is not intended for geotechnical characterization of soils.

KLEINFELDER	BORING LOG LEGEND	PLATE
	PLEASANTON FIREHOUSE #1 4444 RAILROAD AVENUE PLEASANTON, CALIFORNIA	
PROJECT NO. 84855		

Date Completed: **6/26/07**

Drilling method: **Direct Push - Geoprobe 5400**

Logged By: **J. Williams**

Fisch Environmental

Total Depth: **28.0 ft**

Hammer Wt: **None**

Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
1							ASPHALT CONCRETE - 2 inches thick		
2							AGGREGATE BASE - dark brown (2.5Y 4/3), dry, loose, well graded, with fines		
3									
4				88	0.0		GRAVELLY SAND with FINES (SP) - dark olive-brown (2.5Y 3/3), moist, loose, poorly graded (FILL)		
5									
6									
7									
8				75	0.0		FINE SAND with CLAY (SC) - dark yellowish-brown (10YR 3/4), moist, loose, poorly graded, with gravel 1 to 3 cm		
9							- increasing gravel content (approximately 20%)		
10									
11									
12				100	0.0				
13									
14									
15									
16				100	0.6		COARSE SAND with GRAVEL and FINES (SW) - dark yellowish-brown (10YR 4/6), moist, loose, well graded (approximately 15% gravel)		
17									
18									
19									
20				100	0.0		SANDY CLAY (CL) - dark yellowish-brown (10YR 4/6), moist, medium stiff		
21									
22									
23									
24				100	0.4		FINE SAND with CLAY (SP) - dark yellowish-brown (10YR 4/6), moist, loose, poorly graded		
25									
26									
27							- yellowish-brown (10YR 5/6)		
28	RR-1--28			100					
29							Refusal at approximately 28 feet below ground surface. Boring backfilled with neat cement grout.		
30									
31									
32									
33									
34									
35									

KLEINFELDER

LOG OF BORING NO. RR-1

PLATE

PROJECT NO. **84855**

PLEASANTON FIREHOUSE #1
4444 RAILROAD AVENUE
PLEASANTON, CALIFORNIA

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4/18/2008 11:49:34 AM

Date Completed: **4/3/08**

Drilling method: **Direct Push - Geoprobe 6600**

Logged By: **J. Williams**

Vironex

Total Depth: **55.0 ft**

Hammer Wt: **None**

Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
1							ASPHALT CONCRETE - 4 inches thick		
2							AGGREGATE BASE - olive-brown (2.5Y 4/3), moist, loose, well graded		
3							FINE SAND with CLAY (SP) - olive-brown (2.5Y 4/4), moist, loose, poorly graded		
4									
5				80	0.0				
6									
7									
8							CLAYEY SAND (SC) - dark yellowish-brown (10YR 3/4), very moist, loose, fine grained, poorly graded		
9									
10	RR-2--10			70	0.0		SILTY SAND with CLAY and GRAVEL (SM) - yellowish-brown (10YR 5/6), slightly moist, dense, poorly graded - increasing clay content		
11									
12									
13									
14									
15				80	0.0				
16									
17									
18									
19									
20				80	0.0				
21									
22							SANDY CLAY (CL) - light yellowish-brown (10YR 6/4), moist, stiff		
23									
24									
25				80	0.0				
26									
27									
28							CLAYEY SAND (SC) - yellowish-brown (10YR 5/6), moist, dense, poorly graded		
29									
30	RR-2--30			50	0.0				
31									
32									
33									
34									
35									

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KLEINFELDER

LOG OF BORING NO. RR-2

PLATE

PROJECT NO. **84855**

PLEASANTON FIREHOUSE #1
4444 RAILROAD AVENUE
PLEASANTON, CALIFORNIA

Date Completed: **4/3/08**

Drilling method: **Direct Push - Geoprobe 6600**

Logged By: **J. Williams**

Vironex

Total Depth: **55.0 ft**

Hammer Wt: **None**

Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
36				80	0.0		CLAYEY SAND (SC) - continued		
37									
38									
39							COARSE SAND with CLAY (SW)- dark yellowish-brown (10YR 4/6), very moist, very dense, well graded		
40				40	0.0				
41									
42									
43									
44							- increasing clay content		
45				40	0.0				
46								▽	
47							SANDY CLAY (CL) - dark yellowish-brown (10YR 4/6), wet, soft, coarse sand grains, expansive clay		
48									
49									
50				80	0.0				
51									
52									
53							COARSE SAND with CLAY (SW)- dark yellowish-brown (10YR 4/6), saturated, very loose, well graded		
54									
55				40	0.0		SANDY CLAY (CL) - dark yellowish-brown (10YR 4/6), wet, medium stiff		
56									
57							Boring terminated at approximately 55 feet below ground surface.		
58							Boring backfilled with neat cement grout.		
59									
60									
61									
62									
63									
64									
65									
66									
67									
68									
69									
70									

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<h1 style="margin: 0;">KLEINFELDER</h1>	LOG OF BORING NO. RR-2	PLATE
	PLEASANTON FIREHOUSE #1 4444 RAILROAD AVENUE PLEASANTON, CALIFORNIA	(cont'd)
PROJECT NO. 84855		


4/18/2008 11:49:35 AM

APPENDIX C

484-5838

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	2. Page 1 of 1	3. Document Number 6035
4. Generator's Name and Mailing Address City of Pleasanton Headquarters 5000 NEVADA ST Pleasanton CA Generator's Phone (925) 625-1736 94566		7. Transporter Phone FIS #3 3200 Santa Rita Rd Pleasanton (510) 476-1740		
5. Transporter Company Name CLEARWATER ENVIRONMENTAL	6. US EPA ID Number CAR000007013	10. Facility's Phone (510) 476-1740		
8. Designated Facility Name and Site Address ALVISO INDEPENDENT OIL 5002 ARCHER STREET ALVISO, CA 95002	9. US EPA ID Number CAL000161743	11. Waste Shipping Name and Description a. Non-Hazardous waste - solid		
		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
		001 dm	300	P
15. Special Handling Instructions and Additional Information Wear PPE Emergency Contact (510) 476-1740 Attn: Kirk Hayward		Handling Codes for Wastes Listed Above 11a. AL-011 11b.		
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to state or federal regulations for reporting proper disposal of Hazardous Waste.				
Printed/Typed Name MELISSA NEWTON		Signature 		
17. Transporter Acknowledgement of Receipt of Materials		Month Day Year 4 23 08		
Printed/Typed Name William Clark		Signature 		
18. Discrepancy Indication Space		Month Day Year 4 23 08		
19. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 18.				
Printed/Typed Name KIRK HAYWARD		Signature 		
		Month Day Year 4 24 08		

APPENDIX D

 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	
Kleinfelder, Inc. 7133 Koll Center Pkwy, #100 Pleasanton, CA 94566	Client Project ID: # 84855/FS #1 UST; Pleasanton Firehouse#1	Date Sampled: 04/03/08	
	Client Contact: Jim Lehrman	Date Received: 04/03/08	
	Client P.O.:	Date Reported: 04/10/08	
		Date Completed: 04/10/08	

WorkOrder: 0804108

April 10, 2008

Dear Jim:

Enclosed within are:

- 1) The results of the 3 analyzed samples from your project: # 84855/FS #1 UST; Pleasanton Fire
- 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.

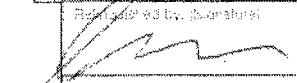
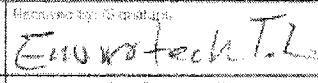
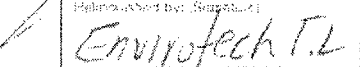
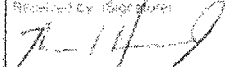
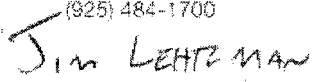
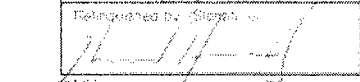

Best regards,



Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.

0804108

PROJECT NO.		PROJECT NAME		NO. OF CONTAINERS	TYPE OF CONTAINERS	ANALYSIS						RECEIVING LAB	
84855/FS#1 UST		PLEASANTON FIRE HOUSE #1				TPH ₃ (GS)	TPH ₄ (GS)	BTEX+DXYS (BW)	ETHYLENE DIBROMIDE	L.L-DCA (GS)	TOTAL LEAD (GS)	McCAMPBELL	INSTRUCTIONS/REMARKS
DATE RECEIVED	SAMPLE ID TIME (HH:MM:SS)	SAMPLE ID	MATRIX								STANDARD TAT		
4/3/08	0726	RR-2-10	S	1	TUBE	X	X	X	X	X			
4/3/08	0808	RR-2-30	S	1	JAR	X	X	X	X	X			
4/3/08	1310	RR-2	W	5	M/USA	X	X	X	X				
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> ICE 9.0 GOOD CONDITION <input checked="" type="checkbox"/> HEAD SPACE ABSENT <input checked="" type="checkbox"/> DECHLORINATED IN LAB <input checked="" type="checkbox"/> PRESERVATION <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </div> <div style="display: inline-block; vertical-align: top; margin-left: 10px;"> APPROPRIATE CONTAINERS <input checked="" type="checkbox"/> PRESERVED IN LAB <input checked="" type="checkbox"/> VOLATILES METALS OTHER <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> </div>													

Released by: 	Date/Time: 4/3/08/17:51	Received by: 	Instructions/Remarks: EMAIL RESULTS TO: JLehrman@KleinFelder.com JWilliams@KleinFelder.com -SEPARATE WORK ORDERS-	Send Results To: KLEINFELDER 7133 KOLL CENTER PARKWAY SUITE 100 PLEASANTON, CA 94566 (925) 484-1700
Released by: 	Date/Time: 4/3/08/18:11	Received by: 	Attn: 	
Released by: 	Date/Time: 4/3/08/12:30	Received by: 		

McC Campbell Analytical, Inc.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0804108

ClientCode: KFP

WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:

Jim Lehrman
 Kleinfelder, Inc.
 7133 Koll Center Pkwy, #100
 Pleasanton, CA 94566

Email: jlehrman@kleinfelder.com
 TEL: (925) 484-1700 FAX: (925) 484-5838
 PO:
 ProjectNo: # 84855/FS #1 UST; Pleasanton
 Firehouse#1

Bill to:

Accounts Payable
 Kleinfelder Inc.
 7133 Koll Center Pkwy, #100
 Pleasanton, CA 94566
 SEND HARDCOPY

Requested TAT: 5 days

Date Received: 04/03/2008

Date Printed: 04/07/2008

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
0804108-001	RR-2-10	Soil	4/3/2008 7:26	<input type="checkbox"/>	A		A		A							
0804108-002	RR-2-30	Soil	4/3/2008 8:08	<input type="checkbox"/>	A		A		A							
0804108-003	RR-2	Water	4/3/2008 13:10	<input type="checkbox"/>		A		B								

Test Legend:

1	G-MBTEX_S	2	G-MBTEX_W	3	MBTEXOXY-8260B_S	4	MBTEXOXY-8260B_W	5	PBMS_S
6		7		8		9		10	
11		12							

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

Prepared by: Kimberly Burks

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: **Kleinfelder, Inc.**

Date and Time Received: **4/3/2008 8:39:58 PM**

Project Name: **# 84855/FS #1 UST; Pleasanton Firehouse#1**

Checklist completed and reviewed by: **Kimberly Burks**

WorkOrder N°: **0804108** Matrix Soil/Water

Carrier: Michael Hernandez (MAI Courier)

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: 9.6°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

Client contacted:

Date contacted:

Contacted by:

Comments:



McC Campbell Analytical, Inc.

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

Kleinfelder, Inc. 7133 Koll Center Pkwy, #100 Pleasanton, CA 94566	Client Project ID: # 84855/FS #1 UST; Pleasanton Firehouse#1	Date Sampled: 04/03/08
	Client Contact: Jim Lehman	Date Received: 04/03/08
	Client P.O.:	Date Extracted: 04/03/08-04/04/08
		Date Analyzed: 04/04/08

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method SW5030B

Analytical methods SW8015Cm

Work Order: 0804108

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	RR-2-10	S	ND	1	92
002A	RR-2-30	S	ND	1	91
003A	RR-2	W	ND,i	1	92

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	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 with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell 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) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.



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Kleinfelder, Inc. 7133 Koll Center Pkwy, #100 Pleasanton, CA 94566	Client Project ID: # 84855/FS #1 UST; Pleasanton Firehouse#1	Date Sampled: 04/03/08
		Date Received: 04/03/08
	Client Contact: Jim Lehman	Date Extracted: 04/07/08
	Client P.O.:	Date Analyzed: 04/09/08

Oxygenates and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0804108

Lab ID	0804108-001A	0804108-002A			Reporting Limit for DF =1	
Client ID	RR-2-10	RR-2-30				
Matrix	S	S				
DF	1	1				S

Compound	Concentration				mg/kg	ug/L
tert-Amyl methyl ether (TAME)	ND	ND			0.005	NA
Benzene	ND	ND			0.005	NA
t-Butyl alcohol (TBA)	ND	ND			0.05	NA
1,2-Dibromoethane (EDB)	ND	ND			0.004	NA
1,2-Dichloroethane (1,2-DC A)	ND	ND			0.004	NA
Diisopropyl ether (DIPE)	ND	ND			0.005	NA
Ethylbenzene	ND	ND			0.005	NA
Ethyl tert-butyl ether (ETBE)	ND	ND			0.005	NA
Methyl-t-butyl ether (MTBE)	ND	ND			0.005	NA
Toluene	ND	ND			0.005	NA
Xylenes	ND	ND			0.005	NA

Surrogate Recoveries (%)

%SS1:	92	94		
%SS2:	96	96		
%SS3:	94	94		

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.

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.



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Kleinfelder, Inc. 7133 Koll Center Pkwy, #100 Pleasanton, CA 94566	Client Project ID: # 84855/FS #1 UST; Pleasanton Firehouse#1	Date Sampled: 04/03/08
		Date Received: 04/03/08
	Client Contact: Jim Lehrman	Date Extracted: 04/09/08
	Client P.O.:	Date Analyzed: 04/09/08

Oxygenates and BTEX by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0804108

Lab ID	0804108-003B				Reporting Limit for DF =1	
Client ID	RR-2					
Matrix	W					
DF	1					S

Compound	Concentration				ug/kg	ug/L
tert-Amyl methyl ether (TAME)	ND				NA	0.5
Benzene	ND				NA	0.5
t-Butyl alcohol (TBA)	ND				NA	2.0
1,2-Dibromoethane (EDB)	ND				NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND				NA	0.5
Diisopropyl ether (DIPE)	ND				NA	0.5
Ethylbenzene	ND				NA	0.5
Ethyl tert-butyl ether (ETBE)	ND				NA	0.5
Methyl-t-butyl ether (MTBE)	ND				NA	0.5
Toluene	ND				NA	0.5
Xylenes	ND				NA	0.5

Surrogate Recoveries (%)

%SS1:	100				
%SS2:	95				
%SS3:	93				
Comments	i				

* 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.

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.



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Kleinfelder, Inc. 7133 Koll Center Pkwy, #100 Pleasanton, CA 94566	Client Project ID: # 84855/FS #1 UST; Pleasanton Firehouse#1	Date Sampled: 04/03/08
	Client Contact: Jim Lehrman	Date Received: 04/03/08
	Client P.O.:	Date Extracted: 04/03/08
		Date Analyzed 04/04/08

Lead by ICP-MS*

Extraction method SW3050B

Analytical methods 6020A

Work Order: 0804108

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS
0804108-001A	RR-2-10	S	TOTAL	4.0	1	119
0804108-002A	RR-2-30	S	TOTAL	6.7	1	121

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	µg/L
	S	TOTAL	0.5	mg/Kg

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

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

TOTAL = acid digestion.
WET = Waste Extraction Test (STLC).
DI WET = Waste Extraction Test using de-ionized water.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TOTAL metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

**McC Campbell Analytical, Inc.**

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Kleinfelder, Inc. 7133 Koll Center Pkwy, #100 Pleasanton, CA 94566	Client Project ID: # 84855/FS #1 UST; Pleasanton Firehouse#1	Date Sampled: 04/03/08
	Client Contact: Jim Lehrman	Date Received: 04/03/08
	Client P.O.:	Date Extracted: 04/03/08
		Date Analyzed 04/04/08-04/05/08

Total Extractable Petroleum Hydrocarbons*

Extraction method SW3510C/SW3550C Analytical methods SW8015C Work Order: 0804108

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS
0804108-001A	RR-2-10	S	ND	1	118
0804108-002A	RR-2-30	S	ND	1	118
0804108-003A	RR-2	W	ND,i	1	114

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	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: 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.



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0804108

EPA Method SW8015C	Extraction SW3550C			BatchID: 34745			Spiked Sample ID: 0804017-001A					
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)	15	20	119	104	8.01	118	118	0	70 - 130	30	70 - 130	30
%SS:	99	50	105	102	3.55	107	105	2.15	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 34745 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804108-001A	04/03/08 7:26 AM	04/03/08	04/05/08 7:18 AM	0804108-002A	04/03/08 8:08 AM	04/03/08	04/04/08 7:50 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.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0804108

Analyte	EPA Method SW8015Cm		Extraction SW5030B			BatchID: 34794			Spiked Sample ID: 0804076-005A			
	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	108	114	5.96	103	105	1.72	70 - 130	20	70 - 130	20
MTBE	ND	0.10	105	117	11.5	113	116	2.64	70 - 130	20	70 - 130	20
Benzene	ND	0.10	94.8	111	15.3	96.6	101	3.96	70 - 130	20	70 - 130	20
Toluene	ND	0.10	88.9	103	14.6	92.2	94	1.90	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	98.4	107	8.51	100	102	1.70	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	93.3	102	8.86	96.1	96.6	0.475	70 - 130	20	70 - 130	20
%SS:	91	0.10	87	95	8.33	93	95	2.33	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 34794 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804108-001A	04/03/08 7:26 AM	04/03/08	04/04/08 3:17 PM	0804108-002A	04/03/08 8:08 AM	04/03/08	04/04/08 3:48 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.



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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0804108

EPA Method SW8015C	Extraction SW3510C			BatchID: 34807			Spiked Sample ID: N/A					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	109	110	1.00	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	115	117	1.82	N/A	N/A	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 34807 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804108-003A	04/03/08 1:10 PM	04/03/08	04/05/08 3:53 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.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0804108

Analyte	EPA Method SW8015Cm			Extraction SW5030B			BatchID: 34816			Spiked Sample ID: 0804111-001A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)				
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
TPH(btex) [£]	ND	60	104	103	1.28	83.1	81.5	1.91	70 - 130	20	70 - 130	20	
MTBE	ND	10	72.3	70.1	2.17	94.5	97.6	3.30	70 - 130	20	70 - 130	20	
Benzene	ND	10	103	95.5	7.63	95.9	102	6.03	70 - 130	20	70 - 130	20	
Toluene	ND	10	99.4	93	6.65	93.7	99.6	6.12	70 - 130	20	70 - 130	20	
Ethylbenzene	ND	10	103	97.1	6.05	94.8	99	4.30	70 - 130	20	70 - 130	20	
Xylenes	ND	30	97.7	93.4	4.48	87.7	90.4	2.97	70 - 130	20	70 - 130	20	
%SS:	88	10	116	113	2.09	108	112	2.95	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 34816 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804108-003A	04/03/08 1:10 PM	04/04/08	04/04/08 4:02 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, or inconsistency in sample containers.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0804108

Analyte	Extraction SW5030B			BatchID: 34782					Spiked Sample ID: 0804063-007A			
	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	91.8	91.2	0.584	91	93.7	2.97	60 - 130	30	60 - 130	30
Benzene	ND	0.050	93.2	96.9	3.90	93	89.7	3.65	60 - 130	30	60 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	120	98.8	19.2	114	125	9.41	60 - 130	30	60 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	115	117	1.67	117	112	3.93	60 - 130	30	60 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	110	114	3.99	108	106	2.08	60 - 130	30	60 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	96.6	98.8	2.26	93.5	94.8	1.37	60 - 130	30	60 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	111	95.7	15.1	103	101	1.61	60 - 130	30	60 - 130	30
Toluene	ND	0.050	90.1	94.7	4.98	88.8	86.1	3.08	60 - 130	30	60 - 130	30
%SS1:	95	0.050	100	100	0	113	111	1.53	70 - 130	30	70 - 130	30
%SS2:	100	0.050	99	100	0.802	99	101	1.41	70 - 130	30	70 - 130	30
%SS3:	97	0.050	104	104	0	105	105	0	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 34782 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804108-001A	04/03/08 7:26 AM	04/07/08	04/09/08 5:17 PM	0804108-002A	04/03/08 8:08 AM	04/07/08	04/09/08 5:59 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 SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0804108

Analyte	EPA Method SW8260B			Extraction SW5030B			BatchID: 34812			Spiked Sample ID: 0804122-006B			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)				
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD	
tert-Amyl methyl ether (TAME)	ND	10	92.2	95.4	3.42	86.9	85.9	1.09	70 - 130	30	70 - 130	30	
Benzene	ND	10	99.1	103	3.82	96.3	96.1	0.191	70 - 130	30	70 - 130	30	
t-Butyl alcohol (TBA)	ND	50	96.2	113	15.7	104	87.6	17.4	70 - 130	30	70 - 130	30	
1,2-Dichloroethane (1,2-DCA)	ND	10	114	120	4.88	123	121	1.85	70 - 130	30	70 - 130	30	
Diisopropyl ether (DIPE)	ND	10	116	120	3.92	118	110	6.22	70 - 130	30	70 - 130	30	
Ethyl tert-butyl ether (ETBE)	ND	10	101	102	1.72	91.1	90.6	0.587	70 - 130	30	70 - 130	30	
Methyl-t-butyl ether (MTBE)	ND	10	96.1	102	5.74	91.3	89.2	2.31	70 - 130	30	70 - 130	30	
Toluene	ND	10	98.9	101	2.06	93.2	96.8	3.78	70 - 130	30	70 - 130	30	
%SS1:	103	10	98	97	0.414	107	110	2.86	70 - 130	30	70 - 130	30	
%SS2:	102	10	102	101	1.12	101	102	1.16	70 - 130	30	70 - 130	30	
%SS3:	94	10	106	106	0	106	105	0.935	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 34812 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804108-003B	04/03/08 1:10 PM	04/09/08	04/09/08 5:45 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.

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



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QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 0804108

EPA Method 6020A		Extraction SW3050B				BatchID: 34784			Spiked Sample ID 0804063-008A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Lead	15	50	98	106	5.73	10	102	100	1.68	70 - 130	20	80 - 120	20
%SS:	117	250	121	130	6.67	250	118	116	1.81	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 34784 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804108-001A	04/03/08 7:26 AM	04/03/08	04/04/08 10:18 PM	0804108-002A	04/03/08 8:08 AM	04/03/08	04/04/08 10:26 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 applicable to this method.

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.

JR