ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

REMEDIAL ACTION COMPLETION CERTIFICATION

February 17, 2011

Mr. James Soutter *(Sent via E-mail to: James_Soutter@equityoffice.com)*
Equity Office Properties
2655 Campus Drive, Suite 100
San Mateo, CA 94403

Mr. Francis J. Meynard
700 Independent Road LP
104 Caledonia Street, Suite C
Sausalito, CA 94965

Subject: Case Closure for Fuel Leak Case No. RO0002900 and GeoTracker Global ID T0600165110, SPK Industrial Property, 700 Independent Road, Oakland, CA 94621

Dear Mr. Soutter and Mr. Meynard:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25296.10 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.3 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

This notice is issued pursuant to subdivision (h) of Section 25296.10 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,

Ariu Levi
Director
Alameda County Environmental Health

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

February 17, 2011

Mr. James Soutter *(Sent via E-mail to: James_Soutter@equityoffice.com)*
Equity Office Properties
2655 Campus Drive, Suite 100
San Mateo, CA 94403

Mr. Francis J. Meynard
700 Independent Road LP
104 Caledonia Street, Suite C
Sausalito, CA 94965

Subject: Case Closure for Fuel Leak Case No. RO0002900 and GeoTracker Global ID T0600165110, SPK Industrial Property, 700 Independent Road, Oakland, CA 94621

Dear Mr. Soutter and Mr. Meynard:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed. This case closure letter and the case closure summary can also be viewed on the State Water Resources Control Board's Geotracker website (http://geotracker.swrcb.ca.gov) and the Alameda County Environmental Health website (http://www.acgov.org/aceh/index.htm).

SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- Total Petroleum Hydrocarbons as gasoline remain in soil at concentrations up to 750 ppm.
- Total Petroleum Hydrocarbons as gasoline remain in groundwater at concentrations up to 20,000 ppb.
- As described in section IV of the attached Case Closure Summary, the case was closed with Site Management Requirements that limit future land use to commercial land use only

If you have any questions, please call Jerry Wickham at (510) 567-6791. Thank you.

Sincerely,

Donna L. Drogos, P.E.
Division Chief

Enclosures:
1. Remedial Action Completion Certification
2. Case Closure Summary

cc:

Leroy Griffin (w/enc)
Oakland Fire Department
250 Frank H. Ogawa Plaza, Ste. 3341
Oakland, CA 94612-2032
(*Sent via E-mail to: lgriffin@oaklandnet.com*)

Closure Unit (w/enc)
State Water Resources Control Board
UST Cleanup Fund
P.O. Box 944212
Sacramento, CA 94244-2120
(*uploaded to GeoTracker*)

Charles Almestad
Kleinfelder West, Inc.
1970 Broadway, Suite 710
Oakland, CA 94612
(*Sent via E-mail to: CAlmestad@kleinfelder.com*)

Donna Drogos, ACEH (*Sent via E-mail to: donna.drogos@acgov.org*)
Jerry Wickham, ACEH (*Sent via E-mail to: jerry.wickham@acgov.org*)

GeoTracker (w/enc)
File (w/orig enc)

Alameda County Environmental Health

CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM

I. AGENCY INFORMATION

Date: August 16, 2010

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6791
Responsible Staff Person: Mr. Jerry Wickham	Title: Senior Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: SPK Industrial Property		
Site Facility Address: 700 Independent Road, Oakland, CA 94621		
RB Case No.: ---	STID No.: ---	LOP Case No.: RO0002900
URF Filing Dates: 11/01/2005	Geotracker ID: T0600165110	APN: 41-3910-13

Responsible Parties	Addresses	Phone Numbers
James Soutter, Equity Office Properties	2655 Campus Drive, Suite 100, San Mateo, CA 94403	650-372-3500
Francis J. Meynard 700 Independent Road LP	104 Caledonia Street, Suite C Sausalito, CA 94965	No phone number
---	---	---

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	1,100	Gasoline	Removed	08/17/2005
Piping			Removed	08/17/2005

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: A release or releases appear to have occurred from the UST and possibly the dispensers. During removal, the UST was observed to be rusty and stained with many holes. The soil surrounding the UST was visibly stained and had a petroleum odor. Soil from the former dispenser location contained TPHd at a concentration of 246 ppm.		
Site characterization complete? Yes	Date Approved By Oversight Agency? ---	
Monitoring wells installed? Yes	Number: 5	Proper screened interval? ---
Highest GW Depth Below Ground Surface: 4.2 feet bgs	Lowest Depth: 6.2 feet bgs	Flow Direction: Generally towards south southeast but variable with periodic outward radial flow in area of former tank pit.
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity: No active water supply wells are located within 2,000 feet of the site. A 610-foot deep water supply located approximately 1,400 feet east of the site was decommissioned in November 1984. Based on the distance from the site, the decommissioned well is not expected to be a receptor for the site.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: Damon Slough is approximately 750 feet southeast of the site.
Off-Site Beneficial Use Impacts (Addresses/Locations): None	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and City of Oakland Fire Department.

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	1 tank	One 1,100-gallon UST was transported to Ecology Control Industries in Richmond, CA for disposal.	08/17/2005
Piping	Not reported	Piping associated with the UST was transported to Ecology Control Industries in Richmond, CA for disposal	08/17/2005
Free Product	----	----	----
Soil	---	---	---
Groundwater	---	---	---

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
(Please see Attachments 1-6 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	3,000	750	54,000	20,000
TPH (Diesel)	5,090	264	7,400	624
TPH (Motor Oil)	Not Analyzed	Not Analyzed	<358	<358
Benzene	16	3	20,500	7,600
Toluene	54	1.2	210	15
Ethylbenzene	46	<1	100	370
Xylenes	180	44	95	300
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	56(1)	56(1)	0.02(2)	0.02(2)
MTBE	<0.2(3)	<0.2(3)	12(4)	<0.5(5)
Other (8240/8270)	Not detected at various detection limits	Not detected at various detection limits	Not detected at various detection limits	Not detected at various detection limits

Footnotes:

(1) Lead = 56 ppm; nickel = 66 ppm; chromium = 61 ppm; zinc = 93 ppm; and cadmium <1.0 ppm.
(2) Lead = 0.02 ppb; chromium = 0.057 ppb; copper = 0.13 ppb; and cadmium <0.25 ppb.
(3) MTBE <0.2 ppm; TBA <1 ppm; DIPE <1 ppm; ETBE <1 ppm; TAME <1 ppm; EDB <1 ppm; and EDC <1 ppm.
(4) MTBE = 12 ppb; TBA = 9 ppb; DIPE <0.5 ppb; ETBE <0.5 ppb; TAME <0.5 ppb; EDB <10.5 ppb and EDC = 586 ppb.
(5) MTBE <0.5 ppb; TBA = 9 ppb; DIPE <0.5 ppb; ETBE <0.5 ppb; TAME <0.5 ppb; EDB <10.5 ppb; and EDC = 586 ppb.

Site History and Description of Corrective Actions:

The site is currently occupied by a one-story warehouse and parking lot. Surrounding land use is industrial and commercial. During a Phase I environmental site assessment and limited soil and groundwater investigation in 2004, petroleum hydrocarbons were detected in soil and groundwater samples collected from boring B8, which was located near the loading dock on the property. On March 16, 2005, a geophysical survey was conducted in the area of boring B8 and a suspected fill pipe. The geophysical survey concluded that a UST was present with product lines extending beneath the building between the UST and a former dispenser location inside the building.

The UST and associated piping was removed on August 17, 2005. The 1,100-gallon UST was rusted and stained with many holes. The surrounding soil had odors and visible staining. Four soil samples collected from the excavation contained TPHg and TPHd at concentrations up to 877 ppm and 5,090 ppm, respectively. An additional soil sample collected from the former dispenser location contained 246 ppm of TPHd and 0.185 ppm of TPHg.

On July 24 and 25 and August 10, 2006, direct push soil borings were advanced to depths of 16 to 24 feet bgs at eleven locations. Two borings were advanced to 32 feet bgs to assess the vertical extent of contamination. In addition, the floor of the block building was cored in two locations to collect soil samples from a depth of 4 feet bgs along the product pipeline. Depth to first encountered groundwater in the borings ranged from 5.5 to 19 feet bgs. Total petroleum hydrocarbons as gasoline (TPHg) and benzene were detected in soil samples from the borings at concentrations up to 810 and 3 ppm, respectively. TPHg and benzene were detected in groundwater samples from the borings at concentrations up to 42,000 and 13,800 ppb, respectively.

Between March 4 and 7, 2007, subsurface soil, soil vapor, and groundwater samples were collected and three monitoring wells (MW-1 through MW-3) were installed. The highest concentrations of petroleum hydrocarbons were reported in soil boring K-19 and in monitoring well MW-2, both located in the immediate vicinity of the former UST. Elevated concentrations of petroleum hydrocarbons were also detected in soil and groundwater samples from monitoring well (MW-1) and boring (K-18), located approximately 70 to 90-feet east from the former UST location.

Between January 21 and 31, 2010, five soil borings (K-21 to K-25) were advanced and two additional groundwater monitoring wells (MW-4 and MW-5) were installed to further characterize the vertical and horizontal extent of contamination. A pilot test was conducted in December 2008 to assess the effectiveness of in situ chemical oxidation to treat petroleum hydrocarbons in the subsurface and obtain design parameters for the potential implementation of full scale chemical oxidation treatment at the site. The pilot test consisted of injecting modified Fenton's reagent (containing hydrogen peroxide and an iron catalyst) into the subsurface. Using direct push technology, reagent injection was performed at 11 locations in the vicinity of the UST's former location. A second round of in-situ chemical oxidation injection was performed between May 27 and June 4, 2009.

Since March 2007, quarterly groundwater monitoring at the site has been conducted in MW-1, MW-2, and MW-3, and since January 2008 monitoring wells MW-4 and MW-5 have also been monitored. Reported Total Dissolved Solids levels have ranged from 8,600,000 to 17,000,000 milligrams per liter (mg/L).

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
Site Management Requirements: Case closure for the fuel leak site is granted for the current commercial land use only. If a change in land use to any residential or other conservative land use scenario occurs at this site, Alameda County Environmental Health (ACEH) must be notified as required by Government Code Section 65850.2.2. ACEH will re-evaluate the case upon receipt of approved development/construction plans. Excavation or construction activities in the areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities. The site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination on site.		
Should corrective action be reviewed if land use changes? Yes.		
Was a deed restriction or deed notification filed? No		Date Recorded: --
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 5
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: --		

V. ADDITIONAL COMMENTS, DATA, ETC.

Considerations and/or Variances:

None

Conclusion:

Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment based upon the information available in our files to date. No further investigation or cleanup is necessary. ACEH staff recommend case closure for this site.

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Jerry Wickham	Title: Senior Hazardous Materials Specialist
Signature: Jerry Wickham	Date: 10/27/10
Approved by: Donna L. Drogos, P.E.	Title: Division Chief
Signature: Donna L. Drogos	Date: 10/28/10

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
Notification Date: 10/28/10	

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 10/28/10	Date of Well Decommissioning Report: 02/10/11	
All Monitoring Wells Decommissioned: Yes	Number Decommissioned: 5	Number Retained: ∅
Reason Wells Retained: NA		
Additional requirements for submittal of groundwater data from retained wells: None		
ACEH Concurrence - Signature: Jerry Wickham		Date: 02/17/11

Attachments:

1. Site Vicinity Map (1 pp)
2. Site Plans and Cross Sections (4 pp)
3. Groundwater Elevation Contour and Chemical Concentration Maps (4 pp)
4. Soil and Soil Vapor Analytical Data (11 pp)
5. Groundwater Analytical Data (7 pp)
6. Boring Logs (55 pp)

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.

Wickham, Jerry, Env. Health

From: Cherie MCcaulou [CMccaulou@waterboards.ca.gov]
Sent: Thursday, October 28, 2010 4:26 PM
To: Wickham, Jerry, Env. Health
Subject: Re: Notification of case closures

Jerry - thank you for updating me on the status of these projects. The Regional Board has no objection to the ACEH's recommendation for case closure, considering the site conditions.

Sincerely,

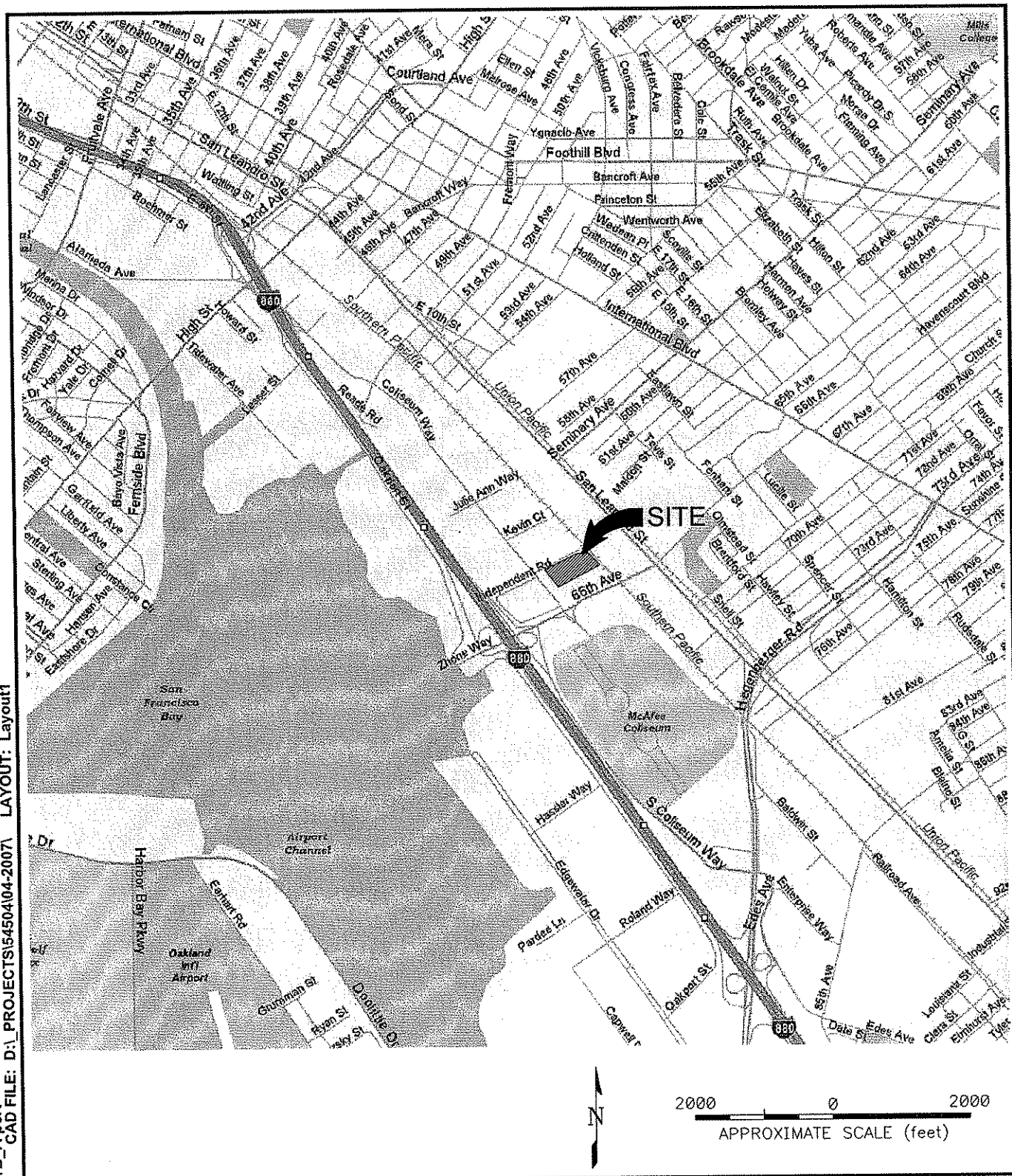
Cherie McCaulou
Engineering Geologist
San Francisco Bay Regional Water Quality Control Board
cmccaulou@waterboards.ca.gov
510-622-2342

>>> "Wickham, Jerry, Env. Health" <jerry.wickham@acgov.org> 10/28/2010 3:58 PM >>>
Hi Cherie,

This message provides notification of the following pending case closures:

RO0508 Omega Termite, 807 75th Avenue, Oakland
RO2900 SPK Industrial Property, 700 Independent Road, Oakland

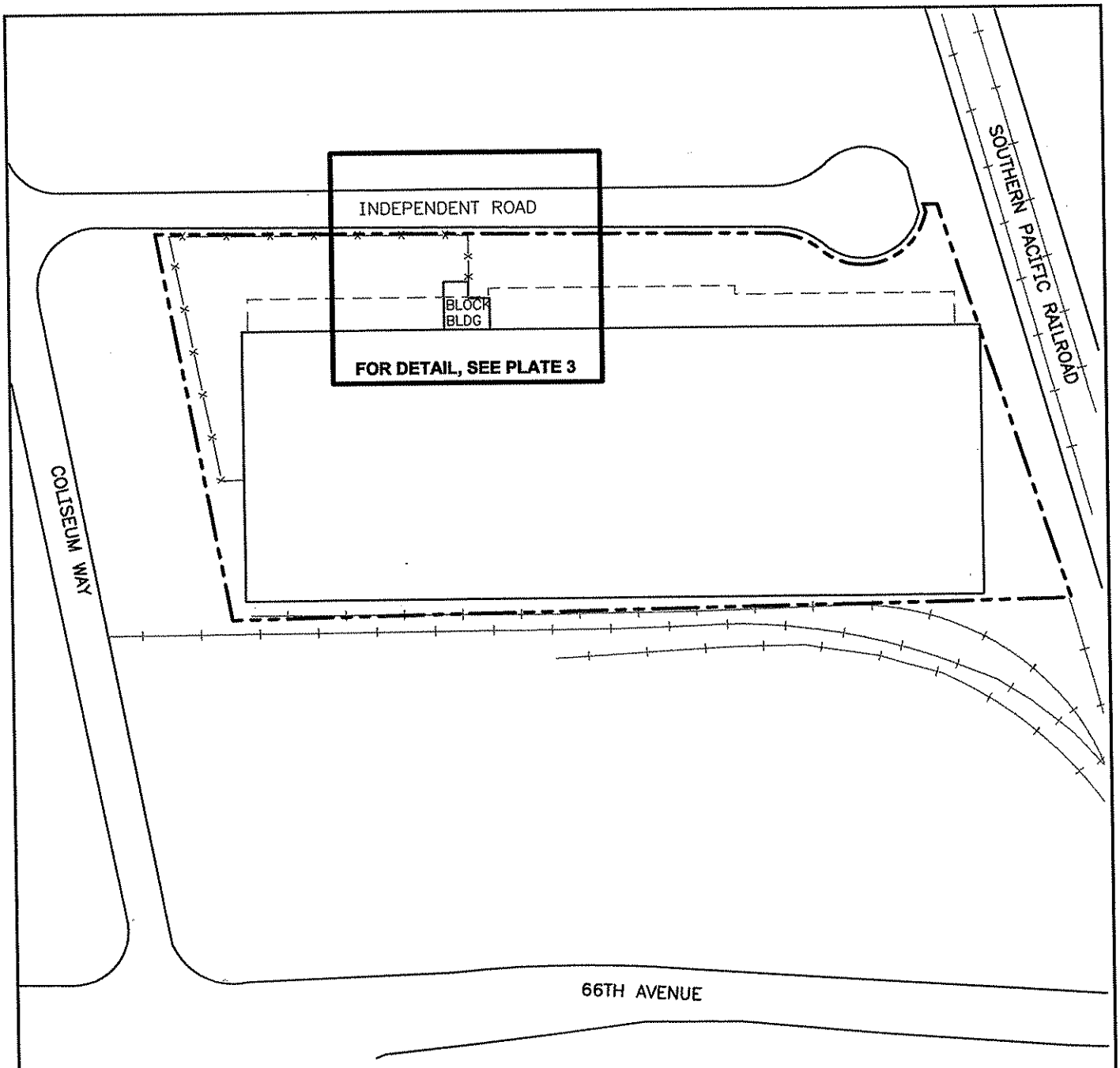
Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
phone: 510-567-6791
jerry.wickham@acgov.org



ATTACHED IMAGES: Images: VIC-MAP.jpg
ATTACHED XREFS: XRef: TB_A-port
File-L:\2007\07PROJ CAD FILE: D:_PROJECTS\54504\04-2007\ LAYOUT: Layout1

KLEINFELDER 1970 Broadway, Suite 710 Oakland, CA 94612-2212 PH. 510-628-9000 FAX. 510-628-9009 www.kleinfelder.com	**SITE VICINITY MAP** 700 INDEPENDENT ROAD OAKLAND, CALIFORNIA	DRAWN BY: LGS REVISED BY: CHECKED BY: AD PLATE **1**
DRAWN: MAY 2007 APPROVED BY:_____	PROJECT NO. 54504 FILE NAMESITE-VIC.dwg	

ATTACHMENT 1



LEGEND

PROPERTY BOUNDARY

FENCE LINE

LIMITS OF BUILDING OVERHANG

NOTE: Locations are approximate.

N

120 60 0 120

APPROXIMATE SCALE (feet)

XRefs: ATTACHED IMAGES: XRef: TB_A-port Images: AERIAL.jpg

KLEINFELDER
1970 Broadway, Suite 710
Oakland, CA 94612-2212
TEL: (510) 628-9000 FAX: (510) 628-9009

SITE PLAN: OVERALL

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE **2**

DRAFTED BY: L. Sue	CHECKED BY: E. Harris
DATE: 10/10/05	REVISION DATE:

PROJECT NO. 54504

Plo-L:\2006\06Project&AD FILE: L:\2006\06Projects\54504\GRAPHICs\3\SITEPLAN.dwg
LAYOUT: PLATE 2
PLOTTED: 19 Apr 2006 11:31am

ATTACHMENT 2

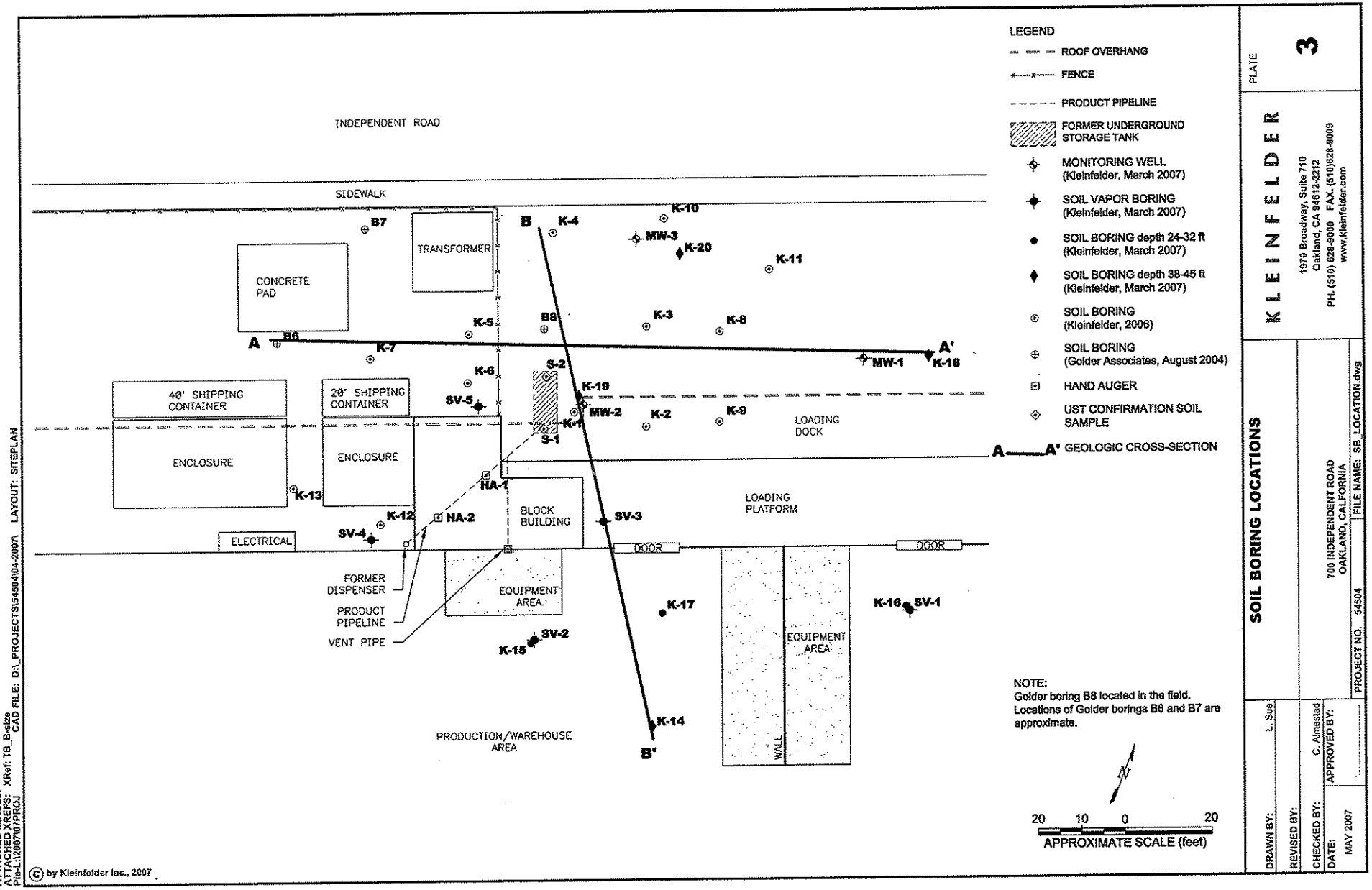


PLATE 3

KLEINFELDER

1970 Broadway, Suite 710
Oakland, CA 94612-2212
PH. (510) 628-9600 FAX. (510)628-9009
www.kleinfelder.com

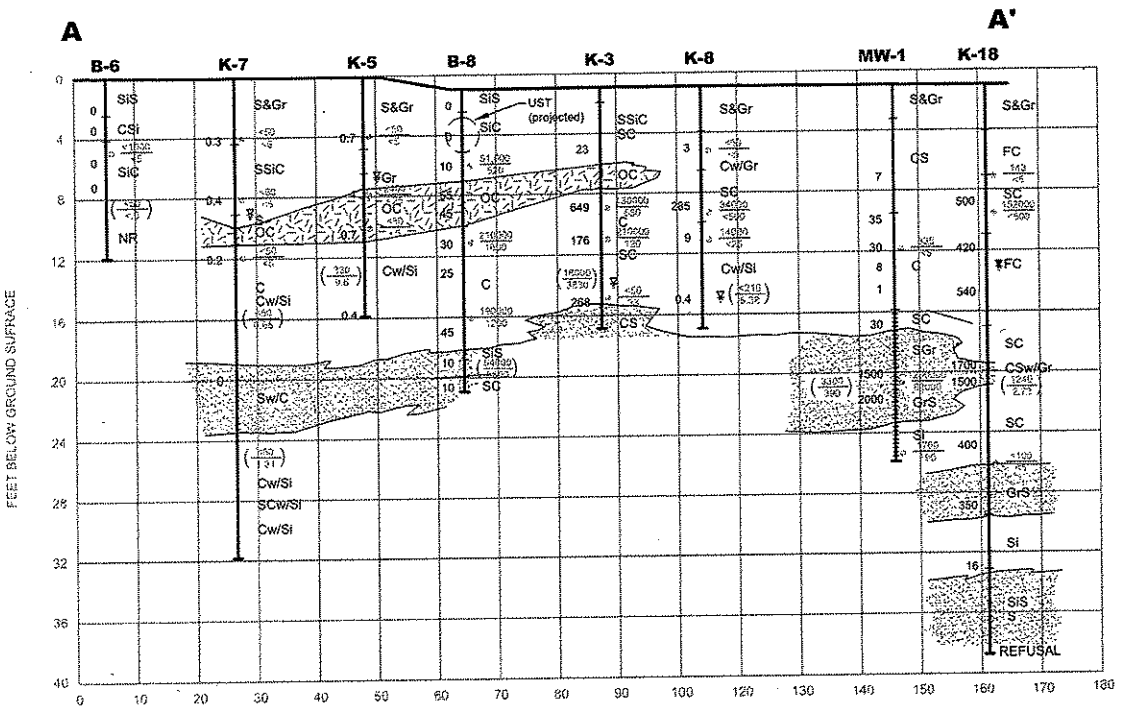
SOIL BORING LOCATIONS

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PROJECT NO. 54504 FILE NAME: SB_LOCATION.dwg

DRAWN BY:	L. Sue
REVISED BY:	
CHECKED BY:	C. Almestad
APPROVED BY:	
DATE:	MAY 2007

ATTACHED IMAGES:
ATTACHED XREFS: XRef: TB_B-size
File-L:\2007\07PROJ CAD FILE: D:_PROJECTS\54504\04-2007\ LAYOUT: SITEPLAN



LEGEND

C	CLAY
Si	SILT
S	SAND
Gr	GRAVEL
OC	ORGANIC CLAY
Sw/C	SAND WITH CLAY
NR	NO RECOVERY
UST	UNDERGROUND STORAGE TANK
3290/27	TPH-g (µg/Kg) IN SOIL / B (µg/Kg) IN SOIL
(2490/27)	TPH-g (µg/L) IN GROUNDWATER / B (µg/L) IN GROUNDWATER
TPH-g	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
B	BENZENE
▽	INITIAL WATER LEVEL
▽	STABLIZED WATER LEVEL
	SCREENING ZONE IN MONITORING WELL
500	ORGANIC VAPOR METER (PID) MEASUREMENT (ppm)

NOTE: Locations are approximate.

PLATE 4

KLEINFELDER
1979 Broadway, Suite 710
Oakland, CA 94612-2212
PH. (510) 628-9000 FAX. (510)628-9009
www.kleinfelder.com

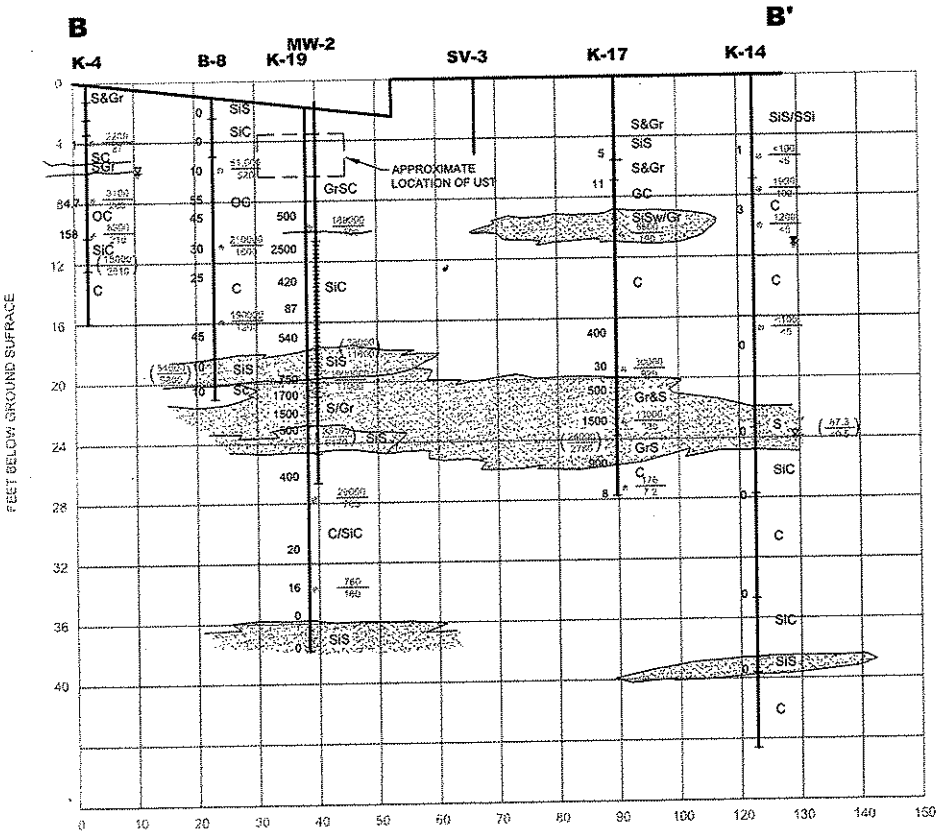
GEOLOGIC CROSS-SECTION A-A'

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PROJECT NO. 54504 | FILE NAME: X-SECTIONS.dwg

DRAWN BY: J. Sala
REVISED BY: ,
CHECKED BY: C. Almestad
APPROVED BY:
DATE: MAY 2007

ATTACHED IMAGES:
ATTACHED XREFS: XRef: TB_B-size
Plo-4.12007107PROJ CAD FILE: D:_PROJECTS\54504\04-2007\ LAYOUT: A-A'



LEGEND

C	CLAY
Si	SILT
S	SAND
Gr	GRAVEL
OC	ORGANIC CLAY
Sw/C	SAND WITH CLAY
NR	NO RECOVERY
UST	UNDERGROUND STORAGE TANK
3400/27	TPH-g (µg/Kg) IN SOIL / B (µg/Kg) IN SOIL
(2200/27)	TPH-g (µg/L) IN GROUNDWATER / B (µg/L) IN GROUNDWATER
TPH-g	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
B	BENZENE
▼	INITIAL WATER LEVEL
▼	STABLIZED WATER LEVEL
	SCREENING ZONE IN MONITORING WELL
500	ORGANIC VAPOR METER (PID) MEASUREMENT (ppm)

NOTE: Locations are approximate.

PLATE 5

KLEINFELDER

1970 Broadway, Suite 710
Oakland, CA 94612-2212
PH. (510) 628-9000 FAX. (510)628-9009
www.kleinfelder.com

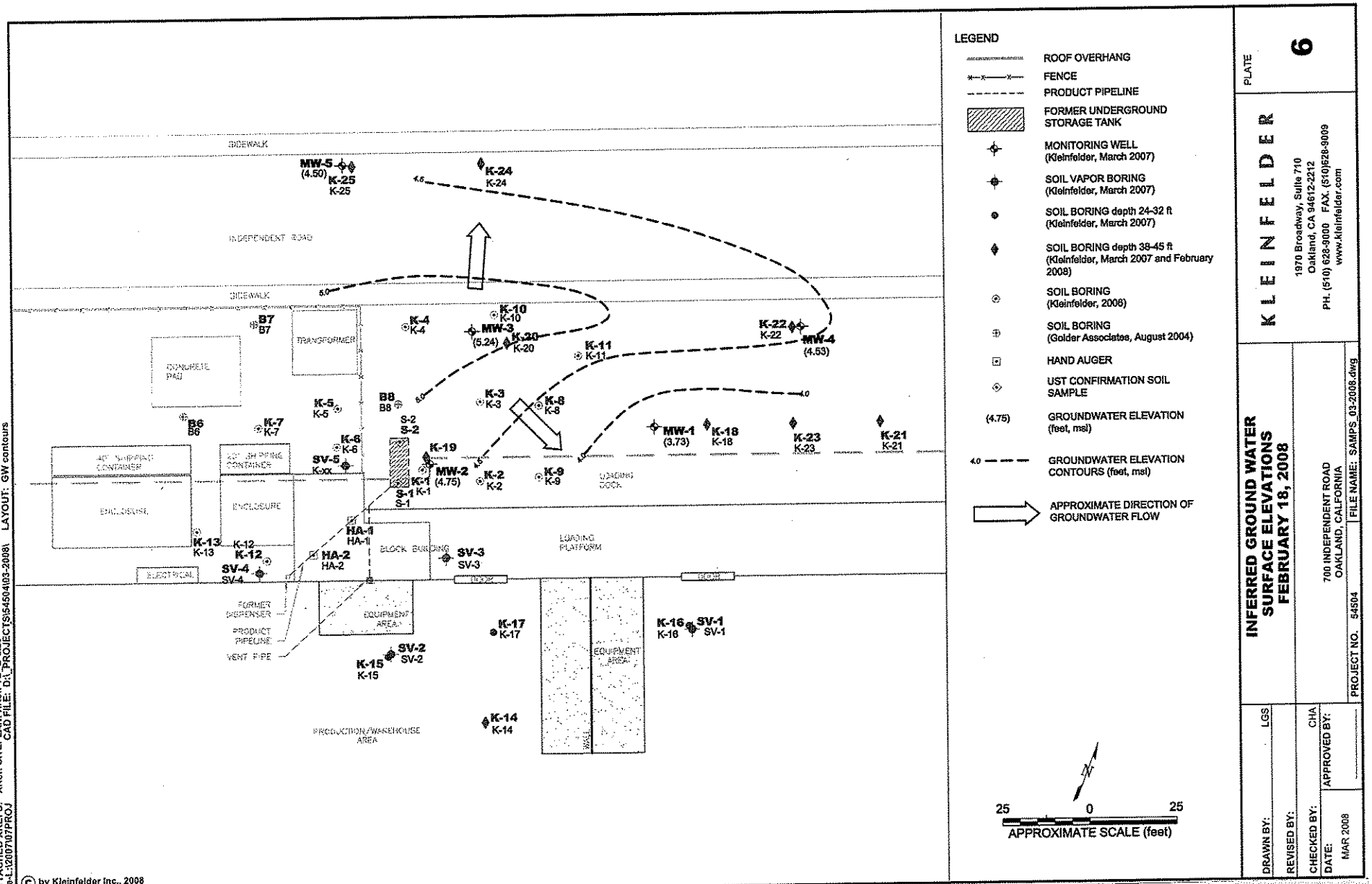
GEOLOGIC CROSS-SECTION B-B'

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PROJECT NO. 54504 | FILE NAME: X-SECTIONS.dwg

DRAWN BY: J. Sala
REVISED BY:
CHECKED BY: C. Almstad
APPROVED BY:
DATE: MAY 2007

ATTACHED IMAGES:
ATTACHED XREFS: XRef: TB_B-size
File-L:\2007\07PROJ CAD FILE: D:\0_PROJECTS\54504\04-2007\0 LAYOUT: B-B'



ATTACHED IMAGES: Images: contours_Page_1.jpg Images: contours_Page_2.jpg
ATTACHED XREFS: XRef: SITEPLAN: XRef: TB_Base
File-L:\2007\07PROJ CAD FILE: D:_PROJECTS\54504\03-2008\ LAYOUT: GW contours

PLATE 6

KLEINFELDER
1970 Broadway, Suite 710
Oakland, CA 94612-2212
PH. (510) 628-9000 FAX. (510)628-9009
www.kleinfelder.com

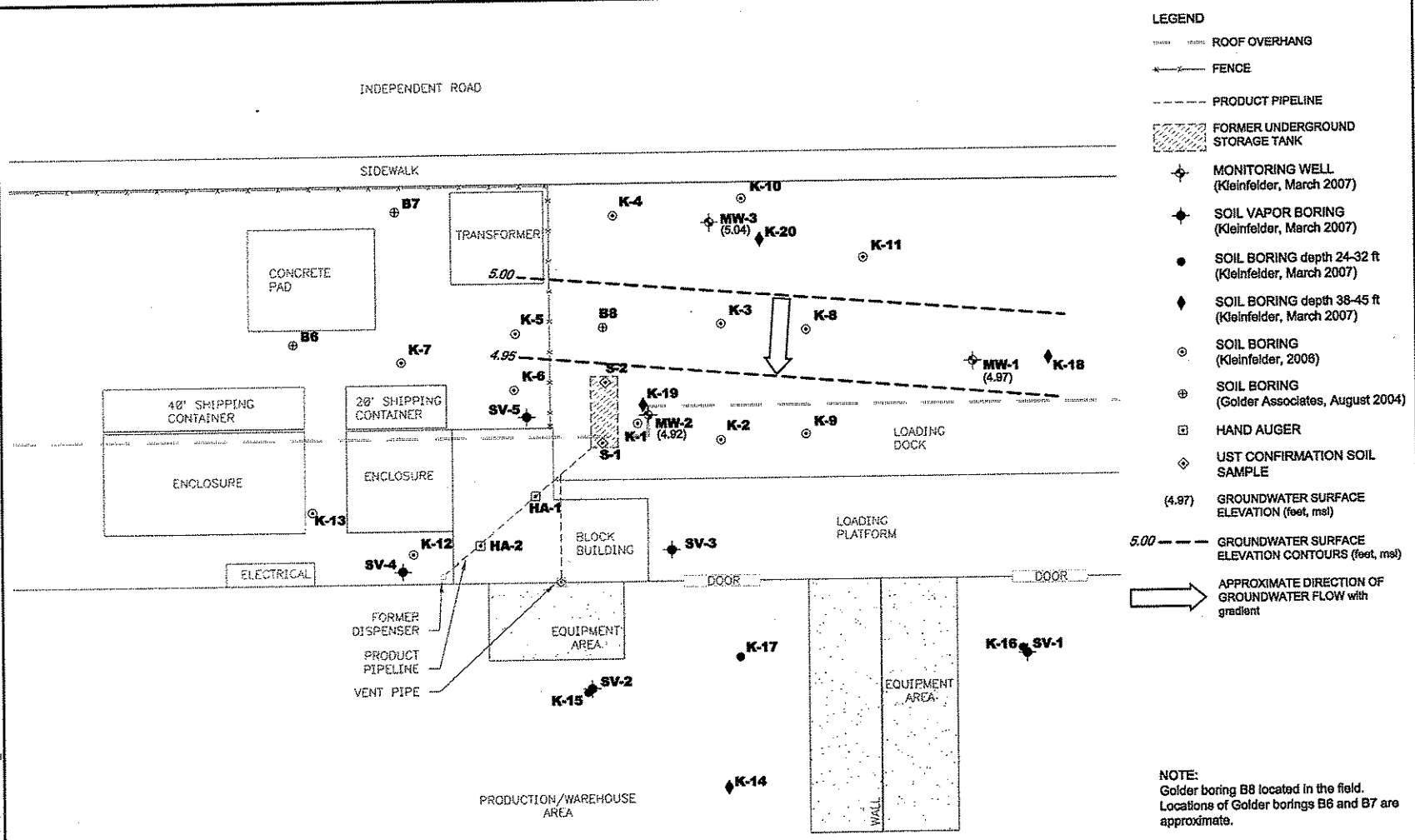
INFERRED GROUND WATER SURFACE ELEVATIONS FEBRUARY 18, 2008

700 INDEPENDENT ROAD
OAKLAND, CALFORNIA

PROJECT NO. 54504 | FILE NAME: SAMPS_03-2008.dwg

DRAWN BY: LGS
REVISED BY:
CHECKED BY: CHA
APPROVED BY:
DATE: MAR 2008

ATTACHMENT 3



ATTACHED IMAGES:
ATTACHED XREFS: XRef: SITEPLAN; XRef: TB_B-size
File-L:\2007\07PROJ CAD FILE: D:_PROJECTS\54504\04-2007\ LAYOUT: GW contours

PLATE 6

KLEINFELDER

1970 Broadway, Suite 710
Oakland, CA 94612-2212
PH. (510) 628-9000 FAX. (510)628-9009
www.kleinfelder.com

GROUND WATER SURFACE ELEVATIONS AND ESTIMATED GROUND WATER FLOW APRIL 13, 2007

700 INDEPENDENT ROAD
OAKLAND, CALFORNIA

PROJECT NO. 54504 | FILE NAME: GW-CONT_4-2007.dwg

DRAWN BY: J. Sala
REVISED BY:
CHECKED BY: C. Almestad
APPROVED BY:
DATE: MAY 2007

LEGEND

- ROOF OVERHANG
- FENCE
- PRODUCT PIPELINE
- FORMER UNDERGROUND STORAGE TANK
- MONITORING WELL (Kleinfelder, March 2007)
- SOIL VAPOR BORING (Kleinfelder, March 2007)
- SOIL BORING depth 24-32 ft (Kleinfelder, March 2007)
- SOIL BORING depth 38-45 ft (Kleinfelder, March 2007 and February 2008)
- SOIL BORING (Kleinfelder, 2006)
- SOIL BORING (Golder Associates, August 2004)
- HAND AUGER
- UST CONFIRMATION SOIL SAMPLE
- APPROXIMATE LIMIT OF TPH-g, CONCENTRATIONS EXCEEDING LOWEST ESL IN SOIL
- APPROXIMATE LIMIT OF BENZENE CONCENTRATIONS EXCEEDING LOWEST ESL IN SOIL
- xx TPH-g (µg/Kg) / BENZENE (µg/Kg) — SOIL SAMPLES COLLECTED AT 7-11 FEET BELOW GROUND SURFACE
- TPH-g — TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- µg/Kg — MICROGRAMS PER KILOGRAM

NOTES:
Golder boring B8 located on the field. Locations of Golder borings B6 and B7 are approximate.

N

25 0 25

APPROXIMATE SCALE (feet)

PLATE 7

KLEINFELDER

1970 Broadway, Suite 710
Oakland, CA 94612-2212
PH. (510) 628-9089 FAX. (510)628-9089
www.kleinfelder.com

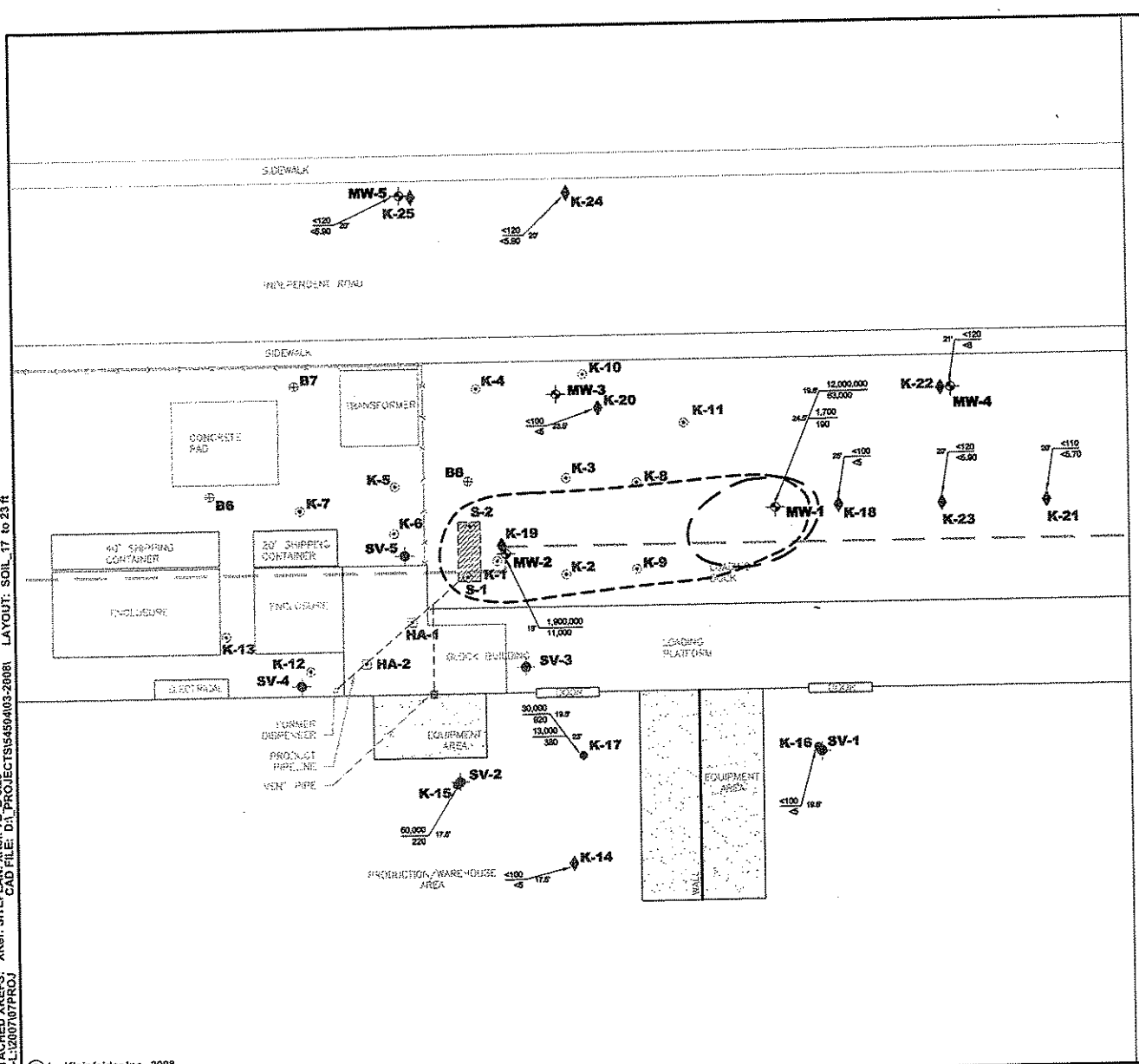
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND BENZENE IN SOIL AT 7' to 11' BELOW GROUND SURFACE

700 INDEPENDENT ROAD
OAKLAND, CALFORNIA

PROJECT NO. 54504 | FILE NAME: SAMPS_03-2008.dwg

DRAWN BY: LSS
REVISED BY:
CHECKED BY: CHA
APPROVED BY:
DATE: MAR 2008

ATTACHED IMAGES: Images: contours_Page_1.jpg Images: contours_Page_2.jpg
ATTACHED XREFS: XRef: SITEPLAN XRef: TB Base
File:L:\2007\07PROJ CAD FILE: D:_PROJECTS\54504\03-2008\ LAYOUT: SOIL_7 to 11 ft



LEGEND

- ROOF OVERHANG
- FENCE
- PRODUCT PIPELINE
- FORMER UNDERGROUND STORAGE TANK
- MONITORING WELL (Kleinfelder, March 2007)
- SOIL VAPOR BORING (Kleinfelder, March 2007)
- SOIL BORING depth 24-32 ft (Kleinfelder, March 2007)
- SOIL BORING depth 38-45 ft (Kleinfelder, March 2007 and February 2008)
- SOIL BORING (Kleinfelder, 2008)
- SOIL BORING (Golder Associates, August 2004)
- HAND AUGER
- UST CONFIRMATION SOIL SAMPLE
- APPROXIMATE LIMIT OF BENZENE CONCENTRATIONS EXCEEDING LOWEST ESL IN SOIL
- APPROXIMATE LIMIT OF TPH-g, CONCENTRATIONS EXCEEDING LOWEST ESL IN SOIL
- XX TPH-g (µg/Kg) / BENZENE (µg/Kg): SOIL SAMPLES COLLECTED AT 17-25 FEET BELOW GROUND SURFACE
- TPH-g: TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- µg/Kg: MICROGRAMS PER KILOGRAM

NOTES:
Golder boring B8 located on the field. Locations of Golder borings B6 and B7 are approximate.

Sampling dates were on March 4-6, 2007.

25 0 25
APPROXIMATE SCALE (feet)

PLATE 8

KLEINFELDER
1970 Broadway, Suite 710
Oakland, CA 94612-2212
PH. (510) 628-9000 FAX. (510)628-9009
www.kleinfelder.com

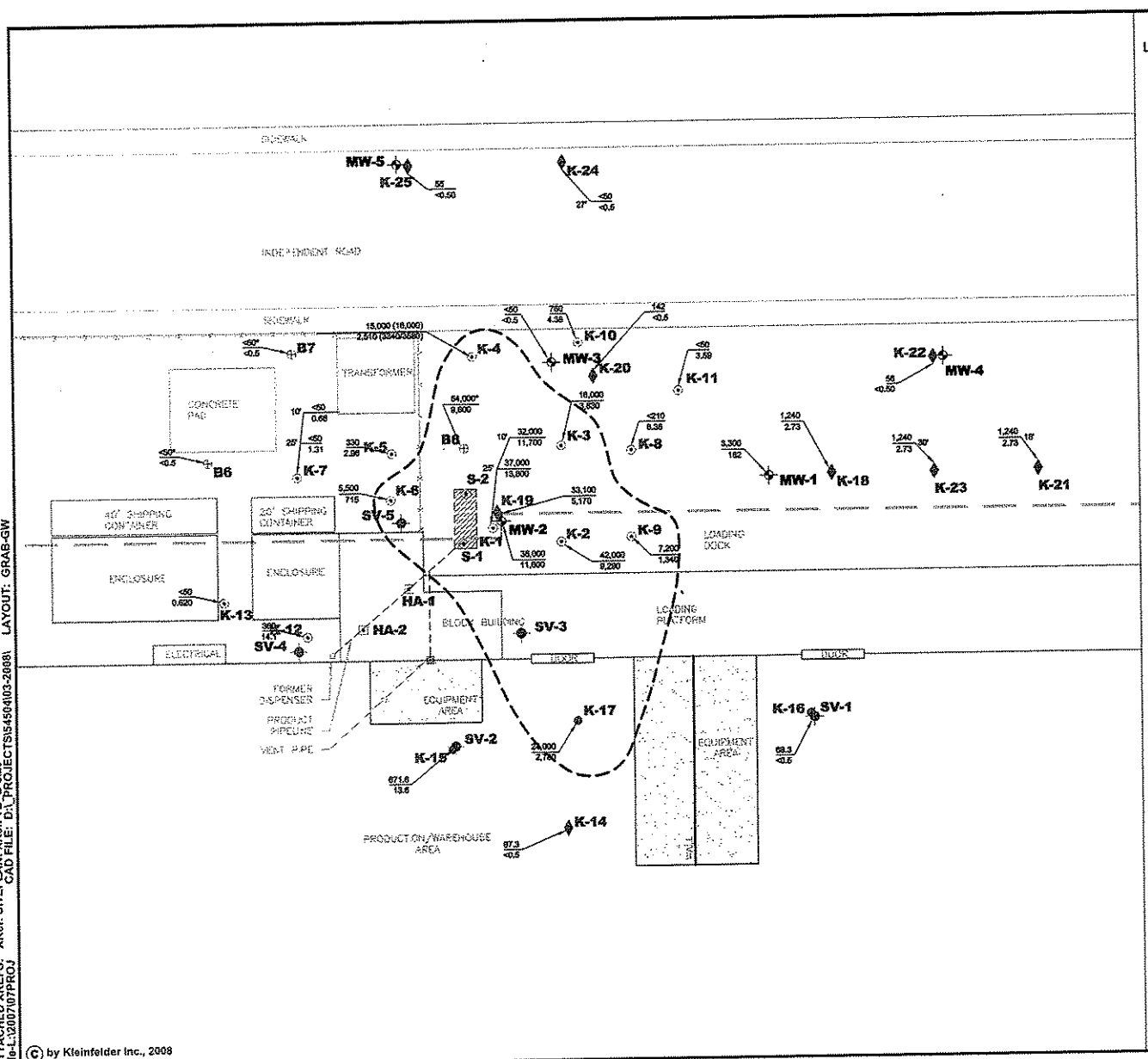
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND BENZENE IN SOIL AT 17' to 25' BELOW GROUND SURFACE

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PROJECT NO. 54504 | FILE NAME: SAMPS_03-2008.dwg

DRAWN BY: LGS
REVISED BY:
CHECKED BY: CHA
APPROVED BY:
DATE: MAR 2008

ATTACHED IMAGES: Images: contours_Page_1.jpg Images: contours_Page_2.jpg
ATTACHED XREFS: XRef: SITEPLAN XRef: TB_8-size
File-L:\2007\07PROJ CAD FILE: D:_PROJECTS\54504\03-2008\ LAYOUT: SOIL_17 to 23 ft



LEGEND

- ROOF OVERHANG
- FENCE
- PRODUCT PIPELINE
- FORMER UNDERGROUND STORAGE TANK
- MONITORING WELL (Kleinfelder, March 2007)
- SOIL VAPOR BORING (Kleinfelder, March 2007)
- SOIL BORING depth 24-32 ft (Kleinfelder, March 2007)
- SOIL BORING depth 38-45 ft (Kleinfelder, March 2007 and February 2008)
- SOIL BORING (Kleinfelder, 2006)
- SOIL BORING (Golder Associates, August 2004)
- HAND AUGER
- UST CONFIRMATION SOIL SAMPLE
- APPROXIMATE LIMIT OF BENZENE AND TPH-g CONCENTRATIONS IN GROUND WATER EXCEEDING LOWEST ESL

TPH-g (µg/L) / BENZENE (µg/L) GRAB SAMPLES COLLECTED AT FIRST GROUND WATER, UNLESS OTHERWISE NOTED

TPH-g (µg/L) TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

µg/L MICROGRAMS PER LITER

NOTES:
Golder boring B8 located on the field. Locations of Golder borings B6 and B7 are approximate.

* Results from sample collected on August 17, 2004.

25 0 25
APPROXIMATE SCALE (feet)

PLATE 9

KLEINFELDER
1970 Broadway, Suite 710
Oakland, CA 94612-2212
PH. (510) 628-9000 FAX. (510)628-9009
www.kleinfelder.com

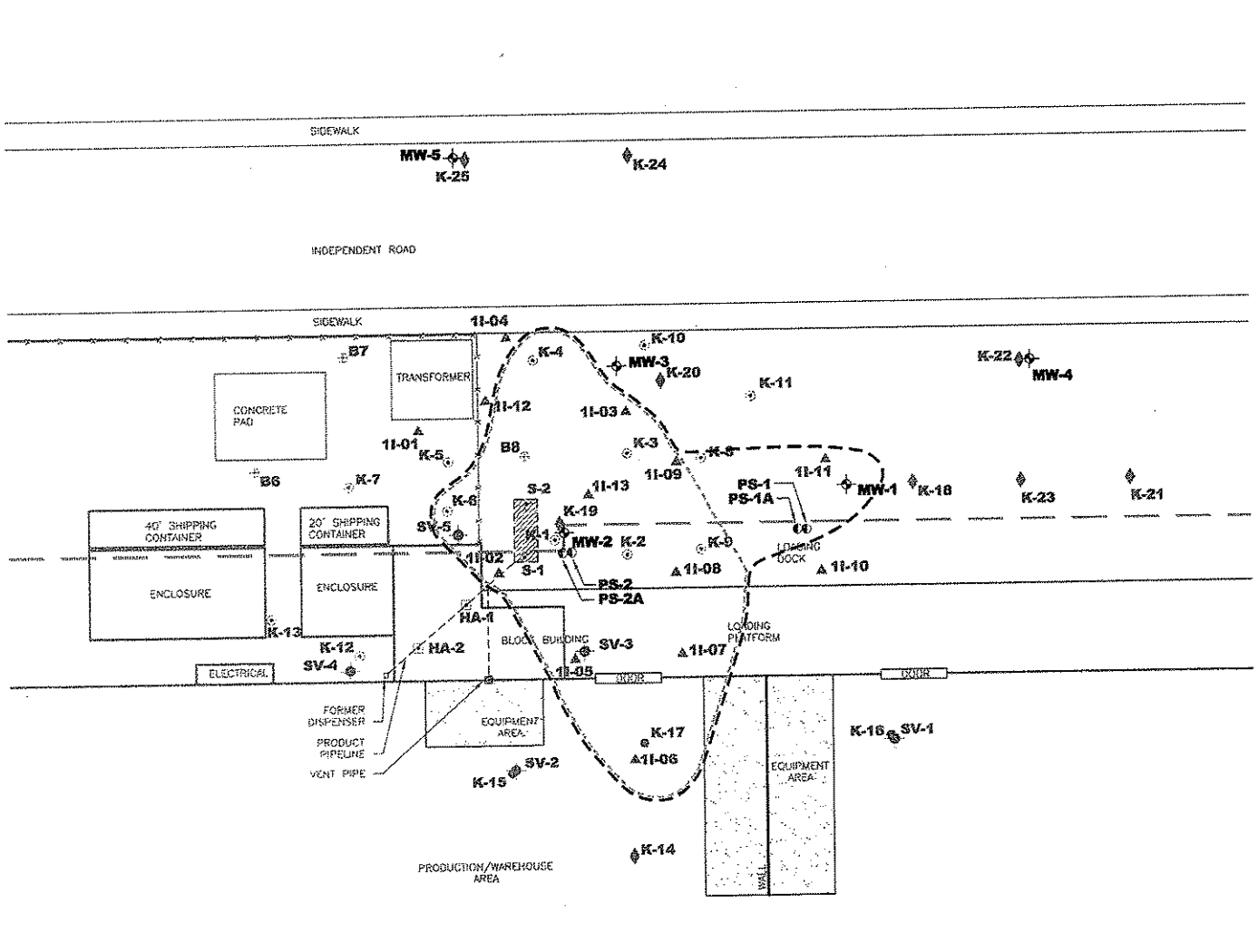
TOTAL PETROLEUM HYDROCARBONS AS GASOLINE AND BENZENE IN GROUND WATER SAMPLES

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PROJECT NO. 54504 | FILE NAME: SAMPS_03-2008.dwg

DRAWN BY: LGS
REVISED BY:
CHECKED BY: CHA
APPROVED BY:
DATE: MAR 2008

ATTACHED IMAGES: Images: contours_Page_1.jpg Images: contours_Page_2.jpg
ATTACHED XREFS: XRef: SITEPLAN XRef: TB_B-size
File-L:\2007\07PROJ CAD FILE: D:_PROJECTS\54504\03-2008\ LAYOUT: GRAB-GW



LEGEND

- ROOF OVERHANG
- FENCE
- PRODUCT PIPELINE
- FORMER UNDERGROUND STORAGE TANK
- MONITORING WELL (Kleinfelder, March 2007)
- SOIL BORING (Kleinfelder, December 2008 and January 2009)
- SOIL VAPOR BORING (Kleinfelder, March 2007)
- SOIL BORING depth 24-32 ft (Kleinfelder, March 2007)
- SOIL BORING depth 38-45 ft (Kleinfelder, March 2007 and February 2008)
- SOIL BORING (Kleinfelder, 2006)
- SOIL BORING (Golder Associates, August 2004)
- HAND AUGER
- UST CONFIRMATION SOIL SAMPLE
- IN SITU CHEMICAL OXIDATION (ISCO) INJECTION LOCATION
- APPROXIMATE PROPOSED LIMIT OF ISCO PILOT TEST TREATMENT AREA
- APPROXIMATE PROPOSED LIMIT OF ISCO FULL SCALE TREATMENT AREA

NOTES: Locations are approximate.

N

25 0 25

APPROXIMATE SCALE (feet)

KLEINFELDER
Bright People. Right Solutions.
www.kleinfelder.com

PROJECT NO.	54504
DRAWN:	FEB 2009
DRAWN BY:	JDS
CHECKED BY:	SD
FILE NAME:	Task7_P-04.dwg

ISCO PILOT TEST AND FULL SCALE TREATMENT AREAS, ISCO INJECTION LOCATIONS AND SOIL BORING SAMPLING LOCATIONS

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE 4

ATTACHED IMAGES: Images: points.jpg
ATTACHED XREFS: XRef: SITEPLAN; XRef: Eng-B_11x17_L_Style
PLEASANTON, CA CAD FILE: L:\2009\09Projects\54504\GRAPHICS\7t02-2009\ LAYOUT: Plate 4
PLOTTED: 23 Feb 2009, 3:10pm, jsala

Table 1
Soil Analytical Results
700 Independent Road
Oakland, California

Boring Number	K-1			K-2			K-3			K-4			Lowest	Vapor Emissions
Sample Depth (feet bgs)	8	10	19	4	8	10	8	10	14	4	8	10	ESL*	to Indoor Air
Date Collected	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006		ESL*
TPH as Gasoline (mg/kg)	210	220	**420**	<0.050	**810**	170	130	210	<0.050	2.2	3.1	8.3	400f	na
TPH as Diesel (mg/kg)	9.8b	8.6b	10.5b	12b	18b	5.7b	6.3b	3.3b	<2.0	<2.0	<2.0	<2.0	500f,l	na
1,2 Dibromoethane (EDB) (ug/kg)	<1000	<50	<1000	<5.0	<2000	<25	<500	<25	<5.0	<25	<25	<50	20j	20
1,2 Dichloroethane(EDC) (ug/kg)	<1000	<50	<1000	<5.0	<2000	<25	<500	<25	<5.0	<25	<25	<50	70j	70
Benzene (ug/kg)	<1000	250	**3000**	<5.0	**2300**	240	**580**	120	33	27	280	210	380h	510
Ethylbenzene (ug/kg)	5400	1900	7100	<5.0	17000	510	2600	410	10	<25	28	210	32000f	390000
Methyl tert butyl ether (MTBE) (ug/kg)	<2000	<100	<2000	<10	<4000	<50	<1000	<50	<10	<50	<50	<100	5600j	5600
Toluene (ug/kg)	<1000	54	<1000	5.3	2400	<25	<500	<25	<5.0	<25	<25	<50	9300f	310000
Xylenes, total (ug/kg)	4500	2900	**17000**	<15	**33000**	560	3400	360	<15	<75	<75	<150	11000f	420000
Cadmium (mg/kg)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7.4h	na
Chromium (mg/kg)	40	43	61	25	33	37	37	40	43	15	25	52	2500i	na
Lead (mg/kg)	8	6.8	9.2	14	6.4	6	6.2	5.7	6.6	11	4.6	8.6	750h	na
Nickel (mg/kg)	30	42	63	26	27	44	36	66	53	22	20	28	150k	na
Zinc (mg/kg)	33	35	52	63	28	33	29	34	50	32	21	27	600k	na

Notes:
a - Atypical gasoline (weathered)
b - Sample chromatogram does not resemble typical diesel pattern. Hydrocarbons within the diesel range quantified as diesel. Sample appears to be weathered gasoline.
c - Sample chromatogram does not resemble typical diesel pattern. Diesel result is carry over from heavier end hydroocarbons present. Hydrocarbons within the diesel range quantified as diesel.
d - Sample chromatogram does not resemble typical diesel pattern; possibly weathered diesel. Hydrocarbons within the diesel range quantified as diesel.
* ESL - Environmental Screening Levels assume non drinking water, industrial setting, shallow soil. ESLs from SFRWQCB ESL Surfer, October 2005.
Where the lowest ESL has been exceeded, sample result in bold. Below are notes which identify what each of the listed lowest ESLs represent:
f Leaching ESL
g Aquatic habitat ESL
h Direct exposure ESL
i Gross contamination ESL
j Vapor emmissions to indor air ESL
k Terrestrial ecological impacts ESL

ATTACHMENT 4

Table 1 (continued)
Soil Analytical Results
700 Independent Road
Oakland, California

Boring Number	K-5			K-6			K-7			K-8			Lowest	Vapor Emissions to Indoor Air
Sample Depth (feet bgs)	4	8	10	4	8	10	4	8	12	4	8	10	ESL*	ESL*
Date Collected	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006		
TPH as Gasoline (mg/kg)	<0.050	2.4a	<0.050	<0.050	0.48a	73	<0.050	<0.050	<0.050	<0.050	34a	14	400f	na
TPH as Diesel (mg/kg)	<2.0	13c	<2.0	<2.0	62c	12b	<2.0	<2.0	<2.0	32d	8.4b	<2.0	500f,l	na
1,2 Dibromoethane (EDB) (ug/kg)	<5.0	<25	<5.0	<5.0	<5.0	<500	<5.0	<5.0	<5.0	<5.0	<500	<25	20j	20
1,2 Dichloroethane(EDC) (ug/kg)	<5.0	<25	<5.0	<5.0	<5.0	<500	<5.0	<5.0	<5.0	<5.0	<500	<25	70j	70
Benzene (ug/kg)	<5.0	<25	<5.0	<5.0	<5.0	**520**	<5.0	<5.0	<5.0	<5.0	<500	<25	380h	510
Ethylbenzene (ug/kg)	<5.0	<25	<5.0	<5.0	<5.0	3000	<5.0	<5.0	<5.0	<5.0	<500	85	32000f	390000
Methyl tert butyl ether (MTBE) (ug/kg)	<10.0	<50	<10.0	<10.0	<10.0	<1000	<10.0	<10.0	<10.0	<10.0	<1000	<50	5600j	5600
Toluene (ug/kg)	<5.0	<25	<5.0	<5.0	<5.0	<500	<5.0	<5.0	<5.0	<5.0	<500	<25	9300f	310000
Xylenes, total (ug/kg)	<15.0	<75	<15.0	<15.0	<15.0	1600	<15.0	<15.0	<15.0	<15.0	<1500	<75	11000f	420000
Cadmium (mg/kg)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7.4h	na
Chromium (mg/kg)	<5.0	28	22	50	5.4	34	28	15	30	33	19	36	2500i	na
Lead (mg/kg)	4.2	30	3.8	19	5.8	6.9	10	4.3	6.5	32	4.1	5.2	750h	na
Nickel (mg/kg)	<5.0	25	16	41	9.8	49	18	15	25	52	20	35	150k	na
Zinc (mg/kg)	39	34	19	110	14	32	32	31	29	70	20	33	600k	na

Notes:
a - Atypical gasoline (weathered)
b - Sample chromatogram does not resemble typical diesel pattern. Hydrocarbons within the diesel range quantified as diesel. Sample appears to be weathered gasoline.
c - Sample chromatogram does not resemble typical diesel pattern. Diesel result is carry over from heavier end hydroocarbons present. Hydrocarbons within the diesel range quantified as diesel.
d - Sample chromatogram does not resemble typical diesel pattern; possibly weathered diesel. Hydrocarbons within the diesel range quantified as diesel.
* ESL - Environmental Screening Levels assume non drinking water, industrial setting, shallow soil. ESLs from SFRWQCB ESL Surfer, October 2005.
Where the lowest ESL has been exceeded, sample result in bold. Below are notes which identify what each of the listed lowest ESLs represent:
f Leaching ESL
g Aquatic habitat ESL
h Direct exposure ESL
l Gross contamination ESL
j Vapor emmissions to indor air ESL
k Terrestrial ecological impacts ESL

Table 1 (continued)
Soil Analytical Results
700 Independent Road
Oakland, California

Boring Number	K-9		K-10		K-11		K-12		K-13		HA-1	HA-2	Lowest	Vapor Emissions
Sample Depth (feet bgs)	4	8	8	10	4	8	4	8	4	8			ESL*	to Indoor Air ESL*
Date Collected	8/10/2006	8/10/2006	8/10/2006	8/10/2006	8/10/2006	8/10/2006	8/10/2006	8/10/2006	8/10/2006	8/10/2006	7/25/2006	7/25/2006		
TPH as Gasoline (mg/kg)	0.270a	170a	0.240a	1.01a	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	400f	na
TPH as Diesel (mg/kg)	<2.0	7.9b	<2.0	<2.0	<2.0	<2.0	2.8b	<2.0	<2.0	<2.0	5.48	3.4c	500f,l	na
1,2 Dibromoethane (EDB) (ug/kg)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	20j	20
1,2 Dichloroethane(EDC) (ug/kg)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	70j	70
Benzene (ug/kg)	7.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	380h	510
Ethylbenzene (ug/kg)	<5.0	3,600	<5.0	10	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	32000f	390000
Methyl tert butyl ether (MTBE) (ug/kg)	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	5600j	5600
Toluene (ug/kg)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	9300f	310000
Xylenes, total (ug/kg)	24	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	<15.0	11000f	420000
Cadmium (mg/kg)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	7.4h	na
Chromium (mg/kg)	18	30	20	42	33	29	41	25	12	16	<5.0	20	2500i	na
Lead (mg/kg)	14	6.0	8.0	6.8	56	6.9	10	110	6.2	4.6	3.8	6.6	750h	na
Nickel (mg/kg)	30	24	24	33	55	26	26	37	11	11	<5.0	21	150k	na
Zinc (mg/kg)	70	26	26	37	93	24	54	88	54	42	57	43	600k	na

Notes:

a - Atypical gasoline (weathered)

b - Sample chromatogram does not resemble typical diesel pattern. Hydrocarbons within the diesel range quantified as diesel. Sample appears to be weathered gasoline.

c - Sample chromatogram does not resemble typical diesel pattern. Diesel result is carry over from heavier end hydroocarbons present. Hydrocarbons within the diesel range quantified as diesel.

d - Sample chromatogram does not resemble typical diesel pattern; possibly weathered diesel. Hydrocarbons within the diesel range quantified as diesel.

* ESL - Environmental Screening Levels assume non drinking water, industrial setting, shallow soil. ESLs from SFRWQCB ESL Surfer, October 2005.

Where the lowest ESL has been exceeded, sample result in bold. Below are notes which identify what each of the listed lowest ESLs represent:

f Leaching ESL

g Aquatic habitat ESL

h Direct exposure ESL

l Gross contamination ESL

j Vapor emmissions to indor air ESL

k Terrestrial ecological impacts ESL

Appendix A, Table 1
Golder Associates Soil Sample Analytical Data
700 Independent Road
Oakland, California

Boring Number	B-6	B-7	B-7	B-8	B-8	B-8	Lowest	Vapor Emissions to Indoor Air
Sample Depth (feet bgs)	5	5	10	5	10	15	ESL	ESL
Date Collected	8/17/2004	8/17/2004	8/17/2004	8/17/2004	8/17/2004	8/17/2004		
TPH as Gasoline (mg/kg)	<1.0	2.1e	<1.0	51a,f	210a,f	190a,f	400	na
TPH as Diesel (mg/kg)	15c	3.2c	<1	5.9d	25d,b	25d,b	500	na
1,2 Dibromoethane (EDB) (ug/kg)	<5	<5	<5	<5	<200	<5	20	20
1,2 Dichloroethane(EDC) (ug/kg)	<5	<5	<5	<5	<200	<5	70	70
Benzene (ug/kg)	<5	<5	<5	**520**	**1600**	**1200**	380	510
Ethylbenzene (ug/kg)	<5	<5	<5	57	1600	1100	32000	390000
Methyl tert butyl ether (MTBE) (ug/kg)	<5	<5	<5	<5	<200	<5	5600	5600
Toluene (ug/kg)	<5	<5	<5	28	<200	<5	9300	310000
Xylenes, total (ug/kg)	<5	<5	<5	98	1600	1000	11000	420000
t-butyl alcohol (ug/kg)	<25	<25	<25	<25	<1000	<25	110000	na
1,2,4 Trimethylbenzene (ug/kg)	<5	<5	<5	<5	2700	2100	na	na
Naphthalene (ug/kg)	<5	<5	<5	52	650	630	1500	1500
n-Propyl benzene (ug/kg)	<5	<5	<5	460	500	330	na	na
1,3,5 Trimethylbenzene (ug/kg)	<5	<5	<5	39	750	540	na	na
n Butyl benzene	<5	<5	<5	160	400	290	na	na
Isopropylbenzene	<5	<5	<5	120	<200	98	na	na
sec-Butyl benzene	<5	<5	<5	46	<200	<5	na	na
4-Isopropyl toluene	<5	<5	<5	<5	<200	71	na	na

a - Unmodified or weakly modified gasoline is significant,
b - Diesel range compounds are significant, no recognizable pattern.
c - Oil range compounds are significant.
d - Gasoline range compounds are significant.
na - Not available
e - Strongly aged gasoline and diesel range compounds significant
f - No recognizable pattern
ESL - Environmental Screening Levels assume non drinking water, industrial setting, shallow soil. ESLs from SFRWQCB ESL Surfer, October 2005.
Where lowest ESL exceeded, sample result in bold.

Table 1
Chemical Analytical Data for Soil and Ground Water Samples
700 Independent Road
Oakland, California

	Soil Sample Location				Soil Boring B8 (Golder Associates, 8/04)				Soil ESL
	South End of Tank (S1)	North End of Tank (S2)	Dispenser	Stockpile Four-Point Composite	Soil	Soil	Soil	Ground water (mg/L)	
Depth (feet)	8	8	1	---	5	10	15		
Petroleum Hydrocarbons									
TPHg	**877**	236	0.185	0.104	51 a,m	210 a,m	190 a,m	**54 a**	400
TPHd	**5090**	9.46	246	236	5.9 d	25 d,b	25 d,b	**7.4 d**	500
Aromatic Compounds									
Benzene	<0.010	<0.010	<0.010	<0.010	**0.52**	**1.6**	**1.2**	**9.8**	0.38
Ethylbenzene	3.8	2.8	<0.010	<0.010	0.057	1.6	1.1	**1.5**	32
Toluene	<0.010	<0.010	<0.010	<0.010	0.028	<0.200	<0.050	**0.93**	9.3
Xylenes	<0.010	**2.9**	<0.010	0.018	0.098	**1.6**	1	**3.1**	11
MTBE	<0.010	<0.010	<0.010	<0.010	<0.020	<0.200	<0.050	<0.100	5.6
Metals									
Cadmium	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA	7.4
Chromium	28	46	23	57	NA	NA	NA	NA	58
Lead	7.0	6.2	15	19	NA	NA	NA	NA	750
Nickel	21	44	28	26	NA	NA	NA	NA	150
Zinc	31	38	67	54	NA	NA	NA	NA	600
Other Volatile Organics									
n-Butyl benzene	NA	NA	NA	NA	0.16	0.4	0.29	<0.100	
Isopropylbenzene	NA	NA	NA	NA	0.12	<0.200	0.98	<0.100	
1,2,4 Trimethylbenzene	NA	NA	NA	NA	<0.020	2.7	2.1	0.93	
sec-Butyl benzene	NA	NA	NA	NA	0.046	<0.200	<0.050	<0.100	
4-Isopropyl toluene	NA	NA	NA	NA	<0.020	<0.200	0.071	<0.100	
Naphthalene	NA	NA	NA	NA	0.052	0.65	0.63	0.19	1.5
n Propyl benzene	NA	NA	NA	NA	0.46	0.5	0.33	0.12	
1,3,5 Trimethylbenzene	NA	NA	NA	NA	0.039	0.75	0.54	0.3	

Notes:

Samples "S1," "S2," "Dispenser," and "Stockpile Four-Point Composite" collected by Kleinfelder on August 17, 2005
Sample "B8" collected by Golder on August 17, 2004
All soil sample results in mg/kg, ground water sample in mg/L.
TPHg = total petroleum hydrocartbons as gasoline
TPHd = total petroleum hydrocartbons as diesel
MTBE = methyl tert butyl ether
ESL (Environmental Screeneing Level) for non drinking water, industrial site, soil < 10 feet
NA = not analyzed
a - unmodified or weakly modified gasoline is significant
b - diesel range compounds are significant, no recognizable pattern
d - gasoline range compounds are significant
m - no recognizable pattern
Chemicals detected in concentrations above screening levels are in**bold**.

KLEINFELDER
Bright People. Right Solutions.

Table 3
Total Petroleum Hydrocarbons and Volatile Organics in Soil
EOP - 700 Independent Road, Oakland, California

Sample Location	ESL		Pilot Test Event (First ISCO Treatment Event)							
			PS-1/PS-1A				PS-2/PS-2A			
Sample ID	Commercial/ Industrial (Shallow Soil)*	Commercial/ Industrial (Deep Soil)**	PS-1-5 (Shallow Soil)*	PS-1A-10 (Shallow Soil)*	PS-1-20 (Deep Soil)**	PS-1A-20 (Deep Soil)**	PS-2-10 (Deep Soil)**	PS-2A-10 (Shallow Soil)*	PS-2-15 (Deep Soil)**	PS-2A-20 (Deep Soil)**
Date Sampled			12/1/2008	1/12/2009	12/1/2008	1/12/2009	12/1/2008	1/12/2009	12/1/2008	1/12/2009
TPHd	180	180	<2.00	<2.00	<2.00	<2.00	78.1 a	16.1 b	143 a	<2.00
TPHg	180	180	330 a	<0.100	<0.100	0.120 a	1,500	260 bc	430	10 b
Benzene	0.27	2	<1	<0.001	<0.001	<0.001	16	2.2	2.5	0.16
Ethylbenzene	4.7	4.7	<1	<0.001	<0.001	<0.001	46	4.5	5.6	0.64
Toluene	9.3	9.3	<1	<0.001	<0.001	<0.001	<10	<1	1.0	<0.050
Xylenes, total	11	11	<1.5	<0.0015	<0.0015	<0.0015	40	4.1	9.4	0.80

Sample Location	ESL		Second ISCO Treatment Event															
			2PS-1/2PS-1A				2PS-2/2PS-2A								2PS-3/2PS-3A			
Sample ID	Commercial/ Industrial (Shallow Soil)*	Commercial/ Industrial (Deep Soil)**	2PS-1-10 (Shallow Soil)*	2PS-1A-10 (Shallow Soil)*	2PS-1-20 (Deep Soil)**	2PS-1A-20 (Deep Soil)**	2PS-2-7 (Shallow Soil)*	2PS-2A-7 (Shallow Soil)*	2PS-2-11 (Deep Soil)**	2PS-2A-11 ((Deep Soil)**	2PS-2-15 (Deep Soil)**	2PS-2A-15 (Deep Soil)**	2PS-2-20 (Deep Soil)**	2PS-2A-20 (Deep Soil)**	2PS-3-10 (Shallow Soil)*	2PS-3A-10 (Shallow Soil)*	2PS-3-21 (Deep Soil)**	2PS-3A-21 (Deep Soil)**
Date Sampled			5/26/2009	5/26/2009	5/26/2009	5/26/2009	5/26/2009	6/29/2009	5/26/2009	6/29/2009	5/26/2009	6/29/2009	5/26/2009	6/29/2009	5/26/2009	6/29/2009	5/26/2009	6/29/2009
TPHd	180	180	<2.0	<2.0	<2.0	<2.0	23.7d	15.2d	9.16d	129d	51.7d	264d	206d	11.7d	<2.0	3.45d	5.49d	18.7d
TPHg	180	180	<0.1	<0.1	<0.1	<0.1	1,200ab	190ab	53ab	750ab	1,700ab	180ab	3,000ab	250ab	8.2ab	37ab	64ab	170ab
Benzene	0.27	2	<0.01	<0.01	<0.01	<0.01	3.1	3	0.88	<1	3.6	<1	12	<1	0.16	<1	<1	<1
Ethylbenzene	4.7	4.7	<0.01	<0.01	<0.01	<0.01	8.6	<1	0.75	<1	7.4	<1	45	<1	0.094	<1	1.5	<1
Toluene	9.3	9.3	<0.01	<0.01	<0.01	<0.01	2.8	1.2	<0.050	<1	<1	<1	54	5.9	<0.05	<1	<1	2.6
Xylenes, total	11	11	<0.015	<0.015	<0.015	<0.015	19	4.7	0.31	12	8.8	3.1	180	44	<0.075	<1.5	2.1	8.4

Notes:
All results in milligrams per kilogram (mg/kg). Values in bold exceed corresponding ESLs.
a - Sample chromatogram does not resemble gasoline standard pattern.
b - Although TPH as Gasoline are present, reported value is significantly elevated due to the presence of heavy end hydrocarbons within C5-C12 quantitation range for Gasoline (possibly aged gasoline or carry over from fuel heavier than gasoline)
c - Estimated value
d - Sample chromatogram does not resemble typical diesel pattern (possibly fuel lighter than diesel). Lighter end hydrocarbons and hydrocarbon peaks within the diesel range quantified as diesel.
NE - Not established
NA - Not analyzed
* ESL - Environmental Screening Levels from San Francisco Regional Water Quality Control Board, Interim Final - November 2007 (revised May 2008). Lowest level reported from: Table B. Environmental Screening Levels. Shallow Soils (less or equal to 3 meters below ground surface). Groundwater IS NOT a current or potential drinking water source.
** ESL - Environmental Screening Levels from San Francisco Regional Water Quality Control Board, Interim Final - November 2007 (revised May 2008). Lowest level reported from: Table D. Environmental Screening Levels. Deep Soils (greater than 3 meters below ground surface). Groundwater IS NOT a current or potential drinking water source.
Acronyms:
TPHd - Total Petroleum Hydrocarbons as diesel
TPHg - Total Petroleum Hydrocarbons as gasoline

Table 4

Reported Volatile Organic Compounds and Total Petroleum Hydrocarbons in Soil

EOP - 700 Independent Road
Oakland, California

Sample ID	Depth (ft. bgs)	VOC (µg/Kg)							TPH-g (µg/Kg)	TPH-d (µg/Kg)
		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	EDB	EDC		
K-1	8	< 1,000	< 1,000	**5,400**	**4,500**	< 2,000	< 1,000	< 1,000	**210,000**	9,800b
	10.0	**250**	54.0	1,900	**2,900**	< 100	< 50.0	< 50.0	**220,000**	8,600b
	19.0	**3,000**	< 1,000	**7,100**	**17,000**	< 2,000	< 1,000	< 1,000	**420,000**	10,500b
K-2	4.0	< 5.00	**5,300**	< 5.00	< 15.0	< 100	< 0.005	< 5.00	< 50.0	12,000b
	8.0	**2,300**	2,400	**17,000**	**33,000**	< 4,000	< 2,000	< 2,000	**810,000**	18,000b
	10.0	**240**	< 25.0	510	560	< 50.0	< 25.0	< 25.0	**170,000**	5,700b
K-3	8.0	**580**	< 500	2,600	**3,400**	< 1,000	< 500	< 500	**130,000**	6,300b
	10.0	**120**	< 25.0	410	360	< 50.0	< 25.0	< 25.0	**210,000**	3,300b
	14.0	33.0	< 5.00	10.0	< 15.0	< 10.0	< 5.00	< 5.00	< 50.0	< 200
K-4	4.0	27.0	< 25.0	< 25.0	< 75.0	< 50.0	< 25.0	< 25.0	2,200	< 200
	8.0	**280**	< 25.0	28.0	< 75.0	< 50.0	< 25.0	< 25.0	3,100	< 200
	10.0	**210**	< 50.0	210	< 150	< 1,000	< 50.0	< 50.0	8,300	< 200
K-5	4.0	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 50.0	< 200
	8.0	< 25.0	< 25.0	< 25.0	< 75.0	< 50.0	< 25.0	< 25.0	2,400a	13,000c
	10.0	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 50.0	< 200
K-6	4.0	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 50.0	< 200
	8.0	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	480a	62,000c
	10.0	**520**	< 500	3,000	1,600	< 1,000	< 500	< 500	73,000	12,000b
K-7	4.0	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 50.0	< 200
	8.0	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 50.0	< 200
	12.0	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 50.0	< 200
K-8	4.0	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 50.0	32,000d
	8.0	< 500	< 500	< 500	<1,500	< 1,000	< 500	< 500	34,000a	8,400b
	10.0	< 25.0	< 25.0	85.0	< 75.0	< 50.0	< 25.0	< 25.0	14,000	< 200
K-9	4.0	7.20	< 5.00	< 5.00	24.0	< 10.0	< 5.00	< 5.00	270a	< 200
	8.0	< 5.00	< 5.00	3,600	< 15.0	< 10.0	< 5.00	< 5.00	170,000a	7,900b
K-10	8.0	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	240a	< 200
	10.0	< 5.00	< 5.00	10.0	< 15.0	< 10.0	< 5.00	< 5.00	1,010a	< 200
K-11	4.0	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 50.0	< 200
	8.0	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 50.0	< 200
K-12	4.0	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 50.0	2,800b
	8.0	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 50.0	< 200
K-13	4.0	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 50.0	< 200
	8.0	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 50.0	< 200
HA-1		< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 50.0	5,480
HA-2		< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 50.0	3,400c
ESL-TB		260	29,000	33,000	100,000	8,400	42.0	480	450,000	150,000
ESL-TD		11,000	29,000	33,000	420,000	8,400	1,000	1,800	4,200,000	150,000

Table 4 (cont.)

Reported Volatile Organic Compounds and Total Petroleum Hydrocarbons In Soil

EOP - 700 Independent Road
Oakland, California

Sample ID	Depth (ft. bgs)	VOC (µg/Kg)							TPH-g (µg/Kg)	TPH-d (µg/Kg)
		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	EDB	EDC		
K-14	5.5	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 100	< 200
	7.5	190	15.0	< 5.00	22.0	< 10.0	< 5.00	< 5.00	1,990b	18,000f
	10.0	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	1,200	< 200
	17.5	< 5.00	< 5.00	< 5.00	70.0	< 10.0	< 5.00	< 5.00	< 100	< 200
K-15	10.5	53.0	< 5.00	< 5.00	170	< 10.0	< 5.00	< 5.00	7,200	< 200
	15.0	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 100	< 200
	17.5	220	< 25.0	910	1,100	< 10.0	< 25.0	< 25.0	50,000	4,800d
K-16	7.5	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 100	3,700g
	11.5	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 100	< 200
	19.5	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 100	< 200
K-17	10.5	190	< 25.0	< 25.0	150	< 50.0	< 25.0	< 25.0	5,600	12,700d
	19.5	920	< 500	3,600	2,000	< 100	< 500	< 500	30,000	7,300d
	23.0	380	190	400	670	< 50.0	< 25.0	< 25.0	13,000	114,000d
	27.5	7.20	< 5.00	7.80	< 15.0	< 10.0	< 5.00	< 5.00	176	2,300d
K-18	6.0	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	143	< 200
	8.5	< 500	< 500	720	< 1,500	< 100	< 500	< 500	152,000h	18,700d
	25.0	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 100	2,300d
K-19	7.5	< 500	< 500	4,600	5,800	< 100	< 500	< 500	189,000j	17400d
	18.0	**11,000**	26,000	**33,000**	170,000	<10,000	< 5,000	< 5,000	1,900,000j	**200,000d**
	25.5	760	140	400	1,900	< 50.0	< 25.0	78.0	29,000j	9,890d
	31.5	160	< 12.5	13.0	49.0	< 25.0	< 12.5	32.0	780	< 200
K-20	7.7	< 500	< 500	< 500	< 1,500	< 100	< 500	< 500	10,500m	< 200
	14.0	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 100	< 200
	23.5	< 5.00	< 5.00	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 100	< 200
K-21	8.0	< 6.90	< 6.90	< 6.90	< 21.0	< 14.0	NA	NA	< 140	< 2,750
	20.0	< 5.70	< 5.70	< 5.70	< 17.0	< 11.0	NA	NA	< 110	< 2,260
	31.0	< 6.60	< 6.60	< 6.60	< 20.0	< 13.0	NA	NA	< 130	< 2,650
K-22	8.0	< 6.10	< 6.10	< 6.10	< 18.0	< 12.0	NA	NA	< 120	< 2,450
	21.0	< 6.00	< 6.00	< 6.00	< 18.0	< 12.0	NA	NA	< 120	< 2,410
	29.0	< 6.20	< 6.20	< 6.20	< 18.0	< 12.0	NA	NA	< 120	< 2,470
	40.0	< 5.90	< 5.90	< 5.90	< 18.0	< 12.0	NA	NA	< 120	< 2,360
K-23	8.0	< 6.60	< 6.60	< 6.60	< 20.0	< 13.0	NA	NA	< 130	< 2,640
	20.0	< 5.90	< 5.90	< 5.90	< 18.0	< 12.0	NA	NA	< 120	< 2,360
	27.0	< 5.90	< 5.90	< 5.90	< 18.0	< 12.0	NA	NA	< 120	< 2,340
	40.0	< 6.50	< 6.50	< 6.50	< 20.0	< 13.0	NA	NA	< 130	< 2,620
K-24	8.0	< 11.0	< 11.0	< 11.0	< 34.0	< 22.0	NA	NA	< 220	< 4,470
	20.0	< 5.90	< 5.90	< 5.90	< 18.0	< 12.0	NA	NA	< 120	< 2,370
	30.0	< 5.60	< 5.60	< 5.60	< 17.0	< 11.0	NA	NA	< 110	< 2,240
K-25	8.0	< 6.20	< 6.20	< 6.20	< 19.0	< 12.0	NA	NA	< 120	< 2,490
	20.0	< 5.90	< 5.90	< 5.90	< 18.0	< 12.0	NA	NA	< 120	< 2,350
	31.0	< 5.70	< 5.70	< 5.70	< 17.0	< 11.0	NA	NA	< 110	< 2,290
MW-3	7.5	< 500	< 500	< 500	< 1,500	< 100	< 500	< 500	83,800m	< 200
	10.0	< 500	< 500	< 500	< 1,500	< 100	< 500	< 500	61,300m	10,600d
	15.5	< 5.00	< 500	< 5.00	< 15.0	< 10.0	< 5.00	< 5.00	< 100	< 200
ESL - Table B		260	29,000	33,000	100,000	8,400	42.0	480	450,000	150,000
ESL-Table D		11,000	29,000	33,000	420,000	8,400	1,000	1,800	4,200,000	150,000

Table 4 (cont.)

Volatile Organic Compounds and Total Petroleum Hydrocarbons In Soil

EOP - 700 Independent Road
Oakland, California

Notes:

a - Does not match typical gasoline pattern. TPH value due to presence of non-target compounds within the TPH-g quantitation range.

b - Although TPH-g compounds are present, the reported result is elevated due to the presence of non-target compounds within the TPH-g quantitation range.

c - While TPH-g compounds are present, the pattern does not match typical gasoline pattern. TPH value includes significant amount of non-target compounds.

d - Sample chromatogam does not resemble typical diesel pattern. Lighter end hydrocarbons within the diesel range quantitated as diesel.

e - Does not match typical pattern. TPH value due to presence of non-target compounds within the TPH-g quantitation range (light end).

f - Sample chromatogram does not resemble typical diesel pattern (discrete peaks). Unidentified hydrocarbon peaks within the diesel range quantitated as diesel.

g - Sample chromatogram does not resemble typical diesel pattern. Diesel result is carry over from TPH as motor oil quantitation range. Hydrocarbons and hydrocarbon peak within the diesel range quantitated as diesel.

h - Not typical gasoline. TPH value does not include typical gasoline compounds.

j - Although TPH-g compounds are present, the reported value is elevated due to significant amount of heavy end hydrocarbons not typical of gasoline but within the TPH-g quantitation range.

k - Two fuels present. The first fuel is lighter than diesel. The second is heavier than diesel but lighter than motor oil. Hydrocarbons within the diesel range quantitated as diesel.

m - Not typical gasoline. TPH value does not include any target compounds.

* ESL-Table B - Environmental Screening Levels from San Francisco Regional Water Quality Control Board, November 2007, Table B. Shallow Soils (≤ 3 meters bgs), Commercial/Industrial land use only. Groundwater is NOT a current or potential source of drinking water.

* ESL-Table D - Environmental Screening Levels from San Francisco Regional Water Quality Control Board, November 2007, Table D. Deep Soils (> 3 meters bgs), Commercial/Industrial land use only. Groundwater is NOT a current or potential source of drinking water.

Bold - Corresponding ESL has been exceeded.

Samples from K-1 through K-13 collected: July 24, 25, and August 10, 2006
Samples from K-14 through K20, MW-1 and MW-3 collected March 4 - 6, 2007

Acronyms

bgs	below ground surface	MTBE	Methyl tert butyl ether
EDB	1,2 Dibromoethane (EDB)	TPH-g	Total Petroleum Hydrocarbons - gasoline
EDC	1,2 Dichloroethane (EDC)	TPH-d	Total Petroleum Hydrocarbons - diesel
ESL	Environmental screening level	mg/Kg	Milligrams per Kilogram
HA	Hand Auger sample collected along former dispenser line	µg/Kg	Micrograms per Kilogram
		VOC	Volatile Organic Compound
NE	Not established	NA	Not analyzed

McCampbell Analytical, Inc.
110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

	Client Project ID: #7000.2013; Independent Road Warehouse	Date Sampled: 08/17/04
		Date Received: 08/18/04
	Client Contact: Kin Leung	Date Extracted: 08/18/04
	Client P.O.: #1279	Date Analyzed: 08/18/04

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3550C Analytical methods: SW8015C Work Order: 0408243

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0408243-001A	B-1-1-5	S	11,g	5	94.8
0408243-002A	B1-2-15	S	ND	1	105
0408243-003A	B2-1-5	S	4.8,g	1	104
0408243-004A	B2-2-10	S	10,g	5	96.6
0408243-005A	B3-1-5	S	12,g,b	5	99.4
0408243-006A	B3-2-10	S	2.1,g	1	103
0408243-007A	B4-1-5	S	38,g,b	2	104
0408243-008A	B4-2-10	S	2.0,b	1	103
0408243-009A	B5-1-5	S	3.5,g,b	2	105
0408243-010A	B5-2-10	S	4.5,d,b,g	2	95.2
0408243-011A	B6-1-5	S	15,g	5	97.1
0408243-012A	B7-1-5	S	3.2,g	1	101
0408243-013A	B7-2-10	S	ND	1	99.5
0408243-014A	B8-1-5	S	5.9,d	1	108
0408243-015A	B8-2-10	S	25,d,b	1	105
0408243-016A	B8-3-15	S	25,d,b	1	117

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 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.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

Table 4

Reported Volatile Organic Compounds and Gasoline in Soil Vapor

EOP - 700 Independent Road, Oakland, California

Analytes (µg/m³)	SV-1	SV-2	SV-3	SV-4	SV-5	ESL
Benzene	< 1.8	< 1.8	< 1.8	5.9	NC	290
Toluene	< 1.9	< 1.9	< 1.9	33	NC	180,000
Ethyl Benzene	< 2.2	< 2.2	< 2.2	6.2	NC	1,200,000
m,p-Xylene	< 4.0	< 4.0	< 4.0	27	NC	NE
o-Xylene	< 2.2	< 2.2	6.40	10	NC	NE
Xylenes, total	ND	ND	6.40	37	NC	410,000
MTBE	< 1.8	< 1.8	< 1.8	< 1.8	NC	31,000
Isopropanol	< 4.0	< 4.0	< 4.0	34	NC	NE
TPH-g	< 8,800	< 35,000	< 350	38,600j	NC	72,000

Notes:

* ESL - Environmental Screening Levels from San Francisco Regional Water Quality Control Board, October 2005, Table E. Shallow Soil Gas Screening Levels (≤ 3 meters bgs).

NC = No soil vapor collected in canister after 4 hours.

NE = Not established

ND = Not detected, reporting limits provided above.

j = Although the TPH as gasoline compounds are present, the reported value is elevated due to significant amount of heavy end hydrocarbons not typical of gasoline but within the TPH as gasoline quatitation range.

KLEINFELDER
Bright People. Right Solutions.

Table 4
Total Petroleum Hydrocarbons, Volatile Organics and Total Dissolved Solids in Groundwater
EOP - 700 Independent Road, Oakland, California

Sample Location	Date Sampled	TPHd	TPHg	Benzene	Ethylbenzene (EB)	1,2 Dichloroethane (EDC)	Ethylbenzene	Isopropylbenzene	Isopropyltoluene (4-)	Naphthalene	Propylbenzene (n-)	Toluene	Trimethylbenzene (1,2,4-)	Trimethylbenzene (1,3,5-)	Xylenes, total	Methyl-tert-butyl ether (MTBE)	Total Dissolved Solids (TDS)	Comments
MW-1	3/19/2007	350a	3,300	162	NA	<1.1	60.2	NA	NA	NA	NA	205	NA	NA	351	<1.1	NA	
	9/10/2007	315a	1,700b	145	0.9	<0.500	72.2	11.6	2.42	7.69	20.8	56.1	94.6	17.1	197	<500	NA	
	12/17/2007	186a	1,510b	204	2.41	<0.500	78.6	9.96	1.69	4.35	19	15.1	67	6.12	56.7	<0.500	14,000,000	
	3/28/2008	<100	12,000	1,020	NA	NA	161	NA	NA	NA	NA	19.1	NA	NA	60.0	<1.10	NA	
	6/11/2008	235a	4,700	721	<4.40	<4.40	160	18.9	NA	<52.8	<4.40	84.8	132	11.0	126	1.7	NA	
	12/1&2/2008	484f	2,900	295	<4.40	<4.40	137	36.7	NA	298	88.4	27.1	501	35.1	218	12	14,000,000	baseline - pre first ISCO treatment
	1/12/2009	264f	3,300	380	NA	NA	91	NA	NA	NA	NA	84	NA	NA	174	NA	14,000,000	1 month post first ISCO treatment
	3/12/2009	504	7,700	488	NA	NA	235	NA	NA	NA	NA	144	NA	NA	455	<4.40	NA	
	5/19/2009	152f	2,900	340	4.6	<4.4	79	19	<4.4	9.7	30	50	100	<4.4	62	<4.4	NA	pre second ISCO treatment
	6/30/2009	<100	870	99	NA	NA	33	NA	NA	NA	NA	15	NA	NA	34	NA	NA	1 month post second ISCO treatment
MW-2	3/19/2007	940a	38,000	11,600	NA	226	588	NA	NA	NA	NA	274	NA	NA	2,880	<13.2	NA	
	9/10/2007	1690a	52,100b	16,800	<22.0	611	1,120	69.1	<22.0	231	143	552	1,270	650	5,420	<22.0	NA	
	12/17/2007	3,770a	30,900b	13,300	<22.0	568	1,350	73	<22.0	227	118	172	1,230	352	2,330	<22.0	17,000,000	
	3/28/2008	300c	47,000	12,500	NA	NA	619	NA	NA	NA	NA	67.3	NA	NA	1,040	<22.0	NA	
	6/11/2008	1,030a	31,000	19,700	<44.0	542	1,090	<88.0	NA	<528	<44.0	81.0	154	731	1,410	<44.0	NA	
	12/1&2/2008	965f	53,000	20,500	<44.0	468	1,240	<88.0	NA	196	125	<44.0	1,200	66.9	1,180	<44.0	17,000,000	baseline - pre first ISCO treatment
	1/12/2009	2,500f	35,000	15,300	NA	NA	1,030	NA	NA	NA	NA	62.5	NA	NA	1,050	NA	13,000,000	1 month post first ISCO treatment
	3/12/2009	862	40,000	10,300	NA	NA	1,050	NA	NA	NA	NA	91.5	NA	NA	980	<44.0	NA	
	3/12/2009 Dup	NA	42,000	10,900	NA	NA	1,030	NA	NA	NA	NA	95.9	NA	NA	995	<44.0	NA	
	5/19/2009	2,670f	31,000	10,000	<88	180	1,100	<88	<44	130	120	92	750	110	730	<44	NA	pre second ISCO treatment
	6/30/2009	675f	20,000	7,300	NA	NA	400	NA	NA	NA	NA	<44	NA	NA	330	NA	NA	1 month post second ISCO treatment
	6/30/2009 Dup	624f	20,000	7,600	NA	NA	370	NA	NA	NA	NA	<44	NA	NA	300	NA	NA	
MW-3	3/19/2007	<100	<50	<0.500	NA	<0.500	<0.500	NA	NA	NA	NA	<0.500	NA	NA	<1.5	<0.500	NA	
	9/10/2007	<100	<50	<0.500	<0.500	<0.500	<0.500	<1.0	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.5	<0.500	NA	
	12/17/2007	<100	<50	<0.500	<0.500	<0.500	<0.500	<1.0	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<1.5	<0.500	8,600,000	
	3/28/2008	<100	<50	<0.500	NA	NA	<0.500	NA	NA	NA	NA	<0.500	NA	NA	<1.50	<0.500	NA	
	6/11/2008	<100	<50	<0.50	<0.50	<0.50	<0.50	<1.00	NA	<6.00	<0.50	<0.50	<0.50	<0.50	<1.50	<0.50	NA	
	12/1&2/2008	<100	<50	<0.50	<0.50	<0.50	<0.50	<1.00	NA	<1.00	<0.50	<0.50	<0.50	<0.50	<1.50	<0.50	7,700,000	baseline - pre first ISCO treatment
	1/12/2009	<100	<50	<0.50	NA	NA	<0.50	NA	NA	NA	NA	<0.50	NA	NA	<1.50	NA	8,800,000	1 month post first ISCO treatment
	3/12/2009	<100	<50	<0.500	NA	NA	<0.500	NA	NA	NA	NA	<0.500	NA	NA	<1.50	<0.500	NA	
	5/19/2009	<100	<50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<1.5	<0.50	NA	pre second ISCO treatment
	6/30/2009	<100	<50	<0.50	NA	NA	<0.50	NA	NA	NA	NA	<0.50	NA	NA	<1.5	NA	NA	1 month post second ISCO treatment
MW-4	1/31/2008	< 100	56.0e	< 0.500	NA	NA	< 0.500	NA	NA	NA	NA	<0.500	NA	NA	<1.50	<0.500	NA	
	3/28/2008	<100	61d	<0.500	NA	NA	<0.500	NA	NA	NA	NA	<0.500	NA	NA	<1.50	<0.500	NA	
	6/11/2008	<100	<50	<0.50	<0.50	<0.50	<0.50	<1.00	NA	<6.00	<0.50	<0.50	<0.50	<0.50	<1.50	<0.50	NA	
	12/1&2/2008	<100	<50	<0.50	<0.50	<0.50	<0.50	<1.00	NA	<1.00	<0.50	<0.50	<0.50	<0.50	<1.50	<0.50	NA	
	3/12/2009	<100	<50	<0.500	NA	NA	<0.500	NA	NA	NA	NA	<0.500	NA	NA	<1.50	<0.500	NA	
	6/29/2009	<100	<50	<0.50	NA	NA	<0.50	NA	NA	NA	NA	<0.50	NA	NA	<1.5	NA	NA	
MW-5	1/31/2008	544f	55.0e	<0.500	NA	NA	<0.500	NA	NA	NA	NA	<0.500	NA	NA	< 1.50	<0.500	NA	
	3/28/2008	<100	57d	<0.500	NA	NA	<0.500	NA	NA	NA	NA	<0.500	NA	NA	<1.50	<0.500	NA	
	6/11/2008	<100	<50	<0.50	<0.50	<0.50	<0.50	<1.00	NA	<6.00	<0.50	<0.50	<0.50	<0.50	<1.50	<0.50	NA	
	12/1&2/2008	<100	<50	<0.50	<0.50	<0.50	<0.50	<1.00	NA	<1.00	<0.50	<0.50	<0.50	<0.50	<1.50	<0.50	NA	
	3/12/2009	<100	<50	<0.500	NA	NA	<0.500	NA	NA	NA	NA	<0.500	NA	NA	<1.50	<0.500	NA	
	6/30/2009	<100	<50	<0.50	NA	NA	<0.50	NA	NA	NA	NA	<0.50	NA	NA	<1.5	NA	NA	
ESL*		210	210	46	NE	200	43	NE	NE	24	NE	130	NE	NE	100	1,800	NE	

Notes:
All results in micrograms per liter (ug/l). Values in bold exceed corresponding ESLs.
a - Sample chromatogram does not resemble typical diesel pattern (possibly fuel lighter than diesel). Lighter end hydrocarbons and hydrocarbon peaks within the diesel range quantified as diesel.
b - Although TPH as gasoline is present, result is elevated due to the presence of non-target compounds within the gasoline quantitative range.
c - Although TPH as Gasoline constituents are present, results are elevated due to the presence of non-target compounds within range of C5-C12 quantified as Gasoline.
d - Does not match typical gasoline pattern. TPH value contains only non-target compounds within gasoline quantitative range.
e - Does not match typical gasoline pattern. Reported values are the result of presence of non-gasoline compounds within the gasoline quantitation range.
f - Sample chromatogram does not resemble typical diesel pattern. Hydrocarbons within the diesel range quantitated as diesel.
NE - Not established
NA - Not analyzed
* ESL - Environmental Screening Levels from San Francisco Regional Water Quality Control Board, Interim Final - November 2007 (revised May 2008). Lowest level reported from:
Table B. Environmental Screening Levels. Groundwater IS NOT a current or potential drinking water source.
Acronyms:
TPHd - Total Petroleum Hydrocarbons as diesel
TPHg - Total Petroleum Hydrocarbons as gasoline

ATTACHMENT 5

Table 5

Reported Volatile Organic Compounds and Total Petroleum Hydrocarbons in Ground Water

EOP - 700 Independent Road

Oakland, California

Boring Number	K-1A	K-1B	K-2	K-3	K-4	* K-4	K-5	K-6	K-7A	K-7B	K-8	K-9	K-10	K-11	K-12	K-13	K-14	K-15	ESL
Total Boring Depth (feet)	16.0	32.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	32.0	16.0	16.0	20.0	16.0	24.0	24.0	45.0	24.0	
Sample Depth (bgs)	10.0	25.0	--	--	--	(duplicate)	--	--	10.0	25.0	--	--	--	--	--	--	--	--	
Date Sample Collected	7/25/2006	7/25/2006	7/24/2006	7/24/2006	7/24/2006	7/24/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	8/10/2006	8/10/2006	8/10/2006	8/10/2006	8/10/2006	3/4/2007	3/4/2007	
TPH-g (µg/L)	**32,000**	**37,000**	**42,000**	**16,000**	**15,000**	**16,000**	330	**5,500**	< 50.0	< 50.0	< 210	**7,200**	760	< 50.0	360	< 50.0	67.3a	671.6b	5,000
TPH-d (µg/L)	655b	**4,190b**	400b	<222	1,100b	670b	< 159	< 143	< 182	< 118	452b	371b	< 115	< 179	< 137	NA	< 100	< 100	2,500
TPH-mo (µg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 264	< 230	< 358	< 274	NA	NA	NA	2,500
Benzene (µg/L)	**11,700**	**13,800**	**9,290**	**3,830**	**2,510**	**3,580 / 3,340**	2.96	**715**	0.66	1.31	6.38	**1,340**	4.38	3.59	14.1	0.62	< 0.50	13.6	540
Toluene (µg/L)	88.0	**584**	**929**	148	62.4 / <105	< 42.0 / < 4.20	2.08	19.2	< 0.50	< 0.50	< 4.2	23.6	2.20	3.15	1.55	2.38	< 0.50	3.69	400
Ethylbenzene (µg/L)	**1,230**	**757**	**2,810**	**620**	**1,050 / 346**	**597 / 580**	< 1.00	**389**	< 0.50	< 0.50	39.6	**355**	22.8	1.28	19.7	0.88	< 0.50	7.43	300
Xylenes, total (µg/L)	788	2,500	3,140	305	59.6 / <315	< 126.0 / 26.6	< 3.00	34.7	< 1.50	< 1.50	< 12.6	130	3.70	4.35	21.1	2.79	< 1.50	21.4	5,300
MTBE (µg/L)	< 10.5	< 10.5	< 42.0	< 4.20	< 10.5 / <105	< 42.0 / 27.5	< 1.00	< 4.20	< 0.50	< 0.50	< 4.20	< 2.10	< 0.50	< 1.05	< 0.50	< 0.50	< 0.50	0.56	1,800
EDB (µg/L)	< 10.5	< 10.5	< 42.0	< 4.20	< 10.5 / <105	< 42.0 / < 4.20	< 1.00	< 4.20	< 0.50	< 0.50	< 4.20	< 2.10	< 0.50	< 1.05	< 0.50	< 0.50	< 0.50	< 0.50	150
EDC (µg/L)	206	586	71.4	< 4.20	< 10.5 / <105	< 42.0 / < 4.20	< 1.00	< 4.20	< 0.50	< 0.50	< 4.20	< 2.10	< 0.50	< 1.05	< 0.50	< 0.50	< 0.50	< 0.50	200

Boring Number	K-16	K-17	K-18	K-19	K-20	K-21		K-22	K-23	K-24		K-25		MW-1	MW-2	MW-3	MW-4	MW-5	ESL
Total Boring Depth (feet)	24.0	32.0	38.0	38.0	38.0	40.0		40.0	40.0	40.0		40.0		25.0	25.0	25.0	25.0	28.0	
Sample Depth (bgs)	--	--	--	--	--	18.0	40.0	24.0	30.0	27.0	35.0	28.0	36.0	--	--	--	--	--	
Date Sample Collected	3/4/2007	3/4/2007	3/5/2007	3/6/2007	3/6/2007	1/22/2008	1/22/2008	1/22/2008	1/23/2008	1/23/2008	1/23/2008	1/23/2008	1/23/2008	3/19/2007	3/19/2007	3/19/2007	1/31/2008	1/31/2008	
TPH-g (µg/L)	68.3a	**24,000**	1,240c	**33,100b**	142e	< 60.0	< 50.0	< 50.0	< 63.0	< 50.0	< 50.0	< 69.0	< 50.0	3,300	**38,000**	< 50.0	56.0n	55.0n	5,000
TPH-d (µg/L)	< 112	530d	150	370d	< 100	< 123	< 109	< 111	< 116	< 111	< 115	< 130	< 115	390d	940d	< 100	< 100	544p	2,500
TPH-mo (µg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,500
Benzene (µg/L)	< 0.50	**2,780**	2.73	**5,170**	< 0.50	< 0.595	< 0.50	< 0.50	< 0.63	< 0.50	< 0.50	< 0.69	< 0.50	162	**11,600**	< 0.50	< 0.50	< 0.50	540
Toluene (µg/L)	< 0.50	150	1.15	235	< 0.50	< 0.595	< 0.50	< 0.50	< 0.63	< 0.50	< 0.50	< 0.69	< 0.50	205	274	< 0.50	< 0.50	< 0.50	400
Ethylbenzene (µg/L)	< 0.50	774	28.8	1,010	< 0.50	< 0.595	< 0.50	< 0.50	< 0.63	< 0.50	< 0.50	< 0.69	< 0.50	60.2	**588**	< 0.50	< 0.50	< 0.50	300
Xylenes, total (µg/L)	< 1.50	563	14.1	955	< 1.50	< 1.79	< 1.50	< 1.50	< 1.89	< 1.50	< 1.50	< 2.07	< 1.50	351	2,880	< 1.50	< 1.50	< 1.50	5,300
MTBE (µg/L)	1.03	< 0.50	< 0.50	< 4.40	< 0.50	< 0.595	< 0.50	< 0.50	< 0.63	< 0.50	< 0.50	< 0.69	< 0.50	< 1.10	< 4.40	< 0.50	< 0.50	< 0.50	1,800
EDB (µg/L)	< 0.50	< 0.50	< 0.50	< 4.40	< 0.50	NA	NA	NA	NA	NA	NA	NA	NA	< 1.10	< 4.40	< 0.50	NA	NA	150
EDC (µg/L)	< 0.50	< 0.50	< 0.50	37.8	< 0.50	NA	NA	NA	NA	NA	NA	NA	NA	< 1.10	226	< 0.50	NA	NA	200

Notes:

a - Does not match typical gasoline pattern. TPH value due to presence of non-target compounds within the TPH-g quantitation range.

b - Although TPH-g compounds are present, the reported result is elevated due to the presence of non-target compounds within the TPH-g quantitation range.

c - While TPH-g compounds are present, the pattern does not match typical gasoline pattern. TPH value includes significant amount of non-target compounds.

d - Sample chromatogam does not resemble typical diesel pattern. Lighter end hydrocarbons within the diesel range quantitated as diesel.

e - Does not match typical pattern. TPH value due to presence of non-target compounds within the TPH-g quantitation range (light end).

f - Sample chromatogram does not resemble typical diesel pattern (discrete peaks). Unidentified hydrocarbon peaks within the diesel range quantitated as diesel.

g - Sample chromatogram does not resemble typical diesel pattern. Diesel result is carry over from TPH as motor oil quantitation range. Hydrocarbons and hydrocarbon peak within the diesel range quantitated as diesel.

h - Not typical gasoline. TPH value does not include typical gasoline compounds.

j - Although TPH-g compounds are present, the reported value is elevated due to significant amount of heavy end hydrocarbons not typical of gasoline but within the TPH-g quantitation range.

k - Two fuels present. The first fuel is lighter than diesel. The second is heavier than diesel but lighter than motor oil. Hydrocarbons within the diesel range quantitated as diesel.

m - Not typical gasoline. TPH value does not include any target compounds.

n - Does not match typical gasoline pattern. Reported values are the result of presence of non-gasoline compounds within the gasoline quantitation range.

p - Sample chromatogram does not resemble typical diesel pattern. Hydrocarbons within the diesel range quantitated as diesel.

* ESL - Environmental Screening Levels from San Francisco Regional Water Quality Control Board, November 2007, Table D. Deep Soils (> 3 meters bgs). Groundwater is NOT a current or potential source of drinking water.

Bold: Reported concentration exceeds respective ESL

Acronyms

EDB	1,2 Dibromoethane
EDC	1,2 Dichloroethane
ESL	Environmental Screening Level
mg/L	Milligrams per Liter
MTBE	Methyl tert butyl ether
bgs	below ground surface
NA	Not Analyzed
TPH-g	Total Petroleum Hydrocarbons - gasoline
TPH-d	Total Petroleum Hydrocarbons - diesel
TPH-mo	Total Petroleum Hydrocarbons - motor oil
µg/L	Micrograms per Liter

Table 2
Ground Water Analytical Results
700 Independent Road
Oakland, California

Boring Number	K-1A	K-1B	K-2	K-3	K-4	K-4	K-5	K-6	K-7A	K-7B	K-8	K-9	K-10	K-11	K-12	K-13	Lowest ESL*	Vapor Emissions to Indoor Air ESL*
Total Boring Depth (feet)	16	32	16	16	16		16	16	16	32	16	16	20	16	24	24		
Depth to First (Free) Water (feet)	8.5		5.5	13	6		6.5	8	9		14	5.5	18.5	13	18	19		
Sample Depth (feet)	10	25				duplicate			10	25								
Date Sample Collected	7/25/2005	7/25/2006	7/24/2006	7/24/2006	7/24/2006	7/24/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	7/25/2006	8/10/2006	8/10/2006	8/10/2006	8/10/2006	8/10/2006		
TPH as Gasoline (mg/L)	**32**	**37**	**42**	**16**	**15**	**16**	0.33	**5.5**	<0.050	<0.05	<0.210	**7.2**	**0.76**	<0.050	0.36	<0.050	0.5g	na
TPH as Diesel (mg/L)	**0.655b**	**4.19b**	**0.4b**	<0.222	**1.1b**	**0.67b**	<0.159	<0.143	<0.182	<0.118	0.452b	0.371b	<0.115	<0.179	<0.137	NA	0.64g	na
TPH as Motor Oil (mg/L)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.264	<0.230	<0.358	<0.274	NA	0.64g	na
1,2 Dibromoethane (ug/L)	<10.5	<10.5	<42.0	<4.2	<10.5 / <105	<42.0 / <4.20	<1.0	<4.2	<0.5	<0.5	<4.2	<2.10	<0.5	<1.05	<0.5	<0.5	510j	510
1,2 Dichloroethane (ug/L)	206	586	71.4	<4.2	<10.5 / <105	<42.0 / <4.20	<1.0	<4.2	<0.5	<0.5	<4.2	<2.10	<0.5	<1.05	<0.5	<0.5	690j	690
Benzene (ug/L)	**11700**	**13800**	**9290**	**3830**	**2510**	**3580 / 3340**	2.96	**715**	0.66	1.31	6.38	**1,340**	4.38	3.59	14.1	0.620	46g	1800
Ethylbenzene (ug/L)	**1230**	**757**	**2810**	**620**	**1050 / 346**	**597 / 580**	<1.0	**389**	<0.5	<0.5	39.6	**355**	22.8	1.28	19.7	0.880	290g	170000
Methyl tert butyl ether (MTBE) (ug/L)	<10.5	<10.5	<42.0	<4.2	<10.5 / <105	<42.0 / 27.5	<1.0	<4.2	<0.5	<0.5	<4.2	<2.10	<0.5	<1.05	<0.5	<0.5	1800i	80000
Toluene (ug/L)	88	**584**	**929**	**148**	62.4 / <105	<42.0 / <4.20	2.08	19.2	<0.5	<0.5	<4.2	23.6	2.20	3.15	1.55	2.38	130g	530000
Xylenes, total (ug/L)	**788**	**2500**	**3140**	**305**	59.6 / <315	<126.0 / 26.6	<3.0	34.7	<1.5	<1.5	<12.6	**130**	3.70	4.35	21.1	2.79	100g	160000
Cadmium (mg/L)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	1.1g	na
Chromium (mg/L)	<0.005	0.009	<0.005	0.042	0.007	0.007	<0.005	<0.005	0.016	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	0.18g	na
Lead (mg/L)	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	0.08	<0.015	<0.015	<0.015	<0.015	<0.015	0.0025g	na
Nickel (mg/L)	**0.018**	**0.071**	**0.027**	**0.12**	**0.035**	**0.045**	<0.010	<0.010	**0.018**	**0.037**	**0.019**	**0.030**	**0.040**	**0.014**	**0.016**	**0.029**	0.0082g	na
Zinc (mg/L)	0.01	0.039	0.006	0.061	0.02	0.005	<0.005	0.038	0.04	<0.005	**0.082**	0.022	**0.086**	0.0064	0.013	0.0086	0.081g	na

Notes:

a - Atypical gasoline (weathered)

b - Sample chromatogram does not resemble typical diesel pattern. Hydrocarbons within the diesel range quantified as diesel. Sample appears to be weathered gasoline.

c - Sample chromatogram does not resemble typical diesel pattern. Diesel result is carry over from heavier end hydrocarbons present. Hydrocarbons within the diesel range quantified as diesel.

d - Sample chromatogram does not resemble typical diesel pattern; possibly weathered diesel. Hydrocarbons within the diesel range quantified as diesel.

* ESL - Environmental Screening Levels assume non drinking water, industrial setting, shallow soil. ESLs from SFRWQCB ESL Surfer, October 2005.
Where the lowest ESL has been exceeded, sample result in bold. Below are notes which identify what each of the listed lowest ESLs represent:

- f Leaching ESL
- g Aquatic habitat ESL
- h Direct exposure ESL
- i Gross contamination ESL
- j Vapor emmissions to indor air ESL
- k Terrestrial ecological impacts ESL

na - Not available

NA - Not Analyzed

Appendix A, Table 2
Golder Associates Grab Ground Water Analytical Results
700 Independent Road
Oakjland, California

Boring Number	B-6	B-7	B-8	Lowest	Vapor
Total Boring Depth (feet)	12	16	20	ESL	Emission
Depth to First (Free) Water (feet)	7	8.5	na		to Indoor
Sample Depth (feet)	na	na	na		Air
Date Collected	8/17/2004	8/17/2004	8/17/2004		ESL
TPH as Gasoline (mg/L)	<0.050	<0.050	**54a**	0.5	na
TPH as Diesel (mg/L)	0.22b,c	<50	**7.4d**	0.64	na
1,2 Dibromoethane (ug/L)	<0.5	<0.5	<0.5	510	510
1,2 Dichloroethane (ug/L)	<0.5	<0.5	<0.5	690	690
Benzene (ug/L)	<0.5	<0.5	**9800**	46	1800
Ethylbenzene (ug/L)	<0.5	<0.5	**1500**	290	170000
Methyl tert butyl ether (MTBE) (ug/L)	<0.5	<0.5	<0.5	1800	80000
Toluene (ug/L)	0.62	<0.5	**930**	130	530000
Xylenes, total (ug/L)	<0.5	<0.5	**3100**	100	160000
t-butyl alcohol (ug/L)	<0.5	9	<0.5	18000	na
1,2,4 Trimethylbenzene (ug/L)	<0.5	<0.5	930	na	na
Naphthalene (ug/L)	<0.5	<0.5	**190**	24	11000
n-Propyl benzene (ug/L)	<0.5	<0.5	120	na	na
1,3,5 Trimethylbenzene (ug/L)	<0.5	<0.5	300	na	na

a - Unmodified or weakly modified gasoline is significant,
b - Diesel range compounds are significant, no recognizable pattern.
c - Oil range compounds are significant.
d - Gasoline range compounds are significant.
ESL - Environmental Screening Levels assume non drinking water, industrial setting, shallow soil.
ESLs from SFRWQCB ESL Surfer, October 2005.
Where lowest ESL exceeded, sample result in bold. Lowest ESL is generally for aquatic habitats.
na - Not available

Table 6
Other Organic and Inorganic Compounds in Groundwater
EOP - 700 Independent Road, Oakland, California

Sample Location	MW-1		MW-2		MW-3		ESL*
Date Sampled	12/1/2008	1/12/2009g	12/2/2008	1/12/2009g	12/2/2008	1/12/2009g	
Arsenic	<0.010	<0.5	0.031	<0.5	<0.010	<0.5	50,000
Barium	0.098	<0.5	0.130	<0.5	0.140	<0.5	50,000
Cadmium	<0.0050	<0.25	<0.0050	<0.25	<0.0050	<0.25	50,000
Calcium	100	190	220	240	110	120	NE
Chromium (Total)	<0.0050	<0.25	0.045	<0.25	0.057	<0.25	NE
Copper	<0.010	<0.5	0.13	<0.5	0.11	<0.5	50,000
Iron	2.2	9.4	29	24	39	15	NE
Lead	<0.0050	<0.25	0.02	<0.25	0.006	<0.25	50,000
Magnesium	210	350	300	320	120	130	NE
Potassium	34	<50	18	<50	10	<50	NE
Selenium	<0.010	<0.5	<0.010	<0.5	<0.010	<0.5	50,000
Sodium	5,700	4,700	7,100	4,000	3,300	2,700	NE
Total Organic Carbon	8.7	11	540	55	16	8.3	NE
Alkalinity as CaCO3	1,100	1,400	1,800	1,800	2,000	2,000	NE
Ferrous Iron	<0.10	0.29	2.9	<0.10	<0.10	<0.10	NE
Hexavalent Chromium	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	50,000

Notes:
All results in micrograms per liter (ug/l). Values in bold exceed corresponding ESLs.
NE - Not established
NA - Not analyzed

* ESL - Environmental Screening Levels from San Francisco Regional Water Quality Control Board, Interim Final - November 2007 (revised May 2008). Lowest level reported from: Table B. Environmental Screening Levels. Groundwater IS NOT a current or potential drinking water source.

Acronyms:
TPH-d - Total Petroleum Hydrocarbons - diesel
TPH-g - Total Petroleum Hydrocarbons - gasoline

McCampbell Analytical, Inc.

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

	Client Project ID: #7000.2013; Independent Road Warehouse	Date Sampled: 08/17/04
		Date Received: 08/18/04
	Client Contact: Kin Leung	Date Extracted: 08/18/04
	Client P.O.: #1279	Date Analyzed: 08/18/04

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0408243

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0408243-017B	B1-GW-04	W	ND	1	97.6
0408243-018B	B2-GW-04	W	ND	1	93.5
0408243-019B	B4-GW-04	W	150,b	1	110
0408243-020B	B5-GW-04	W	ND	1	110
0408243-021B	B6-GW-04	W	220,b,g	1	96.8
0408243-022B	B7-GW-04	W	ND	1	104
0408243-023B	B8-GW-04	W	7400,d	10	107

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 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.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

	Client Project ID: #7000.2013; Independent Road Warehouse	Date Sampled: 08/17/04
		Date Received: 08/18/04
	Client Contact: Kin Leung	Date Extracted: 08/18/04-08/19/04
	Client P.O.: #1279	Date Analyzed: 08/18/04-08/19/04

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

Extraction method: SW5030B Analytical methods: SW8015Cm Work Order: 0408243

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
017B	B1-GW-01:03	W	ND	1	103
018B	B2-GW-01:03	W	ND	1	101
019B	B4-GW-01:03	W	ND	1	103
020B	B5-GW-01:03	W	ND	1	105
021B	B6-GW-01:03	W	ND	1	101
022B	B7-GW-01:03	W	ND	1	101
023B	B8-GW-01:03	W	54,000,a	200	--#

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

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/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 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 dexived 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.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

Drilling method: Direct Push

Date Completed: 7/24/06

Logged By: J. Williams

Total Depth: 32.0 ft

Notes: Hammer Wt: None

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
0							**ASPHALT** - approximately 6 inches thick	
1							**Medium SAND (SP)** - dark yellowish-brown, wet, loose, poorly graded, clasts 0.5 to 1.0cm	
2							**SAND and GRAVEL (SW)** - dark yellowish-brown, dry, loose. well-graded	
3							**SILTY CLAY (CL)** - dark olive-gray, moist, soft, with stone fragments	
4	K1-4'			75	1.2			
5							**ORGANIC CLAY (OL)** - very dark brown, moist, hydrocarbon odor	
6								
7								
8	K1-8'			100	351		**CLAY with SILT (CL)** - dark greenish-gray, moist, stiff, heavy hydrocarbon odor	▽
9							**ORGANIC CLAY (OL)** - very dark brown, wet, soft, hydrocarbon odor	
10	K1-10'				359		**CLAY with SILT (CL)** - dark greenish-gray, moist, soft, hydrocarbon odor	
11							**SILTY CLAY (CL)** - olive-brown, moist, stiff	
12				100				
13								
14								
15								
16				100				Boring Part A Terminated at 16 feet below ground surface Dual Tube Boring to 32 feet
17								
18								

KLEINFELDER

PROJECT NO. 54504-3

LOG OF BORING NO. K1

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

L:\2005\06\PROJECT\54504\54504.GPJ

9/11/2006 7:38:28 AM

ATTACHMENT 6

Date Completed: 7/24/06
Logged By: J. Williams
Total Depth: 32.0 ft
Sampler:
Hammer Wt: None

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
20	K1-19'			100	1510	SC	**Medium SAND with CLAY (SC)** - olive-gray, wet, loose, poorly graded, heavy hydrocarbon odor - increasing grain size	
	K1-22'			100	2.2	CL	**SILTY CLAY (CL)** - olive-brown with gray lenses, moist, soft, hydrocarbon odor	
25	K1-25'			100	66.1			
30				100			**Boring terminated at approximately 32 feet.**	
35								

KLEINFELDER

PROJECT NO. 54504-3

LOG OF BORING NO. K1

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

(cont'd)

L:\2006\06PROJECTS\54504\54504.GPJ

9/11/2006 7:38:28 AM

Drilling method: Direct Push

Date Completed: 7/24/06

Logged By: J. Williams

Total Depth: 16.0 ft

Notes:

Hammer Wt: None

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
0							**ASPHALT** - approximately 12 inches thick	
1							**Fine SAND with GRAVEL (SP)** - light gray, dry, dense, poorly graded, clasts 0.2 to 1.0cm	
2							**CLAYEY SAND (SC)** - dark yellowish-brown, dry, loose, well graded	
3								
4	K2-4'			100	0.0		**CLAY (CH)** - very dark gray, moist, medium stiff, with stone fragments, hydrocarbon odor	
5							**CLAY (CL)** - dark gray, moist, soft	▽
6							**SANDY CLAY (CL)** - very dark brown, wet, soft, heavy hydrocarbon odor	
7					108		**SANDY CLAY (CL)** - dark gray, wet, soft, hydrocarbon odor	
8	K2-8'			100	22.5			
9								
10	K2-10'				347		**CLAY (CH)** - dark olive-gray, moist, stiff, heavy hydrocarbon odor	
11								
12				100				
13								
14								
15							**CLAYEY SAND (SC)** - olive-brown, moist, dense, poorly graded	
16				100			**Boring terminated at approximately 16 feet.**	
17								
18								

KLEINFELDER

PROJECT NO. 54504-3

LOG OF BORING NO. K2

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

L:\2006\06PROJECTS\54504\54504.GPJ

9/11/2006 7:38:38 AM

Drilling method: Direct Push

Date Completed: 7/24/06

Logged By: J. Williams

Total Depth: 16.0 ft

Notes: Hammer Wt: None

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
					23.3		**ASPHALT** - approximately 6 inches thick	
1							**SAND and GRAVEL (SP)** - gray, dry, loose, poorly graded, clasts 0.5 to 2.0cm	
2							**SANDY SILTY CLAY (CL)** - dark yellowish-brown, dry, loose, with stone fragments	
3							**SANDY CLAY (CL)** - dark olive-gray, with stone fragments 0.5-1.5 cm, hydrocarbon odor	
4	K3-4'			100	23.3			
5							**CLAY (OL)** - very dark brown, moist, soft, with organic material, heavy hydrocarbon odor	
6								
7							**CLAY (CL)** - olive-gray, wet, soft, with stone fragments smaller than 0.25cm, hydrocarbon odor	
8	K3-8'			75	649			
9								
10	K3-10'				176		**SANDY CLAY (CL)** - olive-brown, moist, hard	
11								
12				100				
13								▽
14	K3-14'				268		**SANDY CLAY (CL)** - very dark brown, wet, soft, heavy hydrocarbon odor	
15							**CLAYEY SAND (SC)** - olive-brown, wet, dense, well-graded	
16				100			**Boring terminated at approximately 16 feet.**	
17								
18								

KLEINFELDER

PROJECT NO. 54504-3

LOG OF BORING NO. K3

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

L:\2005\06\PROJECT\54504\54504.GPJ

9/11/2006 7:38:37 AM

Drilling method: Direct Push

Date Completed: 7/24/06

Logged By: J. Williams

Total Depth: 16.0 ft

Notes: _____ Hammer Wt: None

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
							ASPHALT - approximately 6 inches thick	
1							**SAND with GRAVEL (SP)** - light olive-brown, dry, loose, poorly graded, clasts 0.25 to 1.5cm	
2							**CLAY (CL)** - very dark greenish-gray, moist, soft, with rock fragments 0.5 to 2cm	
3							**SAND and GRAVEL (SW)** - dark yellowish-brown, dry, loose, well-graded	
4	K4-4'			100	1.0		**SANDY CLAY (CL)** - dark brown, moist, hard	
5								
6							**SAND and GRAVEL (SW)** - light olive-brown, dry, loose. well-graded	▽
7							**ORGANIC SILTY CLAY (OL)** - very dark brown, wet, soft, hydrocarbon odor	
8	K4-8'			75	4.7			
9							- heavy hydrocarbon odor	
10	K4-10'				158		- saturated	
11							**SILTY CLAY (CL)** - olive-brown, wet, hard	
12				100				
13							**CLAY (CL)** - light olive-brown, moist, hard	
14								
15								
16				100			**Boring terminated at approximately 16 feet.**	
17								
18								

KLEINFELDER

PROJECT NO. 54504-3

LOG OF BORING NO. K4

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

L:\2006\6\PROJECTS\54504\54504.GPJ

9/11/2006 7:38:38 AM

Drilling method: Direct Push

Date Completed: 7/25/06

Logged By: J. Williams

Total Depth: 16.0 ft

Notes: _____ Hammer Wt: None

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
0							**ASPHALT** - approximately 6 inches thick	
1							**Medium SAND and GRAVEL (SP)** - light olive-brown, dry, loose, poorly graded, with clasts 0.5 to 2.0cm	
2								
3							**Medium SAND and GRAVEL (SP)** - dark yellowish-brown, damp, loose, poorly graded, clasts 0.5 to 2.0cm	
4	K5-4'			75	0.7			
5							**SANDY CLAY (CL)** - dark reddish-brown, moist, medium stiff, with stone fragments 0.5 to 1.5cm	
6								▽
7							**GRAVEL with fines (GP)** - very dark brown, wet, loose, some fines, clasts 0.5 to 5.0cm, hydrocarbon odor	
8	K5-8'			88	1.0		**ORGANIC CLAY (OL)** - black, wet, soft, with root material, hydrocarbon odor	
9								
10	K5--10'				0.7			
11							**CLAY with SILT (CL)** - light olive-brown with bluish mottling, wet, medium stiff	
12				75				
13							**CLAY with SILT (CL)** - light brown, wet, medium stiff	
14								
15								
16	K5-16			88	0.4		**Boring terminated at approximately 16 feet.**	
17								
18								

KLEINFELDER

PROJECT NO. 54504-3

LOG OF BORING NO. K5

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

L:\2006\06PROJECTS\54504\54504.GPJ

9/11/2006 7:38:39 AM

Drilling method: Direct Push

Date Completed: 7/25/06

Logged By: J. Williams

Total Depth: 16.0 ft

Notes:

Hammer Wt: None

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
							ASPHALT - approximately 6 inches thick	
1							**Medium SAND and GRAVEL (SP)** - light olive-brown, dry, loose, clasts 0.5 to 2.0cm, pooly graded	
2								
3							**SAND and GRAVEL (SP)** - dark yellowish-brown, damp, loose, clasts 0.5 to 2.0cm	
4	K6-4'			75	0.7			
5							**SANDY CLAY (CL)** - dark olive-brown, with rock fragments 0.5 to 1.5cm	
6								
7							**SANDY CLAY (CL)** - dark reddish-brown, with rock fragments 0.5 to 1.0cm	
							GRAVEL with fines (GP) - very dark brown, dry, loose, clasts 0.5 to 3.0cm, hydrocarbon odor	▽
8	K6-8'			100	1.5			
9							**SANDY CLAY (CL)** - olive-brown, wet, soft	
10	K6-10'				108		**SANDY CLAY (CL)** - very dark brown, wet, soft, hydrocarbon odor	
11							**SANDY CLAY (CL)** - gray, wet, soft, hydrocarbon-stained, heavy hydrocarbon odor	
12				88				
13							**CLAY with SILT (CL)** - light olive-brown with blue mottles, moist, medium stiff	
14								
15							**CLAY with SILT (CL)** - light brown, moist, medium stiff	
16				100			**Boring terminated at approximately 16 feet.**	
17								
18								

KLEINFELDER

PROJECT NO. 54504-3

LOG OF BORING NO. K6

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

L:\2006\54PROJECTS\54504\54504.GPJ

9/11/2006 7:36:40 AM

Drilling method: Direct Push

Date Completed: 7/25/06

Logged By: J. Williams

Total Depth: 32.0 ft

Notes:

Hammer Wt: None

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
0							**ASPHALT** - approximately 6 inches thick	
1–3							**SAND and GRAVEL (SP)** - light olive-brown, dry, loose, poorly graded, clasts 0.5 to 2.0cm	
3–4							**SAND and GRAVEL (SP)** - dark yellowish-brown, damp, loose, poorly graded, clasts 0.5 to 2.0cm	
4	K7-4'			88	0.3			
4–8							**SANDY SILTY CLAY (CL)** - very dark greenish-gray, moist, soft, coarse grains	
8	K7-8'			100	0.4			
9							**Coarse SAND (SW)** - brown, wet, loose, well-graded	▽
10							**SANDY SILTY ORGANIC CLAY (OL)** - black, wet, soft	
11–12							**CLAY (CL)** - gray, moist, medium soft	
12	K7-12'			100	0.2			
13–15							**CLAY with SILT (CL)** - light olive-brown with blue mottles, wet, soft	
16				100			**CLAY (CL)** - light brown, moist, stiff	Boring K7-A terminated at 16 feet; K7-B begins at 16 feet
17–18								

KLEINFELDER

PROJECT NO. 54504-3

LOG OF BORING NO. K7

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

L:\2006\06PROJECTS\54504\54504.GPJ

9/11/2006 7:38:41 AM

Date Completed: 7/25/06
Logged By: J. Williams
Total Depth: 32.0 ft
Sampler:
Hammer Wt: None

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
							CLAY (CL) - continued	
20	K7-20'			100	0.0		**Coarse SAND with CLAY (SW)** - light brown, wet, loose, well-graded	
				100			**CLAY with SILT (CL)** - olive-brown with blue mottles, moist, medium stiff	
25								
				100			**SANDY CLAY with SILT (CL)** - dark brown, wet, soft	
							CLAY with SILT (CL) - olive-gray, wet, soft	
30				100			**Boring terminated at approximately 32 feet.**	
35								

KLEINFELDER

PROJECT NO. 54504-3

LOG OF BORING NO. K7

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

(cont'd)

L:\2005\05PROJECTS\54504\54504.GPJ

9/11/2006 7:36:42 AM

Drilling method: Direct Push

Date Completed: 7/25/06

Logged By: J. Williams

Total Depth: 16.0 ft

Notes:

Hammer Wt: None

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
							ASPHALT - approximately 6 inches thick	
1							**SAND and GRAVEL (SP)** - gray, dry, loose, poorly graded, clasts up to 1.5cm	
2							**SAND and GRAVEL (SP)** - dark yellowish-brown, damp, loose, poorly graded, 0.5 to 1.5cm	
3							**CLAY with GRAVEL (CL)** - dark greenish-gray, moist, soft, clasts 0.5 to 2.0cm, hydrocarbon odor	
4	K8-4'			88	2.7			
5								
6							**SANDY CLAY (CL)** - black, organic material	
7							**SANDY CLAY (CL)** - black, moist, soft, with, slight hydrocarbon odor	
8	K8-8'			88	285		**SANDY CLAY (CL)** -gray, wet, soft, heavy hydrocarbon odor	
9							**CLAY with SILT (CL)** - olive gray, moist, soft	
10	K8-10'				9.2		**CLAY with SILT (CL)** - light brown, moist, stiff	
11								
12				100				
13								
14	K8-14'				0.4			▽
15								
16				80			**Boring terminated at approximately 16 feet.**	
17								
18								

KLEINFELDER

PROJECT NO. 54504-3

LOG OF BORING NO. K8

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

L:\2005\05PROJECTS\54504\54504.GPJ

9/11/2006 7:38:43 AM

Drilling method: Direct Push

Date Completed: 8/10/06

Logged By: J. Williams

Total Depth: 16.0 ft

Notes: _____ Hammer Wt: None

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
0							**ASPHALT** - approximately 6 inches thick	
1							**SAND and GRAVEL (SW)** - brown, damp, loose, well-graded, clasts 0.2 to 0.5cm	
2							**SILTY medium SAND with CLAY (SM)** - strong brown, moist, loose, well-graded	
3							**SAND and GRAVEL (SP)** - dark olive gray, damp, loose, clasts 0.2 to 0.5cm	
4	K9-4'			100	0.1		**CLAY with SAND (CL)** - dark gray, moist, soft	
5							Black decomposed organic material	
6							**ORGANIC CLAY (OL)** -black, saturated, soft	▽
7							**SANDY CLAY (CL)** - gray, wet, soft, hydrocarbon-stained, hydrocarbon odor	
8	K9-8'			100	1013			
9								
10							**CLAY (CL)** - olive-brown, moist, medium soft, hydrocarbon odor	
11							- increasing sand content	
12				100			**CLAY (CL)** - olive-brown, moist, medium soft	
13								
14								
15								
16				100			**Boring terminated at approximately 16 feet.**	
17								
18								

KLEINFELDER

PROJECT NO. 54504-3

LOG OF BORING NO. K9

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

L:\2006\06PROJECTS\54504\54504.GPJ

9/11/2006 7:36:44 AM

Drilling method: **Direct Push**

Date Completed: **8/10/06**

Logged By: **J. Williams**

Total Depth: **20.0 ft**

Notes:

Hammer Wt: **None**

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
0							**ASPHALT** - approximately 6 inches thick	
1							**Medium SAND (SW)** - yellowish-brown, dry, loose, well-graded	
2							**CLAY with GRAVEL (CL)** - dark olive-gray, moist, medium soft, clasts 0.2 to 1.0cm	
3							**SAND and GRAVEL with CLAY (SW)** - olive-brown, dry, loose, well-graded	
4	K10-4'			100	0.6			
5							**CLAY (CL)** - dark gray with blue mottles, moist, soft	
6								
7							- hydrocarbon odor	
8	K10-8'			88	14.5		**ORGANIC CLAY (OL)** - black, wet, soft	
9							**CLAY (CL)** - olive-brown, moist, soft, with hydrocarbon staining, hydrocarbon odor	
10	K10-10'				671			
11								
12				75				
13							**CLAY (CL)** - very dark gray, saturated, very soft	
14							**CLAY (CL)** - brown, moist, medium stiff	
15								
16				100				
17								
18								

KLEINFELDER

PROJECT NO. **54504-3**

LOG OF BORING NO. K10

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

L:\2005\06PROJECTS\54504\4584.GPJ

9/11/2006 7:38:30 AM

Sampler:

Date Completed: 8/10/06

Logged By: J. Williams

Total Depth: 20.0 ft

Hammer Wt: None

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
							CLAY (CL) - continued	▽
							medium SAND (SW) - brown, wet, loose, well-graded	
20				100			Boring terminated at approximately 20 feet.	
25								
30								
35								

KLEINFELDER

PROJECT NO. 54504-3

LOG OF BORING NO. K10

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

(cont'd)

L:\2006\PROJECTS\54504\54504.GPJ

9/11/2006 7:36:30 AM

Drilling method: Direct Push

Date Completed: 8/10/06

Logged By: J. Williams

Total Depth: 16.0 ft

Notes: _____ Hammer Wt: None

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
0							**ASPHALT** - approximately 6 inches thick	
1							**Medium SAND (SW)** - light brown, dry, loose, well-graded	
2							**CLAY with GRAVEL (CL)** - yellowish-brown, moist, medium stiff, clasts 0.2 to 0.5cm	
3							**SILTY CLAY (CL)** - dark gray, moist, soft	
4	K11-4'			100			**SILTY CLAY with GRAVEL (CL)** - dark gray, moist, medium stiff, clasts 0.2 to 0.5cm	
5							**SILTY CLAY (CL)** - gray, moist, soft	
6								
7							**ORGANIC CLAY (OL)** - black, wet, soft	
8	K11-8'			100	0.3			
9								
10								
11							**CLAY (CL)** - olive-brown, moist, soft	
12	K11-12'			100	0.1			▽
13							**CLAYEY SAND (SC)** - dark brown, saturated, loose	
14								
15								
16				100			**Boring terminated at approximately 16 feet.**	
17								
18								

KLEINFELDER

PROJECT NO. 54504-3

LOG OF BORING NO. K11

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

L:\2006\06PROJECTS\54504\54504.GPJ

9/11/2006 7:38:31 AM

Drilling method: Direct Push

Date Completed: 8/10/06

Logged By: J. Williams

Total Depth: 24.0 ft

Notes: _____ Hammer Wt: None

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
0							**ASPHALT** - approximately 6 inches thick	
1							**AGGREGATE BASEROCK** - approximately 30 inches thick, olive-brown	
2								
3							**CLAYEY SILTY coarse SAND with GRAVEL (SC)** - strong brown, moist, loose, well-graded, clasts 0.2 to 1.0cm	
4	K12-4'			63	0.6			
5							**CLAY with GRAVEL (CL)** - very dark olive-gray, moist, soft, clasts 0.5 to 1.0cm	
6							**CLAY (CL)** - dark brown, moist, soft	
7							**CLAYEY SAND with GRAVEL (SC)** - greenish-gray, dry, loose, well-graded	
8	K12-8'			88	0.1		**ORGANIC CLAY (OL)** - black, moist, soft	
9								
10							Black organic decomposed material	
11							**ORGANIC CLAY (OL)** - black, moist, very soft	
12	K12-12'			75	0.0		**CLAY (CL)** - gray, moist, soft	
13								
14	K12-14'				0.0			
15							**SILTY CLAY (CL)** - olive-brown, moist, soft	
16				100				
17							**CLAY (CL)** - brown, moist, soft	
18								

KLEINFELDER

PROJECT NO. 54504-3

LOG OF BORING NO. K12

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

L:\2006\06PROJECTS\54504\54504.GPJ

9/11/2006 7:38:32 AM

Date Completed: 8/10/06
Logged By: J. Williams
Total Depth: 24.0 ft
Sampler:
Hammer Wt: None

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
							CLAY (CL) - continued	
20				100			**Coarse SAND (SW)** - brown, wet, loose, well-graded	
							- increasing clay content	
							SAND (SW) - gray, wet, loose, well-graded, hydrocarbon-stained	
				100			**Boring terminated at approximately 24 feet.**	
25								
30								
35								

KLEINFELDER

PROJECT NO. 54504-3

LOG OF BORING NO. K12

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

(cont'd)

L:\2006\06PROJECTS\54504\54504.GPJ

9/11/2006 7:36:32 AM

Drilling method: Direct Push

Date Completed: 8/10/06

Logged By: J. Williams

Total Depth: 24.0 ft

Notes:

Hammer Wt: None

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
0							**ASPHALT** - approximately 6 inches thick	
1							**SAND with GRAVEL (SW)** - light brown	
2							**SANDY CLAY with GRAVEL (SC)** - strong brown, moist, soft, clasts 0.2 to 1.0cm	
3								
4	K13-4'			88	0.1			
5							**CLAY with SAND (CL)** - brown, moist, soft	
6								
7								
8	K13-8'			88	0.0		**Coarse SAND with GRAVEL (SP)** - dark gray, wet, loose, clasts 0.2 to 0.5cm	
9								
10							**ORGANIC CLAY (OL)** - mottled black, moist, soft, with organic material	
11							**CLAY (CL)** - gray, moist, soft	
12	K13-12'			63	0.0			
13								
14							**CLAY (CL)** - light olive-brown, moist, medium soft	
15								
16	K13-16'			100	0.0			
17								
18							**SANDY CLAY (CL)** - brown, moist, medium stiff	

KLEINFELDER

PROJECT NO. 54504-3

LOG OF BORING NO. K13

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

L:\2005\05PROJECTS\54504\54504.GPJ

9/11/2006 7:36:34 AM

Date Completed: 8/10/06
Logged By: J. Williams
Total Depth: 24.0 ft
Sampler:
Hammer Wt: None

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
							SANDY CLAY (CL) - continued	
20				100			**Coarse SAND (SW)** - brown, wet, loose, well-graded	▽
							CLAYEY fine SAND (SC) - brown, wet, loose, well-graded	
				100			**Boring terminated at approximately 24 feet.**	
25								
30								
35								

KLEINFELDER

PROJECT NO. 54504-3

LOG OF BORING NO. K13

700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

(cont'd)

L:\2006\06PROJECTS\54504\54504.GPJ
9/11/2006 7:38:34 AM

Date Completed: 3/4/07

Logged By: A. Dominguez

Total Depth: 45.0 ft

Drilling method: Direct Push

Hammer Wt: None

Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
1							**NO RECOVERY**		
2							**SILTY SAND (SM)** - yellow-brown, angular gravels up to 1" diameter		
3									
4									
5					1		**SANDY SILT (ML)** - olive-brown, with small gravel		
6							- dark gray, hydrocarbon odor		
7							**CLAY (CH)** - olive-brown, plastic		
8							**NO RECOVERY**		
9					3		**SILTY CLAY (CL)** - dark gray - black, hydrocarbon odor		
10									
11					0		**SILTY CLAY (CL)** - black, moist	▼	
12							- gravelly silts		
13							**CLAY (CH)** - olive, low moisture, medium plasticity		
14					0				
15									
16					0				
17									
18					0				
19									
20									
21									
22					0		**POORLY GRADED SAND (SP)**- yellow-brown, moist to wet		
23								▽	
24					0				
25							**SILTY CLAY (CL)** - olive		
26									
27					0		- gray-brown, plastic		
28									

KLEINFELDER

PROJECT NO. 54504-4

LOG OF BORING NO. K-14

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

B-1

L:\2007\07PROJECTS\54504\54504-4.GPJ

5/11/2007 10:53:17 AM

Date Completed: 3/4/07
Logged By: A. Dominguez
Total Depth: 45.0 ft
Sampler: Direct Push
Hammer Wt: None
Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
29					0		**CLAY (CH)** - gray-brown, plastic		
30									
31					0		- occasional coarse sand		
32									
33									
34					0				
35							**SILTY CLAY (CL)** - olive gray, slight plasticity		
36									
37					0				
38									
39							**SILTY SAND (SM)** - brown, some small gravels		
40							**CLAY (CL)** - olive, stiff		
41					0				
42									
43									
44									
45							**Boring terminated at approximately 45 feet.**		
46									
47									
48									
49									
50									
51									
52									
53									
54									
55									
56									

KLEINFELDER

PROJECT NO. 54504-4

LOG OF BORING NO. K-14

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE
B-1
(cont'd)

L:\2007\07PROJECTS\54504\54504-4.GPJ

5/11/2007 10:53:17 AM

Date Completed: 3/4/07
Logged By: A. Dominguez
Total Depth: 24.0 ft
Drilling method: Direct Push
Hammer Wt: None
Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
1–2							**NO RECOVERY**		
3–4							**GRAVELLY SAND (SP)** - yellow-brown, with angular 1 inch gravel		
4–6							**GRAVELLY SAND (SP)**- olive-brown		
6–10					8 40		**CLAYEY SAND (SC)**- black, hydrocarbon odor		
10–15							**CLAY (CH)**- gray, plastic - stiff		
15–18							**NO RECOVERY**		
18–20					8		**SILTY SAND (SM)**- olive		
20–22					460		**POORLY GRADED SAND (SP)**- olive, strong hydrocarbon odor		
22–23					180		**SILTY SAND (SM)**- gray		
23–24					5		**Boring terminated at approximately 24 feet.**		
25–28									

KLEINFELDER

PROJECT NO. 54504-4

LOG OF BORING NO. K-15

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE
B-2

L:\2007\07PROJECTS\54504\54504-4.GPJ

5/11/2007 10:53:17 AM

Date Completed: 3/4/07
Logged By: A. Dominguez
Total Depth: 24.0 ft

Drilling method: Direct Push
Hammer Wt: None
Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
1							**NO RECOVERY**		
2							**POORLY GRADED (GM)** - yellow-brown, silt-sand-gravel mix		
3					0.1				
4							**NO RECOVERY**		
5									
6							**POORLY GRADED GRAVELLY SAND (SP)** - dark brown		
7					0				
8							**NO RECOVERY**		
9									
10									
11							**POORLY GRADED SAND (SP)**		
12							**NO RECOVERY**		
13									
14									
15							**CLAYEY SAND (SC)** - gray, low plasticity		
16					0		**NO RECOVERY**		
17									
18							**CLAY (CL)** - gray-brown, with occasional fine gravel		
19					0				
20							**NO RECOVERY**		
21									
22									
23					0		**SANDY CLAY (CL)** - gray-brown		
24							**Boring terminated at approximately 24 feet.**		
25									
26									
27									
28									

KLEINFELDER

PROJECT NO. 54504-4

LOG OF BORING NO. K-16

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

B-3

L:\2007\07PROJECTS\54504\54504-4.GPJ

5/11/2007 10:53:17 AM

Date Completed: 3/4/07

Logged By: A. Dominguez

Total Depth: 32.0 ft

Drilling method: Direct Push

Hammer Wt: None

Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
1							NO RECOVERY		
2							POORLY GRADED SAND with GRAVEL (SP) - yellow-brown		
3									
4							POORLY GRADED SILTY SAND (SM)- gray		
5							NO RECOVERY		
6					5		POORLY GRADED GRAVELLY SAND (SP)		
7							SAND (SM)- sand-gravel mix		
8					11		GRAVELLY CLAY (CL) - dark gray		
9							NO RECOVERY		
10							SILTY SAND with GRAVEL (SM)- black, moist, strong hydrocarbon odor		
11							CLAY (CH) - gray, plastic		
12							CLAY (CH) - gray, plastic		
13									
14									
15							- stiff		
16							CLAY (CH) - gray, stiff, strong hydrocarbon odor		
17					400				
18									
19					30		- olive, clay stiff		
20							GRAVEL SAND (GC) - olive, heavy hydrocarbon odor, gravel-sand-mix		
21					500				
22									
23					1500				
24							POORLY GRADED GRAVELLY SAND (SP)- gray, moist to wet, strong hydrocarbon odor		
25									
26					900		CLAY (CH) - olive, stiff		
27									
28					8				

KLEINFELDER

PROJECT NO. 54504-4

LOG OF BORING NO. K-17

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

B-4

L:\2007\07PROJECTS\54504\54504-4.GPJ

5/11/2007 10:53:18 AM

Date Completed: 3/4/07
Logged By: A. Dominguez
Total Depth: 32.0 ft

Sampler: Direct Push
Hammer Wt: None
Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
29							**CLAY (CH)** - gray, stiff		
30		X			0.8				
31									
32							**Boring terminated at approximately 32 feet.**		
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									
51									
52									
53									
54									
55									
56									

KLEINFELDER

PROJECT NO. 54504-4

LOG OF BORING NO. K-17

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE
B-4
(cont'd)

L:\2007\07PROJECTS\54504\54504-4.GPJ
5/11/2007 10:53:18 AM

Date Completed: 3/5/07

Logged By: A. Dominguez

Total Depth: 38.0 ft

Drilling method: Direct Push

Hammer Wt: None

Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
0							**ASPHALT**- approximately 6 inches thick		
1							**GRAVELLY SAND (SP)**- olive, poorly graded		
2							**FAT CLAY (CH)** - gray-brown, stiff		
3									
4							- soft clay, slight hydrocarbon odor		
5									
6							- black, moist		
7							**SANDY CLAY (CL)** - black, with coarse sand particles		
8							- gray		
9					500		- gray, moist, strong hydrocarbon odor		
10							**FAT CLAY (CH)** - gray		
11									
12							- gray brown	▼	
13							- stiff		
14									
15									
16							**SANDY CLAY (CL)**		
17									
18									
19							**CLAYEY SAND (SC)** - olive, clayey sand-gravel mix		
20							**SANDY CLAY (CL)** - slightly plastic		
21									
22									
23							- olive, moderate plasticity		
24									
25									
26									
27							**POORLY GRADED GRAVELLY SAND (SP)**- wet		
28									

KLEINFELDER

PROJECT NO. 54504-4

LOG OF BORING NO. K-18

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

B-5

L:\2007\07PROJECTS\54504\54504-4.GPJ

5/11/2007 10:53:18 AM

Date Completed: 3/5/07
Logged By: A. Dominguez
Total Depth: 38.0 ft

Sampler: Direct Push
Hammer Wt: None
Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
29					20		**POORLY GRADED GRAVELLY SAND (SP)** - continued		
30							**SILT (ML)** - non plastic, stiff		
31					16		- stiff		
32		X							
33							**SILTS SAND (SM)** - fine sand with gravels		
34							- poorly graded, fine sands		
35									
36									
37		X					**CLAY (CL)** - stiff, slight plasticity		
38							**Boring terminated at approximately 38 feet.**		
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									
51									
52									
53									
54									
55									
56									

KLEINFELDER

PROJECT NO. 54504-4

LOG OF BORING NO. K-18

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE
B-5
(cont'd)

L:\2007\07PROJECTS\54504\54504-4.GPJ

5/11/2007 10:53:18 AM

Date Completed: 3/5/07
Logged By: A. Dominguez
Total Depth: 38.0 ft
Drilling method: Direct Push
Hammer Wt: None
Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
							ASPHALT- approximately 6 inches thick		
1-4							**POORLY GRADED CLAYEY SAND GRAVEL (SC)** - yellow-brown - gray		
							NO RECOVERY		
5-8					500		**GRAVELLY SAND CLAY (SC)**- wet, strong hydrocarbon odor - black, moist, fine grained sand, hydrocarbon odor		
9-15					2500 420 87 540		**SILTY CLAY (CL)** - gray, dry, hydrocarbon odor		
							NO RECOVERY		
16-17					50		**SILTY SAND (SC)**- yellow-brown, fine grained sand, hydrocarbon odor - gray-brown		
18-19					750		**SAND (SP)**- green, hydrocarbon odor		
20					1700 150		**CLAYEY SAND (SC)**- fine grained sand		
20-21					1500 500		**GRAVELLY SAND (SP)**- green, heavy hydrocarbon odor		
22-23							**SILTY SAND (ML)**- yellow-brown, fine grained sand, hydrocarbon odor		
24-28					400 20 170 350		**LEAN CLAY (CL)**- gray, medium plasticity, hydrocarbon odor		

KLEINFELDER

PROJECT NO. 54504-4

LOG OF BORING NO. K-19

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE
B-6

L:\2007\07PROJECTS\54504\54504-4.GPJ

5/11/2007 10:53:18 AM

Date Completed: 3/5/07
Logged By: A. Dominguez
Total Depth: 38.0 ft
Sampler: Direct Push
Hammer Wt: None
Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
29					20		**LEAN CLAY (CL)**- continued - coarse sand particle		
30							- stiff		
31							**SILTY CLAY (CL)**		
32		⊠			16		**CLAY (CL)** - olive-gray, slight plasticity, expansive		
33									
34					0		**SILTY SAND (ML)**- gray-brown, moist, fine grained sand		
35					0				
36									
37		⊠			0		- dry		
38							**Boring terminated at approximately 38 feet.**		
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									
51									
52									
53									
54									
55									
56									

KLEINFELDER

PROJECT NO. 54504-4

LOG OF BORING NO. K-19

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE
B-6
(cont'd)

L:\2007\07PROJECTS\54504\54504-4.GPJ

5/11/2007 10:53:19 AM

Date Completed: 3/6/07
Logged By: A. Dominguez
Total Depth: 38.0 ft
Drilling method: Direct Push
Hammer Wt: None
Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
1							**ASPHALT**- approximately 6 inches thick		
2					0		**POORLY GRADED GRAVELLY SAND (SP)**		
3							**CLAYEY SAND (SC)**- coarse sand mix		
4							- with gravel		
5					0				
6							**ORGANIC CLAY (OL)** - black, strong hydrocarbon odor		
7					1.5				
8									
9							**SILTY CLAY (CL)** - olive-brown, slight plasticity		
10									
11					0				
12									
13									
14					0		- very stiff		
15							- sandy clay		
16							- very stiff		
17					0				
18							**POORLY GRADED GRAVEL SANDS (SP)**- olive, moist		
19									
20					0		**SILTY CLAY (CL)** - gray-brown, stiff		
21							**POORLY GRADED GRAVEL SANDS (SP)**- wet		
22					0				
23									
24							**SILTY SAND (ML)** - yellow-brown, dry, fine grained sand		
25									
26									
27									
28									

KLEINFELDER

PROJECT NO. 54504-4

LOG OF BORING NO. K-20

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE
B-7

L:\2007\07PROJECTS\54504\54504-4.GPJ

5/11/2007 10:53:19 AM

Date Completed: 3/6/07
Logged By: A. Dominguez
Total Depth: 38.0 ft
Sampler: Direct Push
Hammer Wt: None
Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
29							**SILTY SAND (ML)** - continued - wet	▽	
30					0		- dry		
31									
32							**LEAN CLAY (CL)** - olive-brown, medium plasticity, stiff		
33					0				
34									
35							- fine sand		
36					0				
37							- very stiff		
38							**Boring terminated at approximately 38 feet.**		
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									
51									
52									
53									
54									
55									
56									

KLEINFELDER

PROJECT NO. 54504-4

LOG OF BORING NO. K-20

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE
B-7
(cont'd)

L:\2007\07PROJECTS\54504\54504-4.GPJ

5/11/2007 10:53:19 AM

Date Completed: 1/22/08

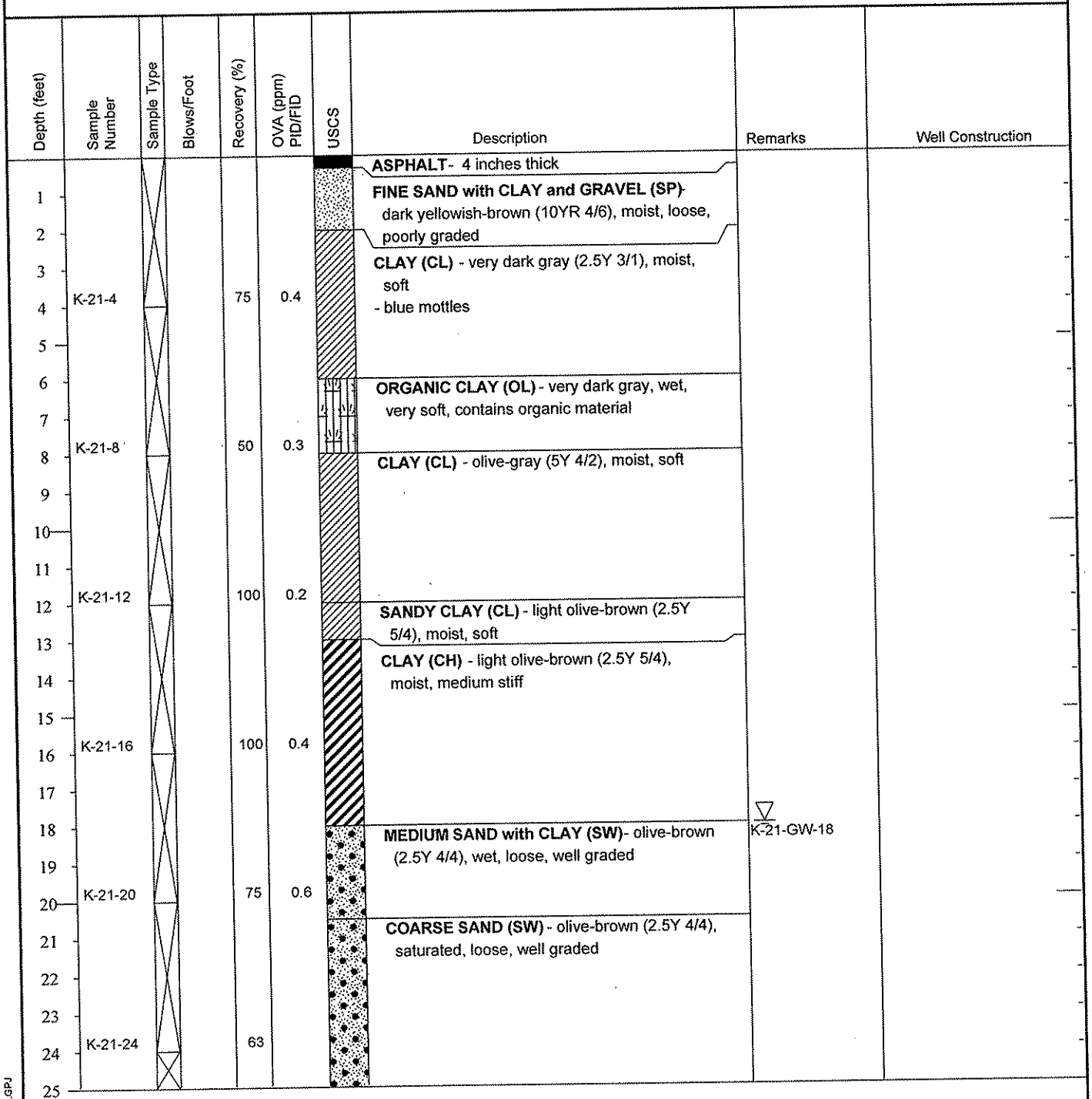
Logged By: J. Williams

Total Depth: 40.0 ft

Drilling method: Direct Push - Dual Tube
AMS Powerprobe 9630 PRO-D
RSI Drilling

Hammer Wt: None

Notes:



LOG OF BORING NO. K-21

PLATE

KLEINFELDER

PROJECT NO. 54504-5A

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

L:\2006\06PROJECTS\54504\54504-5A.GPJ

2/21/2008 8:31:15 AM

Date Completed: 1/22/08

Logged By: J. Williams

Total Depth: 40.0 ft

Drilling method: Direct Push - Dual Tube
AMS Powerprobe 9630 PRO-D
RSI Drilling

Hammer Wt: None

Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
26									
27									
28	K-21-28			100	0.9		- sample liner cracked		
29							**CLAY (CL)** - brown (10YR 5/3), moist, stiff		
30									
31	K-21-31			100	1.0				
32							**CLAY (CL)** - brown (10YR 5/3), saturated, very soft		
33							**SAND with CLAY (SP)** - dark yellowish-brown (10YR 4/6), loose, moist, poorly graded		
34	K-21-34			100	0.9				
35							**CLAY (CL)** - olive-brown (2.5Y 4/4), wet, stiff		
36	K-21-36			100	0.9				
37									
38							**FINE SAND (SP)** - olive-brown (2.5Y 4/4), wet, loose, poorly graded		
39									
40	K-21-40			100	1.0		Boring terminated at 40 feet below ground surface. Backfilled with neat cement.	K-21-GW-40	
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									

KLEINFELDER

PROJECT NO. 54504-5A

LOG OF BORING NO. K-21

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

(cont'd)

L:\2006\08PROJECTS\54504\54504-5A.GPJ

2/21/2008 8:31:15 AM

Date Completed: 1/22/08

Logged By: J. Williams

Total Depth: 40.0 ft

Drilling method: Direct Push - Dual Tube
AMS Powerprobe 9630 PRO-D
RSI Drilling

Hammer Wt: None

Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
0							**ASPHALT**- 4 inches thick		Traffic - rated well box
1							**SAND (SP)** - light olive-brown (2.5Y 5/6), dry, loose, poorly graded		
2							**CLAY with GRAVEL (CL)** - dark olive-gray (5Y 3/2), moist, soft		
3							**FINE SAND (SP)** - very dark grayish-green (5G 2.5/2), moist, loose, poorly graded		
4	K-22-4			75	0.6		**CLAY (CL)** - very dark greenish-gray (5G 3/1), moist, soft - concrete fragment		Blank 2" SCH40 PVC
5									
6									Neat Cement Grout
7							**ORGANIC CLAY (OL)** - black, wet, very soft		
8	K-22-8			75	0.9		**FAT CLAY (CH)** - dark olive gray (5Y 3/2), moist, soft		
9									
10									
11									
12	K-22-12			100	0.7		**CLAY (CL)** - olive-brown (2.5Y 4/4), moist, medium stiff		Bentonite Chips
13									
14									#3 Sand
15	K-22-15			83	0.7		**CLAY with SAND (CL)** - brown (10YR 5/3), moist, medium stiff		
16									
17									
18	K-22-18			100	0.7			▽	
19							**MEDIUM SAND (SW)** - dark yellowish-brown (10YR 4/4), saturated, loose, well graded		Screened 2" 0.020 Slot SCH40 PVC
20									
21	K-22-21			83	0.8		**COARSE SAND (SW)** - brown (10YR 4/3), saturated, loose, well graded		
22									
23									
24	K-22-24			67	0.8			K-22-GW-24	
25									

KLEINFELDER

PROJECT NO. 54504-5A

LOG OF BORING NO. K-22

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

L:\2008\08PROJECTS\54504\54504-5A.GPJ

2/21/2008 8:31:16 AM

Date Completed: 1/22/08

Logged By: J. Williams

Total Depth: 40.0 ft

Drilling method: Direct Push - Dual Tube
AMS Powerprobe 9630 PRO-D
RSI Drilling

Hammer Wt: None

Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
26	K-22-26			100	0.8		**FINE SAND with FINES (SP)** - light olive-brown (2.5Y 5/6), saturated, loose, poorly graded		
27									
28							**SAND with CLAY (SC)** - light olive-brown (2.5Y 5/4), saturated, loose, poorly graded		
29	K-22-29			87	0.9				
30							- coarse sand lens		
31									
32	K-22-32			100	0.9				
33							**CLAY (CH)** - light olive-brown (2.5Y 5/4), wet, stiff (expansive)		
34									
35	K-22-35			100	0.8				
36							**FAT CLAY (CH)** - olive-brown (2.5Y 4/3), moist, hard (expansive)		
37	K-22-37			100	0.9				
38									
39									
40	K-22-40			100	0.9				
41							Boring terminated at 40 feet below ground surface. Backfilled with neat cement. Set well MW-4 using 8" hollow stem auger on 1/24/08.		
42									
43									
44									
45									
46									
47									
48									
49									
50									

KLEINFELDER

PROJECT NO. 54504-5A

LOG OF BORING NO. K-22

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

(cont'd)

L:\2008\08PROJECTS\54504\54504-5A.GPJ

2/21/2008 8:31:16 AM

Date Completed: 1/23/08

Logged By: J. Williams

Total Depth: 40.0 ft

Drilling method: Direct Push - Dual Tube
AMS Powerprobe 9630 PRO-D
RSI Drilling

Hammer Wt: None

Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
1							**ASPHALT**- 4 inches thick		
2							**SANDY GRAVEL (GW)** - light olive-brown (2.5Y 5/3), dry, loose, well graded		
3							**SILTY CLAY (CL)** - very dark gray (2.5Y 3/1), moist, soft		
4	K-23-4			50	0.0				
5							**ORGANIC CLAY (OL)** - dark olive brown (2.5Y 3/3), wet, soft, organic material		
6									
7									
8	K-23-8			50	0.0		**SANDY CLAY (CL)** - very dark gray (2.5Y 3/1), moist, soft		
9									
10									
11									
12	K-23-12			100	0.0		**SANDY CLAY (CL)** - olive-brown (2.5Y 4/4), moist, medium stiff		
13									
14									
15									
16	K-23-16			100	0.0		**CLAY with SAND (CH)** - yellowish-brown (10YR 5/4), moist, stiff		
17							- increasing sand content		
18							**COARSE SAND with fines (SW)**- dark yellowish-brown (10YR 4/4), wet, loose, well graded		
19									
20	K-23-20			100	0.0		**SANDY CLAY (CL)** - light olive-brown (2.5Y 5/4), moist, soft, with oxidation		
21							**CLAYEY SAND (SC)** - light olive-brown (2.5Y 5/4), wet, loose, poorly graded		
22									
23	K-23-23			100	0.0		**FINE SAND with CLAY (SP)** - light olive-brown (2.5Y 5/4), wet, loose, poorly graded		
24							- increasing gravel content		
25				100	0.0				

KLEINFELDER

PROJECT NO. 54504-5A

LOG OF BORING NO. K-23

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

L:\2008\08PROJECTS\54504\54504-5A.GPJ

2/21/2008 8:31:16 AM

Date Completed: 1/23/08
Logged By: J. Williams
Total Depth: 40.0 ft
Drilling method: Direct Push - Dual Tube
AMS Powerprobe 9630 PRO-D
RSI Drilling
Hammer Wt: None
Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
26							**SANDY CLAY (CL)** - olive-brown (2.5Y 4/4), moist, medium stiff - increasing sand content		
27	K-23-27			100	0.0		**MEDIUM SAND with FINES (SW)**- olive-brown (2.5Y 4/4), saturated, loose, well graded		
28									
29							**SANDY CLAY (CL)** - olive-brown (2.5Y 4/4), moist, stiff - increasing sand content		
30	K-23-30			100				K-23-GW-30	
31							**CLAY with SAND (CL)** - olive-brown (2.5Y 4/4), wet, stiff		
32									
33	K-23-33			100	0.0				
34									
35									
36									
37				100	0.0				
38									
39									
40	K-23-40			100	0.0		Boring terminated at 40 feet below ground surface. Backfilled with neat cement.		
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									

KLEINFELDER

PROJECT NO. 54504-5A

LOG OF BORING NO. K-23

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

(cont'd)

L:\2008\08PROJECTS\54504\54504-5A.GPJ

2/21/2008 8:31:16 AM

Date Completed: 1/23/08

Logged By: J. Williams

Total Depth: 40.0 ft

Drilling method: Direct Push - Dual Tube
AMS Powerprobe 9630 PRO-D
RSI Drilling

Hammer Wt: None

Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
1							**ASPHALT**- 4 inches thick		
2							**GRAVELLY SAND (SW)** - dark yellowish-brown (10YR 4/4), moist, loose, well graded		
3							**CLAY (CL)** - grayish green (5G 4/2), moist, stiff		
4	K-24-4			50	0.0				
5							**CLAY with SAND (CL)** - very dark greenish-gray (5G 3/1), moist, soft		
7							**ORGANIC CLAY (OL)** - black, moist, soft, organic material		
8	K-24-8			100	0.0				
9							**CLAY (CL)** - olive-gray (5Y 4/2), moist, soft		
12	K-24-12			100	0.0		**SANDY CLAY (CL)** - dark greenish-gray (10GY 4/1), moist, medium stiff		
13							**CLAY (CL)** - olive-brown (2.5Y 4/4), moist, stiff		
14				100	0.0				
15							**SANDY CLAY (CL)** - olive-brown (2.5Y 4/4), moist, soft		
16	K-24-16			100	0.0				
19							**MEDIUM SAND with GRAVEL (SW)**- yellowish-brown (10YR 5/6), wet, loose, well graded		
20	K-24-20			63	0.0				
21							**SANDY CLAY (CL)** - yellowish-brown (10YR 5/6), moist, medium soft		
22							**SAND with CLAY (SC)** - yellowish-brown (10YR 5/6), moist, loose, poorly graded		
23	K-24-23			100	0.0				
24							**MEDIUM SAND (SP)** - yellowish-brown (10YR 5/4), saturated, loose, poorly graded	▽	
25									

KLEINFELDER

PROJECT NO. 54504-5A

LOG OF BORING NO. K-24

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

L:\2008\08PROJECTS\54504\54504-5A.GPJ

2/21/2008 8:31:17 AM

Date Completed: 1/23/08

Logged By: J. Williams

Total Depth: 40.0 ft

Drilling method: Direct Push - Dual Tube
AMS Powerprobe 9630 PRO-D
RSI Drilling

Hammer Wt: None

Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
26									
27	K-24-27			87	0.1			K-24-GW-27	
28									
29							**COARSE SAND (SW)** - yellowish-brown (10YR 5/8), saturated, loose, well graded		
30	K-24-30			100	0.0				
31							**GRAVEL (GW)** - yellowish-brown (10YR 5/4), saturated, loose, well graded		
32									
33							**SANDY CLAY with GRAVEL (CL)**- light olive-brown (2.5Y 5/4), wet, soft		
34	K-24-34			87	0.0				
35							**FINE SAND (SP)** - light olive-brown (2.5Y 5/4), saturated, loose, poorly graded	K-24-GW-35	
36									
37				67	0.0		**CLAY (CH)** - light olive-brown (2.5Y 5/4), moist, stiff		
38									
39									
40	K-24-40			100	0.0				
41							Boring terminated at 40 feet below ground surface. Backfilled with neat cement.		
42									
43									
44									
45									
46									
47									
48									
49									
50									

KLEINFELDER

PROJECT NO. 54504-5A

LOG OF BORING NO. K-24

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

(cont'd)

L:\2008\08PROJECTS\54504\54504-5A.GPJ

2/21/2008 8:31:17 AM

Date Completed: 1/23/08

Logged By: J. Williams

Total Depth: 40.0 ft

Drilling method: Direct Push - Dual Tube
AMS Powerprobe 9630 PRO-D
RSI Drilling

Hammer Wt: None

Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
0							**ASPHALT**- 4 inches thick		Traffic rated well box
1							**GRAVELLY CLAY (CL)**- olive-brown (2.5Y 4/3), moist, stiff		
2							**GRAVELLY SAND with FINES (SW)**- very dark gray (2.5Y 3/1), moist, loose, well graded		
3									
4	K-25-4			75	0.0		**CLAY (CL)** - very dark greenish-gray (10Y 3/1), moist, medium soft		
5									Blank 2" SCH40 PVC
6							**CLAY (CL)** - very dark gray (2.5Y 3/1), wet, soft		
7							- slight hydrocarbon odor		
8	K-25-8			75	0.0		**ORGANIC CLAY (OL)** - black, moist, soft		Neat Cement Grout
9							**CLAY (CL)** - dark greenish-gray (10GY 4/1), moist, soft		
10									
11									
12	K-25-12			100	0.0				
13									
14									
15							**CLAY (CL)** - brown (10YR 4/3), moist, medium stiff		
16	K-25-16			100	0.0				Bentonite Chips
17							**COARSE SAND (SW)** - brown (10YR 4/3), wet, loose, well graded		# 3 Sand
18									
19									
20	K-25-20			100	0.0				
21							**CLAY with SAND (CL)** - brown (10YR 4/3), moist, medium stiff		
22							**FINE SAND with FINES (SP)**- brown (10YR 4/3), moist, loose, poorly graded		
23	K-25-23			100	0.0				Screened 2" 0.020 Slot SCH40 PVC
24				100					
25									

KLEINFELDER

PROJECT NO. 54504-5A

LOG OF BORING NO. K-25

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

L:\2008\08PROJECTS\54504\54504-5A.GPJ

2/21/2008 8:31:17 AM

Date Completed: 1/23/08
Logged By: J. Williams
Total Depth: 40.0 ft

Drilling method: Direct Push - Dual Tube
AMS Powerprobe 9630 PRO-D
RSI Drilling
Hammer Wt: None
Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
26									
27								▽	
28	K-25-28			87	0.0		**MEDIUM SAND with FINES (SW)**- light olive-brown (2.5Y 5/6), saturated, loose, well graded	K-25-GW-28	
29									
30									
31	K-25-31			100	0.0				
32									
33									
34	K-25-34			100	0.0		**SANDY CLAY (CL)** - light olive-brown (2.5Y 5/3), saturated, soft		
35							**CLAY (CL)** - light olive-brown (2.5Y 5/3), wet, stiff		
36							- increasing sand content	K-25-GW-36	
37	K-25-37			100	0.0		**MEDIUM SAND (SW)** - light olive-brown (2.5Y 5/3), saturated, loose, well graded		
38							- increasing clay content		
39							**CLAY (CH)** - olive-brown (2.5Y 4/4), moist, stiff		
40	K-25-40			100	0.0		Boring terminated at 40 feet below ground surface. Backfilled with neat cement. Set well MW-5 using 8" hollow stem auger on 1/24/08.		
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									

KLEINFELDER

PROJECT NO. 54504-5A

LOG OF BORING NO. K-25

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

(cont'd)

L:\2008\08PROJECTS\54504\54504-5A.GPJ

2/21/2008 8:31:17 AM

Environmental Soil Sampling/Boring Log

Hole No. B-1

Date: 8/17/04
Logged By: Leung

Rig Type: MARC TECH 2.5 DP
Drilling Co.: Gregg Drilling

Borehole Dia.: 2"
Borehole Depth: 16'

Sheet 1 of 1

Elev.	Depth (feet)	Geologic Description (soil type, color, grain, moisture, density, odor, etc.)	USCS Symbol	OVA/PID (ppm)	Analytical Sample Number	Comments
		0-3" Asphalt				
		Silty sand w/ gravel; light brown; medium dense; dry; no odor	SM	0.0		
	5	Silty clay; olive gray; medium stiff; moist; no odor	ML/CL	0.0	B1-1-5	Static water level at 4.45'
		Silty clay; olive gray; medium stiff; wet; no odor		0.0		1st water at 6.5'
		concrete debris w/ sand; wet; no odor		0.0		
		Silty clay; olive gray; medium stiff; moist; no odor		0.0		
	10					
		Silty clay w/ sand; gray; medium stiff; wet; no odor		0.0		
		Silty clay; light brown; stiff; moist; no odor		0.0		
	15				B1-2-15	
	20					
	25					
	30					

Project name: 700 Independent Road, Oakland, CA
Project Number: 07000.2013

MECA Consulting, Inc.
620 Contra Costa Blvd., Ste. 102
Pleasant Hill, CA 94523

Environmental Soil Sampling/Boring Log

Hole No. B-2

Date: 8/17/04
Logged By: Leung

Rig Type: MARC TECH 2.5 DP
Drilling Co.: Gregg Drilling

Borehole Dia.: 2"
Borehole Depth: 12'

Sheet 1 of 1

Elev.	Depth (feet)	Geologic Description (soil type, color, grain, moisture, density, odor, etc.)	USCS Symbol	OVA/PID (ppm)	Analytical Sample Number	Comments
		0-3" Asphalt				
		Clayey silt; brown; soft; dry; no odor	ML/CL	0.0		
		Sand w/ gravels; yellowish orange; medium dense; dry, no odor		0.0		
		Silty clay; dark gray; stiff; moist; no odor		0.0		
	5	Silty clay; greenish gray; medium stiff; moist; no odor		0.0	B2-1-5	
						Static water level at 5.30'
		Silty clay; olive gray; medium stiff; wet; no odor		0.0		1st water at 8'
	10	Silty clay; black; medium stiff; wet; no odor		0.0	B2-2-10	
		Silty clay; gray; medium stiff; wet; no odor		0.0		
	15					
	20					
	25					
	30					

Project name: 700 Independent Road, Oakland, CA
Project Number: 07000.2013

MECA Consulting, Inc.
620 Contra Costa Blvd., Ste. 102
Pleasant Hill, CA 94523

Environmental Soil Sampling/Boring Log

Hole No. B-3

Date: 8/17/04
Logged By: Leung

Rig Type: MARC TECH 2.5 DP
Drilling Co.: Gregg Drilling

Borehole Dia.: 2"
Borehole Depth: 20'

Sheet 1 of 1

Elev.	Depth (feet)	Geologic Description (soil type, color, grain, moisture, density, odor, etc.)	USCS Symbol	OVA/PID (ppm)	Analytical Sample Number	Comments
		0-3" Asphalt				
		Silty sand w/ gravels; light brown; medium dense; dry; no odor	SM	0.0		
		Silty clay; brown; medium stiff; dry; no odor	ML/CL	0.0		
		Silty clay; olive gray; medium stiff; dry; no odor		0.0		
	5	Silty clay; gray; stiff; Dry; no odor		0.0	B3-1-5	
		Sand w/ gravels; light gray; soft; moist; no odor	SM	0.0		
		Silty clay; dark gray; stiff; moist; no odor	ML/CL	0.0		
	10				B3-2-10	
		Clay; olive gray; stiff; moist; no odor		0.0		
		Silty clay; dark gray; stiff; moist; no odor		0.0		
		Clay; greenish gray; stiff; moist; no odor	CH/OH	0.0		
	15					
		Clay; yellowish orange; stiff; moist; no odor		0.0		
	20					
	25					
	30					

Project name: 700 Independent Road, Oakland, CA
Project Number: 07000.2013

MECA Consulting, Inc.
620 Contra Costa Blvd., Ste. 102
Pleasant Hill, CA 94523

Environmental Soil Sampling/Boring Log

Hole No. B-4

Date: 8/17/04
Logged By: Leung

Rig Type: MARC TECH 2.5 DP
Drilling Co.: Gregg Drilling

Borehole Dia.: 2"
Borehole Depth: 20'

Sheet 1 of 1

Elev.	Depth (feet)	Geologic Description (soil type, color, grain, moisture, density, odor, etc.)	USCS Symbol	OVA/PID (ppm)	Analytical Sample Number	Comments
		0-3" Asphalt				
		Silty sand w/ gravels; light brown; medium dense; dry; no odor	SM	0.0		
		Silty clay; brown; medium stiff; dry; no odor	ML/CL	0.0		
				0.0		
	5	Silty clay;olive gray; stiff; dry; no odor		0.0	B4-1-5	
		Silty clay; greenish gray; medium stiff; moist; no odor		0.0		
		Silty clay; greenish gray; medium stiff; wet; no odor		0.0		Static water level at 8.54'
	10	Silty clay; dark gray; medium stiff; moist; no odor		0.0	B4-2-10	
				0.0		
		Clay; black; stiff; moist; no odor	CH/OH	0.0		
		Clay; dark gray; stiff; moist; no odor		0.0		
		Clay; greenish gray; stiff; moist; no odor		0.0		
	15					
		Clay; gray; medium stiff; wet; no odor		0.0		1st water at 16'
	20					
	25					
	30					

Project name: 700 Independent Road, Oakland, CA
Project Number: 07000.2013

MECA Consulting, Inc.
620 Contra Costa Blvd., Ste. 102
Pleasant Hill, CA 94523

Environmental Soil Sampling/Boring Log

Hole No. B-5

Date: 8/17/04
Logged By: Leung
Rig Type: MARC TECH 2.5 DP
Drilling Co.: Gregg Drilling
Borehole Dia.: 2"
Borehole Depth: 20'
Sheet 1 of 1

Elev.	Depth (feet)	Geologic Description (soil type, color, grain, moisture, density, odor, etc.)	USCS Symbol	OVA/PID (ppm)	Analytical Sample Number	Comments
		0-3" Asphalt				
		Silty sand w/ gravels; light gray; soft; dry; no odor	SM	0.0		
		Silty sand w/gravel; brown; soft; dry; no odor		0.0		
		Silty clay; olive gray; medium stiff; dry; no odor		0.0		
	5	Silty clay; light brown; medium stiff; moist; no odor	ML/CL	0.0	B5-1-5	
		Silty clay; brown; medium stiff; moist; no odor		0.0		
	10				B5-2-10	
		Clay; dark gray; medium stiff; moist; no odor	CH/OH	0.0		Static water level at 11.2'
		Clay; olive green; stiff; moist; no odor		0.0		
	15					
		Clay; black; stiff; moist; no odor		0.0		
		Clay; brown; stiff; moist; no odor		0.0		
		Silty Clay w/ gravels; yellowish orange; stiff; moist; no odor		0.0		
	20					
	25					
	30					

Project name: 700 Independent Road, Oakland, CA
Project Number: 07000.2013

MECA Consulting, Inc.
620 Contra Costa Blvd., Ste. 102
Pleasant Hill, CA 94523

Environmental Soil Sampling/Boring Log

Hole No. B-6

Date: 8/17/04
Logged By: Leung

Rig Type: MARC TECH 2.5 DP
Drilling Co.: Gregg Drilling

Borehole Dia.: 2"
Borehole Depth: 12'

Sheet 1 of 1

Elev.	Depth (feet)	Geologic Description (soil type, color, grain, moisture, density, odor, etc.)	USCS Symbol	OVA/PID (ppm)	Analytical Sample Number	Comments
		0-3" Asphalt				
		Silty sand w/ gravels; light gray; soft; dry; no odor	SM	0.0		
		Clayey silt; brown; medium stiff; moist; no odor	ML/CL	0.0		
	5	Silty clay; gray; medium stiff; moist; no odor		0.0	B6-1-6	Static water level at 5.6'
		Silty clay; gray; medium stiff; wet; no odor		0.0		1st water at 7'
		No Recovery				
	10					
	15					
	20					
	25					
	30					

Project name: 700 Independent Road, Oakland, CA
Project Number: 07000.2013

MECA Consulting, Inc.
620 Contra Costa Blvd., Ste. 102
Pleasant Hill, CA 94523

Environmental Soil Sampling/Boring Log

Hole No. B-7

Date: 8/17/04
Logged By: Leung

Rig Type: MARC TECH 2.5 DP
Drilling Co.: Gregg Drilling

Borehole Dia.: 2"
Borehole Depth: 12'

Sheet 1 of 1

Elev.	Depth (feet)	Geologic Description (soil type, color, grain, moisture, density, odor, etc.)	USCS Symbol	OVA/PID (ppm)	Analytical Sample Number	Comments
		0-3" Asphalt				
		Silty sand w/ gravels; light gray; soft; dry; no odor	SM	0.0		
		Sandy silt; brown; medium stiff; dry; no odor		0.0		
		Silty clay; greenish gray; stiff; moist; no odor	ML CL	0.0		
	5	Silty clay; olive gray; stiff; moist; no odor		0.0	B7-1-5	
		Clay; greenish gray; stiff; moist; no odor	CH OH	0.0		
		Clay w/ humus; dark gray; medium stiff; wet; no odor		0.0		1st water at 8.5'
		Silty sand w/ gravels; brown; medium dense; dry; no odor		0.0		Static water level at 8.6'
	10	Clay; black; stiff; moist; no odor		0.0	B7-2-10	
		Clay; gray; stiff; moist; no odor		0.0		
		Clay; greenish gray; stiff; moist; no odor		0.0		
		Silty clay; brown; medium stiff; moist; no odor		0.0		
		Clay; greenish gray; stiff; moist; no odor		0.0		
		Clay; black; stiff; moist; no odor		0.0		
	15	Clay; greenish gray; stiff; moist; no odor		0.0		
		Silty clay; gray; medium stiff; moist; no odor		0.0		
	20					
	25					
	30					

Project name: 700 Independent Road, Oakland, CA
Project Number: 07000.2013

MECA Consulting, Inc.
620 Contra Costa Blvd., Ste. 102
Pleasant Hill, CA 94523

Environmental Soil Sampling/Boring Log

Hole No. B-8

Date: 8/17/04
Logged By: Leung

Rig Type: MARC TECH 2.5 DP
Drilling Co.: Gregg Drilling

Borehole Dia.: 2"
Borehole Depth: 20'

Sheet 1 of 1

Elev.	Depth (feet)	Geologic Description (soil type, color, grain, moisture, density, odor, etc.)	USCS Symbol	OVA/PID (ppm)	Analytical Sample Number	Comments
		0-3" Asphalt				
		Silty sand w/ gravels; light brown; soft; dry; no odor	SM	0.0		
		Silty clay; olive gray; stiff; moist; no odor	ML/CL	0.0		
		Silty clay w/ gravels; olive gray; medium stiff; moist; no odor		0.0		
		Silty clay w/ gravels; gray; medium stiff; moist; no odor		0.0		
	5	Clay; dark gray; stiff; moist; petroleum odor	CH/OH	10.0	B8-1-5	
		Clay; greenish gray; stiff; moist; petroleum odor		55.0		
		Clay; dark gray; stiff; moist; petroleum odor		45.0		
	10	Clay; Light gray; stiff; moist; petroleum odor		30.0	B8-2-10	
		Clay; light brown; stiff; moist; petroleum odor		25.0		
	15	Clay; greeish gray; stiff; moist; petroleum odor		20.0	B8-3-15	
		Clay; dark gray; medium stiff; wet; petroleum odor		45.0		
		Clay; olive gray; medium stiff; moist; petroleum odor		20.0		
		Clay; greenish gray; medium stiff; moist; petroleum odor		15.0		
		Silty sand; brown; soft; wet; petroleum odor	ML/CL	10.0		
		Silty clay; olive gray; stiff; moist; petroleum odor		10.0		
	20					
	25					
	30					

Project name: 700 Independent Road, Oakland, CA
Project Number: 07000.2013

MECA Consulting, Inc.
620 Contra Costa Blvd., Ste. 102
Pleasant Hill, CA 94523

Date Completed: 12/1/08 | Drilling method: Direct Push - Dual Tube

Logged By: J. Williams | Hammer Wt: None

Total Depth: 24.0 ft | Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
0							**ASPHALT CONCRETE** - approximately 6-inches thick	
1							**AGGREGATE BASEROCK**- olive brown (2.5Y 4/3), loose, moist, well graded	
2							**POORLY GRADED (CL)** - very dark yellowish brown (10YR 4/6), moist, loose, fine sand	
3							**GRAVELLY CLAY (CL)** - very dark grayish brown (2.5Y 3/2), moist, soft, low plasticity, petrolum hydrocarbon odor	
4	PS-1-4			100				
5							**ORGANIC SILT with CLAY (OL)**- black, wet, soft, trace organic material	
6								
7							**SANDY CLAY with SILT (CL)**- dark greenish gray (5G 4/1), wet, soft	
8	PS-1-8			75				
9							**FAT CLAY (CH)** - olive brown (2.5Y 4/4), moist, soft, high plasticity	
10								
11								
12				100				
13								
14								
15							**WELL GRADDED MEDIUM SAND (SW)**- brown (10YR 4/3), moist, medium dense	
16	PS-1-16			100				▽
17							- wet	
18								
19								
20	PS-1-20			100			- incresing fines	
21								
22								
23								
24				50			Boring terminated at approximately 24 feet below ground surface.	
25								

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO. 54504-5A

LOG OF BORING NO. PS-1

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE 2

L:\2009\09PROJECTS\54504\54504-5A.GPJ

Date Completed: 1/12/09 | Drilling method: Direct Push - Dual Tube

Logged By: J. Gravesen

Hammer Wt: None

Total Depth: 24.0 ft | Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
1							**ASPHALT CONCRETE**- approximately 3-inches thick	
							AGGREGATE BASEROCK- approximately 3-inches thick	
2							**WELL GRADED SAND with GRAVEL (SW)**- olive brown, dry, dense	
3							**CLAY with COARSE SAND (CL)**- very dark gray, moist, stiff, well graded	
4				100			**CLAY with GRAVEL (CL)**- very dark gray, moist, medium stiff	
5							**CLAY (CH)** - dark grayish brown & dark olive brown, moist, stiff, petrolum hydrocarbon odor, calcification with coarse sand & gravel	
6								
7							**CLAY (CH)** - dark grayish brown, wet, soft, with coarse sand & gravel, petrolum hydrocarbon odor	
8				75			**CLAY (CH)** - dark olive brown, moist, stiff, with coarse sand and grave, strong petrolum hydrocarbon odor	
9							**CLAY with COASRE SAND (CL)**- olive, moist, medium stiff	
10	PS-1A-10						**CLAY (CH)** - brown, moist, stiff	
11								
12				100				
13							**CLAY with GRAVEL (CL)**- yellowish brown, moist, stiff, with dark brown nodules	
14							**WELL GRADDED with CALCITE SAND with GRAVEL (SC)** - yellowish brown, moist, stiff	
15								
16				100				
17							- wet	
18								
19							**WELL GRADDED SAND with CLAY and GRAVEL (SW-SC)** - yellowish brown, wet, loose	
20	PS-1A-20			100			**WELL GRADDED CLAYEY SAND with GRAVEL (SC)** moist, dense	
21							**WELL GRADDED SAND with CLAY (SC)**- dark reddish brown (5YR 3/3)	
22							**WELL GRADED CLAYEY SAND with GRAVEL (SC)** reddish brown (5YR 4/3), moist, stiff	
23							**CLAY (CL)** - brown (7.5YR 5/3), moist, stiff	
24				100			Boring terminated at approximately 24 feet below ground surface.	
25								

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO. 54504-5A

LOG OF BORING NO. PS-1A

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE 3

L:\2008\08PROJECTS\54504\54504-5A.GPJ

Date Completed: 12/1/08 | Drilling method: Direct Push - Dual Tube

Logged By: J. Williams | Hammer Wt: None

Total Depth: 24.0 ft | Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
1							**ASPHALT CONCRETE**- approximately 3-inches thick	
							AGGREGATE BASEROCK- olive brown (2.5Y 4/3), slightly moist, well graded	
2							**POORLY GRADED FINE SAND (SP)**- dark yellowish brown (10YR 4/6) dry, loose	
3							**CLAY with SILT (CL)** - very dark grayish brown (2.5Y 3/2), moist, soft, low plasticity	
4				87			**ORGANIC MATERIAL (OL)**- black	
5							**FAT CLAY (CH)** - very dark gray (2.5Y 3/1), moist, medium stiff	
6							**ORGANIC CLAY with SILT and SAND (OL)**- black, wet, soft	
7								
8	PS-2-8			75			**CLAY (CH)** - very dark greenish gray (10Y 3/1), moist, soft - heavy petrolum hydrocarbon odor	
9								
10				100			**CLAY (CH)** - olive brown, moist, medium soft	
11							**CLAY with SILT (CH)** - olive gray (5Y 4/2), moist, medium stiff, petrolum hydrocarbon odor	
12								
13							**CLAY (CH)** - olive brown (2.5Y 4/4), moist, stiff	
14								
15							**CLAY (CH)** - greenish black (10GY 2.5/1), moist, soft	
16	PS-2-16			100				
17							**POORLY GRADED FINE SAND (SP)**- olive brown (2.5Y 4/3), wet, loose	▽
18								
19	PS-2-19							
20							**CLAY (CH)** - light olive brown (2.5Y 5/3), moist, stiff, high plasticity	
21								
22								
23								
24							Boring terminated at approximately 24 feet below ground surface.	
25								

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO. 54504-5A

LOG OF BORING NO. PS-2

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE 4

L:\2008\08PROJECTS\54504\54504-5A.GPJ

Date Completed: 1/12/09 | Drilling method: Direct Push - Dual Tube

Logged By: J. Gravesen

Total Depth: 24.0 ft | Hammer Wt: None | Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID	USCS	Description	Remarks
0							**ASPHALT CONCRETE** - approximately 3-inches thick	
1							**AGGREGATE BASEROCK**- approximately 3-inches thick	
2							**WELL GRADED SAND with GRAVEL (SW)**- olive brown, dry, dense	
3							**SANDY CLAY with GRAVEL (CL)**- brown (7.5YR 4/3), moist, stiff, gravel up to 1/2 inch, well graded	
4				100			**CLAY with COARSE SAND (CL)**- very dark gray (7.5Y 3/1), moist, medium stiff - organic material soft, petrolum hydrocarbon odor	
5							**CLAY with FIBROUS ORGANIC MATERIAL (OH)** black, wet, soft, 5% organic material, petrolum hydrocarbon odor	
6								
7							**CLAY (CH)** - olive gray, with organic material ~10%, petrolum hydrocarbon odor	
8				75				
9								
10	PS-2A-10							
11							**CLAY (CH)** - brown (10YR 4/3), moist, stiff, no petrolum hydrocarbon odor	
12				100				
13								
14								
15							- with calcification	
16				100				▽
17							**POORLY GRADED FINE SAND with CLAY (SP)** dark yellowish brown, loose, petrolum hydrocarbon odor	
18								
19							- dark yellowish brown & olive green, strong petrolum hydrocarbon odor	
20	PS-2A-20			100				
21							**CLAY (CH)** - dark yellowish brown, moist, soft, petrolum hydrocarbon odor	
22								
23								
24				100				
25							Boring terminated at approx. approximately 24 feet below ground surface.	

KLEINFELDER
Bright People. Right Solutions.

PROJECT NO. 54504-5A

LOG OF BORING NO. PS-2A

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE 5

L:\2009\09PROJECTS\54504\54504-5A.GPJ

Table 1
Monitoring Well Construction Details
EOP - 700 Independent Road
Oakland, California

Construction Details by Depth Intervals (Feet Below Ground Surface)								Survey I		
Well Identification	Installation Date	Boring Depth	Solid Casing	Screen Interval	Sand Pack	Bentonite Seal	Grout Seal	Top of Casing Elevation (Feet)	Vault Elevation (Feet)	Lc
MW-1	3/5/2007	25.0	0.25-15	15-25	13-25	11-13	0.75-11	9.64	9.96	-12
MW-2	3/5/2007	25.0	0.25-10	10-20	8-20	6-8 / 20-25	0.75-6	9.53	9.85	-12
MW-3	3/5/2007	25.0	0.25-13	13-23	11-24	9-11	0.75-9	10.79	11.10	-12
MW-4	1/23/2008	25.0	0.25-15	15-25	14-25	13-14	0.75-13	9.61	10.35	-12
MW-5	1/23/2008	28.0	0.25-18	18-28	17-28	16-17	0.75-16	9.75	10.06	-12

Notes:

Survey elevations North American Vertical Datum of 1988 (NAVD88), horizontal NAD 83.
Survey of MW-1, MW-2 and MW-3 by PLS Surveys, Inc., April 4, 2007
Survey of MW-4 and MW-5 by PLS Surveys, Inc., February 14, 2008

Date Completed: 3/5/07
Logged By: A. Dominguez
Total Depth: 25.0 ft
Drilling method: Direct Push
Hammer Wt: None
Notes:

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
1							**ASPHALT**- approximately 6 inches thick		
2							**POORLY GRADED SAND (SP)**- olive, small gravel		
3							**CLAYEY SAND (SC)**- dark gray, wet, some gravel, gravel-clay mix		
4									
5							**NO RECOVERY**		Blank 2" casing
6		⊠			7		**CLAYEY SAND (SC)**- black, wet, some gravel, sand-gravel mix		Neat cement grout
7									
8							- gray		
9					35		**CLAY (CH)**- gray, stiff, plastic, hydrocarbon odor		
10									
11		⊠			30				
12					8				Bentonite
13							- very stiff		
14					1				Sand 2/12
15		⊠							
16							**SANDY CLAY (CL)**- red		
17					30		**GRAVELLY SAND (SP)**- gray		
18									
19							**SAND-GRAVEL (SP)**- wet, strong hydrocarbon odor		
20		⊠			1500			▽	Screened 2" casing
21					2000		**SAND-GRAVEL-CLAY (SC)**		
22							- free product in water		
23					0		**SILT (ML)**- olive, low plasticity		
24					0				
25							**Boring terminated at approximately 25 feet.**		
26									
27									
28									

KLEINFELDER

PROJECT NO. 54504-4

LOG OF BORING NO. MW-1

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE
B-8

L:\2007\07PROJECTS\54504\54504-4.GPJ
5/11/2007 10:53:19 AM

Date Completed: 3/6/07
Logged By: A. Dominguez
Total Depth: 25.0 ft
Drilling method: Direct Push
Hammer Wt: None
Notes: Stratigraphy taken from K-19

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
1							ASPHALT- approximately 6 inches thick		
2							POORLY GRADED CLAY SAND GRAVEL (SC) - yellow-brown		
3									Blank 2" casing Neat cement grout
4							- gray		
5							NO RECOVERY		
6							GRAVELLY SANDY CLAY (SC) wet, strong hydrocarbon odor		Bentonite
7							- black, moist, fine grained sand, hydrocarbon odor		
8									Sand 2/12
9							SILTY CLAY (CL) - gray, dry, hydrocarbon odor		
10									
11									
12									
13									
14									Screened 2" casing
15							NO RECOVERY		
16							SILTY SAND (ML)- yellow-brown, fine grained sand, hydrocarbon odor		
17							- gray-brown		
18							SAND (SP)- green, hydrocarbon odor		
19							CLAYEY SAND (SC)- fine grained sand		
20							GRAVELLY SAND (SP)- green, heavy hydrocarbon odor		
21							SILTY SAND (ML)- yellow-brown, fine grained sand, hydrocarbon odor		Bentonite
22									
23							LEAN CLAY (CL)- gray, medium plasticity, hydrocarbon odor		
24									
25							Boring terminated at approximately 25 feet.		
26									
27									
28									

KLEINFELDER

PROJECT NO. 54504-4

LOG OF BORING NO. MW-2

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE B-9

L:\2007\07PROJECTS\54504\54504-4.GPJ

5/11/2007 10:53:20 AM

Date Completed: 3/6/07 *Drilling method:* Direct Push

Logged By: A. Dominguez *Hammer Wt:* None

Total Depth: 25.0 ft *Notes:*

Depth (feet)	Sample Number	Sample Type	Blows/Foot	Recovery (%)	OVA (ppm) PID/FID	USCS	Description	Remarks	Well Construction
1							ASPHALT- approximately 6 inches thick		
2							GRAVELLY SAND (SP)- olive		
3									
4							CLAYEY SAND (SC)- dark gray		
5					11		- gray		Neat cement grout
6									Blank 2" casing
7					4		CLAY (CH)- black, plastic, hydrocarbon odor		
8		X							
9							NO RECOVERY		
10		X			500		FAT CLAY (CH)- gray, plastic, hydrocarbon odor		Bentonite
11									
12					5		CLAYEY SILT (ML)- olive, slight plasticity		Sand 2/12
13									
14									
15					0				
16		X			0		CLAY/SILT (CL/ML)- moist, medium plasticity		
17					0				
18							SAND (SC)- yellow-brown, moist, fine grained		Screened 2" casing
19					0		NO RECOVERY		
20									
21					0		SAND (ML) - fine grained		
22							CLAYEY SILT (ML)		
23							LEAN CLAY (CL)- olive		
24									
25							Boring terminated at approximately 25 feet.		
26									
27									
28									

KLEINFELDER

PROJECT NO. 54504-4

LOG OF BORING NO. MW-3

EOP - INDEPENDENT ROAD
700 INDEPENDENT ROAD
OAKLAND, CALIFORNIA

PLATE

B-10

L:\2007\07PROJECTS\54504\54504-4.GPJ

5/11/2007 10:53:20 AM