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By dehloptoxic at 11:12 am, Dec 20, 2006

June 7, 2005

# PRELIMINARY SITE INVESTIGATION REPORT

20957 Baker Road Castro Valley, California 94546

Project No. 10509

Prepared For

Nat Piazza 7613 Peppertree Road Dublin, CA 94568

Prepared By

AEI Consultants 2500 Camino Diablo, Suite 100 Walnut Creek, CA 94597 (925) 944-2899





June 7, 2005

Nat Piazza 7613 Peppertree Road Dublin, CA 94568

**Subject:** Phase II Subsurface Investigation

20957 Baker Road

Castro Valley, California 94546

Project No. 10509

Dear Mr. Piazza:

The following letter report describes the activities and results of the subsurface investigation performed by AEI Consultants at the above referenced property (Figure 1: Site Location Map). The scope of work for this investigation was designed to determine the extent of soil contamination and its impact on groundwater resulting from the hydrocarbon release from the former USTs.

### I Background

The subject property (hereafter referred to as the "site" or "property") is located at 20957 Baker Road in Castro Valley, California (Figure 1: Site Location Map). The site is located in a mixed residential and commercial/light-industrial area of Castro Valley. The site is approximately 160 by 300 feet and is undeveloped. The site is partial covered with asphalt surfacing and concrete slabs utilized for parking.

On April 21, 2004, AEI removed two 1,000-gallon tanks under from the site. The removal was performed under permit from the Alameda County Environmental Health Services (ACEHS). The tank removal was observed by Robert Weston, Inspector, ACEHS. Two soil samples were collected from underneath each UST and analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g), Benzene, toluene, ethylbenzene, xylenes (BTEX) and Methyl tert- butyl ether (MTBE) by EPA Method 8021B/8015Cm. Fuel oxygenates and 1,2-Dibromoethane (EDB) and 1,2 Dichloroethane (1,2-DCA) were analyzed by EPA Method 8260. Total Petroleum Hydrocarbons as diesel (TPH-d) was analyzed by EPA Method 8015C and total lead by EPA method 7010. Hydrocarbons were detected in all the soil samples, TPH-g at concentrations ranging from 160 milligrams per kilogram (mg/kg) in sample T1W-EB8' to 1,400 mg/kg in sample T2W-EB8' and TPH-d at concentrations ranging from 1,400 mg/kg (T2E-EB8') to 10,000 mg/kg (T1E-EB8'). Total xylenes were reported in two soil samples at 8.4 mg/Kg (T2W-E8') and at 0.25 mg/kg (T2E-EB8'). No fuel oxygenates, EDB, or DCA were detected in the samples. Total lead was reported at concentrations ranging from 6.1 mg/kg to 24 mg/kg (stockpile sample STKP1-4).

CHICAGO ♦ FT. LAUDERDALE ♦ LOS ANGELES ♦ SAN FRANCISCO

AEI prepared a Preliminary Site Assessment workplan, which was approved by Don Hwang, Hazardous Materials Specialist with the ACEHS in a letter dated April 8, 2005.

### **II Investigative Efforts**

AEI performed the subsurface investigation at the property on May 18, 2005. Prior to mobilization, AEI applied for a subsurface drilling permit from the Alameda County Public Works Agency (ACPWA). Underground Service Alert (USA) was notified more than two business days prior to the drilling to allow local utilities to be marked. Notification of the drilling schedule was made to the county. No county inspector made an appearance at the site.

Eight (8) soil borings (SB-1 through SB-8) were advanced to depths ranging from 14 to 18 ft. below ground surface (bgs). The locations of the soil borings are shown on Figure 2.

### Soil Sample Collection

The temporary borings were advanced with a Geoprobe<sup>®</sup> model 5410 direct-push drilling rig by Vironex, a licensed California drilling contractor (C57 - 705927).

A continuous core was cut from the surface to the top of bedrock. The cores were cut using an approximately 2" outer diameter sampling tube, which held in 1.75-inch diameter acrylic liners 4-feet in length. At least one sediment sample was retained for possible chemical analysis. An adjacent sample was placed in a 1-quart zipper locking plastic bad and used for field screening. The samples were screened using a Mini-Rae photo ionization detector (PID). The tip of the PID was inserted into the 1-quart bag through a small diameter hole poked into the bag. The PID readings were recorded on the boring logs. The borings were logged by an AEI Professional Geologist using the Unified Soil Classification System (USCS). Copies of the boring logs, including depth of samples collected are included in Appendix B.

The soil samples retained for possible chemical analysis were sealed with Teflon film and plastic end-caps. Each sample was labeled with at minimum, company name and project number, unique sample identifier, sampler's name, time and date of collection. The samples were placed in individual zipper locking bags and placed in a cooler with wet ice, pending transportation to the laboratory. The remainder of each core was examined and described by the AEI geologist. The descriptions of the cores are included on the boring logs that are included in Appendix A.

### **Groundwater Sample Collection**

Groundwater samples were collected from each of the eight soil borings. A new unused, ¾-inch PVC casing was placed in each boring to facilitate collection of the water samples. The casing consisted of 5-feet of 0.010-inch slotted casing and sufficient blank casing to rise above the ground surface. The water samples were collected using ¼-inch polyethylene tubing with a check valve on the bottom. Water samples were collected directly into one 1-liter amber bottle and three 40-milliliter (ml) volatile organic analysis vials (VOAs). The water samples from each

boring, except SB-5, were collected immediately after the borings were drilled. Boring SB-5 contained no water at the time it was drilled. After twenty minutes, a small amount of water had collected and after 2.5 hours, sufficient water had accumulated in the boring to fill three VOAs and partially fill a 1-liter amber.

Each sample was labeled with at minimum, company name and project number, unique sample identifier, sampler's name, time and date of collection. The samples were placed in individual zipper locking bags and placed in a cooler with water ice, pending transportation to the laboratory.

### **Boring Destruction**

Following sample collection, each boring was sealed to the surface with neat cement emplaced through a treamie pipe in accordance with Alameda County Public Works Agency and State of California guidelines.

### Laboratory Analysis

On May 19, 2005, the soil and groundwater samples were transported to McCampbell Analytical Inc. (Department of Health Services Certification #1644) under chain of custody protocol. One soil and one groundwater sample from each boring were selected for chemical analysis. The results of soil and groundwater analyses are shown on Tables 1 and Table 2. Chain of custody documents and copies of the analytical reports are included in Appendix C

The selected soil samples were analyzed for TPH-g, MTBE, and BTEX by methods SW 8015Cm/8021B. Analysis was also performed for TPH-d and Total Petroleum Hydrocarbons as motor oil (TPH-mo) by EPA method 8015C.

Groundwater samples were analyzed for TPH-g, MTBE, BTEX by methods SW 8015 Cm/8021B. Analysis was also performed for TPH-d, TPH-mo by EPA method 8015C.

### **III Findings**

#### Soil Analyses

No detectable concentrations of TPH-g, TPH-d, TPH-mo, MTBE or BTEX, were reported in any of the soil samples above detection limits of 1.0 mg/kg, 1.0 mg/kg, 5.0 mg/kg, 0.05 mg/kg and 0.005 mg/kg respectively.

### **Groundwater Analyses**

TPH-g was reported in groundwater sample from boring SB-2 (SB2-W) at a concentration of 7,300 micrograms per liter ( $\mu$ g/L). No TPH-g was reported in any other borings at or above a detection limit of 50  $\mu$ g/L. Toluene and xylenes were reported at concentrations of 11  $\mu$ g/L and

 $27 \mu g/L$  respectively in SB-2. No other BTEX compounds were reported in groundwater samples from any of the other borings at or above detection limits.

No TPH-d was reported in borings SB-7 at or above a detection limit of 50  $\mu$ g/L. TPH-d was reported in the other seven borings at concentrations ranging from 56  $\mu$ g/L (SB-4) to 23,000  $\mu$ g/L (SB-2).

No TPH-mo was reported in groundwater samples from borings SB-3, SB-4 and SB-7 at or above a detection limit of 250  $\mu$ g/L. TPH-mo was reported in groundwater samples from borings SB-1, SB-2, SB-5, SB-6 and SB-8 at concentrations ranging from 300  $\mu$ g/L (SB-6) to1400  $\mu$ g/L (SB-1 and SB-5).

No MTBE was reported by EPA Method 8021B in groundwater samples from any of the eight soil borings at or above a detection limit of  $0.05 \mu g/L$ .

The results of the groundwater analyses are summarized in Table 2 (Groundwater Sample Analytical Data) and shown on Figures 3 through 6. Copies of the laboratory reports are attached as Appendix B.

### **VI Recommendations**

AEI recommends the following action:

- Install four groundwater monitoring wells, one 4-inch diameter well at the location of boring SB-2 and three 2-inch diameter wells as shown on Figure 7.
- Upon approval of the above, prepare a workplan if required, followed by installation of the wells.
- Monitor the wells for a period of one year, at which time a remedial action plan should be prepared, if necessary

### **VII Report Limitation**

This report presents a summary of work completed by AEI Consultants. The completed work includes observations and descriptions of site conditions encountered. Where appropriate, it includes analytical results for samples taken during the course of the work. The number and location of samples are chosen to provide the required information, but it cannot be assumed that they are representative of areas not sampled. All conclusions and/or recommendations are based

on these analyses and observations, and the governing regulations. Conclusions beyond those stated and reported herein should not be inferred from this document.

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

If you have any questions regarding our investigation, please do not hesitate to contact Peter McIntyre or Robert Flory at (925) 944-2899.

No. 5825

Sincerely,

AEI Consultants

Robert F. Flory, P.G.

Senior Project Geologist

Peter J. McIntyre, P.G.

Program Manager

### **Figures**

Figure 1: Site Location Map

Figure 2: Site Plan

Figure 3: Boring location Plan

Figure 4: Groundwater Analytical Results

Figure 5: TPH-d Isopleths
Figure 6: TPH-mo Isopleths

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Figure 7: Proposed Well Locations

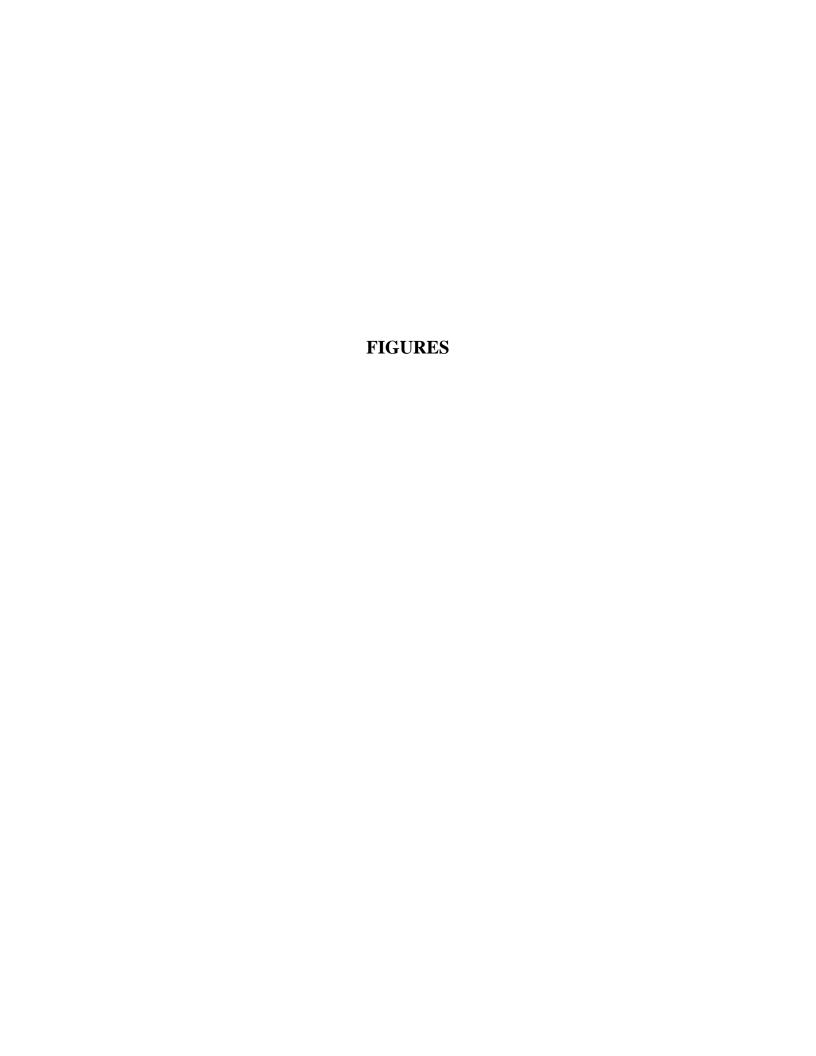
### **Tables**

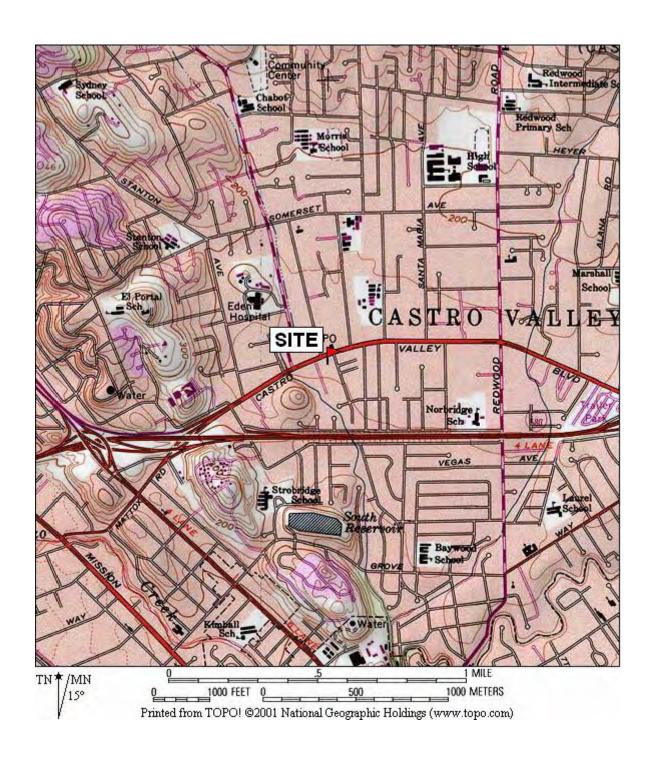
Table 1: Soil Sample Analytical Data

Table 2: Groundwater Sample Analytical Data

Appendix A Boring Logs

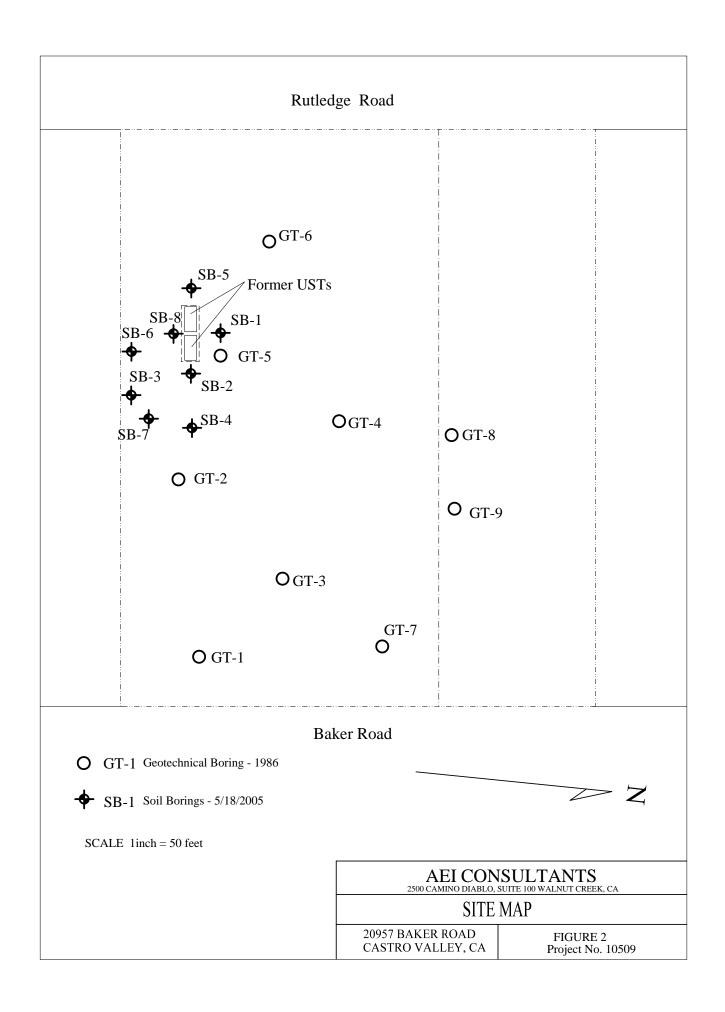
Appendix B Laboratory Analyses

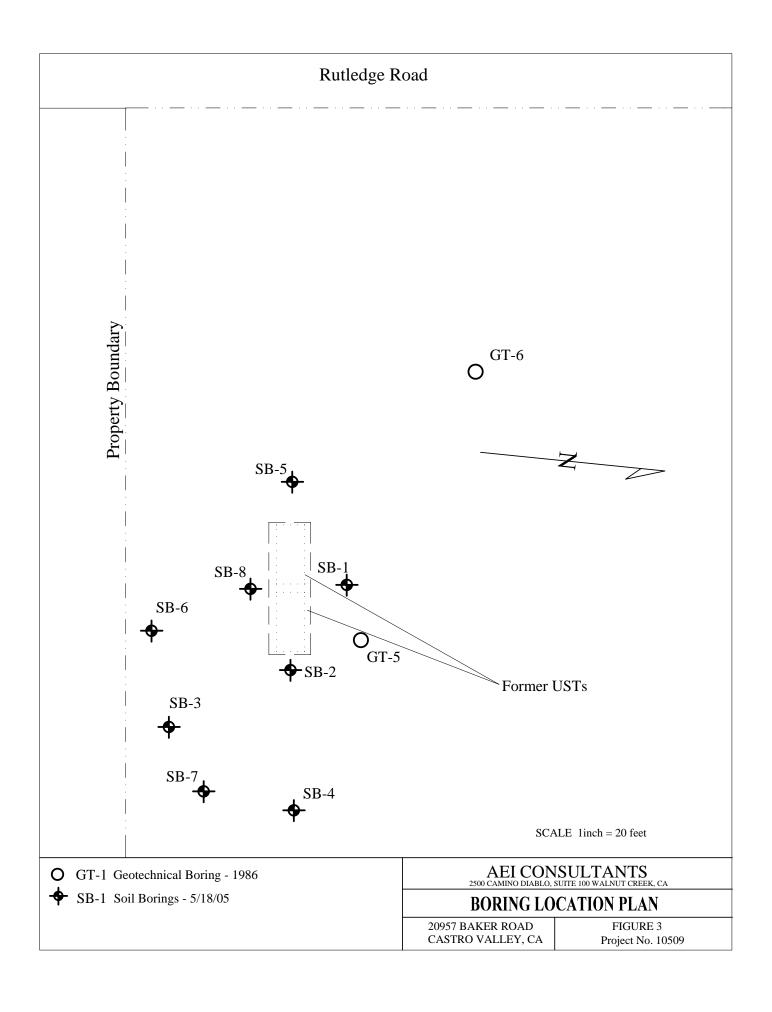


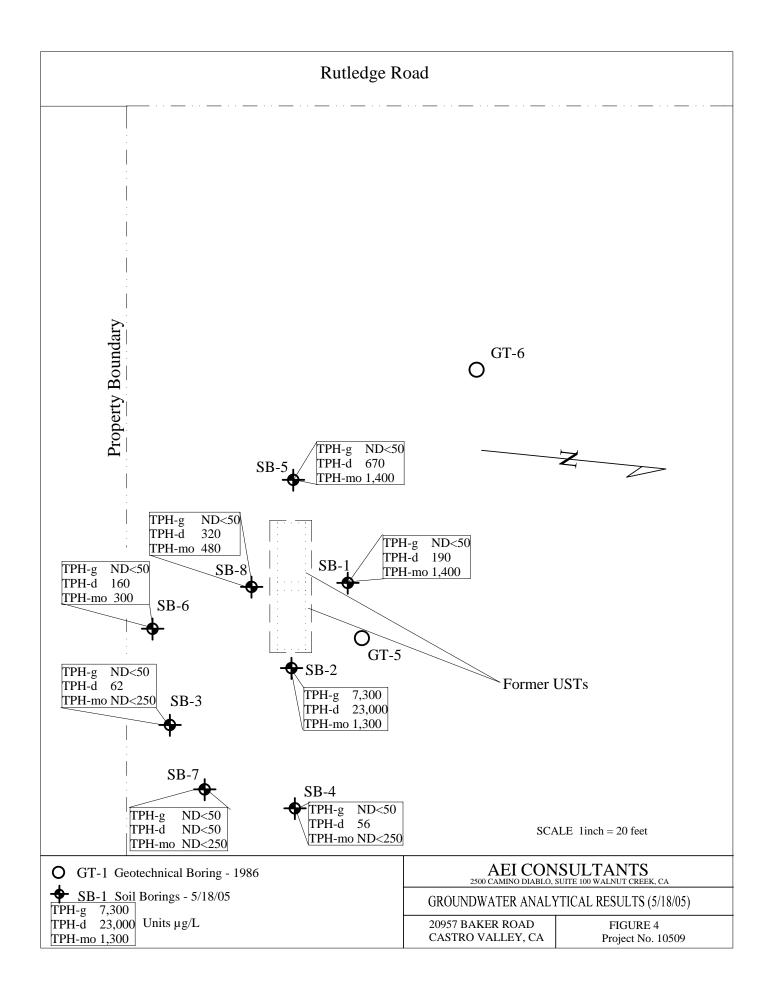


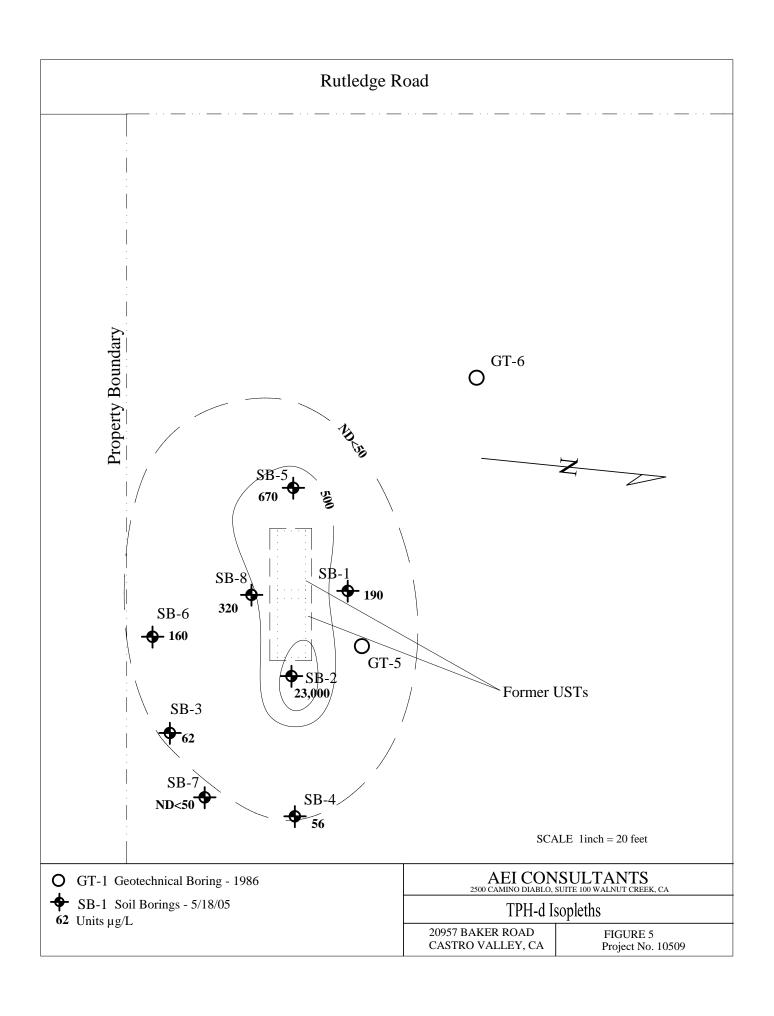
# AEI CONSULTANTS SITE LOCATION MAP

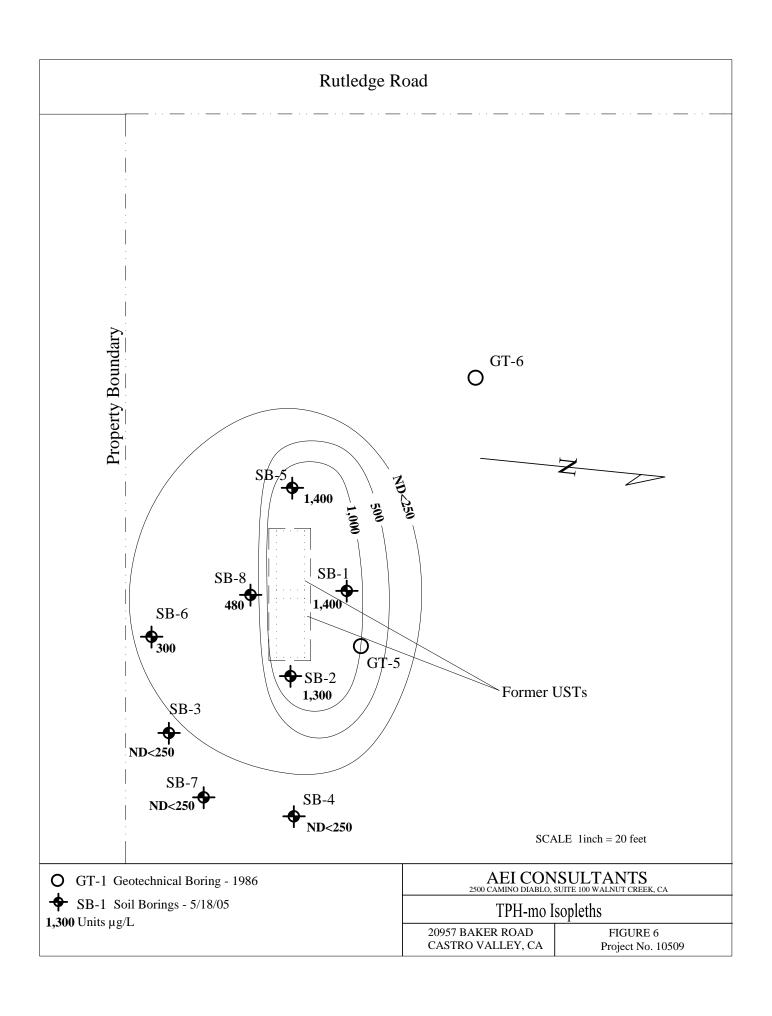
20957 BAKER ROAD CASTRO VALLEY, CALIFORNIA FIGURE 1 PROJECT No. 10509

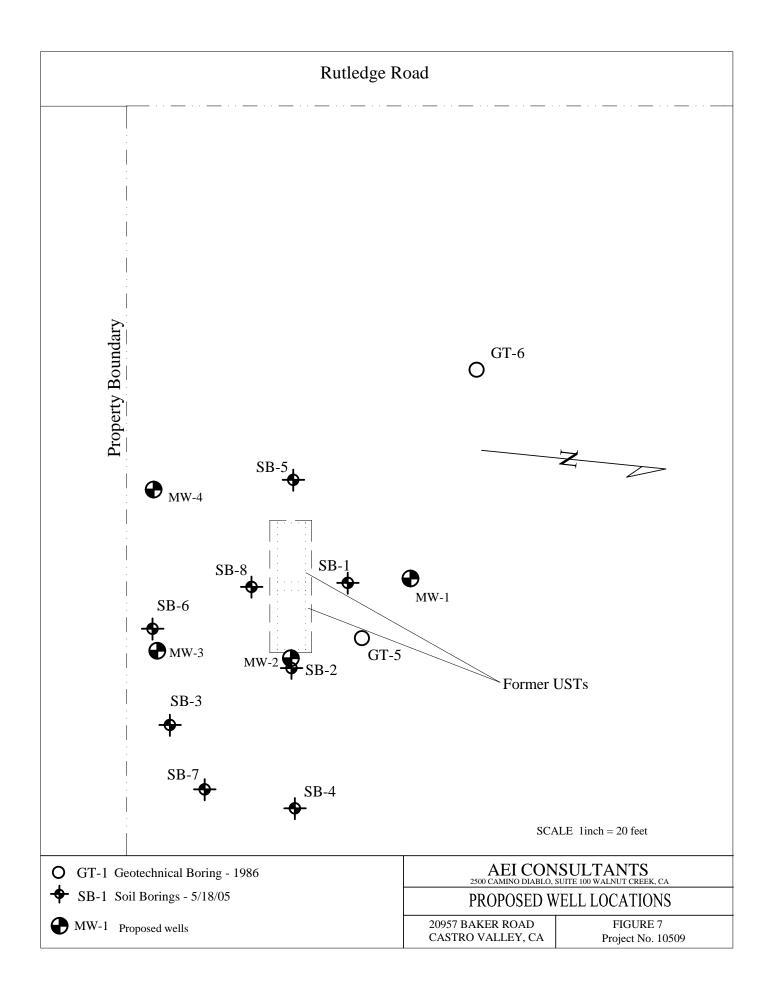












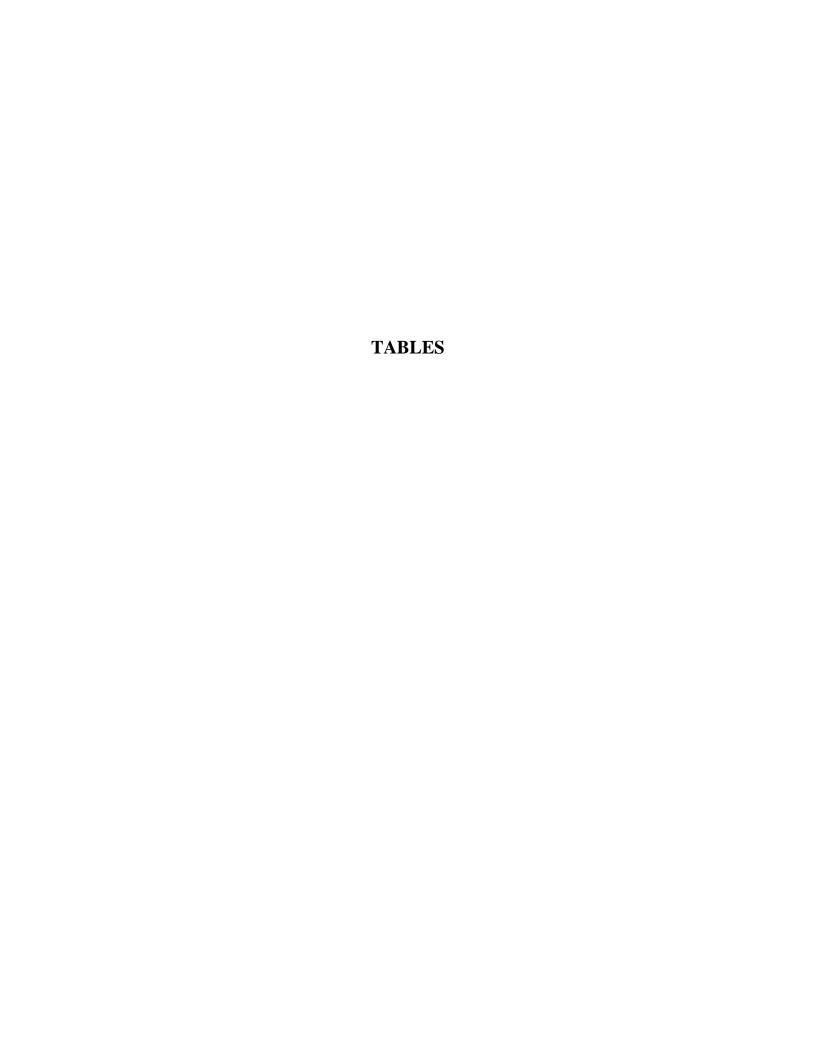


Table 1, Soil Sample Analytical Data, 20957 Baker Road, Castro Valley, California

Sample	TPH-g	TPH-d	TPH-mo	MTBE	Benzene	Toluene	E'benzene	Xylenes
ID	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	E	PA method 80	15		EF	PA method 802	1B	
SB1-11.5	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB2-10	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB3-7.5	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB4-7.5	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB5-7.5	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB6-7.5	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB7-8	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005
SB8-7.5	ND<1.0	ND<1.0	ND<5.0	ND<0.05	ND<0.005	ND<0.005	ND<0.005	ND<0.005

Notes

TPH-g = total petroleum hydrocarbons as gasoline

TPH-d = total petroleum hydrocarbons as diesel

TPH-mo = total petroleum hydrocarbons as motor oil

MTBE = methyl tert-butyl ether

mg/kg = micrograms per liter (parts per billion)

Table 2, Groundwater Sample Analytical Data, 20957 Baker Road, Castro Valley, California

Sample	TPH-g	TPH-d	TPH-mo	MTBE	Benzene	Toluene	E'benzene	Xylenes
ID	μg/l	μg/l	μg/l	μg/l	μg/l	μg/l	μg/l	μg/l
	E	EPA method 801.	5		EF	PA method 802	1B	
SB-1 W	ND<50	$190^{1,2}$	1400	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB-2 W	7,300 <sup>3,4</sup>	$23,000^{1,2,4,5}$	1300	ND<50	ND<5.0	11	ND<5.0	27
SB3-W	ND<50	62	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB4-W	ND<50	56 <sup>2</sup>	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB5-W	ND<50	$670^{1,2}$	1400	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB6-W	ND<50	$160^{1,2}$	300	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB7-W	ND<50	ND<50	ND<250	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5
SB8-W	ND<50	$320^{1,2}$	480	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5

#### Notes

- 1 oil range compounds are significant
- 2 = diesel range compounds are significant, no recognizable pattern
- 3 = no recognizable pattern
- 4 = lighter than water immiscible sheen/product is present
- 5 = gasoline rage compounds are significant

TPH-g = total petroleum hydrocarbons as gasoline

TPH-d = total petroleum hydrocarbons as diesel

TPH-mo = total petroleum hydrocarbons as motor oil

 $MTBE = methyl \ tert-butyl \ ether$ 

 $\mu g/l = micrograms \; per \; liter \; (parts \; per \; billion)$ 

# APPENDIX A

**Boring Logs** 

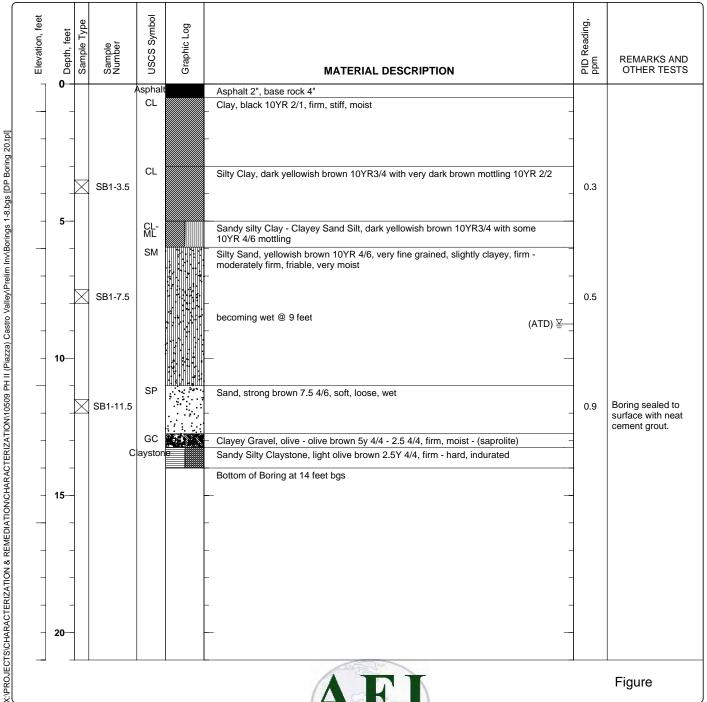
Project Location: 20957 Baker Road, Castro Valley, CA

**Project Number: 10509** 

# Log of Boring SB-1

Sheet 1 of 1

Date(s) Drilled May 18, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Geoprobe	Drill Bit Size/Type	Total Depth of Borehole 14 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor EnProb	Approximate Surface Elevation
Groundwater Level and Date Measured 8.75 feet ATD	Sampling Method(s) <b>Tube</b>	Permit #
Borehole Backfill Cement Slurry	Location	



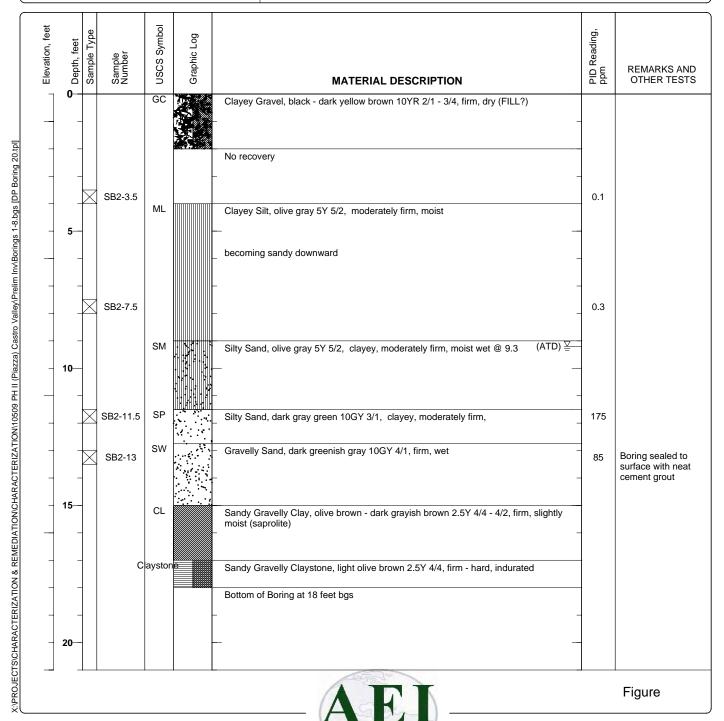
Project Location: 20957 Baker Road, Castro Valley, CA

Project Number: 10509

# **Log of Boring SB-2**

Sheet 1 of 1

Date(s) Drilled May 18, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method <b>Geoprobe</b>	Drill Bit Size/Type 2 inch	Total Depth of Borehole 18 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor EnProb	Approximate Surface Elevation
Groundwater Level and Date Measured 9.2 feet ATD	Sampling Method(s) <b>Tube</b>	Permit #
Borehole Backfill Cement Slurry	Location	



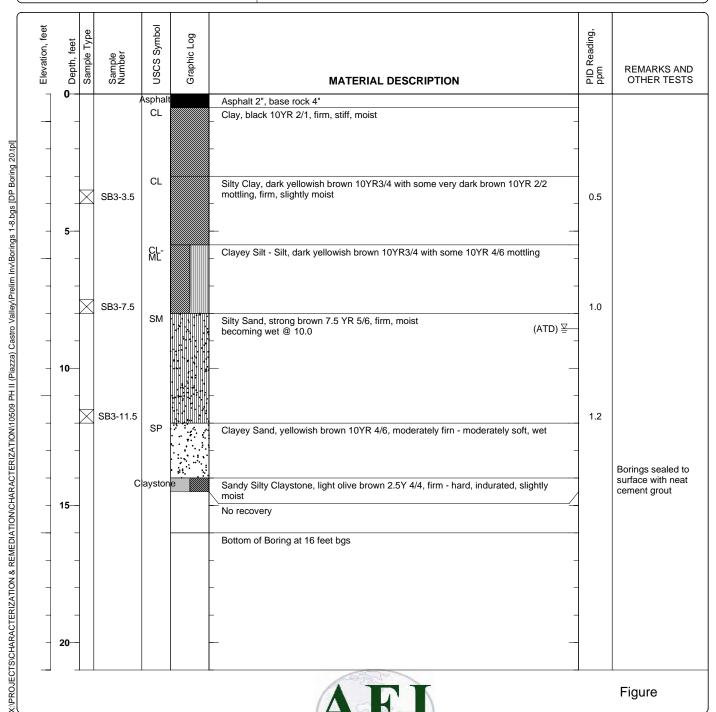
Project Location: 20957 Baker Road, Castro Valley, CA

Project Number: 10509

# **Log of Boring SB-3**

Sheet 1 of 1

Date(s) Drilled May 18, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Geoprobe	Drill Bit Size/Type 2 inch	Total Depth of Borehole 16 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor EnProb	Approximate Surface Elevation
Groundwater Level and Date Measured 8.56 feet ATD	Sampling Method(s) <b>Tube</b>	Permit #
Borehole Backfill Cement Slurry	Location	



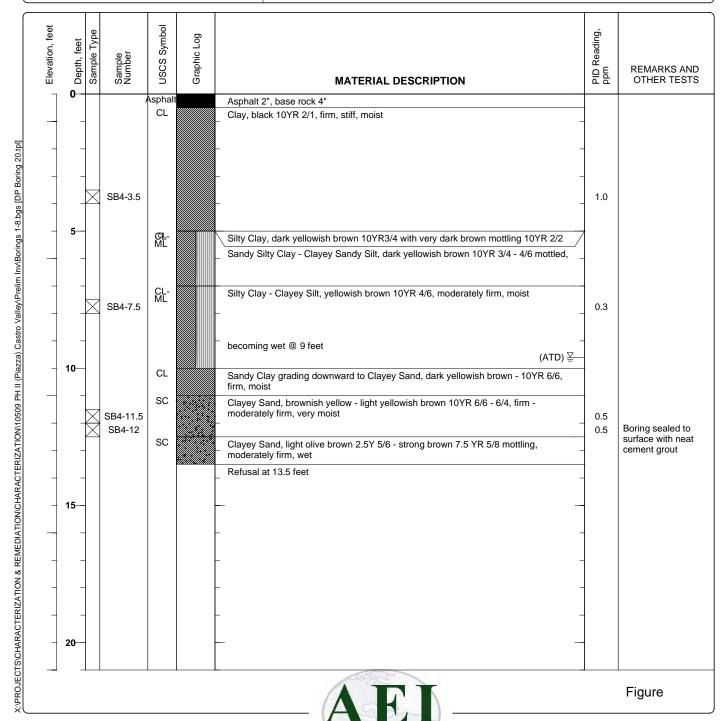
Project Location: 20957 Baker Road, Castro Valley, CA

Project Number: 10509

# **Log of Boring SB-4**

Sheet 1 of 1

Date(s) Drilled May 18, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method <b>Geoprobe</b>	Drill Bit Size/Type 2 inch	Total Depth of Borehole 13.5 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor EnProb	Approximate Surface Elevation
Groundwater Level and Date Measured 9.6 feet ATD	Sampling Method(s) <b>Tube</b>	Permit #
Borehole Backfill Cement Slurry	Location	



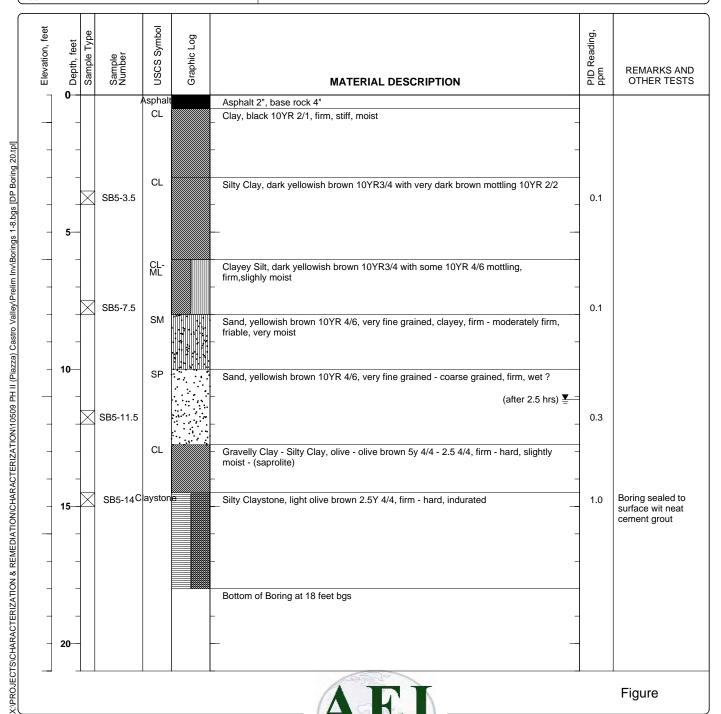
Project Location: 20957 Baker Road, Castro Valley, CA

Project Number: 10509

# **Log of Boring SB-5**

Sheet 1 of 1

Date(s) Drilled May 18, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Geoprobe	Drill Bit Size/Type 2 inch	Total Depth of Borehole 18 feet bgs
Drill Dia	Drilling Contractor EnProb	Approximate Surface Elevation
Groundwater Level Dry feet ATD, 11.1 feet and Date Measured after 2.5 hrs	Sampling Method(s) <b>Tube</b>	Permit #
Borehole Backfill Cement Slurry	Location	



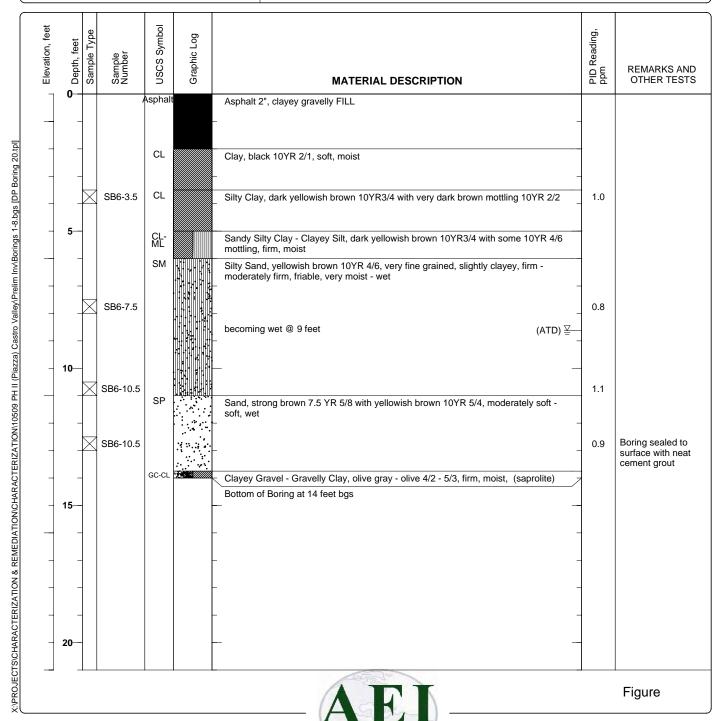
Project Location: 20957 Baker Road, Castro Valley, CA

Project Number: 10509

# **Log of Boring SB-6**

Sheet 1 of 1

Date(s) Drilled May 18, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method <b>Geoprobe</b>	Drill Bit Size/Type 2 inch	Total Depth of Borehole 14 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor EnProb	Approximate Surface Elevation
Groundwater Level and Date Measured 8.62 feet ATD	Sampling Method(s) Tube	Permit #
Borehole Backfill Cement Slurry	Location	



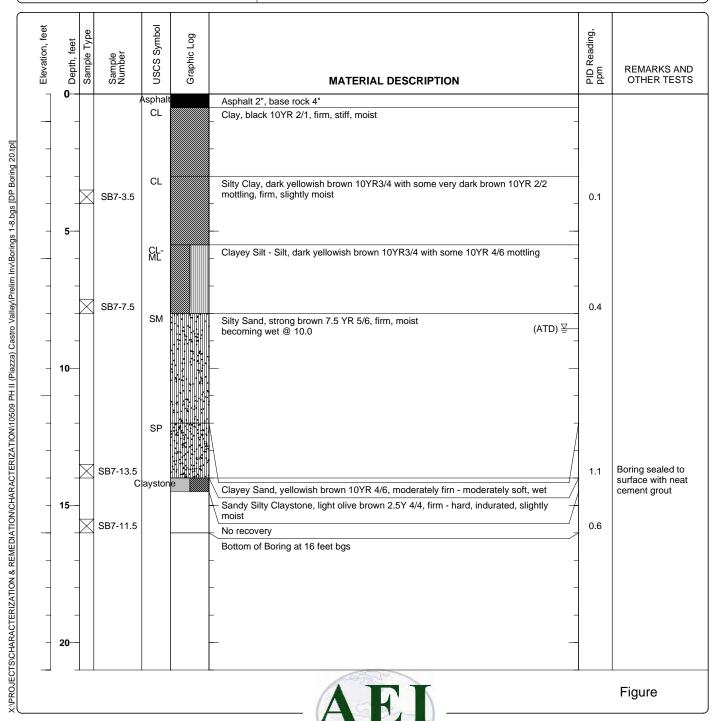
Project Location: 20957 Baker Road, Castro Valley, CA

Project Number: 10509

# **Log of Boring SB-7**

Sheet 1 of 1

Date(s) Drilled May 18, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Geoprobe	Drill Bit Size/Type 2 inch	Total Depth of Borehole 16 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor EnProb	Approximate Surface Elevation
Groundwater Level and Date Measured 8.56 feet ATD	Sampling Method(s) <b>Tube</b>	Permit #
Borehole Backfill Cement Slurry	Location	



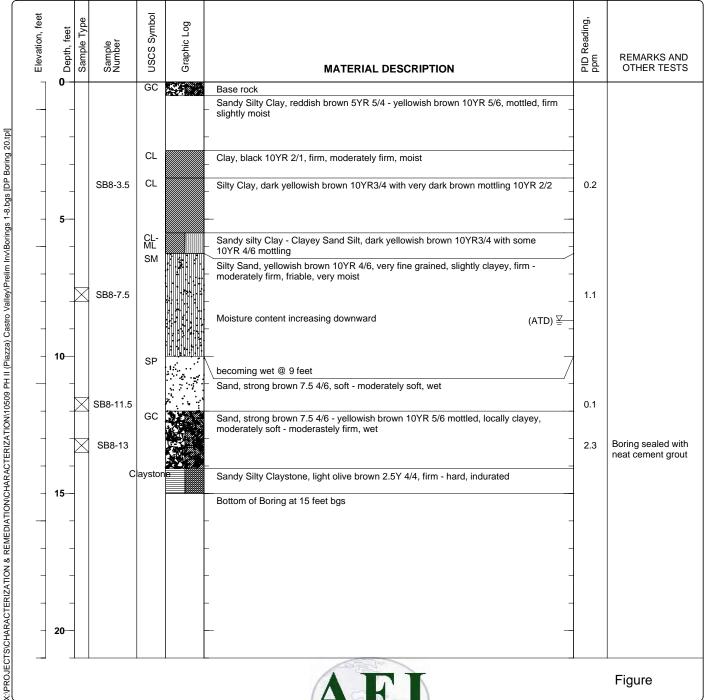
Project Location: 20957 Baker Road, Castro Valley, CA

**Project Number: 10509** 

# **Log of Boring SB-8**

Sheet 1 of 1

Date(s) Drilled May 18, 2005	Logged By Robert F. Flory	Checked By Adrian Angel
Drilling Method Geoprobe	Drill Bit Size/Type <b>2 inch</b>	Total Depth of Borehole 15 feet bgs
Drill Rig Type Geoprobe 5410	Drilling Contractor EnProb	Approximate Surface Elevation
Groundwater Level and Date Measured 8.7 feet ATD	Sampling Method(s) <b>Tube</b>	Permit #
Borehole Backfill Cement Slurry	Location	



ASE —

# APPENDIX B

Laboratory Analyses
With
Chain of Custody Documentation



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

AEI Consultants	Client Project ID: #10509; Piazza	Date Sampled: 05/18/05
2500 Camino Diablo, Ste. #200	_	Date Received: 05/19/05
Walnut Coals CA 04507	Client Contact: Robert Flory	Date Reported: 05/24/05
Walnut Creek, CA 94597	Client P.O.:	Date Completed: 05/24/05

WorkOrder: 0505282

May 24, 2005

### Dear Robert:

#### Enclosed are:

- 1). the results of 9 analyzed samples from your #10509; Piazza project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

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

Angela Rydelius, Lab Manager



1/2

TURN AROUND TIME	
Telephone: (925) 944-2899   Fax: (925) 944-2895   EDF Required? Coekt (Normal)   No Write On (DW)   No	( <u>P</u>
Report To: Robert Flory   Bill To:   Analysis Request   Other   Company: AEI Consultants   AEI Consultants   2500 Camino Diablo, Suite 100   Walnut Creek, CA 94597   E-Mail: rflory@aeiconsultants.com   Tele: (925) 944-2895   Project Incation: Castro Valley   Project Location: Castro Valley   Sampler Signature:   SAMPLE ID (Field Point Name)   Date   Time   Time	5 DAY
Company: AEI Consultants	onte
2500 Camino Diablo, Suite 100  Walnut Creek, CA 94597  Tele: (925) 944-2899 ext. 122  Project #: 10509  Project Location: Castro Valley  Sampler Signature:  SAMPLE ID (Field Point Name)  B LEX 001/8010 (901/8010 bcase (181))  E B 4 6 6 5 / 8 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ents
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0900	
700 770	
5B2-10 0905 XX	1
582-13 0960	
583 -7.5 0950 XX	
5/3-165	
584-35 1045	
384-7.5 1050 XX	
384-115 1054	
564-12-1105	
Relinquished By:  Date: Time: Received By:  VOAS   O&G   METALS	OTHER
MAN JIGG 110 VIII OUT O ICE/to PRESERVATION	OTHER
Refinquished By:   Date: Time: Received By:   GOOD CONDITION \ APPROPRIATE	
HEAD SPACE ABSENT CONTAINERS V DECHLORINATED IN LAB PERSERVED IN LAB	
Relinquished By:  Date: Time: Received By:  DECHLORINATED IN LABFERSERVED IN LAB	

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AEI Consultants 2500 Camino Diablo, Suite 100																	FC			O			E		R	D	_	_					
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Report To: Robert Flory	, , , , , , ,	R	ill To		(			- 100		_		4		OF I	Key	une	the Real Property lies	Ana	THE REAL PROPERTY.	NAME OF TAXABLE PARTY.	The State of the last	20 Oct 10 Inc.	140		***	110		MIGH	Otl	_		Com	nents
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Tele: (925) 944-2899 ext	. 122			(925)									15)/N	(80	520 E	18.1		(0)					3/0/			oatal							
Project #: 10509	//	P	rojec	et Nar	me:	Piaz	za						+ 80	r oil	e (55	ns (4		/ 802	(093	Y			/ 827			Tc							
Project Location: Castro	Walley /	1										$\dashv$	3020	moto	reas	arboi	st)	605	y 82	ONL			625			0109		015					
Sampler Signature:	7/1	1			_		300			MET	THOI	D	602/8	sel/i	& G	droca	sic li	PA	ist (L	B's (	093		EPA 625 / 8270 / 8310			19.2/		8 V					
1/0	SAMI	PLANG	y <sub>0</sub>	iers		MA	FRI	X	P	RES	ERV	ED	Gas (602/8020	TPH Multi-range diesel/motor oil	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010 (basic list)	BTEX ONLY (By EPA 602 / 8020)	EPA 8010 - basic list (by 8260)	EPA 608 / 8010 PCB's ONLY	EPA 624 / 8240 / 8260	0	by	S	-	Lead (7240/7421/239.2/6010)	1	TPH multi-range EPA 8015		,			
SAMPLE ID	/	1	ner	ntair							1		H as	-rang	leun	leun	8010	LY (	- b	8010	824	827	NA's	Metal	letals	0/74		-rang	otal	TLC	4		
(Field Point Name) LOCATIO	Date	Time	Containers	Type Containers	I.			age .			3	L	BTEX & TPH as	Multi	Petro	Petro	/ 109	NO	8010	/809	524/	EPA 625 / 8270	PAH's / PNA's by	CAM-17 Metals	LUFT 5 Metals	(724)	9	multi	LEAD - Total	LEAD - STLC			
	Date	I IIIIC		ype	Water	Soil	Air	Sludge	Ice	HC	HNO3	Other	TEX	PH	otal	otal	PA	TEX	PA	PA	PA	PA	AH,	AM	UF	ead	RCI	PH	EA	EA			
			#			SO.	A C	2	1	#	H	0			T	T	Ш	В	Н	Ш	Ш	Щ	Ь	0	1	П	R	T	-	I			
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110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 0505282 ClientID: AEL

Report to: Bill to: Requested TAT: 5 days

Robert Flory TEL: (925) 283-6000 Diane

FAX: (925) 283-6121 All Environmental, Inc. **AEI Consultants** 

Date Received: 05/19/2005 2500 Camino Diablo, Ste. #200 ProjectNo: #10509; Piazza 2500 Camino Diablo, Ste. #200

PO: Walnut Creek, CA 94597 Walnut Creek, CA 94597 Date Printed: 06/03/2005

									F	Request	ed Test	s (See I	egend b	elow)					
Sample ID	ClientSampID	Matrix	<b>Collection Date</b>	Hold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
													<b></b>						
0505282-001	SB1-3.5	Soil	05/18/2005			Α													
0505282-003	SB1-11.5	Soil	05/18/2005		Α		Α												
0505282-005	SB2-10	Soil	05/18/2005		Α		Α												
0505282-007	SB3-7.5	Soil	05/18/2005		Α		Α												
0505282-010	SB4-7.5	Soil	05/18/2005		Α		Α												
0505282-013	SB5-7.5	Soil	05/18/2005		Α		Α												
0505282-015	SB6-7.5	Soil	05/18/2005		Α		Α												
0505282-017	SB7-8	Soil	05/18/2005		Α		Α												
0505282-019	SB8-7.5	Soil	05/18/2005		Α		Α												

#### Test Legend:

1	G-MBTEX_S	2 PREDF REPORT	3 TPH(DMO)_S	4	5	
6		7	8	9	10	
11		12	13	14	15	

Prepared by: Melissa Valles

#### **Comments:**

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



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AEI Consultants	Client Project ID: #10509; Piazza	Date Sampled: 05/18/05
2500 Camino Diablo, Ste. #200		Date Received: 05/19/05
Walnut Creek, CA 94597	Client Contact: Robert Flory	Date Extracted: 05/19/05
Wallet Crock, CH 71377	Client P.O.:	Date Analyzed: 05/20/05

#### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE\*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0505282

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
003A	SB1-11.5	S	ND	ND	ND	ND	ND	ND	1	94
005A	SB2-10	S	ND	ND	ND	ND	ND	ND	1	99
007A	SB3-7.5	S	ND	ND	ND	ND	ND	ND	1	92
010A	SB4-7.5	S	ND	ND	ND	ND	ND	ND	1	90
013A	SB5-7.5	S	ND	ND	ND	ND	ND	ND	1	95
015A	SB6-7.5	S	ND	ND	ND	ND	ND	ND	1	100
017A	SB7-8	S	ND	ND	ND	ND	ND	ND	1	105
019A	SB8-7.5	S	ND	ND	ND	ND	ND	ND	1	99
	ng Limit for DF =1;	W	NA	NA	NA	NA	NA	NA	1	ug/L
	ns not detected at or the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in  $\mu g/L$ , soil/sludge/solid samples in mg/kg, wipe samples in  $\mu g/kg$ , product/oil/non-aqueous liquid samples in mg/L.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



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AEI Consultants	Client Project ID: #10509; Piazza	Date Sampled: 05/18/05
2500 Camino Diablo, Ste. #200		Date Received: 05/19/05
Walnut Creek, CA 94597	Client Contact: Robert Flory	Date Extracted: 05/19/05
wallat creek, cri 54377	Client P.O.:	Date Analyzed: 05/20/05

#### Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil\*

Extraction method: SW3550C Analytical methods: SW8015C Work Order: 0505282

Extraction method: SW3550C Analytical methods: SW8015C						der: 0505282
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0505282-003A	SB1-11.5	S	ND	ND	1	116
0505282-005A	SB2-10	S	ND	ND	1	110
0505282-007A	SB3-7.5	S	ND	ND	1	102
0505282-010A	SB4-7.5	S	ND	ND	1	113
0505282-013A	SB5-7.5	S	ND	ND	1	106
0505282-015A	SB6-7.5	S	ND	ND	1	94
0505282-017A	SB7-8	S	ND	ND	1	110
0505282-019A	SB8-7.5	S	ND	ND	1	106
	Limit for DF =1;	W	NA	NA	ug	;/L
	not detected at or e reporting limit	S	1.0	5.0	mg	/Kg

in mg/L,
g z,
1

<sup>#</sup> 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.

<sup>+</sup>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 (asphalt?); 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.

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### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0505282

EPA Method: SW8021B/8015	Cm E	xtraction:	SW5030B	1	Batc	hID: 1628	9	Spiked Sample ID: 0505280-034A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
, unary to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
TPH(btex) <sup>£</sup>	ND	0.60	95.9	93.2	2.82	98.6	92.2	6.76	70 - 130	70 - 130	
MTBE	ND	0.10	93.3	87.3	6.66	91.3	94.8	3.74	70 - 130	70 - 130	
Benzene	ND	0.10	106	102	3.48	103	110	5.98	70 - 130	70 - 130	
Toluene	ND	0.10	83.7	84.4	0.844	85.7	88.9	3.69	70 - 130	70 - 130	
Ethylbenzene	ND	0.10	100	98.7	1.74	102	106	3.67	70 - 130	70 - 130	
Xylenes	ND	0.30	90.7	87	4.13	91.7	91	0.730	70 - 130	70 - 130	
%SS:	109	0.10	108	112	3.64	105	108	2.82	70 - 130	70 - 130	

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

NONE

#### BATCH 16289 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0505282-003A	5/18/05 8:05 AM	5/19/05	5/20/05 8:49 AM	0505282-005A	5/18/05 9:05 AM	5/19/05	5/20/05 9:19 AM
0505282-007A	5/18/05 9:50 AM	5/19/05	5/20/05 10:19 AM	0505282-010A	5/18/05 10:50 AM	5/19/05	5/20/05 10:48 AM
0505282-013A	5/18/05 11:30 AM	5/19/05	5/20/05 11:18 AM	0505282-015A	5/18/05 12:20 PM	5/19/05	5/20/05 11:48 AM
0505282-017A	5/18/05 1:15 PM	5/19/05	5/20/05 7:19 AM	0505282-019A	5/18/05 2:10 PM	5/19/05	5/20/05 7:52 AM

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

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

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

\_\_\_\_QA/QC Officer

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

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### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder: 0505282

EPA Method: SW8015C	Method: SW8015C Extraction: SW3550C							Spiked Sample ID: 0505282-019A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)		
7	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD		
TPH(d)	ND	20	81.1	81.8	0.826	98.8	100	1.18	70 - 130	70 - 130		
%SS:	106	50	89	91	1.19	106	107	1.32	70 - 130	70 - 130		

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

### BATCH 16282 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0505282-003A	5/18/05 8:05 AM	5/19/05	5/20/05 2:50 PM	0505282-005A	5/18/05 9:05 AM	5/19/05	5/20/05 2:50 PM
0505282-007A	5/18/05 9:50 AM	5/19/05	5/20/05 8:42 PM	0505282-010A	5/18/05 10:50 AM	5/19/05	5/20/05 7:36 PM
0505282-013A	5/18/05 11:30 AM	5/19/05	5/20/05 5:24 PM	0505282-015A	5/18/05 12:20 PM	5/19/05	5/20/05 6:30 PM
0505282-017A	5/18/05 1:15 PM	5/19/05	5/20/05 4:13 PM	0505282-019A	5/18/05 2:10 PM	5/19/05	5/20/05 4:13 PM

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

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

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

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

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

\_\_\_\_QA/QC Officer



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AEI Consultants	Client Project ID: #10509; Piazza	Date Sampled: 05/18/05
2500 Camino Diablo, Ste. #200		Date Received: 05/19/05
Walnut Creek, CA 94597	Client Contact: Robert Flory	Date Reported: 05/26/05
Wallut Cleek, CA 34331	Client P.O.:	Date Completed: 05/26/05

WorkOrder: 0505283

May 26, 2005

Dear Robert:

Enclosed are:

- 1). the results of 8 analyzed samples from your #10509; Piazza project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

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

Yours truly,

Angela Rydelius, Lab Manager

Och Cero for



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AEI Consultants	Client Project ID: #10509; Piazza	Date Sampled: 05/18/05
2500 Camino Diablo, Ste. #200		Date Received: 05/19/05
Walnut Creek, CA 94597	Client Contact: Robert Flory	Date Extracted: 05/20/05
Wallut Clock, CA 94397	Client P.O.:	Date Analyzed: 05/20/05

	Gasol	ine Ran	ge (C6-C12)	Volatile Hyd	rocarbons as	Gasoline wi	th BTEX and	MTBE*		
Extraction	method: SW5030B			Analytical	methods: SW8021	B/8015Cm		Work (	Order: 0:	505283
Lab ID	Client ID	Matrix	TPH(g)	МТВЕ	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	SB1-W	w	ND,i	ND	ND	ND	ND	ND	1	96
002A	SB2-W	w	7300,m,h,i	ND<50	ND<5.0	11	ND<5.0	27	10	100
003A	SB3-W	w	ND,i	ND	ND	ND	ND	ND	1	92
004A	SB4-W	w	ND,i	ND	ND	ND	ND	ND	1	97
005A	SB5-W	w	ND,i	ND	ND	ND	ND	ND	1	96
006A	SB6-W	w	ND,i	ND	ND	ND	ND	ND	1	100
007A	SB7-W	w	ND,i	ND	ND	ND	ND	ND	1	95
008A	SB8-W	w	ND,i	ND	ND	ND	ND	ND	1	96
-										ļ
					-					
	g Limit for DF =1; s not detected at or	W	50	5.0	0.5	0.5	0.5	0.5	1	μg/L
ND mean	s not detected at or	C	NIA	NIA	NIA	NIA	NIA	NI.A	<b>—</b>	/1/

above the reporting limit	3	NA	NA	NA.	NA	NA	NA.	1	mg/
* water and vapor samples an	d all TCI	P & SPLP extrac	ets are reported in	ug/L, soil/sludge	solid samples ir	n mg/kg, wipe sa	mples in μg/wipe	·,	
product/oil/non-aqueous liqui	d sample	s in mg/L.							

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



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AEI Consultants	Client Project ID: #10509; Piazza	Date Sampled: 05/18/05
2500 Camino Diablo, Ste. #200		Date Received: 05/19/05
Walnut Creek, CA 94597	Client Contact: Robert Flory	Date Extracted: 05/19/05
wallut Cleek, CA 94397	Client P.O.:	Date Analyzed: 05/20/05-05/24/05

#### Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil\*

xtraction method: SW	3510C		Analytical methods: SW8015C		Work O	rder: 050528
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0505283-001B	SB1-W	w	190,g,b,i	1400	1	105
0505283-002B	SB2-W	w	23,000,d,b,g,h,i	1300	1	102
0505283-003B	SB3-W	w	62,i	ND	1	102
0505283-004B	SB4-W	w	56,b,i	ND	1	106
0505283-005B	SB5-W	w	670,g,b,i	_ 1400	1	113
0505283-006B	SB6-W	w	160,g,b,i	300	1	111
0505283-007B	SB7-W	w	ND,i	ND	1	105
0505283-008B	SB8-W	w	320,g,b,i	480	1	115
	······································					
	<del>.</del>					
	mit for DF =1;	w	50	250	- μ	g/L
	t detected at or eporting limit	S	NA	NA	mį	g/Kg

<sup>\*</sup> 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 / SPLP / TCLP extracts are reported in µg/L.

<sup>#</sup> 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.

<sup>+</sup>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.



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### QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0505283

EPA Method: SW8015C	E	xtraction	SW35100	;	Batc	hID: 1627	9	Spiked San	npie ID: N/A	
Analyte	Sample	Spiked	мѕ	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
, and yes	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(d)	N/A	1000	N/A	N/A	N/A	99.4	98.9	0.467	N/A	70 - 130
%SS:	N/A	2500	N/A	N/A	N/A	108	107	0.752	N/A	70 - 130

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

NONE

#### **BATCH 16279 SUMMARY**

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	_ Date Sampled	Date Extracted	Date Analyzed
0505283-001B	5/18/05 8:30 AM	5/19/05	5/24/05 12:41 AM	0505283-002B	5/18/05 9:30 AM	5/19/05	5/23/05 10:20 PM
0505283-003B	5/18/05 10:20 AM	5/19/05	5/24/05 9:55 AM	0505283-004B	5/18/05 11:00 AM	5/19/05	5/23/05 11:31 PM
0505283-005B	5/18/05 3:00 PM	5/19/05	5/24/05 7:35 AM	0505283-006B	5/18/05 12:50 PM	5/19/05	5/20/05 1:44 PM
0505283-007B	5/18/05 1:45 PM	5/19/05	5/24/05 12:30 PM	0505283-008B	5/18/05 2:30 PM	5/19/05	5/24/05 6:26 AM

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

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

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

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

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

QA/QC Officer

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

### QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0505283

EPA Method: SW8021B/	8015Cm E	xtraction:	SW5030E	1	Batc	hID: 1628	1	Spiked San	nple ID: 050	5283-006A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
Analyte	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) <sup>£</sup>	ND	60	92.3	93.9	1.70	94.4	93.3	1.21	70 - 130	70 - 130
мтве	ND	10	82	82.4	0.505	91	88.7	2.60	70 - 130	70 - 130
Benzene	ND	10	103	105	1.62	93.2	98.2	5.16	70 - 130	70 - 130
Toluene	ND	10	104	110	5.50	101	102	1.11	70 - 130	70 - 130
Ethylbenzene	ND	10	105	102	2.77	99	101	1.67	70 - 130	70 - 130
Xylenes	ND	30	91.3	90.7	0.733	86.3	90.3	4.53	70 - 130	70 - 130
%SS:	100	10	109	112	2.42	100	103	2.46	70 - 130	70 - 130

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

NONE

#### BATCH 16281 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0505283-001A	5/18/05 8:30 AM	5/20/05	5/20/05 1:48 AM	0505283-002A	5/18/05 9:30 AM	5/20/05	5/20/05 10:06 PM
0505283-003A	5/18/05 10:20 AM	5/20/05	5/20/05 3:59 AM	0505283-004A	5/18/05 11:00 AM	5/20/05	5/20/05 7:14 AM
0505283-005A	5/18/05 3:00 PM	5/20/05	5/20/05 9:24 AM	0505283-006A	5/18/05 12:50 PM	5/20/05	5/20/05 7:46 AM
0505283-007A	5/18/05 1:45 PM	5/20/05	5/20/05 8:51 AM	0505283-008A	5/18/05 2:30 PM	5/20/05	5/20/05 9:57 AM

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

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

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

QA/QC Officer

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

aet 0505283

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110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

# **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0505283

ClientID: AEL

Report to:

Robert Flory

**AEI Consultants** 

2500 Camino Diablo, Ste. #200 Walnut Creek, CA 94597

TEL: FAX:

(925) 283-6121 ProjectNo: #10509; Piazza

(925) 283-6000

PO:

Bill to:

Requested TAT:

5 days

Diane

All Environmental, Inc.

2500 Camino Diablo, Ste. #200

Date Received:

05/19/2005

Walnut Creek, CA 94597

Date Printed: 05/19/2005

				<u></u>	 				Regu	este	d Tes	ts (S	ee le	nenc	l be	low)		 			
Sample ID	ClientSampID	Matrix	Collection Date Hold	1	 2	3	4	5		3	7		8	9		10	11	12	13	14	15
0505283-001	SB1-W	Water	5/18/05 8:30:00 AM	Α	 Α	В	Ţ		T												
0505283-002	SB2-W	Water	5/18/05 9:30:00 AM	Α		В				1											
0505283-003	SB3-W	Water	5/18/05 10:20:00	Α		В				į							↓				
0505283-004	SB4-W	Water	5/18/05 11:00:00	Α		В															
0505283-005	SB5-W	Water	5/18/05 3:00:00 PM	Α		В															
0505283-006	SB6-W	Water	5/18/05 12:50:00	Α		В											<u> </u>	 			
0505283-007	SB7-W	Water	5/18/05 1:45:00 PM	Α		В												 			
0505283-008	SB8-W	Water	5/18/05 2:30:00 PM	Α		В								<u></u>						<u>.                                    </u>	

#### Test Legend:

1	G-MBTEX_W
6	
11	

2	PREDF REPORT
7	
12	

3 TPH(DMO)_W	
8	
13	

4	
0	
3	
14	

5	 
10	 
15	 

Prepared by: Melissa Valles

#### **Comments:**

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