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1:16 pm, Jun 27, 2007

Alameda County Environmental Health



Project Number: SJ42-26F-X

SAP Number: 135782

Mr. Jerry Wickham Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re: Site Investigation and
Interim Remedial Action Report
Shell-branded Service Station
4226 First Street
Pleasanton, California

Dear Mr. Wickham:

Delta Evironmental Consultants, Inc. (Delta), on behalf of Shell Oil Products US (Shell), presents the results of a soil investigation and groundwater extraction event performed as part of interim remediation at the site referenced above (Figure 1). Soil borings were drilled to collect soil samples from potential petroleum hydrocarbons and fuel oxygenate source areas in the northern portion of the site. The groundwater extraction event was performed to provide temporary migration control and to evaluate extraction as a possible method for groundwater remediation.

The site activities were proposed in the *Interim Remedial Action Plan*, prepared by Delta in January 2007. The plan was approved by the Alameda County Health Care Services Agency (ACHCA) in a letter to Shell dated February 2, 2007 (Attachment A). This report describes the field activities completed by Delta, presents the associated field and laboratory data, and provides recommendations for future site activities.

BACKGROUND

Site history is detailed in depth in Delta's Electronic Site Conceptual Model submitted to the ACHCA on February 27, 2006. The service station is not currently active.





The upper groundwater zone is monitored by Wells MW-1 through MW-4 (Figure 2). The deeper zone is monitored by Well MW-1B. Well construction details are shown on Table 1. The primary constituents of concern are methyl tert-butyl ether (MTBE) and tert-butyl alcohol (TBA). The following is a summary of MTBE concentrations in site wells for the past four quarterly groundwater sampling events:

Well	8/21/06	11/14/06	2/1/07	6/1/07
MW-1	1,960	2,100	2,300	2,200
MW-1B	21	310	150	74
MW-2	2,590	2,500	2,000	2,000
MW-3	4.04	3.8	2.8	3.1
MW-4	13,000	14,000	14,000	11,000

[Note: All MTBE concentrations in micrograms per liter (µg/l)]

The laboratory reporting limits for TBA have been as high as $10,000 \mu g/l$ due to elevated MTBE concentrations in Well MW-4. TBA was detected in the 57-foot sample from a 2006 CPT boring at 2,000 $\mu g/l$. TBA has historically only been analyzed annually but has now been added by Shell to the quarterly monitoring program.

SOIL BORING INVESTIGATION

In March 2003, Delta drilled five soil borings (B-1 through B-4) in the area of the former and existing USTs. Historic soil analytical data is provided as Attachment C. The highest concentrations of petroleum hydrocarbons and MTBE have historically been detected in soil samples from near the northern end of the former USTs (borings SB-5 and S-B, Well MW-4 – Figure 2).

PREFIELD ACTIVITIES

Prior to drilling, Delta marked the locations of all soil boring locations and contacted Underground Services Alert 48 hours prior to drilling. In addition, a private utility locator was retained to perform a geophysical survey of all boring locations. Each location was then air-knifed to a depth of approximately seven feet to minimize the possibility of encountering underground utilities during drilling. Delta obtained all required drilling permits from the Zone 7 Water Agency (Attachment D).

BORINGS

Borings B-1 through B-5 were drilled on March 27 through 29, 2007. The total depth of each boring was approximately 35 feet bgs. The borings were advanced using a hollow-stem auger drill rig operated by Gregg

Mr. Jerry Wickham Alameda County Health Care Services Agency June 25, 2007 Page 3 of 7

Drilling and Testing, Inc. (License C57-485165). Soil samples were collected with a split-spoon sampler equipped with brass liners at 5-foot intervals beginning at 10 feet bg. Soil samples were also collected from each boring at 5 feet bgs using a hand-auger. A Delta field geologist carefully examined the soil core samples as they were collected. Soils were classified based on the Unified Soil Classification System using the American Society for Testing and Materials (ASTM) Method D-2487 published in May 2000. Borings encountered primarily clayey sand with occasional clay beds. Groundwater was encountered only in boring B-1 (34 to 35 feet bgs). All other borings were dry. Boring logs are provided in Attachment B.

SOIL ANALYSIS

A total of thirty-five soil samples (seven from each boring) were collected for chemical analysis. Soil samples were submitted to Test America Analytical Testing Corporation in Sacramento, California for analysis of total petroleum hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and xylene (BTEX compounds), MTBE, and TBA by Method 8260B. Laboratory certified analytical results and chain-of-custody documentation are included as Attachment E. Soil analytical data is summarized on Table 2.

The primary constituents detected were TPH-g, MTBE, and TBA (Table 2). TPH-g was above 100 milligrams per kilogram (mg/kg) in only one sample (B-3 at 34.5 feet). MTBE and TBA were detected in all borings. MTBE and TBA were typically detected in soil samples collected below a depth 14.5 feet bgs. MTBE was detected at concentrations ranging from 0.0063 milligrams per kilogram (mg/kg) to 0.45 mg/kg. TBA was detected at concentrations ranging from 0.021 to 0.8 mg/kg. The San Francisco Bay Area Regional Water Quality Control Board (RWQCB) Environmental Screening Levels (ESLs) for MTBE and TBA in soil are 0.023 mg/kg and 0.073 mg/kg, respectively. The highest concentrations of MTBE and TBA were detected in the soil samples from the bottom of the borings near the top of the saturated zone.

SOIL DISPOSAL

Soil material generated from borings was placed in 55-gallon drums for temporary storage and then removed off site by PSC for proper disposal.

GROUNDWATER EXTRACTION

Delta performed step drawdown tests in order to estimate the sustainable pumping rate for the upper groundwater zone. Delta then began a long term groundwater extraction event in order evaluate its use as a groundwater remediation option.

Step Drawdown Tests

Step drawdown tests were conducted to determine the maximum sustainable pumping rates using Wells MW-1 and MW-4. Water levels in the wells were measured during pumping using an electronic water level meter.

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Well MW-4

The step drawdown test was initiated at Well MW-4 at 2:00 pm on June 6, 2007. Groundwater was extracted using an electrical submersible pump. The initial depth to water was 33.40 feet below top of casing (btoc). The well was pumped at increasing extraction rates until 60% of available drawdown was reached. The available drawdown is determined by subtracting the initial water level from the level of the top of the submersible pump (45 feet minus 33.4 feet = 11.6 feet). The depth to water in the well at 60% drawdown was 40.4 feet btoc.

Pumping commenced at 0.5 gallons per minute (gpm) but was quickly adjusted to 0.1 gpm due to the rapid decrease of water level. The well was then pumped at 0.1, 0.15, 0.2, 0.25, 0.3, and 0.4 gpm. The well was pumped for approximately 40 minutes at each step. A target depth of approximately 40 feet btoc was reached at a constant pumping rate of 0.4 gpm. A graph of water level versus time for the step drawdown test is contained in Attachment F.

Water level data from the step drawdown test was analyzed using the AquiferTest software produced by Waterloo Hydrogeologic. The data was analyzed by the Cooper-Jacob Time Drawdown method. The computer output report is contained in Attachment F. A hydraulic conductivity of 3.17 x 10⁻⁵ centimeters per second (cm/s) was calculated using the average pumping rate during the test of 0.28 gpm. This value is typical of silt (Freeze and Cherry, 1979) and is consistent with the description of soils on boring logs.

Well MW-1

The step drawdown test was initiated at Well MW-1 on June 7, 2007. The initial depth to water was 33.40 feet btoc. The well was pumped at increasing extraction rates until 60% of available drawdown was reached. The available drawdown is determined by subtracting the initial water level from the level of the top of the submersible pump (55 feet minus 33.4 feet = 21.6 feet). The depth to water in the well at 60% drawdown was 46.4 feet btoc.

Pumping was initiated at 0.25 gpm then was increased to 0.33, 0.50, and 0.55 gpm. The well was pumped for approximately one hour at each step. A target depth of approximately 46 feet btoc was reached at a pumping rate of 0.55 gpm. A graph of water level versus time for the step drawdown test is contained in Attachment F.

Water level data from the step drawdown test was analyzed using the AquiferTest software produced by Waterloo Hydrogeologic. The data was analyzed by the Cooper-Jacob Time Drawdown method. The computer output report is contained in Attachment F. A hydraulic conductivity of 3.59 x 10⁻⁵ cm/sec was calculated using the average pumping rate during the test (0.48 gpm). This value is typical of silt (Freeze and Cherry, 1979).

Groundwater Extraction Event

Delta, on June 6, 2007, began a groundwater extraction event using well MW-4. Well MW-4 contains the highest concentrations of MTBE and TBA. The electrical submersible pump was set at a constant rate of 0.40 gpm. Extracted groundwater is piped to an approximately 20,000-gallon storage tank for later removal

and transported off-site to a licensed disposal facility. Delta, at the request of ACHCA, is performing a site inspection visit twice a week during the extraction event. Delta's work plan stated that approximately 48,000-gallons of water would be extracted from Well MW-4. The proposed volume was based on an anticipated pumping rate of approximately 1.0 gpm. At a pumping rate of 0.40 gpm, approximately 30 days will be required to extract 20,000 gallons. Delta and Shell will evaluate the need to extend the test past 30 days after the filling of the first storage tank.

Water levels in shallow Well MW-2 and deep Well MW-1B were monitored during the first 6 days of extraction using pressure transducers. Well MW-2 is located approximately 7.0 feet upgradient of extraction Well MW-4. Well MW-1B is located approximately 35 feet cross-gradient of Well MW-4. During the 6 day monitoring period, the water level in Well MW-2 slowly rose approximately 0.9 feet. The rise in water level is attributed to some non-pumping influence. During the same period, the water level in deep Well MW-1B dropped by 2.45 feet.

Groundwater Sampling and Analysis

Water samples were collected at the start and end of the step drawdown pumping tests for Wells MW-1 and MW-4 (June 6 and 7, 2007). Samples were analyzed for TPH-g, BTEX compounds, MTBE, and TBA by EPA Method 8260B. The laboratory report and chain of custody documentation are provided as Attachment G. Results are summarized below:

Well MW-4	6/6/07 14:00 (start)	6/6/07 18:30 (end)	6/12/07 (Day 6)
MTBE	19,000	15,000	8,800
TBA	8,200	6,600	1,400

Well MW-1	6/7/07	6/7/07
	13:00	17:20
	(start)	(end)
MTBE	2,400	1,400
TBA	1,400	1,400

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Groundwater samples are being collected from Well MW-4 discharge on a weekly basis. The results from the first weekly sample (June 12) showed a significant reduction in MTBE and TBA concentrations. A follow up groundwater sample will be collected approximately one week after termination of pumping.

CONCLUSIONS

Delta concludes:

- MTBE and TBA are contained in soils beneath the northern portion of the site from approximately 20 feet bgs to the top of the saturated zone at a depth of approximately 35 feet bgs. Concentrations exceeded the RWQCB ESLs for soils at depths of greater than 3 meters overlying useable groundwater.
- MTBE and TBA in the vadose zone are retained in clay, silt, silty sand (30 to 40% fines), clayey sand (20 to 35% fines), and clayey gravel (15 to 30% fines). Remediation of the vadose zone will be difficult due to the high percentages of silt and clay.
- Sustainable pumping rate for the upper water bearing zone (30 to 45 feet bgs) is 0.5 gpm or less.
- The horizontal radius of pumping influence is at least 35 feet.
- The upper and lower water bearing zones are hydraulically connected. The natural vertical hydraulic gradient is downward from upper to lower water-bearing zone. MTBE is detected in deep Well MW-1B at 74 µg/l.

RECOMMENDATIONS

Delta recommends:

- Focusing remediation efforts on the upper groundwater zone which contains MTBE concentrations of greater than 8,000 μg/l and TBA at concentrations greater than 1,000 μg/l.
- Providing horizontal and vertical MTBE and TBA groundwater migration control in the northern portion of the site.
- Continue groundwater extraction to accomplish migration control and to provide mass reduction in groundwater.
- Continue quarterly groundwater monitoring with the addition of TBA.

Delta will provide ACHCA with additional extraction test analytical data within 30 days of the date of this report.

REMARKS

The conclusions and recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

If you have any questions or comments regarding this report, please call Lee Dooley at (408) 826-1880.

Sincerely,

Delta Consultants, Inc.

Abhik Dutta Staff Geologist

R. Lee Dooley Senior Hydrogeologist CHG 0183

Attachments:

Table 1 – Well Construction Details

Table 2 – Summary of Soil Analytical Data

CERTIFIED

Figure 1 – Site Location Map

Figure 2 - Site Map

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Attachment A – ACHS Letter Dated February 2, 2007

Attachment B – Boring Logs

Attachment C - Historic Soil Analytical Data

Attachment D - Boring Permits

Attachment E - Certified Analytical Report and Chain of Custody Documents - Soil

Attachment F - Pumping Test Data

Attachment G - Certified Analytical Report and Chain of Custody Documents - Water

cc: Denis Brown, Shell Oil Products US, Carson

Douglas and Mary Safreno, 1627 Vineyard Avenue, Pleasanton, CA 94566-6389 Colleen Winey, Zone 7 Water Agency, 100 North Canyons Parkway, Livermore, CA 94551 Danielle Stefani, Livermore-Pleasanton Fire Department, 3560 Nevada Street, Pleasanton, CA 94566

Table 1 Well Construction Details

Shell-branded Service Station 4226 First Street, Pleasanton, California

Well	Date Installed	Diameter (inches)	Depth (feet)	Sand Pack (feet)	Screened Interval (feet)
MW-1	04/08/99	2	58	35 to 58	38 to 58
MW-1B	08/23/06	4	108	98 to 108	100 to 108
MW-2	01/18/00	4	46	24 to 46	26 to 46
MW-3	01/18/00	4	35	18 to 35	20 to 35
MW-4	08/24/06	4	47	35 to 47	37 to 47

Table 2 Summary of Soil Analytical Data Shell Service Station 4226 1st Street, Pleasanton, California

						Ethyl-		Total		
		Sample		TPH-g	Benzene	benzene	Toluene	Xylenes	MTBE	TBA
Sample	Sample	Depth	Sample	mg/kg	mg/kg	ma/ka	mg/kg	mg/kg	mg/kg	mg/kg
Location	Name	(feet)	Date	EPA 8015 Mod.	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B	EPA 8260B
B-1	B-1 d 5	5	03/27/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-1	B-1 d 9.5	9.5	03/29/07	5.4	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-1	B-1 d 14.5	14.5	03/29/07	0.13 QP	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.046	0.068
B-1	B-1 d 19.5	19.5	03/29/07	0,57 QP	ND< 0.01	ND< 0.01	ND< 0.01	ND< 0.01	0.6	0.8
B-1	B-1 d 24.5	24.5	03/29/07	0.92 QP	ND< 0.05	ND< 0.05	ND< 0.05	ND< 0.05	0.78	0.2
B-1	B-1 d 29.5	29,5	03/29/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.059	ND< 0.02
B-1	B-1 d 34,5	34.5	03/29/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.12	0.033
B-2	B-2 d 5	5	03/27/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-2	B-2 d 9.5	9.5	03/29/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-2	B-2 d 14.5	14.5	03/29/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0,005	ND< 0.005	ND< 0.02
B-2	B-2 d 19.5	19.5	03/29/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.082
B-2	B-2 d 24.5	24.5	03/29/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.11	0.03
B-2	B-2 d 29	29	03/29/07	0.25	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.22	0.14
B-2	B-2 d 34.5	34.5	03/29/07	0.32 QP	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.45	0.75
B-3	B-3 d 5	5	03/27/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-3	B-3 d 9.5	9.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
8-3	B-3 d 14.5	14.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.08	ND< 0.02
B-3	B-3 d 19.5	19.5	03/28/07	0.11 QP	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.14	0.021
B-3	B-3 d 24.5	24.5	03/28/07	0.45	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.083	ND< 0.02
B-3	B-3 d 29	29	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.016	0.073
B-3	B-3 d 34.5	34.5	03/28/07	710	0.096	2.3	ND< 0.05	16	ND< 0.025	ND< 5
B-4	B-4 d 5	5	03/27/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-4	B-4 d 9.5	9,5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-4	B-4 d 14.5	14.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-4	B-4 d 20	20	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.04	ND< 0.02
B-4	B-4 d 24.5	24.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.026	ND< 0.02
B-4	B-4 d 29.5	29.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.0063	0,071
B-4	B-4 d 35	35	03/28/07	0.54 QP	ND< 0.025	ND< 0.025	ND< 0.025	ND< 0.025	0.8	0.63
B-5	B-5 d 5	5	03/27/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-5	B-5 d 10.5	10.5	03/28/07	ND< 0,1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-5	B-5 d 15.5	15.5	03/28/07	ND< 0.1	ND< 0,005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-5	B-5 d 20.5	20.5	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.0054	ND< 0.02
B-5	B-5 d 25,5	25.5	03/28/07	ND< 0,1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.02
B-5	B-5 d 30	30	03/28/07	ND< 0.1	ND< 0.005	ND< 0.005	ND< 0.005	ND< 0.005	0.065	0.1
B-5	B-5 d 35	35	03/28/07	ND< 0.5	ND< 0.025	ND< 0.025	ND< 0.025	ND< 0.025	0.3	0.46
Environme	ental Screeni	ng Levies	(S) intereste de la composi			*			0.023	0.073

Notes:

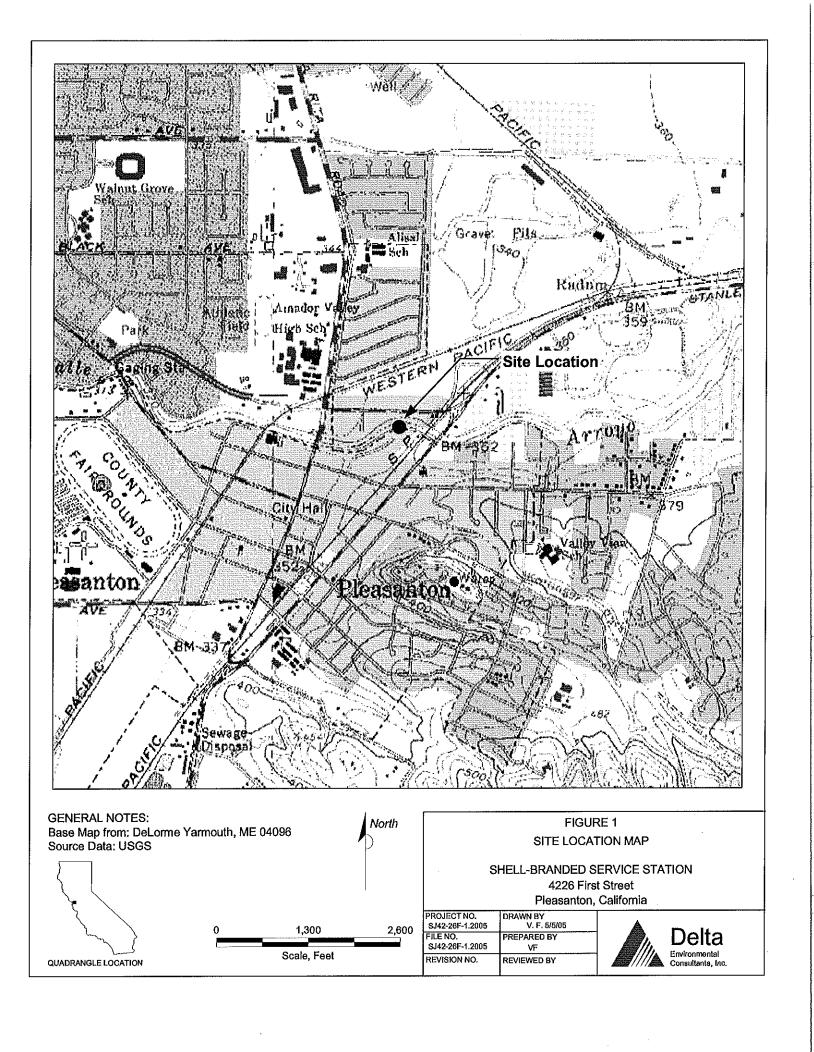
mg/kg - milligrams per kilogram

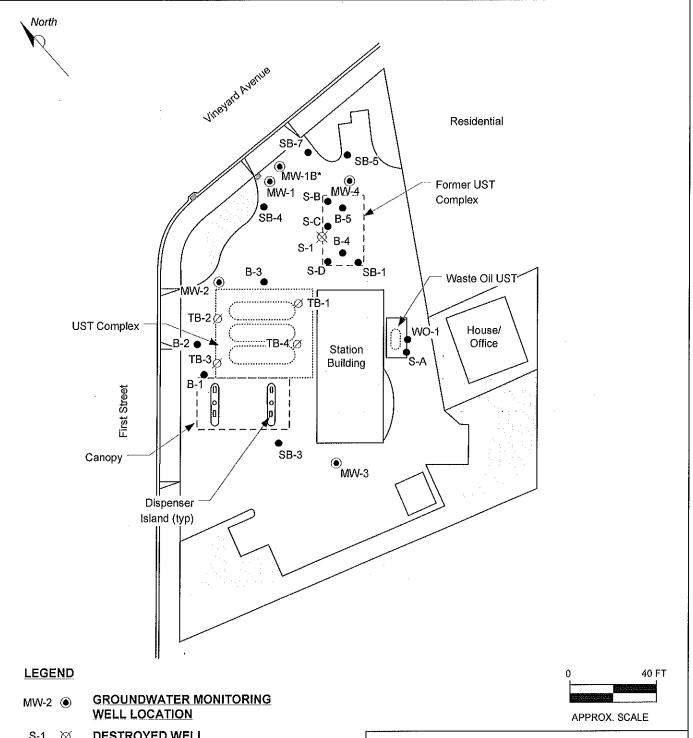
ND - Not detected above laboratory detection limits

NA - Not analyzed
TPH-g - Total Petroleum Hydrocarbons as gasoline
MTBE - Methyl tert-butyl ether
TBA - Tert-butyl alcohol
Data Qualifiers and Definitions:

QP - Hydrocarbon result partly due to individual peak(s) in quantitation range.

Environmental Screening Levels, SF RWQCB, Table C, soils >3 m, groundwater is potential drinking water source





S-1 💢 **DESTROYED WELL**

ABANDONED TANK BACKFILL TB-1 Ø **WELL LOCATION**

SOIL BORING LOCATION B-3

FIGURE 2 SITE MAP

SHELL-BRANDED SERVICE STATION 4226 First Street Pleasanton, California

PROJECT NO. SJ422-6F1-X	ORAWN BY AD 6/15/07
FILE NO. 8J422-6F1-X	PREPARED BY
REVISION NO.	REVIEWED BY



BaseMap from: Cambria Environmental Technology, Inc. and Toxichem Management Systems, Inc.

Attachment A

ACHS LETTER DATED FEBRUARY 2, 2007

ALAMEDA COUNTY **HEALTH CARE SERVICES**

AGENCY



DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250

Alameda, CA 94502-6577 510) 567-6700

February 2, 2007

Denis Brown Shell Oil Products US 20945 S. Wilmington Ave. Carson, CA 90810-1039

Douglas and Mary Safreno 1627 Vineyard Avenue Pleasanton, CA 94566-6389 X (510) 337-9335

Subject: Fuel Leak Case No. RO0000360, Shell#13-5782, 4226 First Street, Pleasanton, CA -Interim Remedial Action Approval

Dear Mr. Brown and Mr. and Ms. Safreno:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site and the document entitled, "Interim Remedial Action Plan," dated January 18, 2007, prepared on Shell's behalf by Delta Environmental Consultants, Inc. The Interim Remedial Action Plan proposes the advancement of five soil borings at locations near the former and current USTs and dispensers to assess whether any remedial action may be required in the future to prevent leaching of contaminants to shallow groundwater. The Interim Remedial Action Plan also proposes step drawdown pumping tests on wells MW-4 and MW-1 to determine sustainable yields for the wells. Groundwater from well MW-4 will also be extracted at a constant rate until a total of 48,000 gallons of water is extracted. Discharge water samples are to be collected for laboratory analyses at the start, middle, and end of pumping. An additional water sample is to be collected for laboratory analyses approximately one week after the termination of pumping. We concur with the proposed scope of work.

We request that you perform the proposed work and send us the reports described below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

- June 25, 2007 Site Investigation and Interim Remedial Action Report
- 45 days following the end of each quarter Quarterly Monitoring Report

These reports are being requested pursuant to California Health and Safety Code Section 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

Denis Brown Douglas and Mary Safreno February 2, 2007 Page 2

ELECTRONIC SUBMITTAL OF REPORTS

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

Denis Brown Douglas and Mary Safreno February 2, 2007 Page 3

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

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

Sincerely,

Jerry Wickflam

Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Colleen Winey, QIC 80201 Zone 7 Water Agency 100 North Canyons Parkway Livermore, CA 94551

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Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)

ISSUE DATE: July 5, 2005

REVISION DATE: December 16, 2005

PREVIOUS REVISIONS: October 31, 2005

SECTION: Miscellaneous Administrative Toplcs & Procedures

SUBJECT: Electronic Report Upload (ftp) Instructions

Effective January 31, 2006, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as a single portable document format (PDF) with no password protection. (Please do not submit reports as attachments to electronic mail.)
- It is preferable that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements must be included and have either original or electronic signature.
- Do not password protect the document. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. Documents with password protection will not be accepted.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Additional Recommendations

A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in Excel format. These are for use by assigned Caseworker only.

Submission Instructions

- 1) Obtain User Name and Password:
 - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - Send an e-mail to dehloptoxic@acgov.org

- il) Send a fax on company letterhead to (510) 337-9335, to the attention of Alicia Lam-Finneke.
- b) In the subject line of your request, be sure to include "ftp PASSWORD REQUEST" and in the body of your request, include the Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.
- Upload Files to the ftp Site
 - a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
 - (i) Note: Netscape and Firefox browsers will not open the FTP site.
 - b) Click on File, then on Login As.
 - Enter your User Name and Password. (Note: Both are Case Sensitive.)
 - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
 - With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- Send E-mail Notifications to the Environmental Cleanup Oversight Programs
 - a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
 - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name at acgov.org. (e.g., firstname.lastname@acgov.org)
 - The subject line of the e-mail must start with the RO# followed by Report Upload. (e.g., Subject: RO1234 Report Upload)

Attachment B

BORING LOGS

PROJECT NUMBER 738-60.01

BORING NO. S-A

PROJECT NAME Gettler-Ryan, Shell, 4226 First St., Pleasanton

PAGE 1 OF 1

BY MGB

DATE 9/27/85

SURFACE ELEV. 375'±

	מטויו			161	700	· · · · · · · · · · · · · · · · · · ·	SURPACE ELEV. 3/5'±
TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Ft.)	CROUND WATER LEYELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
(154)	1.5 5	88 21		10- 15- 20- 30-	(1)	ML CL	ASPHALT and SAND - Fill GRAVELLY SILT - Fill; black (5Y, 2.5/2); 20% fine to coarse sand; 10% fine gravel; damp; no product odor. CLAY; light olive brown (2.5Y, 5/6); silty; 10% fine to medium sand; stiff; damp; no product odor. @7': no sand; hard; no product odor. @10': 20% fine gravel; no product odor. @14': 15-20% fine to medium sand; trace fine gravel; stiff; moist; no product odor. @18½': brownish yellow (10YR, 6/8); silty; hard; moist; no product odor. BOTTOM OF BORING AT 20 FEET.
,		-	•	35-			

REMARKS Drilled by 5-inch continuous flight, auger; samples collected with 2-inch California modified split-spoon sampler; borehole backfilled with soil cuttings to ½ foot; concrete to surface.



PROJECT NUMBER 738-60.01 BORING NO. S-B PROJECT NAME Gettler-Ryan, Shell, 4226 First St. , Pleasanton PAGE $_1$ OF $_1$ BY MGB DATE 9/27/85 SURFACE ELEV. $_{373'\pm}$

							50Kt ACL LLLV. 3/3'±
TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Ft.)	GROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
	3.6 2.3	Push 2 64 39 41		10- 15- 20- 35- 40-	(1) (2) (3) (4) (5) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	GC CL	CONCRETE. SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; trace fine gravel; trace fines; loose; damp; strong gasoline odor. @7': strong gasoline odor. CLAYEY GRAVEL; olive gray (5Y, 5/2); to olive (5Y, 4/3); fine to coarse grained; 30% fines; 15% fine to coarse sand; very dense; damp; moderate gasoline odor. CLAY; light olive brown (2.5Y, 5/6) to dark grayish brown (2.5Y, 4/2); 15% fine sand; trace coarse sand; very stiff; damp; no gasoline odor. @19': olive gray (5Y, 4/2) to olive (5Y, 5/6); 20% fine to medium sand; no coarse sand; no gasoline odor. @24': olive (5Y, 4/4); 25% fine to coarse sand; very plastic; soft;faint gasoline odor. BOTTOM OF BORING AT 24½ FEET.

REMARKS Drilled by 8-inch continuous flight, hollow stem auger; samples collected with 2-inch California modified split-spoon sampler; borehole backfilled with soil cuttings to ½ foot; concrete to surface.



PROJECT NUMBER 738-60.01

BORING NO. S-C

PROJECT NAME Gettler-Ryan, Shell, 4226 First St., Pleasanton

PAGE 1 OF 1

BY MGB DATE 9/27/85

SURFACE ELEV. 373'±

TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Ft.)	CROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITH GRAPI COLU	ню -	DESCRIPTION
		Push	-	0- 5-	(1)	SW		CONCRETE. SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; trace fine gravel; trace fines; damp; strong gasoline odor.
	4.3	30			(2) (3)	CL X		<pre>07': loose; strong gasoline odor. CLAY; olive (5Y, 5/6, 5/3); 20% fine to coarse sand; silty; hard; damp; no gasoline odor.</pre>
	. 0. 4	50for 6" 19		15		GC C.C.C.		CLAYEY GRAVEL; olive (5Y, 5/6, 5/4); fine grained; 35% fine to coarse sand; 15% fines; very dense; damp; no gasoline odor.
	0.4	72	•	20		CL /		CLAY; yellowish brown (10YR, 5/6, 5/8); 35% fine to coarse sand; silty; soft; moist; no gasoline odor.
	•	48	- · · · · · · · · · · · · · · · · · · ·	25 30	7	SW T		SAND: olive (5Y, 4/3); fine to coarse grained; 10% fines; medium dense; moist; no gasoline odor. SANDY SILT; light olive brown (2.5Y, 5/6) 40% fine sand; very stiff; moist; no gasoline odor. CLAYEY SAND; olive brown (2.5Y, 4/4); fine to coarse grained; 40% clay;
			-	35- 35-				dense;moist; faint gasoline odor. BOTTOM OF BORING AT 28 FEET

REMARKS Drilled by 8-inch continuous flight, hollow-stem auger; samples collected with 2-inch California modified split-spoon sampler; borehole backfilled with concrete from 28 to 15 feet, soil cuttings to ½ foot; concrete to surface.



PROJECT NUMBER 738-60.01

BORING NO. S-D

PROJECT NAME Gettler-Ryan, Shell, 4226 First St., Pleasanton

PAGE $_1$ OF $_1$

BY MGB DATE 9/27/85

SURFACE ELEV. 3741±

	1100	<u> </u>		7	,			374'±
TORVANE (TSF)	POCKET PENETRO- METER (TSF)		CROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	CR/	THO- PHIC LUMN	DESCRIPTION
	4.25 5 2.2 1.25	Push 2 37 44		15 20	(2)	CL ML		CONCRETE. SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; 15% fine gravel trace fines; loose; damp; strong gasolin odor. 07': strong gasoline odor. CLAY; olive yellow (5Y, 6/8) to olive (5Y, 4/3); 20% fine to coarse sand; silty; hard; damp; faint gasoline odor. 014': olive (5Y, 4/3); 35% fine to coarse sand; 10% fine gravel; faint gasoline odor. 019': olive (5Y, 4/3); to gray (5Y, 5/1); 20% fine to medium sand; slightly silty; very stiff; damp; faint gasoline odor. SANDY SILT; olive (5Y, 4/4); 40% fine sand; slightly clayey; stiff; damp; faint gasoline odor. BOTTOM OF BORING AT 22½ FEET.

REMARKS Drilled by 8-inch continuous flight, hollow-stem auger; samples collected with 2-inch California modified split-spoon sampler; borehole backfilled with concrete from 22½ to 11½ feet, soil cuttings to ½ foot ; concrete to surface.



PROJECT NUMBER 738-60.01

BORING NO. S-1

PROJECT NAME Gettler-Ryan, Shell, 4226 First St., Pleasanton

PAGE 1 OF 1

BY MGB

DATE 9/27/85

SURFACE ELEV. 373'±

	Plub	<i></i>	(16 5)	4//	•		SURFACE ELEV. 3/3 ±
TORVANE (TSF)	POCKET PENETRO- METER (TSF)	PENETRA- TION (Blows/ Ft.)	CROUND WATER LEVELS	DEPTH IN FT.	SAMPLES	LITHO- GRAPHIC COLUMN	DESCRIPTION
	3.6	34 28 57		5 - 10 15 20 25 3 5 4 0	(1)	SW SC CL GG	ASPHALT and GRAVEL - Fill SAND - Fill; very dark gray (5Y, 3/1); fine to coarse grained; 10% fine gravel trace fines; damp; moderate gasoline odor. CLAYEY SAND; very dark gray (5Y, 3/1); fine to coarse grained; damp; moderate gasoline odor. 012½': 10% fine gravel. CLAY; light olive brown (2.5Y, 5/6); 5% fine to coarse sand; silty; hard; damp; faint gasoline odor. 019': 20% fine to coarse sand; silty; very stiff; faint gasoline odor. CLAYEY GRAVEL; olive (5Y, 5/4); fine grained; 35% fine to coarse sand; clayey; very dense; damp; no gasoline odor. 029': no gasoline odor. BOTTOM OF BORING AT 30½ FEET.

REMARKS Drilled by 8-inch continuous flight, hollow-stem auger; samples collected with 2-inch California modified split-spoon sampler; borehole converted to 3-inch monitoring well as detailed on Plate F.





(TPH-G) G:\PLE4226\GINT\PLE4226.GPJ DEFAULT.GDT

Cambria Environmental Technology, Inc. 1144 - 65th St. Oakland, CA 94608 Telephone: (510) 420-0700 Fax: (510) 420-9170

BORING/WELL LOG

(SB-6)

CLIENT NAME Equiva Services LLC BORING/WELL NAME MW-1 JOB/SITE NAME ple-4226 DRILLING STARTED ___08-Apr-99 LOCATION DRILLING COMPLETED ___09-Apr-99 4226 First Street, Pleasanton, California PROJECT NUMBER 241-0395 WELL DEVELOPMENT DATE (YIELD) NA DRILLER Gregg Drilling ___371.83 ft **GROUND SURFACE ELEVATION** Hollow-stem auger DRILLING METHOD TOP OF CASING ELEVATION 371.20 ft BORING DIAMETER 8" 37.5 to 57.5 ft bgs SCREENED INTERVAL B. Jakub LOGGED BY DEPTH TO WATER (First Encountered) __ 42.5 ft (08-Apr-99) REVIEWED BY B. Jakub **DEPTH TO WATER (Static)** NA Hand augered to 5' bgs; located near NW planter/entrance to Shell station on Vineyard and W of SB-7. REMARKS

CONTACT DEPTH (ft bgs) TPHg (mg/kg) RECOVERY GRAPHIC LOG BLOW COUNTS EXTENT U.S.C.S. DEPTH (ft bgs) SAMPLE LITHOLOGIC DESCRIPTION WELL DIAGRAM ASPHALT. 0.3 1.5 Sandy SILT; (ML); brown (10YR4/3); very soft; wet; 5% clay, 70% silt, 25% fine to medium grained sand; low ML plasticity; moderate to low estimated permeability. SILT; (ML); dark yellow brown (10YR4/6); stiff; moist; 5 5% clay, 85% silt, 8% sand, 2% fine grained gravel; low plasticity; low estimated permeability. ML. Portland Type 1/11 9.7 Clayey SILT; (ML); yellow brown (10YR5/8); stiff; damp; 38% clay, 50% silt, 2% fine grained sand, 10% fine to coarse subangular gravel; high plasticity; low estimated permeability. ML 15.0 <1.0 SB-6 Clayey Gravelly SAND; (SP); dark greenish gray (5GY4/1); dense; damp; 20% clay, 50% sand, 30% gravel; -15.5 medium plasticity; low to moderate estimated SP permeability; wood fragments. 19.3 11 SB-6 Sandy SILT with Clay; (ML); olive (5Y4/3); very stiff; <1.0 20 damp; 15% clay, 50% silt, 35% very fine grained sand; low - 19.5 plasticity; moderate to low estimated permeability. ML 2" diam., 24.5 Schedule 40 Gravelly SAND with Silt; (SP); olive (5Y4/3); dense; damp; 5% clay, 15% silt, 60% fine to medium grained <1.0 SB-6 **PVC** - 25.0 sand, 20% gravel; no plasticity; high to moderate SP estimated permeability. 29.0 Sandy GRAVEL; (GP); olive (5Y4/3); very dense; damp; $(^{\circ}C)^{\circ}$ 2% clay, 13% sllt, 35% medium grained sand (red grains), 45 <1.0 SB-6 0 50% fine to coarse, subangular to subrounded gravel -30.0(chert); no plasticity; high estimated permeability, GP ■ Bentonite Seal 34.0 Clayey Gravelly SAND; (SP); dark yellow brown Continued Next Page PAGE 1 OF 2



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BORING/WELL LOG

PAGE 2 OF 2

Telephone: (510) 420-0700 Fax: (510) 420-9170

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	MW-1
JOB/SITE NAME	ple-4226	DRILLING STARTED	08-Apr-99
LOCATION	4226 First Street, Pleasanton, California	DRILLING COMPLETED	09-Apr-99

Continued from Previous Page CONTACT DEPTH (ft bgs) TPHg (mg/kg) GRAPHIC LOG RECOVERY BLOW U.S.C.S. EXTENT DEPTH (ft bgs) SAMPLE LITHOLOGIC DESCRIPTION **WELL DIAGRAM** (10YR4/6); very dense; damp; 20% clay, 10% silt, 40% medium grained sand, 30% fine to coarse grained gravel SB-6 <1.0 - 35.0 Monterey (sandstone/claystone, serpentinite, some MnO2/Fe Sand #3 staining); low plasticity; moderate to low estimated permeability. 20 50/4 SB-6 <1.0 - 40.0 SP $\bar{\Delta}$ 25 45 @ 44' - moist to wet. 45 2"-diam.,
 0.020" Slotted Schedule 40 PVC 50.0 Clayey GRAVEL with Silt; (GC); dark yellow brown 60/6 (10YR4/6); very dense; moist to wet; 25% clay, 15% sllt, 20% fine to coarse grained sand, 40% fine to coarse grained gravel. GC 55.2 Clayey SILT; (MH); light olive brown (2.5Y5/4); hard; 40 50 damp; 25% clay, 75% sllt; medium to high plasticity; very MH low estimated permeability; black MnO2 blebs throughout. 58.0 Bottom of Boring @ 58 ft WELL LOG (TPH-G) G:\PLE4226\GINT\PLE4226.GPJ DEFAULT.GDT 8/11/99

BORING/WELL LOG

PAGE 1 OF 2



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			(,									
	CLIENT	NAME	E	<u>qui</u>	va Serv	ices Ll	LC		BORING/WELL NAME	MW-2				
	JOB/SIT	E NAM	E	hell	I-brande	ed serv	vice sta	ation	DRILLING STARTED	<u> 18-Jan-00</u>				
	LOCATIO	ON	4	226	First S	treet, l	Pleasa	nton, California	DRILLING COMPLETED					
	PROJEC	TNUM	IBER2	41-0	0395				WELL DEVELOPMENT DATE (YIELD) 03-Feb-00					
	DRILLER	₹		areg	g Drillir	ng								
	DRILLIN	G MET	HOD	lollo	w-stem	n augei	<u>. </u>							
	BORING	DIAME	ETER 8	Д					SCREENED INTERVAL					
	LOGGE	ЭΒΥ	E	l. Ja	akub				DEPTH TO WATER (First	Encountered)			ın-00) <u>\frac{\frac{\triangle}{\triangle}}</u>	
	REVIEW	ED BY	s	<u>. B</u>	ork, RG	# 5620)		DEPTH TO WATER (Statio	c)	<u>N</u>	<u>4</u>	<u></u>	
	REMARK	KS .	<u> </u>	lanc	d auger	ed to 5	' bgs.						·	
1	_		_	Τ			1.				CONTACT EPTH (ft bgs)	T		
	TPHg (ppm)	BLOW	SAMPLE ID	EXTENT	E (St	U.S.C.S.	GRAPHIC LOG				AC (# D			
۱	lg (i		₽	I E	DEPTH (ft bgs)	S.O.	₽ŠΩ	LITHO	LOGIC DESCRIPTION		ĮΣΈ	W⊨i	LL DIAGRAM	
	효	" 8	SAI	(ii)	٥٥	\supset	ច				βğ			
				-				ASPHALT.			0.5		1	
				И		•		Sandy SILT: (ML): da	ark brown; soft; damp; 3% c	lay,				
ı	-			1		ML		80% silt, 15% tine gr	alned sand, 2% gravel; low nated permeability; palm tre	piasticity; se roots.				
ı				1				,						
				ľ				OW - 04ND - (014)	Have brown astr down: 20/	alav	4.0			
				L	_ 5 _	SM		43% silt, 50% sand,	llow brown; soft; damp; 2% 5% gravel; low plasticity; mo	oderate			◄ 4" diam.,	
				Ш		MH		estimated permeabili	ty. ellow brown; stiff; damp; 38	% clay	5.8 6.6		Schedule 40 PVC	
	<1.0		MW-2-6.3'			IVIT		50% silt. 2% fine gra	ined sand, 10% fine to coar	se, /	10.0		1.00	
-					L		144	\subangular gravel; hi \permeability.	gh plasticity; low estimated	/				
-						SM		Silty SAND: (SM): ve	llow brown; dense; damp; 2	% clay,				
1								40% silt, 50% sand, a estimated permeabili	8% gravel; no plasticity; high	h سر	10.0			
ı				П	-10-	SM		Clavey Silty SAND: (SM): vellow brown; stiff; dar	np;	11.0			
				П				15% clay, 30% silt, 5 moderate estimated	0% sand, 5% gravel; low plane	asticity;				
				П				Silty SAND: (SM): ve	llow brown: dense; damp; 2	% clay,				
						SM		40% silt, 50% sand, a estimated permeabili	8% gravel; no plasticity; high	n				
ļ				\Box	<u> </u>			@ 12.8' - 10% clay, 3	38% silt, 50% sand, 8% grav	vel;	15.0			
J				\check{H}	 15-			— moderate estimated Clavey SILT: (ML): ve	ellowish brown: stiff: damp:				▼ Portland Type	
-				Ш		ML		clay, 80% silt, 3% sa	nd, 2% gravel; medium plas	ticity; low	16.5		1/11	
-	<1.0		MW-2-16.5	П		SM		estimated permeabili Graveliv Silty SAND:	ty. (SM); yellow brown; damp;	5%				
1				Ш				clav, 25% silt, 45% fi	ne to coarse grained sand, .	25%	18.2			
				0				Clavev Silty SAND;	stimated permeability. SM); yellow brown; damp; 1					
8				\subseteq	20-	SM		clay, 25% silt, 50% s	and, 10% fine gravel.			\bowtie		
6/23/				Н		*						Y //		
5	<1.0		MW-2-21.5'	H				Conducilly CDAVEL	; (GM); yellow brown; damp	· 10%	22.0	N	≺ Bentonite Seal	
Ę				М	-			clay, 30% silt, 20% s	; (GM); yellow brown, damp and, 40% fine to coarse gra	vel; chert	1		- Demonite Seal	
E					_	GM	14.61	to 2".	_					
	-			Ш	-25-								≺ Lonestar Sand	
9.6				Ц			17				26.0		#3	
E422	<1.0		MW-2-26.0'	П				Gravelly Silty SAND;	(SM); very dense; damp; 5 25% gravel; no to low plastic	% clay, citv:				
Ē						SM		moderate to high esti	mated permeability.	,,				
9						3141								
₹S					[_						30.0			
죍		35 50/6	NAME OF STREET	\times	-30-		عالاة	Clayey Sandy Silty G	RAVEL; (GM); dark yellow	brown;				
9	<1.0	38	MW-2-30.5'	ô	-	GM	PH.	very dense; damp; 18 fine to coarse gravel:	5% clay, 15% silt, 20% sand low plasticity; moderate es	timated				
킓		50/6				GIVI	ÞβC	permeabllity.						
WELL LOG (SHELL) G.VPLEASA-4/GINT/PLE4226.GPJ DEFAULT.GDT 6/23/00		45 50/a		×	├ ┤				e to dark greenish gray; ch		33.5			
ğ		50/6		ŏ	-			Sandy Clayey GRAV saturated: 25% clay.	EL; (GC); very dense; wet to 15% silt, 20% sand, 40% gr	ravel.				
뒣		24		\bowtie	35-		レンベル				<u> </u>	j	PAGE 1 OF 2	

Continued Next Page

BORING/WELL LOG



Cambria Environmental Technology, Inc. 1144 - 65th St. Oakland, CA 94608

Telephone: (510) 420-0700 Fax: (510) 420-9170

CLIENT NAME JOB/SITE NAME Equiva Services LLC Shell-branded service station **BORING/WELL NAME DRILLING STARTED**

MW-2 18-Jan-00

19-Jan-00 DRILLING COMPLETED _ 4226 First Street, Pleasanton, California LOCATION Continued from Previous Page CONTACT DEPTH (ft bgs) GRAPHIC LOG SAMPLE ID TPHg (ppm) BLOW COUNTS EXTENT U.S.C.S. DEPTH (ft bgs) WELL DIAGRAM LITHOLOGIC DESCRIPTION 50/6 MW-2-35.0 Sandy Clayey GRAVEL; (GC); very dense; wet to <1.0 4"-diam., 0.020" Slotted saturated; 25% clay, 15% sllt, 20% sand, 40% gravel. 50/6 GC Schedule 40 PVC 50/8 50/6 40.3 Sandy Gravelly SILT; (ML); hard; saturated; 12% clay, 37 58% silt, 15% sand, 15% gravel; medium plasticity; low estimated permeability. 50/6 ML 50/6 43.5 Sandy Clayey SILT; (ML); hard; saturated; 15% clay, ML 50/6 60% silt, 15% sand, 10% gravel. 45.0 Sandy SILT; (ML); hard; saturated; 12% clay, 45% silt, 43% fine grained sand; slight plasticity; low estimated 50/6 ML permeability. 12 19 48.0 27 Bottom of Boring @ 48 ft WELL LOG (SHELL) G:PLEASA-4/GINT/PLE4226.GPJ DEFAULT.GDT 6/23/00 PAGE 2 OF 2

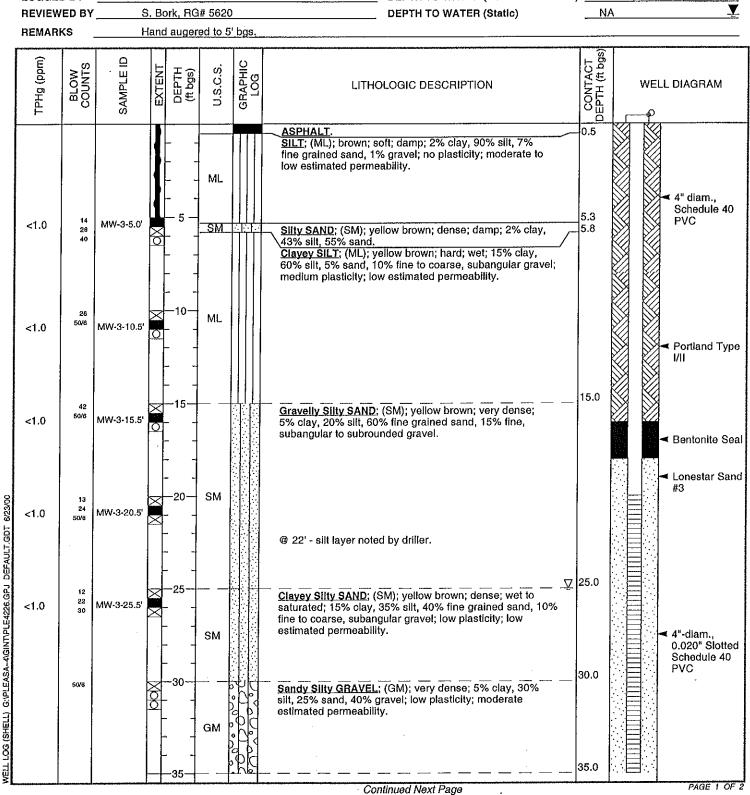




Cambria Environmental Technology, Inc. 1144 - 65th St. Oakland, CA 94608

Telephone: (510) 420-0700 Fax: (510) 420-9170

CLIENT NAME _	Equiva Services LLC	BORING/WELL NAME MW-3		
JOB/SITE NAME	Shell-branded service station	DRILLING STARTED 18-Jan-00		
LOCATION	4226 First Street, Pleasanton, California	DRILLING COMPLETED 19-Jan-00		
PROJECT NUMBER _	241-0395	WELL DEVELOPMENT DATE (YIELD)	03-Feb-00	
DRILLER _	Gregg Drilling	GROUND SURFACE ELEVATION	375.90 ft above msl	
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION 375.05 ft	above msl	
BORING DIAMETER _	8"	SCREENED INTERVAL 20 to 35 f	ft bgs	
LOGGED BY	B. Jakub	DEPTH TO WATER (First Encountered)	25.0 ft (18-Jan-00)	∇
REVIEWED BY	S. Bork, RG# 5620	DEPTH TO WATER (Static)	NA	
DEMARKO	Hand averaged to Claims			





WELL LOG (SHELL) G:VPLEASA-4\GINT\PLE4226.GPJ DEFAULT.GDT 6/23/00

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BORING/WELL LOG

PAGE 2 OF 2

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	MW-3
JOB/SITE NAME	Shell-branded service station	DRILLING STARTED	18-Jan-00
LOCATION	4226 First Street, Pleasanton, California	DRILLING COMPLETED	19-Jan-00

LOCATION		4220	FIRST	ireei, i	-leasa	nton, California DRILLING COMPLETED 19-Jan-00			
				T'		Continued from Previous Page			·*
TPHg (ppm)	1 %	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	W	ÆLL DIAGRAM
3	5 6 6			ML		SILT; (ML); light brown; hard; 10% clay, 80% silt, 10% sand; low plasticity; low estimated permeability.			✓ Bentonite Seal
1: 2: 4:	5	X		ML		Clayey SILT; (ML); hard; 20% clay, 70% silt, 10% fine grained sand; medium plasticity; low estimated permeability.	40.0	13	Bottom of
									Boring @ 41.5 ft
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				Project N	lo	SJ42-26	E 1		Clier	.4.	Shell Oil Products	He	Well No: MW-4
				Logged I		AP)ı · - ı		Loca		4226 First Street	00	Page 1 of 3
_		H	4	Driller:	- y.	Gregg				Drilled:	8/24/2006	Location Map	i ago t oi o
	14	.اح	ta	Drilling N	Aethod:	HSA/AK	(7')			Diamete		Localion map	
▎┕	人	<u>フ</u>	la		Method:	SS	· (')			Depth:	50'	Please s	ee site map
l _₽ ,	wire	ากกร	ental	Casing T	_	sch 40 F	PVC			Diamete		1 10000	od oko map
				Slot Size		0.01	***			Depth:	47'		
	IISUI	tant	s, IIIC.	Gravel P		#2/12 sa							
				Giavoii	Elevation	112712 00	<u> </u>	Nort		ig onom	Easting	-	
Well	Comp	letion		. سد ۱۵	ing	2 C	et)	Sa	mple	υ			
_	D	l	Static Water	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)			Soil Type		THOI OGY	/ DESCRIPTION
Backfill	Casing		Level	Co ∰	N. 9.	ene	abth	000	Interval	,	L.	HOLOGI	, DEGGIAI TION
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		_				3			A		Clavey SAND with G	Praval: dar	k brown to orangish brown,
				dry	0.1	4	9			SC			ained sands, 20-30% fines,
				uly	0.1	5			\coprod	00	10-20% gravels up to		
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										CL `	Sandy Lean CLAY:	orangish br	own, very stiff, 5-10%
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						6	ا ا		*		50-60% fines, low pla		- 0
				moist	7.4	8	14 —		Ш			,	
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						7	19 —		1				medium dense, 20-30%
			'	moist	2	11	18-						s, trace gravels up to 0.5"
						11	20		\downarrow		diameter, low plasticit	ty	

		Project N	ηυ.	SJ42-26F-1		Clie	ent:		Shell Oil Products	US	Well No: MW-4
		Logged I		AP	· ·		ation:		4226 First Street		Page 3 of 3
D - 14		Driller:	y -	Gregg			e Drilled:	:	8/24/2006	Location Map	
Delt	' 2	Drilling N	/lethod:	HSA/AK	(7')	Но	e Diamet	ter:	12"		
	·	Sampling	g Method:	SS		Но	e Depth:		50'	Please s	ee site map
Environmen	ntal	Casing T	Гуре:	sch 40 F	PVC	We	II Diamet	ter:	4"		
Consultants,	Inc.	Slot Size):	0.01			ll Depth:		47'		
		Gravel P		#2/12 sa	and		sing Stick	kup:	-		
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Completion	Static	말世	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample	Soil Type				
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Backfill Casing	Level	ĭĕŏ	Ď.	[등 전 전	g G	Recovery	တိ				
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					48		CL	sandy	lean CLAY: ora	ınaish brov	wn, hard, 35-45% fine
				11		A	7	graine	ed sands, 55-65	% fines, lo	w plasticity
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			Project I	No:	SJ42-26	SF-1		Clien	t:	Shell Oil Products	US	Well No: MW-1B
			Logged	Ву:	AP			Loca	tion:	4226 First Street		Page 1 of 6
	_ 1	1	Driller:		Gregg			Date	Drilled:	8/23/2006	Location Map	
)	ום	T2	Drilling N	Method:	HSA/AK	(7')		Hole	Diamete	r: 12"		
	Delta			g Method:	SS	` ,	Hole Depth:			108'	Please se	e site map
Fnvi				Гуре:		PVC	Well Diameter				Tiodoo doo dha map	
1			Slot Size		sch 40 PVC Well Diame 0.01 Well Depth					108'		
Colls	uitaiit	o, IIIC.	Gravel F		#2/12 sa	and			ng Sticku			
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Well Cor	npletion			p p	E (ਦ	99	mple				
Backfill		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Recovery	Interval	Soil Type	LIT	HOLOGY	DESCRIPTION
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			Project N Logged I		SJ42-26 AP	5⊢-1	Clier	nt: ition:	Shell Oil Products 4226 First Street	US	Well No: MW-4 Page 2 of 3	
		4	Driller:	ъy.	Gregg			Drilled:		Location Map	Irage 2 or 5	
		ta	Drilling N	/lethod:	HSA/AK	(7')		Diamet				
	U	LCI		g Method:	SS	- (. /		Depth:	50'	Please se	ee site map	
Env	ironm	ental	Casing 1		sch 40 F	PVC		Diamete	er: 4"		·	
Cons	ultani	s, Inc.	Slot Size);	0.01		Well	Depth:	47'			
			Gravel P		#2/12 sa	and	Casing Stickup:			_		
				Elevation			Northing		Easting			
w	اام	T			1	-					***************************************	
Comp		Static	છ ≠	ling	ig (C	g g	Sample	e e				
1		Water	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	la lei	Soil Type	Li	THOLOGY	/ DESCRIPTION	
Backfill	, N	Level	၌႘	Ö	Še 6	td	Recovery	Soi				
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								SC	Clayey SAND (cont.)			
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					6	24-		SP-			y: brown, medium dense,	
	_		moist	4.1	8	- '		SC	5-15% fines, 85-95%	fine graine	ed sands	
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Sand	_					ļ						
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	-		moist	762	17	39 —					ne grained sands, 45-65%	
	1 -		moist	, 02	20	40			fines, low plast		grainea sanas, 10 0070	
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Delta Environmental Consultants, Inc. Well Completion	Project No: Logged By: Driller: Drilling Method: Sampling Method Casing Type: Slot Size: Gravel Pack: Elevation (Logd)	sch 40 l 0.01 #2/12 s:	((7') PVC and	Hole Hole Well I Well I	Shell Oil Products 4226 First Street 8/23/2006 12" 108' 4" 108' - Easting	Location Map Please see	Vell No: MW-1B Page 2 of 6 site map DESCRIPTION
## C			21 — 22 — 23 — 24 — 25 — 26 — 27 — 28 — 30 — 31 — 32 — 33 — 33 — 34 — 35 — 36 — 37 — 38 — 39 — 40 — 40				

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Delta Environmental Consultants, Inc. Well Completion Static	Project No: Logged By: Driller: Drilling Method: Sampling Method: Casing Type: Slot Size: Gravel Pack: Elevation	sch 40 F 0.01 #2/12 sa n	C (7') PVC and	Hole Hole Well Well Casi Northing	tion: Drilled: Diameter: Depth: Diameter: Depth: Depth: ng Stickup	108' 4" 108'	4226 First Street Page 3 of 6 8/23/2006 Location Map 12" 108' Please see site map 4" 108' -		
Water Casing Water	Moisture Content PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Recovery 60 Interval all Soil Type		LITHOLOGY / DESCRIPTION			
	dry 8.1	14 16 21	41 — 42 — 43 — 44 — 45 — 46 — 47 — 50 — 51 — 52 — 53 — 55 — 55 — 56 — 57 — 58 — 59 — 60		8	SILT: mottled yellow to 30-90% fines, <10% fow plasticity		orangish brown, hard, fine grained sands,	

			l_ ,	_							A. II A	110	N. (14) 104 45
			Project I Logged		SJ42-26 AP	SF-1		Clien Loca			Shell Oil Products 4226 First Street	US	Well No: MW-1B Page 4 of 6
	_ 1	1 -	Driller:	IJy.	Gregg				Drilled:		8/23/2006	Location Map	prago Toro
)(ال	ta	Drilling N	/lethod:	HSA/AK	(7')			Diamet		12"		
	Delta			-	SS				Depth:		108'	Please s	ee site map
Environmental Consultants, Inc.			Casing 1		sch 40 F	PVC			Diamete	er:	4"		
Const	ıltant	s, Inc.	Slot Size Gravel F		0.01		Well Depth: Casing Stickup:				108'		
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	Well												
We Comple		Static	e L	PID Reading (ppm)	oi (°) Fig		mple	e				
		Water	Moisture Content	Reac ppm)	etrat ws/(h F	er	aj.	Soil Type		LIT	THOLOGY	/ DESCRIPTION
Backfill Casing		Level	႘ိုပိ] 다 (g)	Penetration (blows/6")	Depth (feet)	Recovery	Interval	Soi				
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			نسلم	0.4	11	79 —							y fine grained sands,
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	ronme ultant		Project N Logged Driller: Drilling N Sampling Casing T Slot Size Gravel F	By: Method: g Method: Type: b: Cack: Elevation	SJ42-26 AP Gregg HSA/AK SS sch 40 F 0.01 #2/12 sa	(7') PVC	L. D H W W	lole I Iole I Vell I Vell I		er;	Shell Oil Products 4226 First Street 8/23/2006 12" 108' 4" 108' - Easting	Location Map	Well No: MW-1B Page 5 of 6 ee site map
Comple	Completion Static		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet) Recovery 60 Interval ald Soil Type			LITHOLOGY / DESCRIPTION				
Srout			dry	9.9	10 14 18 10 16 21	81 — 82 — 83 — 84 — 85 — 86 — 87 — 90 — 91 — 92 — 93 — 94 — 95 — 96 — 97 —			ML ML	SILT hard,		ine grained	
Sand		∇	wet	8.1	11 16 20	98— - 99— - 100		1		20-30		1" diamete	wn, dense, 10-20% fines, er, 60-70% medium to parse grained)

		Project		SJ42-26	3F-1		Clien			Shell Oil Products	US	Well No: MW-1B	
		Logged Driller:	ву:	AP Orang			Loca			4226 First Street 8/23/2006	Page 6 of 6		
	Delta Environmental Consultants, Inc.		Drilling Method:		Gregg HSA/AK (7')		Date Drilled: Hole Diameter:			12"	Сосаноп мар		
			g Method:	SS				Depth:		108'	Please see site map		
Environ			Casing Type:		sch 40 PVC			Diamete		4"		or one map	
			Slot Size: 0.01					Depth:		108'			
	, , , , , , , , ,	Gravel F		#2/12 sand				ng Stick		-			
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Completion	n Static	0 +=	PID Reading (ppm)	[E C	(g)	Sar	nple	စ္					
≣ ₽	Water	Moisture Content	geac gam)	etrat ws/(л (ў	ery	<u> </u>	Soil Type	Ì	LIT	HOLOGY	/ DESCRIPTION	
Backfill Casing	Level	§ 8	는 다음 다음	Penetration (blows/6")	Depth (feet)	Recovery	Interval Soil Ty						
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Sand —	_	1.		13	104 —		1			(30-40% fines,	40-60% fi	ne to coarse graines sands,	
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				13	107		A				55-65% s	and, 10-20% gravels up to	
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DELTA XInogen	Cilent Shell Oil Produ Project Number SJ4	Boring No. B-1	
Address: 4226 1st Street Pleasanton, California Logged By: Andy Persio	Drilling Date(s): 3/27/07 Drilling Company: Gregg Drilling Method: HSA Boring Depth (ft): 35	Boring diameter (in.): 8 Sampling Method: Hand Auger/Split Spoon Well Depth (ft.): NA Casing Diameter (in.): NA	Casing Material: NA Screen Interval: NA Screen slot size: NA Sand Pack: NA
Depth (ft.) Water Level Soil/Rock Graphic Sampled Interval Blow Counts (blows/ft)	Recovery (%)	tock Visual Description	PID Reading (ppm) Boring Completion Depth (ft.)
10 - 15 - 20 - 25 - 30 - 30 - 30 - 30 - 30 - 30 - 30 - 3	SC: Clayey SAND, orangines, 10% gravels up to 100% 5.5 - 7 feet bgs: as above CL: Lean CLAY with sa 80% fines, low plasticity SC: Clayey SAND, orangines, trace gravel CT Clayey SAND with coarse sand, 30-40% fines, trace gravel dry. 83% (as above, orangish br 25-30% gravels up to 1 in SC: Clayey SAND, orangines, 10% gravels 30% fines, 10% gravels	ngish brown, 60-70% fine to medium sand, 30-s, dry. gravel, dark brown to dark gray, 50-60% fine to nes, 10-20% gravels up to 1 inch in diameter, own, 50-60% fine to coarse sand, 15-25% fines nch in diameter, dry) ngish brown, 65-70% fine to coarse sand, 25-up to 0.5 inches in diameter, dry.	13.3
Page 1 of 1			

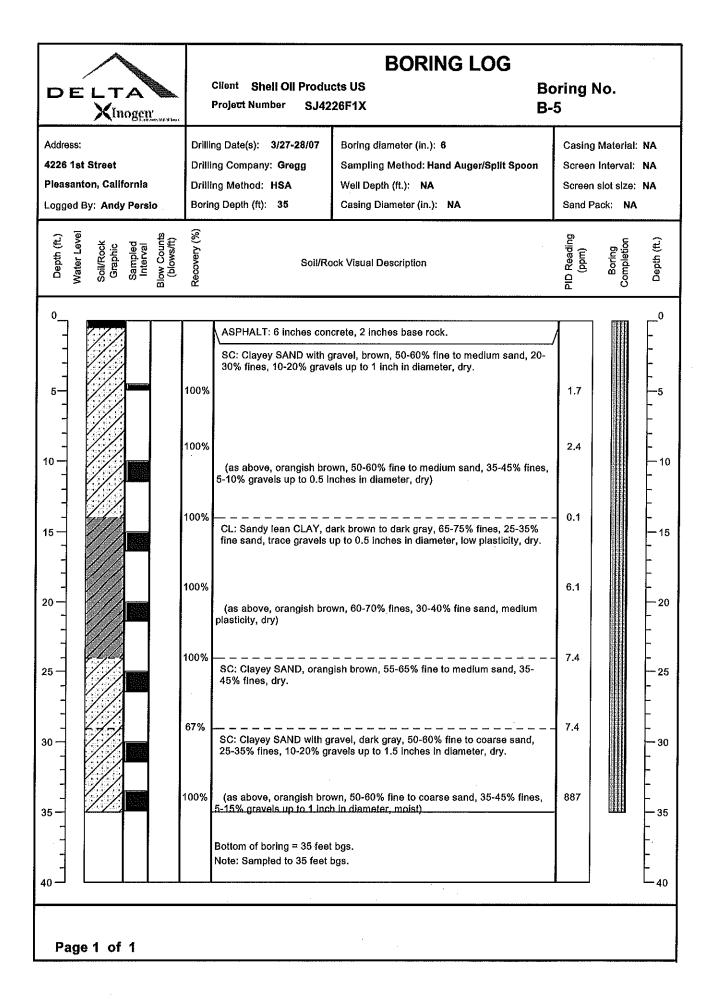
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BORING LOG Client Shell Oll Products US **Boring No.** DELTA Project Number SJ4226F1X B-2 XInogen Address: Drilling Date(s): 3/27/07 Boring diameter (in.): 6 Casing Material: NA 4226 1st Street Drilling Company: Gregg Sampling Method: Hand Auger/Split Spoon Screen Interval: NA Pleasanton, California Drilling Method: HSA Well Depth (ft.): NA Screen slot size: NA Boring Depth (ft): 35 Casing Diameter (in.): NA Sand Pack: NA Logged By: Andy Persio Recovery (%) Sampled Interval Soil/Rock Graphic Depth (ft.) Soil/Rock Visual Description ASPHALT: 6 inches concrete, 1-2 Inches base rock. CL: Sandy lean CLAY, dark brown, 60-70% fines, 30-40% fine to medium sand. SC: Clayey SAND, orangish brown, 55-65% fine to medium sand, 35-100% 6.4 45% fines, trace gravels. 5.5 - 7 feet bgs: as above, clay increasing, more compact, dry. 100% (as above, 65-75% fine to medium sand, 25-35% fines, very dense, dry) 0.6 10 CL: Sandy CLAY, orangish brown, 20-30% fine sand, 70-80% fines, low plasticity, dry. 100% 0.2 15 15 SC: Clayey SAND, orangish brown, 60-70% fine to coarse sand, 30-40% fines, trace gravels, dry. 83% 0.3 20 20 SC: Clayey SAND with gravel, brown to orangish brown, 50-60% fine to coarse sand, 25-35% fines, 5-25% gravels up to 1 inch in dlameter, dry. 67% 5.8 25 25 50% 0.1 (same as above, dry) 30 30 67% 33.2 (same as above, dry) 35 35 Bottom of boring = 35 feet bgs. Note: Sampled to 35 feet bgs. 40 40 Page 1 of 1

BORING LOG Client Shell Oil Products US **Boring No.** DELTA Project Number SJ4226F1X B-3 XInogen' Drilling Date(s): 3/27-28/07 Address: Boring diameter (in.): 8 Casing Material: NA 4226 1st Street Sampling Method: Hand Auger/Split Spoon Drilling Company: Gregg Screen Interval: NA Pleasanton, California Drilling Method: HSA Well Depth (ft.): NA Screen slot size: NA Sand Pack: NA Boring Depth (ft): 35 Casing Diameter (in.): NA Logged By: Andy Persio Recovery (%) Depth (ft.) Soil/Rock Graphic Sampled Interval Soil/Rock Visual Description ASPHALT: 6 inches concrete, 1-2 inches base rock. SC: Clayey SAND, orangish brown, 55-65% fine to medium sand, 35-45% fines. 100% 12.5 (as above, clay increasing, more compact, dry) 100% (as above, 60-70% fine to medium sand, 30-40% fines, trace gravels, 0.4 dry) 10 10 CL: Sandy lean CLAY, orangish brown, 30-40% fine sand, 60-70% fines, low plasticity, dry. 100% 6.2 15 SC: Clayey SAND, orangish brown, 60-70% fine sand, 30-40% fines, 83% 2.1 20 20 67% (as above, 60-70% fine to coarse sand, 20-30% fines, 10% gravels up to 98.1 0.5 inches in diameter, dry) 25 25 (as above, 50-60% fine to medium sand, 30-40% fines, 5-10% gravels 536 50% up to 0.5 inches in diameter, dry) 30 30 SC: Clayey SAND with gravel, dark brown, 50-60% fine to coarse sand, 25-35% fines, 15-25% gravels up to 1 inch in diameter, dry. 83% 2,7 35 35 Bottom of boring = 35 feet bgs. Note: Sampled to 35 feet bgs. 40 40 Page 1 of 1

BORING LOG Client Shell Oil Products US **Boring No.** DELTA **Project Number** SJ4226F1X B-4 XInogen Casing Material: NA Address: Drilling Date(s): 3/27-28/07 Boring diameter (in.): 6 4226 1st Street **Drilling Company: Gregg** Sampling Method: Hand Auger/Split Spoon Screen Interval: NA Pleasanton, California Well Depth (ft.): NA Screen slot size: NA Drilling Method: HSA Boring Depth (ft): 35 Casing Dlameter (in.): NA Sand Pack: NA Logged By: Andy Persio Depth (ft.) Soil/Rock Graphic Sampled Interval Depth (ft.) Soil/Rock Visual Description ASPHALT: 6 inches concrete, 2 inches base rock. SC: Clayey SAND with gravel, dark brown, 50-60% fine to medium sand, 20-30% fines, 10-20% gravels up to 1 inch in diameter, dry. 56.3 100% 67% 13.0 (same as above, dry) 10 SC: Clayey SAND, orangish brown, 50-60% fine to medium sand, 40-50% fines, trace gravels, dry. 67% 5.8 15 80% (as above, 60-70% fine to coarse sand, 30-40% fines, trace gravels, dry) 1.2 20 20 100% (as above, 55-65% fine to coarse sand, 30-40% fines, 5-15% gravels up 12.3 to 1 inch in diameter, dry) 25 25 SC: Clayey SAND with gravel, orangish brown, 50-60% fine to coarse sand, 25-35% fines, 15-25% gravels up to 1.5 inches in diameter, dry. 67% 18,2 30 30 83% (same as above, dry) 46.5 35 35 Bottom of boring = 35 feet bgs. Note: Sampled to 35 feet bgs. 40 40 Page 1 of 1

BORING LOG Client Shell Oil Products US **Boring No.** DELTA Project Number SJ4226F1X **B-4** Xinogen Address: Drilling Date(s): 3/27-28/07 Boring diameter (in.): 6 Casing Material: NA Sampling Method: Hand Auger/Split Spoon 4226 1st Street Drilling Company: Gregg Screen Interval: NA Pleasanton, California Well Depth (ft.): NA Drilling Method: HSA Screen slot size: NA Logged By: Andy Persio Boring Depth (ft): 35 Casing Diameter (in.): NA Sand Pack: NA Sampled Interval Blow Counts (blows/ft) PID Reading (ppm) Depth (ft.) Boring Completion Soil/Rock Graphic Depth (ft.) Soil/Rock Visual Description ASPHALT: 6 inches concrete, 2 inches base rock. SC: Clayey SAND with gravel, dark brown, 50-60% fine to medium sand, 20-30% fines, 10-20% gravels up to 1 inch in diameter, dry. 100% 56.3 67% (same as above, dry) 13.0 10 10 SC: Clayey SAND, orangish brown, 50-60% fine to medium sand, 40-50% fines, trace gravels, dry. 5.8 67% 15 15 1.2 80% (as above, 60-70% fine to coarse sand, 30-40% fines, trace gravels, dry) 20 20 (as above, 55-65% fine to coarse sand, 30-40% fines, 5-15% gravels up 12.3 100% to 1 inch in diameter, dry) 25 25 SC: Clayey SAND with gravel, orangish brown, 50-60% fine to coarse sand, 25-35% fines, 15-25% gravels up to 1.5 inches in diameter, dry. 18.2 67% 30 30 46.5 83% (same as above, dry) .35 35 Bottom of boring = 35 feet bgs. Note: Sampled to 35 feet bgs. 40 Page 1 of 1



Attachment C

HISTORIC SOIL ANALYTICAL DATA

Table : **Summary of Soil Analytical Data**

Shell Service Station 4226 First Street, Pleasanton, CA

Sample Designation	Date Sampled	Depth (feet)		TPH-G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Xylene and Ethyl-benzene (mg/kg)	
						11		
S-B	9/27/1985	3.5 to 5	*	2	<0.1	<0.1	<0.4	
S-B	9/27/1985	7 to 8.5	*	460	<2.0	2	32	
S-B	9/27/1985	10.5 to 12		610	<2.0	3.5	63	
S-B	9/27/1985	14 to 15.5		1,300	<2.5	9.6	260	
S-B	9/27/1985	19 to 20.5		<2	<0.1	<0.1	<0.4	
S-C	9/27/1985	10.5 to 12		<2	<0.1	<0.1	<0.4	
S-D	9/27/1985	10.5 to 12		<2	<0.1	<0.1	<0.4	

Notes:

mg/kg = milligrams per kilogram TPH-G = Total petroleum hydrocarbons as gasoline * Sample of gravel from UST pit

TABLE

ANALYTICAL RESULTS OF SOIL SAMPLES

Concentrations in mg/kg (parts per million)

SHELL OIL COMPANY 4226 FIRST STREET PLEASANTON, CALIFORNIA

Boring	TPH	Benzene	Toluene	Ethylbenzene	Xylenes
SB4-15	N.D.	N.D.	N.D.	N.D.	N.D.
SB4-35	N.D.	0.023	0.0071	N.D.	0.0055
SB4-50	N.D.	0.030	0.0059	N.D.	N.D.
SB5-35	820	65	3.7	6.5	65
SB5-40	N.D.	N.D.	N.D.	N.D.	N.D.
SB5-50	N.D.	N.D.	N.D.	N.D.	N.D.
DETECTION LIMITS:	1.0	0.0050	0.0050	0.0050	0.0050

NOTES:

TPH - Total Petroleum Hydrocarbons (Gasoline Range) analyzed by EPA Methods 5030/8015.
 Benzene, Toluene, Ethylbenzene and Xylene analyzed by EPA Method 8020.

³⁾ ND - Not detected.

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Table : Soil Analytical Results - Shell-branded Service Station Incident# 98995840 4226 First Street, Pleasanton, California

Sample	TPHg	Benzene	Toluene	Ethylbenzene	Xylene	MTBE			
	4		· (concentrations	ntrations reported in ppm)					
MW-2-6.3'	<1.0	<0.005	<0.005	< 0.005	<0.010	<0.05			
MW-2-16.5'	<1.0	< 0.005	< 0.005	< 0.005	< 0.010	< 0.05			
MW-2-21.5'	<1.0	< 0.005	< 0.005	< 0.005	< 0.010	< 0.05			
MW-2-26.0'	<1.0	<0.005	< 0.005	<0.005	< 0.010	< 0.05			
MW-2-30.5'	<1.0	<0.005	< 0.005	<0.005	<0.010	< 0.05			
MW-2-35.0'	<1.0	< 0.005	<0.005	<0.005	<0.010	<0.05			
MW-3-5.0	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05			
MW-3-10.5'	<1.0	< 0.005	< 0.005	< 0.005	< 0.010	< 0.05			
MW-3-15.5'	<1.0	< 0.005	< 0.005	< 0.005	< 0.010	< 0.05			
MW-3-20.5'	<1.0	< 0.005	< 0.005	< 0.005	<0.010	< 0.05			
MW-3-25.5'	<1.0	<0.005	<0.005	<0.005	<0.010	<0.05			

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tert-Butyl Ether by EPA 8020.

ppm = parts per million

Samples collected January 18 and 19, 2000

CAMBRIA

Table Soil Analytical Results - Shell-branded Service Station Incident# 98995840 4226 First Street, Pleasanton, California

Sample	TPHg	Benzene	Toluene	Ethyl Benzene	Xylene	MTBE
	4		((ppm) —————		
		·		····		
SB-6-15.5'	<1.0	< 0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-6-19.5'	<1.0	< 0.0050	< 0.0050	<0.0050	< 0.0050	< 0.025
SB-6-25.0 ¹	<1.0	< 0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-6-30.0'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025
SB-6-35.0 ¹	<1.0	0.0069	<0.0050	<0.0050	< 0.0050	<0.025
SB-6-40.0'	<1.0	< 0.0050	0.28	< 0.0050	< 0.0050	<0.025
SB-6-45.0'	<1.0	0.1	<0.0050	<0.0050	< 0.0050	< 0.025
SB-7-15.0'	<1.0	<0.0050	<0.0050	< 0.0050	<0.0050	< 0.025
SB-7-19.5'	<1.0	<0.0050	<0.0050	< 0.0050	<0.0050	<0.025
SB-7-24.51	<1.0	< 0.0050	<0.0050	< 0.0050	<0.0050	< 0.025
SB-7-29.3'	<1.0	< 0.0050	<0.0050	< 0.0050	<0.0050	< 0.025
SB-7-34.3'	<1.0	< 0.0050	< 0.0050	< 0.0050	<0.0050	< 0.025
SB-7-40.0'	83	<0.0050	0.37	0.26	0.26	< 0.025
SB-7-44.51	<1.0	<0.0050	< 0.0050	<0.0050	<0.0050	< 0.025
SB-7-59.5 ¹	<1.0	<0.0050	<0.0050	, <0.0050	< 0.0050	<0.050
SB-7-64.5'	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	< 0.050

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tert-Butyl Ether

ppm = parts per million

Samples collected April 7 through 9, 1999

Table 3 Summary of Soil Analytical Data Shell Service Station

4226 First Street, Pleasanton, CA

Sample Designation	Date Sampled	Depth (feet)	TPH-G (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Xylene (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)
MIM 1D@GE	9/02/0000		.0.5	0.005	0.005				
MW-1B@65'	8/23/2006	65	<2.5	<0.025	<0.025	<0.025	<0.050	<0.025	<0.250
MW-1B@69.5'	8/23/2006	69.5	<2.5	<0.025	<0.025	<0.025	<0.050	<0.025	<0.250
MW-1B@95'	8/23/2006	95	<2.5	<0.025	<0.025	<0.025	<0.050	<0.025	<0.250
MW-4@35'	8/24/2006	35	51	<0.025	<0.025	<0.025	<0.050	0.17	<0.250
MW-4@36.5'	8/24/2006	36.5	380	<0.025	<0.025	1.2	1.6	0.092	<0.250
MW-4@39.5'	8/24/2006	39.5	6.7	<0.025	<0.025	0.05	0.064	0.038	<0.250
MW-4@44.5'	8/24/2006	44.5	<2.5	<0.025	<0.025	<0.025	<0.050	0.59	<0.250
M W-4@50'	8/24/2006	50	<2.5	<0.025	<0.025	<0.025	<0.050	0.56	<0.250

Notes:

mg/kg = milligrams per kilogram TPH-G = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether