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1:37 pm, Apr 22, 2008

Alameda County
Environmental Health

April 17, 2008

Mr. Jerry T. Wickham, P.G., CHG
Hazardous Materials Specialist
Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

**SUBJECT: GROUNDWATER MONITORING WELL INSTALLATION,
DEVELOPMENT, SAMPLING, AND SOIL EXCAVATION REPORT
Legacy Hanson Radium Site
3000 Busch Road
Pleasanton, California
SLIC Case RO0002952 and Geotracker Global ID SL0600101555**

Dear Mr. Wickham:

ENV America Incorporated (ENV America) has prepared this Groundwater Monitoring Well Installation, Development, Sampling, and Soil Excavation Report (Report) for the Legacy Hanson Radium Property located at 3000 Busch Road in Pleasanton, California (Site, Figure 1) on behalf of Legacy Partners Commercial, LLC (Legacy). The purpose of this Report is to describe the work conducted by ENV America and document the results. The work is described in ENV America's February 6, 2008 work plan, which was approved by ACEH in a letter dated February 26, 2008.

PROJECT BACKGROUND

In July 2007 LFR, Inc. (LFR), on behalf of Hanson Permanente Cement, Inc. (Hanson), conducted soil and groundwater investigations in areas previously identified as areas of concern (AOCs) at the Site. To facilitate investigation of the Site, LFR divided the site into nine AOCs. A report describing the results of those investigations was submitted to Alameda County Health Agency-Department of Environmental Health (ACEH) on October 26, 2007.



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In the October 2007 report, LFR reported detecting total petroleum hydrocarbon quantified as diesel (TPHd) at a concentration of 79 micrograms per liter ($\mu\text{g/l}$) and motor oil (TPHmo) at a concentration of 1,100 $\mu\text{g/l}$ in a grab groundwater sample collected from 68 feet below ground surface (bgs) in boring B-1(A), located in AOC 3 between Hanson's office, the heavy maintenance shop, and the lube shed.

In a November 28, 2007 letter ACEH requested that groundwater in the vicinity of this boring be further evaluated to assess whether the results from boring B-1(A) are representative of groundwater quality in that area and whether a significant subsurface source of total petroleum hydrocarbons (TPH) exists.

Also in AOC 3, TPHd and TPHmo were detected above commercial/industrial environmental screening levels (ESLs, Figure 2) established by the San Francisco Bay Regional Water Quality Control Board (RWQCB) in 2007, in shallow soil samples collected at two and five feet bgs in the vicinity of borings EB35 and EB35(B), respectively. In the November 28th letter ACEH requested to either 1) provide plans for additional investigation of the extent of petroleum hydrocarbons in shallow soils, particularly less than five feet bgs, or 2) describe general plans for future soil removal and confirmation sampling.

MONITORING WELL INSTALLATION ACTIVITIES

Consistent with the approved work plan, one monitoring well (ENV-1) was installed, developed, and sampled in the area of soil boring B-1(A). The following describes the work conducted during monitoring well installation, development, and sampling.

Pre-Field Activities

The following pre-field activities were conducted prior to commencement of field work:

- A monitoring well installation permit was obtained from Zone 7 Water Agency (Attachment A);
- Underground Service Alert (USA), a regional utility notification service for underground utility protection, was notified of the proposed drilling location after the proposed drilling location was outlined in white paint;



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- Subsurface Locating Services of Petaluma, California, a private underground utility locating company, was retained to additionally screen the boring location for subsurface utilities;
- A site-specific health and safety plan was prepared for the project.

Field Work

On March 7, 2008, WDC Exploration and Wells of Richmond, California, a California C-57 licensed drilling company, provided monitoring well drilling services at the Site. A hollow-stem auger drill rig was used to advance the boring (Figure 2).

Soil samples were collected continuously to the total depth of the boring using a CME continuous core sampling device. All down-hole equipment was decontaminated prior to starting using either a steam cleaner/pressure washer or by washing and triple rinsing techniques using laboratory grade detergent.

The recovered soil samples were screened for staining and volatile compounds visually and using a photoionization detector (PID). The recovered soil was logged under the direction of a California professional geologist using the visual-manual procedures of ASTM Standard D-2488-06 as guidance and Munsell Soil Chart designations.

Water was first encountered at 15 feet bgs. ENV America oversaw the installation and construction of a groundwater monitoring well within the boring such that the screen extended approximately two feet above the observed water bearing zone. Two-inch diameter Schedule 40 polyvinyl chloride (PVC) casing and 10 feet of matching 0.010-inch factory slot screen were used to construct the well to a total depth of 22.8 feet bgs. The screen interval was set between 12.8 and 22.2 feet bgs. Clean silica filter pack sand (Monterey #2/16) was placed in the annular space from the total depth of the well to approximately two feet above the screened interval. Approximately two feet of uncoated bentonite chips were placed in the annular space above the sand to create a seal, and neat cement grout was placed in the annular space above the bentonite seal to approximately one foot bgs. The well completion consists of a flush mounted well box rated for vehicular traffic. Soil cuttings were placed on visqueen and covered pending analytical results for proper disposal. Well construction details are presented on Figure 3.



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On March 10, 2008 ENV America oversaw the development of the well. Surging, bailing, and pumping were used to develop the well until the water was visually clear and below 50 nephelometric turbidity units (NTU). Development water was contained in 55-gallon steel drums pending analytical results for proper disposal.

On March 13, 2008 ENV America sampled the groundwater from the monitoring well using low flow sampling techniques. Monitoring well ENV-1 was purged and sampled using a peristaltic pump. Groundwater parameters of temperature, specific conductivity, and temperature, as well as the water level, stabilized prior to sampling. Once groundwater parameters stabilized, laboratory-provided bottles were filled directly from the discharge of the pump. All sample containers were uniquely labeled, immediately placed on ice, and submitted to Test America of Pleasanton, California (Test America), a California-certified laboratory under chain-of-custody protocol for the analyses of TPHd and TPHmo in accordance with Environmental Protection Agency Method (EPA) Method 8015M following a silica gel cleanup in accordance with EPA Method 3630, and for TPH quantified as gasoline (TPHg) and benzene, toluene, ethyl benzene, and total xylenes (BTEX) in accordance with EPA method 8260B.

On March 13, 2008 the monitoring well location and elevation were surveyed by Kier and Wright Surveyors, a professionally licensed land surveyor, of Pleasanton, California.

SOIL EXCAVATION ACTIVITIES

Pre-Field Activities

The following pre-field activities were conducted prior to commencement of potholing work:

- Underground Service Alert (USA), a regional utility notification service for underground utility protection, was notified of the proposed excavation locations after the proposed locations were outlined in white paint;
- Subsurface Locating Services of Petaluma, California, a private underground utility locating company, was retained to additionally screen the locations for subsurface utilities;
- A site-specific health and safety plan was prepared for the project.



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Field Work

On March 25, 2008, ENV Environmental International of Richmond, California was retained to provide backhoe services for the excavations. The backhoe bucket was decontaminated prior to use. Excavations were dug at the previous locations of soil borings EB-35 and EB-35(B), where soil results indicated TPHd and TPHmo above ESL criteria (Figure 2).

The excavated soil was screened for staining and volatile compounds visually and using a PID. The soil was logged under the direction of a California professional geologist using the visual-manual procedures of ASTM Standard D-2488-06 as guidance and Munsell Soil Chart designations. Trench logs from the excavations are included as Figures 4 and 5.

Based on field conditions, buried asphalt was observed in the subsurface at similar depth intervals where TPHd and TPHmo were previously detected above ESLs and ENV America asked ACEH to observe the excavations. Mr. Jerry Wickham, P.G., CHG, of ACEH visited the Site to observe the excavations. The excavations in general were comprised of silty sandy gravel and asphalt cobbles of various sizes throughout the unit, underlain by a layer of asphalt, which was underlain by more silty sandy gravel.

ACEH requested that ENV America collect a sample of the asphaltic material as well as a sample of the silty sandy gravel with no visible asphalt particles from directly below the asphaltic layer. Samples were collected using hand tools and placed in laboratory provided glass sampling jars.

The sample containers were uniquely labeled, immediately placed on ice, and submitted to Test America under chain-of-custody protocol for the analyses of TPHd and TPHmo in accordance with EPA Method 8015M following a silica gel cleanup in accordance with EPA Method 3630.

Following sampling the excavations were backfilled to ground surface and compacted using the backhoe bucket.



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FINDINGS

Lithology and Hydrology

Lithology encountered in boring ENV-1 consisted primarily of fine-grained soil with varying amounts of sand and gravel with interbedded coarser zones at approximately 14.5, 19.5, and 20.5 feet bgs. First observed water encountered during drilling was at 15 feet bgs. The water level was measured at 15.70 feet below the top of the casing (btc) three days after development.

Soil in the area of EB35 consisted of silty sandy gravel with asphalt, and a distinct asphalt layer that occurred at corresponding depths of the samples previously collected from EB35 and EB35(B); this asphalt layer was underlain by another silty sandy gravel. There was no staining or odor and no PID readings that would indicate the presence of free phase or residual TPHd or TPHmo contamination in the locations potholed.

Groundwater Analytical Results

The groundwater sample was designated ENV-1 and analyzed for TPHd and TPHmo in accordance with EPA Method 8015M following a silica gel cleanup in accordance with EPA Method 3630, and for TPHg and BTEX in accordance with EPA Method 8260B. Analytes were not detected above their method detection limits. A complete laboratory report is included as Attachment A.

Excavation Soil Sample Results

Two soil samples were collected from the excavation location T-35, advanced at previous boring location EB-35. The samples were called T-35A, which was a soil sample collected from the asphaltic layer, and T-35B, which was a soil sample collected directly below the asphaltic layer. These samples were analyzed for TPHd and TPHmo in accordance with EPA Method 8015M following a silica gel cleanup in accordance with EPA Method 3630. The analytical results were as follows:

- Sample T-35A collected from the asphalt layer at 2.5 feet bgs, TPHd = 3,500 mg/kg, and TPHmo = 45,000 mg/kg; and



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- Sample T-35B collected directly below the asphalt layer at 3.5 feet bgs in the silty sandy gravel, TPHd = 14 mg/kg, and TPHmo = 150 mg/kg.

A complete copy of the laboratory analytical package from the soil sampling activities is attached to this report as Attachment C.

CONCLUSION AND RECOMMENDATIONS

Groundwater by B-1(A)

Based on the groundwater analytical results, it is ENV America's opinion that groundwater in the vicinity of ENV-1 has not been affected by TPH constituents. Constituents detected in LFR's grab groundwater sample from boring B-1(A) may be caused by asphalt particulates suspended in the grab groundwater sample. Based on the findings, we recommend that the monitoring well be abandoned, and no further action be required with respect to the groundwater in this area of the Site.

Soil by EB-35

Excavation activities in the area of EB-35 and EB-35B were conducted to observe material in subsurface soil for a potential source of TPH. In both excavation locations, asphaltic material was observed. The analytical results indicate that when asphaltic material is sampled and the laboratory extracts the sample for analysis with aggressive solvents, TPHd and TPHmo from the material leach out at concentrations that exceed regulatory criteria. Based on the sample collected directly below the asphaltic layer (T-35B), it does not appear that the asphaltic material leaches out under normal conditions. The results of soil sample T-35B were at least two orders of magnitude below the results from T-35A and significantly below Environmental Screening Levels (ESLs) established by the RWQCB. The ESL for TPHd = 83 mg/kg and the ESL for TPHmo = 410 mg/kg.

Based on the results ENV America recommends no additional excavation or soil sampling in this area of the Site.

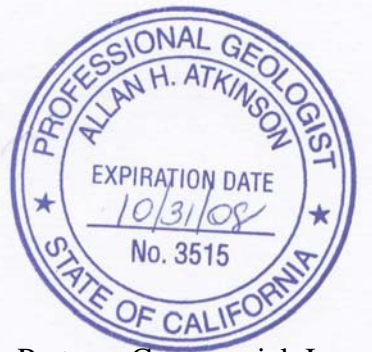


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ENV America is pleased to provide this Groundwater Well Installation, Development, Sampling and Soil Excavation Report for the Site. If you have any questions regarding this report please call the undersigned at (415) 989-9933.

Sincerely,
ENV America Incorporated

Allan H. Atkinson, PG
Principal


Wojciech Bajzarowicz
Principal

cc: Mr. Tom Jodry, Legacy Partners Commercial, Inc.
Mr. Lee Cover, Hanson Permanente Cement, Inc.

Figures:

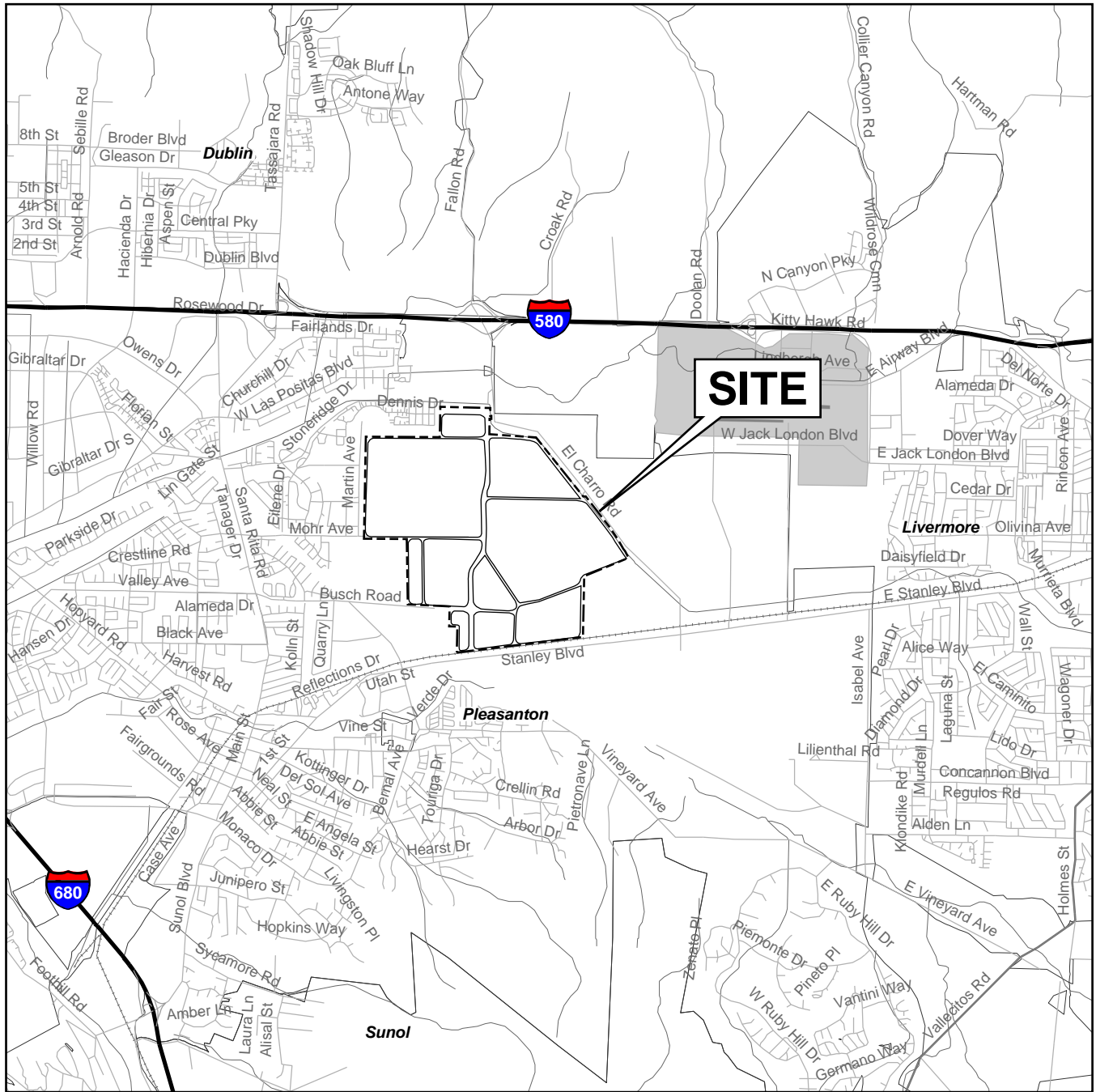
- Figure 1: Site Vicinity Map
- Figure 2: Site Plan
- Figure 3: Well Log
- Figure 4: Trench Log T-35A
- Figure 5: Trench Log T-35B

Attachments:

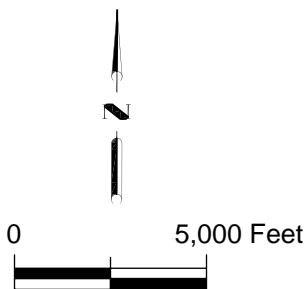
- Attachment A – Zone 7 Water Agency Well Permit
- Attachment B – Laboratory Analytical Report and Chain-of-Custody Documentation for the Groundwater Sample
- Attachment C - Laboratory Analytical Report and Chain-of-Custody Documentation for the Soil Samples

Figures

FILE NAME	_FIG_01
PROJECT NUMBER	LFC0624-800
CHECKED BY	
APPROVED BY	
DRAWN BY	WSL
	3/27/08



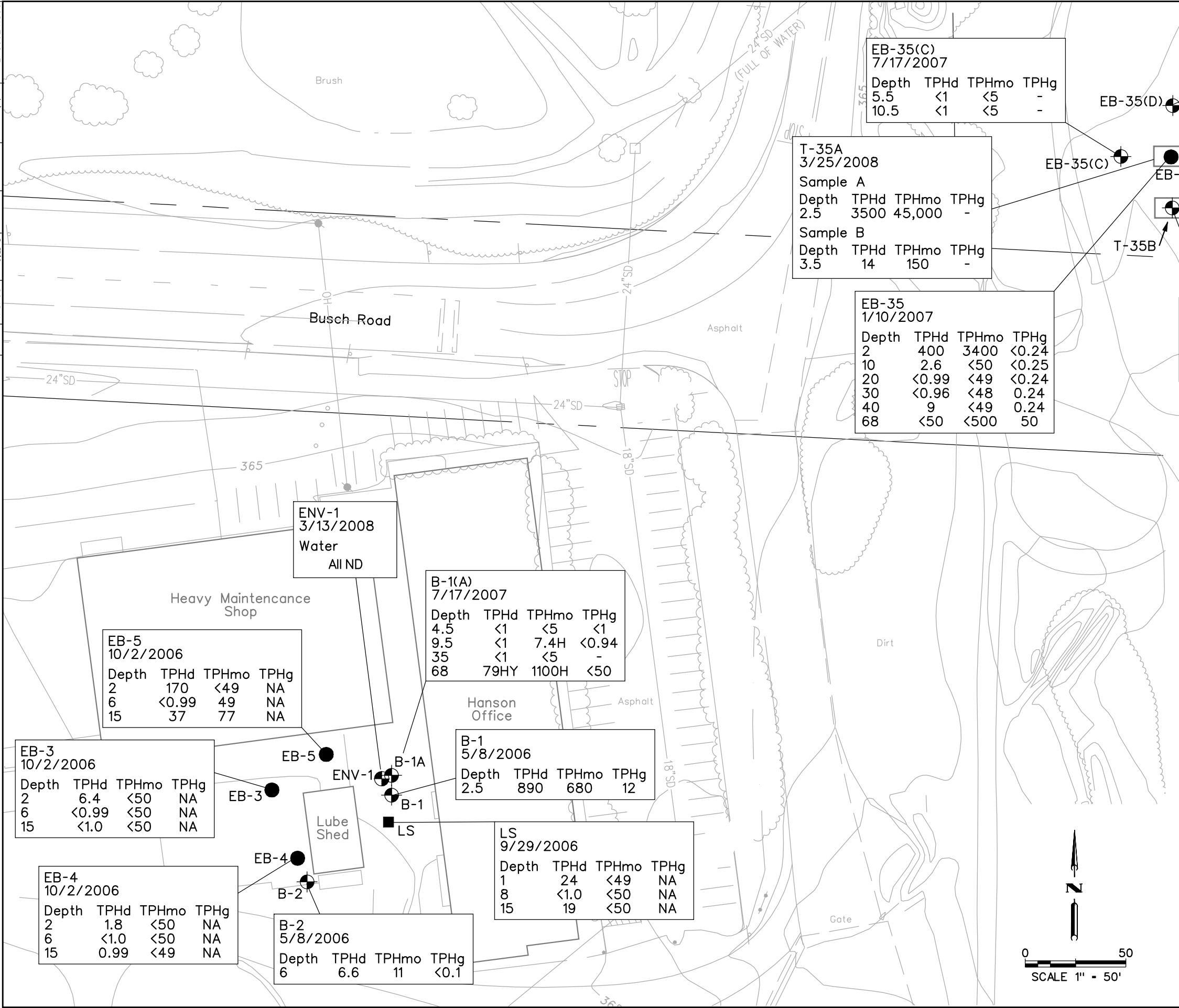
MAP CREATED WITH ARCMAP (STREETMAP) SOFTWARE.



ENV AMERICA
 ENVIRONMENTAL ENGINEERING,
 CONSULTING & CONSTRUCTION

FIGURE I
SITE VICINITY MAP
 HANSON RADUM SITE
 3000 BUSCH ROAD
 PLEASANTON, CALIFORNIA

fig-2
 FILE NAME: LPC0624.800
 PROJECT NUMBER:
 CHECKED BY:
 APPROVED BY:
 LWSI
 DRAWN BY:
 4/8/08



EB-35(D)
7/18/2007

Depth	TPHd	TPHmo	TPHg
5.5	38HY	810H	-
9.5	<0.99	<5	-

EB-35(C)
7/17/2007

Depth	TPHd	TPHmo	TPHg
5.5	<1	<5	-
10.5	<1	<5	-

T-35A
3/25/2008

Sample A

Depth	TPHd	TPHmo	TPHg
2.5	3500	45,000	-

Sample B

Depth	TPHd	TPHmo	TPHg
3.5	14	150	-

EB-35(A)
7/17/2007

Depth	TPHd	TPHmo	TPHg
4	48HY	540H	-
9.5	<1	5.2H	-

EB-35
1/10/2007

Depth	TPHd	TPHmo	TPHg
2	400	3400	<0.24
10	2.6	<50	<0.25
20	<0.99	<49	<0.24
30	<0.96	<48	0.24
40	9	<49	0.24
68	<50	<500	50

EB-35(B)
7/17/2007

Depth	TPHd	TPHmo	TPHg
5	160HY	3600H	-
9	0.99	<5	-

ENV-1
3/13/2008

Water
All ND

B-1(A)
7/17/2007

Depth	TPHd	TPHmo	TPHg
4.5	<1	<5	<1
9.5	<1	7.4H	<0.94
35	<1	<5	-
68	79HY	1100H	<50

B-1
5/8/2006

Depth	TPHd	TPHmo	TPHg
2.5	890	680	12

LS
9/29/2006

Depth	TPHd	TPHmo	TPHg
1	24	<49	NA
8	<1.0	<50	NA
15	19	<50	NA

EB-5
10/2/2006

Depth	TPHd	TPHmo	TPHg
2	170	<49	NA
6	<0.99	49	NA
15	37	77	NA

EB-3
10/2/2006

Depth	TPHd	TPHmo	TPHg
2	6.4	<50	NA
6	<0.99	<50	NA
15	<1.0	<50	NA

EB-4
10/2/2006

Depth	TPHd	TPHmo	TPHg
2	1.8	<50	NA
6	<1.0	<50	NA
15	0.99	<49	NA

B-2
5/8/2006

Depth	TPHd	TPHmo	TPHg
6	6.6	11	<0.1

LEGEND

- Monitoring well location (ENV)
- ⊕ Soil boring location (LFR)
- Soil boring location (ENV or B&C)
- Test pit soil sample location (ENV)

B-2	5/8/2006	Sample ID		
		Date samples		
Depth	TPHd	TPHmo	TPHg	Analyte
6	6.6	11	<0.1	Concentrations is milligrams per kilogram (mg/kg)
Depth in feet below ground surface				

NOTE:
 * Detected concentrations of TPHd and TPHmo in soilborings EB-35 and EB-35(B) exceed the commercial/industrial ESL.

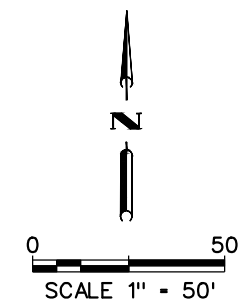


FIGURE 2
SITE PLAN
 HANSON RADUM SITE
 3000 BUSCH ROAD
 PLEASANTON, CALIFORNIA

PROJECT: LPC - Hanson Radum Site 3000 Busch Road, Pleasanton, California		Log of Well No. ENV-1	
BORING LOCATION: Latitude--2071084.73 Longitude--6170674.22		GROUND SURFACE ELEVATION AND DATUM: 365.88 ft. MSL	
DRILLING CONTRACTOR: WDC Exploration & Wells		DATE STARTED: 3/7/08	DATE FINISHED: 3/7/08
DRILLING METHOD: Hollow Stem Auger		TOTAL DEPTH: 28.5 ft. bgs	SCREEN INTERVAL 12.8-22.2 ft. bgs
DRILLING EQUIPMENT: CME-85		DEPTH TO WATER: 15.0 ft. bgs	
SAMPLING METHOD: CME Continuous Core System [5' x 3"]		LOGGED BY: C. Rome	
HAMMER WEIGHT: NA lbs.	DROP: NA in.	REVIEWED BY: A. Atkinson	REG. NO. PG3515

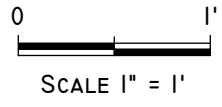
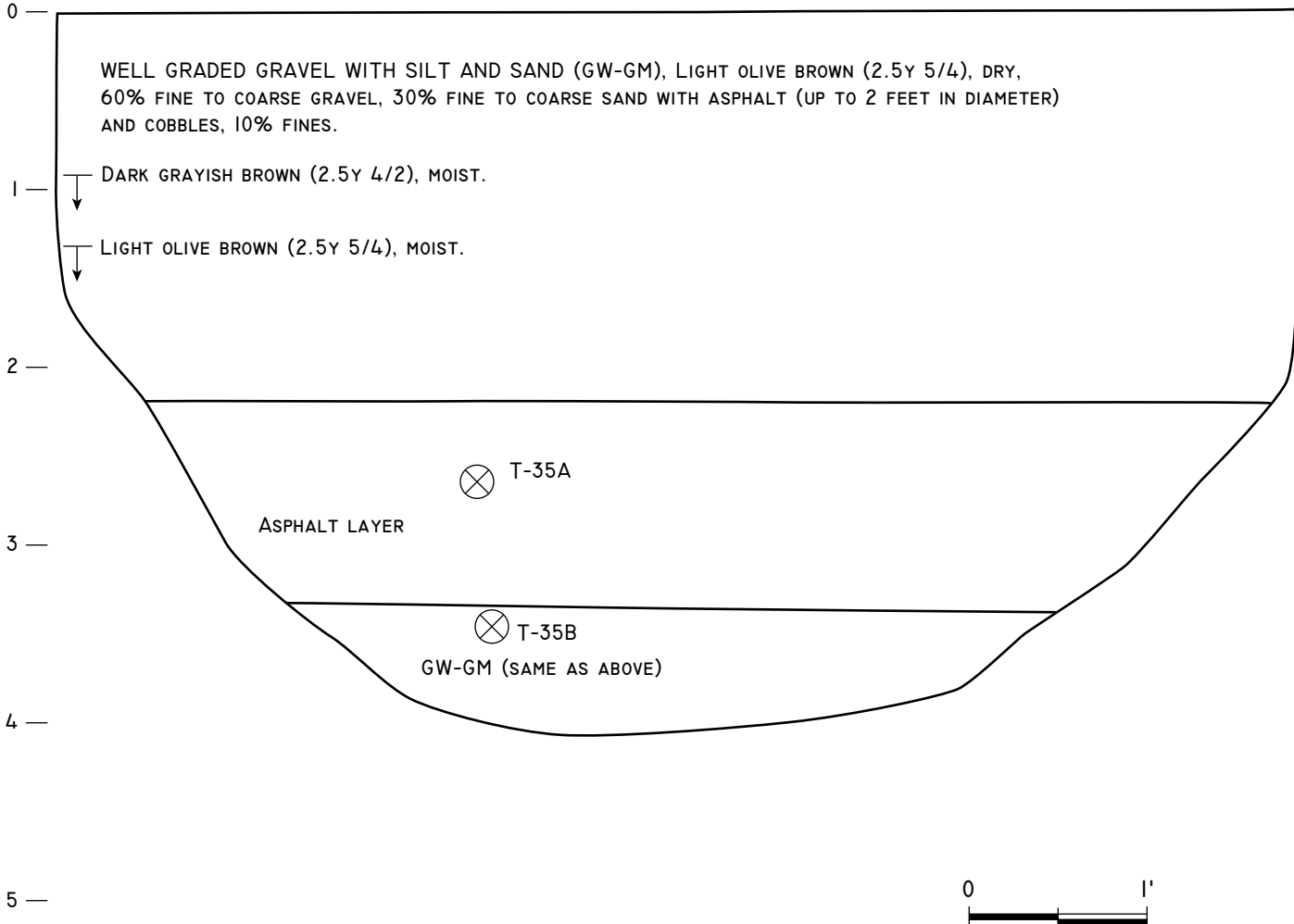
DEPTH (feet)	SAMPLES			OVM READING	DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	SAMPLE NO.	SAMPLE	BLOWS/FOOT		NAME (USCS): color, moist, % by weight, plast. density, structure, cementation, react., w/HCl, geo. inter.	
SURFACE ELEVATION: 365.88						
1				0	Base rock	<p>8" diameter borehole</p> <p>2" diameter schedule 40 PVC casing</p> <p>Type I/II neat cement</p> <p>Bentonite chips</p>
2						
3		X			SANDY SILT WITH GRAVEL, (ML), brown (10YR 4/3), moist, 60% fines, 25% fine to coarse sand, 15% fine gravel, nonplastic, hard	
4				0		
5		X			LEAN CLAY WITH SAND, (CL), dark gray (2.5Y 4/1), moist, 85% fines, 10% fine to coarse sand, 5% fine gravel, low to medium plasticity	
6						
7						
8						
9					↓ Color change to dark grayish brown (2.5Y 4/2)	
10				0		
11						
12		X				
13						
14				0	GRAVELLY LEAN CLAY WITH SAND, (CL), light olive brown (2.5Y 5/3), moist, 50% fines, 30% fine to coarse gravel, 20% fine to coarse sand, low to medium plasticity	
15					LEAN CLAY WITH SAND, (CL), dark grayish brown (2.5Y 4/2), moist, 85% fines, 10% fine to coarse sand, 5% fine gravel, low to	

LOG OF BORING 2008 LPC HANSON MAR08.GPJ ENV AMERICA GDT.GDT 3/27/08

DEPTH (feet)	SAMPLES			OVM READING	DESCRIPTION	WELL CONSTRUCTION DETAILS AND/OR DRILLING REMARKS
	SAMPLE NO.	SAMPLE	BLOWS/ FOOT		NAME (USCS): color, moist, % by weight, plast. density, structure, cementation, react., w/HCl, geo. inter.	
					SURFACE ELEVATION: 365.88	
16				0	medium plasticity CLAYEY SAND WITH GRAVEL, (SC), light olive brown (2.5Y 5/3), wet, 55% coarse sand, 30% fine to coarse gravel, 15% low plasticity fines	<p>8" diameter borehole</p> <p>#2/12 filter pack sand</p> <p>2" diameter schedule 40 PVC well screen with 0.01" factory slots</p> <p>Threaded end cap</p> <p>#2/12 filter pack sand</p>
17					LEAN CLAY, (CL), olive brown (2.5Y 4/3), moist, 95% fines, 5% coarse gravel	
18						
19						
20					4" lens of CLAYEY SAND with GRAVEL, (SC), wet	
21				0	4" lens of CLAYEY SAND with GRAVEL, (SC), wet	
22						
23						
24						
25				0		
26						
27						
28						
29					Total Depth 28.5' bgs.	
30						
31						
32						
33						
34						

LOG OF BORING 2008 LPC HANSON MAR08.GPJ ENV AMERICA GDT.GDT 3/27/08

DRAWN BY	W.S.L.	CHECKED BY	FILE NAME
	3/27/08		_FIG.4
		APPROVED BY	PROJECT NUMBER
			LFC0624-800

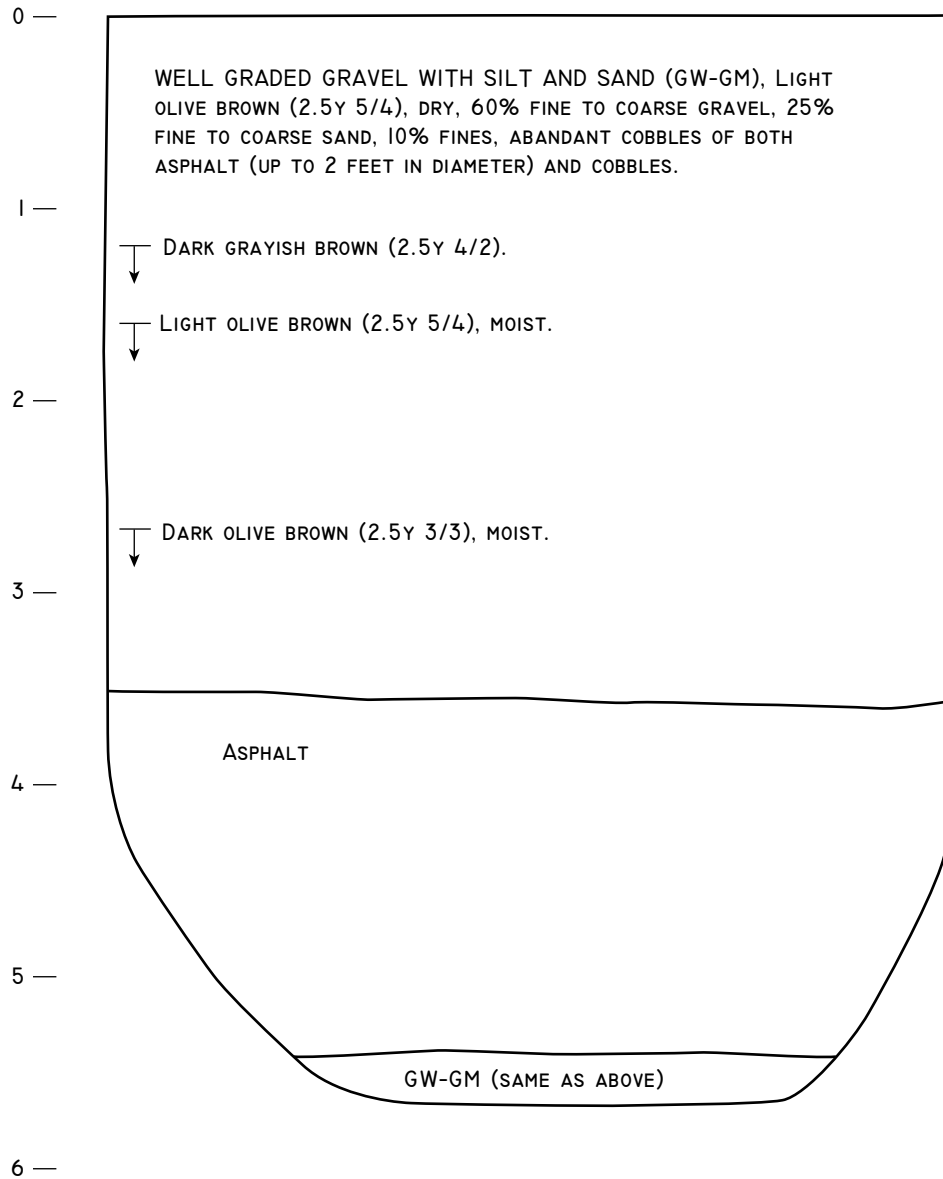


NOTE: ASPHALT FOUND THROUGHOUT SOIL PROFILE.

⊗ SOIL SAMPLE LOCATION

	FIGURE 4
	T-35A
	HANSON RADUM SITE 3000 BUSCH ROAD PLEASANTON, CALIFORNIA

DRAWN BY	WSL	CHECKED BY	FILE NAME	PROJECT NUMBER
	3/27/08	APPROVED BY	_FIG.5	LPC0624.800



NOTE: ASPAHLT FOUND THROUGHOUT SOIL PROFILE.

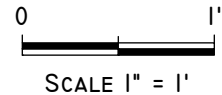


FIGURE 5

T-35B

HANSON RADUM SITE
3000 BUSCH ROAD
PLEASANTON, CALIFORNIA

Attachment A – Zone 7 Water Agency Well Permit



ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306
E-MAIL whong@zone7water.com

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 3000 Bush Rd Pleasanton, CA 94566

PERMIT NUMBER 28026
WELL NUMBER 3S/1E-15F6
APN 946-1250-019-01

California Coordinates Source _____ ft. Accuracy • _____ ft.
CCN _____ ft. CCE _____ ft.
APN _____

PERMIT CONDITIONS
(Circled Permit Requirements Apply)

CLIENT
Name Legacy Partners Commercial
Address 4806 E 3rd Ave #600 Phone 650-471-2200
City Foster City, CA Zip 94404

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

APPLICANT
Name ENV America - Charles Rome
Email charles@envamerica.com Fax 415-989-9954
Address 244 California St Ste 505 Phone 415 787 9933
City San Francisco Zip 94111

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

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

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

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

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

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

- E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION. See attached.

DRILLING COMPANY ADC Exploration + Wells
DRILLER'S LICENSE NO. 253326

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

WELL SPECIFICATIONS:
Drill Hole Diameter 5 in. Maximum
Casing Diameter 3 in. Depth 75 ft.
Surface Seal Depth 15 ft. Number 1

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

ESTIMATED STARTING DATE March 5th - 5th 2008
ESTIMATED COMPLETION DATE April 1, 2008

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

Approved Wyman Hong Date 3/5/08
Wyman Hong

APPLICANT'S SIGNATURE Charles Rome Date 3/1/08

ATTACH SITE PLAN OR SKETCH

**Attachment B – Laboratory Analytical Report and Chain-of-Custody Documentation for
the Groundwater Sample**

ANALYTICAL REPORT

Job Number: 720-13440-1
Job Description: Legacy Hansen

For:
ENV America, Incorporated
244 California St., Ste 500
San Francisco, CA 94111
Attention: Mr. David O Connor



Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
03/20/2008

cc: Mr. Charlie Rome

Job Narrative
720-J13440-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC/MS VOA

No analytical or quality issues were noted.

GC Semi VOA

Method(s) 8015B: The method blank for preparation batch 32994 contained a target compound above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

No other analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ENV America, Incorporated

Job Number: 720-13440-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
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No Detections

METHOD SUMMARY

Client: ENV America, Incorporated

Job Number: 720-13440-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL SF	SW846 8260B	
Purge-and-Trap	TAL SF		SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	TAL SF	SW846 8015B	
Separatory Funnel Liquid-Liquid Extraction	TAL SF		SW846 3510C SGC

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

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

SAMPLE SUMMARY

Client: ENV America, Incorporated

Job Number: 720-13440-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-13440-1	ENV-1-031308	Water	03/13/2008 1245	03/13/2008 1305

Analytical Data

Client: ENV America, Incorporated

Job Number: 720-13440-1

Client Sample ID: ENV-1-031308

Lab Sample ID: 720-13440-1

Date Sampled: 03/13/2008 1245

Client Matrix: Water

Date Received: 03/13/2008 1305

8260B Volatile Organic Compounds by GC/MS

Method:	8260B	Analysis Batch:	720-33226	Instrument ID:	Varian 3900E
Preparation:	5030B			Lab File ID:	c:\varianw\data\200803\03
Dilution:	1.0			Initial Weight/Volume:	10 mL
Date Analyzed:	03/19/2008 1532			Final Weight/Volume:	10 mL
Date Prepared:	03/19/2008 1532				

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	95	77 - 121
1,2-Dichloroethane-d4 (Surr)	87	73 - 130

Analytical Data

Client: ENV America, Incorporated

Job Number: 720-13440-1

Client Sample ID: ENV-1-031308

Lab Sample ID: 720-13440-1

Date Sampled: 03/13/2008 1245

Client Matrix: Water

Date Received: 03/13/2008 1305

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

Method:	8015B	Analysis Batch: 720-33211	Instrument ID: HP DRO5
Preparation:	3510C SGC	Prep Batch: 720-32994	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 250 mL
Date Analyzed:	03/17/2008 1634		Final Weight/Volume: 1 mL
Date Prepared:	03/14/2008 1247		Injection Volume:
			Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		500
Surrogate	%Rec		Acceptance Limits
Capric Acid (Surr)	0		0 - 5
p-Terphenyl	67		46 - 114

DATA REPORTING QUALIFIERS

Client: ENV America, Incorporated

Job Number: 720-13440-1

Lab Section	Qualifier	Description
GC Semi VOA	B	Compound was found in the blank and sample.

Quality Control Results

Client: ENV America, Incorporated

Job Number: 720-13440-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-33226					
LCS 720-33226/2	Lab Control Spike	T	Water	8260B	
LCSD 720-33226/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-33226/3	Method Blank	T	Water	8260B	
720-13440-1	ENV-1-031308	T	Water	8260B	
720-13449-B-2 MS	Matrix Spike	T	Water	8260B	
720-13449-B-2 MSD	Matrix Spike Duplicate	T	Water	8260B	
Report Basis					
T = Total					
GC Semi VOA					
Prep Batch: 720-32994					
LCS 720-32994/2-A	Lab Control Spike	A	Water	3510C SGC	
LCSD 720-32994/3-A	Lab Control Spike Duplicate	A	Water	3510C SGC	
MB 720-32994/1-A	Method Blank	A	Water	3510C SGC	
720-13440-1	ENV-1-031308	A	Water	3510C SGC	
720-13449-G-2-B MS	Matrix Spike	A	Water	3510C SGC	
720-13449-G-2-C MSD	Matrix Spike Duplicate	A	Water	3510C SGC	
Analysis Batch:720-33211					
LCS 720-32994/2-A	Lab Control Spike	A	Water	8015B	720-32994
LCSD 720-32994/3-A	Lab Control Spike Duplicate	A	Water	8015B	720-32994
MB 720-32994/1-A	Method Blank	A	Water	8015B	720-32994
720-13440-1	ENV-1-031308	A	Water	8015B	720-32994
720-13449-G-2-B MS	Matrix Spike	A	Water	8015B	720-32994
720-13449-G-2-C MSD	Matrix Spike Duplicate	A	Water	8015B	720-32994

Report Basis

A = Silica Gel Cleanup

Quality Control Results

Client: ENV America, Incorporated

Job Number: 720-13440-1

Method Blank - Batch: 720-33226

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-33226/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2008 0902
Date Prepared: 03/19/2008 0902

Analysis Batch: 720-33226
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200803\03
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Ethylbenzene	ND		0.50
Toluene	ND		0.50
Xylenes, Total	ND		1.0
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	93	77 - 121
1,2-Dichloroethane-d4 (Surr)	83	73 - 130

**Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-33226**

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-33226/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2008 0937
Date Prepared: 03/19/2008 0937

Analysis Batch: 720-33226
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200803\03
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-33226/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2008 1000
Date Prepared: 03/19/2008 1000

Analysis Batch: 720-33226
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200803\031
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	93	98	64 - 140	5	20		
Toluene	105	111	52 - 120	5	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
Toluene-d8 (Surr)	97		104		77 - 121		
1,2-Dichloroethane-d4 (Surr)	79		84		73 - 130		

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

Quality Control Results

Client: ENV America, Incorporated

Job Number: 720-13440-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 720-33226

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 720-13449-B-2 MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2008 1303
Date Prepared: 03/19/2008 1303

Analysis Batch: 720-33226
Prep Batch: N/A

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200803\03
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 720-13449-B-2 MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 03/19/2008 1327
Date Prepared: 03/19/2008 1327

Analysis Batch: 720-33226
Prep Batch: N/A

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200803\03
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	111	106	64 - 140	5	20		
Toluene	114	106	52 - 120	6	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
Toluene-d8 (Surr)	96		96	77 - 121			
1,2-Dichloroethane-d4 (Surr)	85		76	73 - 130			

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

Quality Control Results

Client: ENV America, Incorporated

Job Number: 720-13440-1

Method Blank - Batch: 720-32994

Lab Sample ID: MB 720-32994/1-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/17/2008 1822
 Date Prepared: 03/14/2008 1247

Analysis Batch: 720-33211
 Prep Batch: 720-32994
 Units: ug/L

**Method: 8015B
 Preparation: 3510C SGC
 Silica Gel Cleanup**

Instrument ID: HP DRO5
 Lab File ID: N/A
 Initial Weight/Volume: 250 mL
 Final Weight/Volume: 1 mL
 Injection Volume:
 Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	54		50
Motor Oil Range Organics [C24-C36]	ND		500
Surrogate	% Rec		Acceptance Limits
Capric Acid (Surr)	0		0 - 5
p-Terphenyl	90		46 - 114

**Lab Control Spike/
 Lab Control Spike Duplicate Recovery Report - Batch: 720-32994**

LCS Lab Sample ID: LCS 720-32994/2-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/17/2008 1728
 Date Prepared: 03/14/2008 1247

Analysis Batch: 720-33211
 Prep Batch: 720-32994
 Units: ug/L

**Method: 8015B
 Preparation: 3510C SGC
 Silica Gel Cleanup**

Instrument ID: HP DRO5
 Lab File ID: N/A
 Initial Weight/Volume: 250 mL
 Final Weight/Volume: 1 mL
 Injection Volume:
 Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-32994/3-A
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 03/17/2008 1755
 Date Prepared: 03/14/2008 1247

Analysis Batch: 720-33211
 Prep Batch: 720-32994
 Units: ug/L

Instrument ID: HP DRO5
 Lab File ID: N/A
 Initial Weight/Volume: 250 mL
 Final Weight/Volume: 1 mL
 Injection Volume:
 Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	87	82	41 - 103	7	30		
Surrogate		LCS % Rec	LCSD % Rec		Acceptance Limits		
p-Terphenyl	96		90		46 - 114		

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

Quality Control Results

Client: ENV America, Incorporated

Job Number: 720-13440-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-32994**

**Method: 8015B
Preparation: 3510C SGC
Silica Gel Cleanup**

MS Lab Sample ID: 720-13449-G-2-B MS Analysis Batch: 720-33211
Client Matrix: Water Prep Batch: 720-32994
Dilution: 1.0
Date Analyzed: 03/18/2008 0106
Date Prepared: 03/14/2008 1247

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

MSD Lab Sample ID: 720-13449-G-2-C MSD Analysis Batch: 720-33211
Client Matrix: Water Prep Batch: 720-32994
Dilution: 1.0
Date Analyzed: 03/18/2008 0133
Date Prepared: 03/14/2008 1247

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Diesel Range Organics [C10-C28]	76	71	50 - 130	7	30	B	B
Surrogate		MS % Rec	MSD % Rec			Acceptance Limits	
p-Terphenyl		90	87			46 - 114	

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

720-13440

THE LEADER IN ENVIRONMENTAL TESTING

Report To						Analysis Request																
Attn: <u>Charles Rome</u>						TPH EPA - <input type="checkbox"/> 8015/8021 <input checked="" type="checkbox"/> 8260B <input type="checkbox"/> Gas w/ <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> MTBE	Purgeable Aromatics BTEX EPA - <input type="checkbox"/> 8021 <input type="checkbox"/> 8260B	TEPH EPA 8015M* <input checked="" type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Diesel <input type="checkbox"/> Motor Oil <input type="checkbox"/> Other	Fuel Tests EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> Five Oxygenates <input type="checkbox"/> DCA, ED6 <input type="checkbox"/> Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 <input type="checkbox"/> PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other:	Low Level Metals by EPA 200.8/6020 (ICP-MS):	<input type="checkbox"/> W.E.T (STLC) <input type="checkbox"/> TCLP	Hexavalent Chromium pH (24h hold time for H ₂ O)	Spec Cond. <input type="checkbox"/> Alkalinity TSS <input type="checkbox"/> TDS <input type="checkbox"/>	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄
Company: <u>ENV America Inc</u>		Address: <u>244 California St Ste 500 SF, CA 94111</u>		Phone: <u>415-989-9933</u> Email: <u>charles@envamerica.com</u>																		
Sample ID	Date	Time	Mat rix	Pres erv.																		
<u>ENV-1-031308</u>	<u>3/13/08</u>	<u>1245</u>	<u>W</u>	<u>Y</u>	<u>X</u>	<u>X</u>																
<u>Trip Blank</u>	<u>LAB Prepared</u>				<u>HOLD</u>																	

Project Info.					Sample Receipt					1) Relinquished by:			2) Relinquished by:			3) Relinquished by:		
Project Name: <u>LPC Hanson</u>					# of Containers: <u>5</u>					Signature: <u>[Signature]</u> Time: <u>1305</u>			Signature: _____ Time: _____			Signature: _____ Time: _____		
Project#: <u>LPC 0624</u>					Head Space: <u>N</u>					Printed Name: <u>Charles Rome</u> Date: <u>3/13/08</u>			Printed Name: _____ Date: _____			Printed Name: _____ Date: _____		
PO#: _____					Temp: <u>17.3 C / 63 F</u>					Company: <u>ENV America</u>			Company: _____			Company: _____		
Credit Card#: _____					Conforms to record: _____					Company: _____			Company: _____			Company: _____		
T	A	T	5 Day	72h	48h	24h	Other: _____			1) Received by:			2) Received by:			3) Received by:		
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> State Tank Fund EDF <input type="checkbox"/> Global ID _____					Special Instructions / Comments: _____					Signature: <u>[Signature]</u> Time: <u>1305</u>			Signature: _____ Time: _____			Signature: _____ Time: _____		
										Printed Name: <u>Joan Mulley</u> Date: <u>3-13-08</u>			Printed Name: _____ Date: _____			Printed Name: _____ Date: _____		
										Company: <u>TALSA</u>			Company: _____			Company: _____		

See Terms and Conditions on reverse
*TestAmerica SF reports 8015M from C₆-C₂₆ (industry norm). Default for 8015B is C₁₀-C₂₆

Login Sample Receipt Check List

Client: ENV America, Incorporated

Job Number: 720-13440-1

Login Number: 13440

Creator: Mullen, Joan

List Number: 1

List Source: TestAmerica San Francisco

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

**Attachment C – Laboratory Analytical Report and Chain-of-Custody Documentation for
the Soil Samples**

ANALYTICAL REPORT

Job Number: 720-13599-1
Job Description: Legacy Hansen

For:
ENV America, Incorporated
244 California St., Ste 500
San Francisco, CA 94111
Attention: Mr. David O Connor



Dimple Sharma
Project Manager I
dimple.sharma@testamericainc.com
03/31/2008

cc: Mr. Charlie Rome

Job Narrative
720-J13599-1

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

GC Semi VOA

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ENV America, Incorporated

Job Number: 720-13599-1

Lab Sample ID	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method	
720-13599-1	T-35A					
<i>Silica Gel Cleanup</i>						
		Diesel Range Organics [C10-C28]	3500	740	mg/Kg	8015B
		Motor Oil Range Organics [C24-C36]	45000	37000	mg/Kg	8015B
720-13599-2	T-35B					
<i>Silica Gel Cleanup</i>						
		Diesel Range Organics [C10-C28]	14	2.0	mg/Kg	8015B
		Motor Oil Range Organics [C24-C36]	150	100	mg/Kg	8015B

METHOD SUMMARY

Client: ENV America, Incorporated

Job Number: 720-13599-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	TAL SF	SW846 8015B	
Ultrasonic Extraction	TAL SF		SW846 3550B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

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

SAMPLE SUMMARY

Client: ENV America, Incorporated

Job Number: 720-13599-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-13599-1	T-35A	Solid	03/25/2008 1450	03/25/2008 1510
720-13599-2	T-35B	Solid	03/25/2008 1450	03/25/2008 1510

Analytical Data

Client: ENV America, Incorporated

Job Number: 720-13599-1

Client Sample ID: T-35A

Lab Sample ID: 720-13599-1

Date Sampled: 03/25/2008 1450

Client Matrix: Solid

Date Received: 03/25/2008 1510

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

Method:	8015B	Analysis Batch: 720-33542	Instrument ID:	HP DRO5
Preparation:	3550B	Prep Batch: 720-33496	Lab File ID:	N/A
Dilution:	50		Initial Weight/Volume:	10.19 g
Date Analyzed:	03/29/2008 0457		Final Weight/Volume:	25 mL
Date Prepared:	03/26/2008 1616		Injection Volume:	
			Column ID:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		3500		740
Motor Oil Range Organics [C24-C36]		45000		37000
Surrogate		%Rec		Acceptance Limits
Capric Acid (Surr)		0		0 - 5
p-Terphenyl		0	D	41 - 105

Analytical Data

Client: ENV America, Incorporated

Job Number: 720-13599-1

Client Sample ID: T-35B

Lab Sample ID: 720-13599-2

Date Sampled: 03/25/2008 1450

Client Matrix: Solid

Date Received: 03/25/2008 1510

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

Method:	8015B	Analysis Batch: 720-33542	Instrument ID:	HP DRO5
Preparation:	3550B	Prep Batch: 720-33496	Lab File ID:	N/A
Dilution:	2.0		Initial Weight/Volume:	30.15 g
Date Analyzed:	03/29/2008 1551		Final Weight/Volume:	5 mL
Date Prepared:	03/26/2008 1616		Injection Volume:	
			Column ID:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		14		2.0
Motor Oil Range Organics [C24-C36]		150		100
Surrogate		%Rec		Acceptance Limits
Capric Acid (Surr)		0		0 - 5
p-Terphenyl		75		41 - 105

DATA REPORTING QUALIFIERS

Client: ENV America, Incorporated

Job Number: 720-13599-1

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

Quality Control Results

Client: ENV America, Incorporated

Job Number: 720-13599-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-33496					
LCS 720-33496/2-A	Lab Control Spike	A	Solid	3550B	
LCSD 720-33496/3-A	Lab Control Spike Duplicate	A	Solid	3550B	
MB 720-33496/1-A	Method Blank	A	Solid	3550B	
720-13599-1	T-35A	A	Solid	3550B	
720-13599-2	T-35B	A	Solid	3550B	
Analysis Batch:720-33542					
LCS 720-33496/2-A	Lab Control Spike	A	Solid	8015B	720-33496
LCSD 720-33496/3-A	Lab Control Spike Duplicate	A	Solid	8015B	720-33496
MB 720-33496/1-A	Method Blank	A	Solid	8015B	720-33496
720-13599-1	T-35A	A	Solid	8015B	720-33496
720-13599-2	T-35B	A	Solid	8015B	720-33496

Report Basis

A = Silica Gel Cleanup

Quality Control Results

Client: ENV America, Incorporated

Job Number: 720-13599-1

Method Blank - Batch: 720-33496

Lab Sample ID: MB 720-33496/1-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 03/27/2008 1338
 Date Prepared: 03/26/2008 1616

Analysis Batch: 720-33542
 Prep Batch: 720-33496
 Units: mg/Kg

**Method: 8015B
 Preparation: 3550B
 Silica Gel Cleanup**

Instrument ID: HP DRO5
 Lab File ID: N/A
 Initial Weight/Volume: 30.10 g
 Final Weight/Volume: 5 mL
 Injection Volume:
 Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		1.0
Motor Oil Range Organics [C24-C36]	ND		50

Surrogate	% Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	97	41 - 105

**Lab Control Spike/
 Lab Control Spike Duplicate Recovery Report - Batch: 720-33496**

LCS Lab Sample ID: LCS 720-33496/2-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 03/27/2008 1245
 Date Prepared: 03/26/2008 1616

Analysis Batch: 720-33542
 Prep Batch: 720-33496
 Units: mg/Kg

**Method: 8015B
 Preparation: 3550B
 Silica Gel Cleanup**

Instrument ID: HP DRO5
 Lab File ID: N/A
 Initial Weight/Volume: 30.07 g
 Final Weight/Volume: 5 mL
 Injection Volume:
 Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-33496/3-A	Analysis Batch: 720-33542	Instrument ID: HP DRO5
Client Matrix: Solid	Prep Batch: 720-33496	Lab File ID: N/A
Dilution: 1.0	Units: mg/Kg	Initial Weight/Volume: 30.08 g
Date Analyzed: 03/27/2008 1311		Final Weight/Volume: 5 mL
Date Prepared: 03/26/2008 1616		Injection Volume:
		Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Diesel Range Organics [C10-C28]	77	80	50 - 130	4	30		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
p-Terphenyl	93	97	97	41 - 105			

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

THE LEADER IN ENVIRONMENTAL TESTING

720-13599

Report To						Analysis Request																			
Attn: <u>C. Rome</u>																									
Company: <u>ENV America</u>																									
Address: <u>244 California St SF, CA 94111</u>																									
Phone: <u>415-989-9933</u> Email:																									
Bill To: <u>C. Rome</u>			Sampled By: <u>C. Rome</u>																						
Attn: <u>C. Rome</u> <u>415-989-9933</u>																									
Sample ID	Date	Time	Mat rx	Pres erv.	TPH EPA - <input type="checkbox"/> 8015/8021 <input type="checkbox"/> 8260B	<input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	Purgeable Aromatics BTEX EPA - <input type="checkbox"/> 8021 <input type="checkbox"/> 8260B	TEPH EPA 8015M* <input checked="" type="checkbox"/> Silica Gel <input checked="" type="checkbox"/> Motor Oil <input type="checkbox"/> Other	Fuel Tests EPA 8260B: <input type="checkbox"/> Gas <input type="checkbox"/> BTEX <input type="checkbox"/> Fire Overflows <input type="checkbox"/> DCA, EDB <input type="checkbox"/> Citracol	Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) <input type="checkbox"/> EPA 8260B <input type="checkbox"/> 624	Semivolatiles GC/MS <input type="checkbox"/> EPA 8270 <input type="checkbox"/> 625	Oil and Grease <input type="checkbox"/> Petroleum (EPA 1664) <input type="checkbox"/> Total	Pesticides <input type="checkbox"/> EPA 8081 <input type="checkbox"/> 608 PCBs <input type="checkbox"/> EPA 8082 <input type="checkbox"/> 608	PNAs by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	CAM17 Metals (EPA 8010/7470/7471)	Metals: <input type="checkbox"/> Lead <input type="checkbox"/> LUFT <input type="checkbox"/> RCRA <input type="checkbox"/> Other	Low Level Metals by EPA 200.8/5020 (ICP-MS):	<input type="checkbox"/> WET (STLC) <input type="checkbox"/> TCLP	Hexavalent Chromium <input type="checkbox"/> pH (24h hold time for H ₂ O)	Spec Cond <input type="checkbox"/> Alkalinity <input type="checkbox"/> TSS <input type="checkbox"/> TDS <input type="checkbox"/>	Anions: <input type="checkbox"/> Cl <input type="checkbox"/> SO ₄ <input type="checkbox"/> NO ₃ <input type="checkbox"/> F <input type="checkbox"/> Br <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄	Number of Containers		
<u>T-35A</u>	<u>3/25/08</u>	<u>1450</u>	<u>S</u>	<u>-</u>				<u>X</u>																	
<u>T-35B</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>-</u>				<u>X</u>																	<u>1</u>

Project Info.					Sample Receipt		1) Relinquished by:		2) Relinquished by:		3) Relinquished by:	
Project Name: <u>Hanson</u>					# of Containers: <u>2</u>		Signature: <u>[Signature]</u> Time: <u>1510</u>		Signature: _____ Time: _____		Signature: _____ Time: _____	
Project#: <u>UPC 0624.800</u>					Head Space:		Printed Name: <u>Charles Rome</u> Date: <u>3/25/08</u>		Printed Name: _____ Date: _____		Printed Name: _____ Date: _____	
PO#:					Temp: <u>16.2°C</u> <u>41°F</u>		Company: <u>ENV America</u>		Company: _____		Company: _____	
Credit Card#:					Confirms to record:		1) Received by: <u>[Signature]</u> Time: <u>1510</u>		2) Received by: _____		3) Received by: _____	
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> EDD <input type="checkbox"/> State Tank Fund EDF					Other: _____		Signature: <u>[Signature]</u> Time: <u>3/25/08</u>		Signature: _____ Time: _____		Signature: _____ Time: _____	
Special Instructions / Comments: <input type="checkbox"/> Global ID							Printed Name: <u>J. Bullock</u> Date: <u>3/25/08</u>		Printed Name: _____ Date: _____		Printed Name: _____ Date: _____	
Company: _____							Company: <u>T.A.S.F.</u>		Company: _____		Company: _____	

See Terms and Conditions on reverse
 *TestAmerica SF reports 8015M from C₂-C₂₀ (industry norm). Default for 8015B is C₂-C₃₀

Login Sample Receipt Check List

Client: ENV America, Incorporated

Job Number: 720-13599-1

Login Number: 13599
Creator: Bullock, Tracy
List Number: 1

List Source: TestAmerica San Francisco

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