CONESTOGA-ROVERS & ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
www.CRAworld.com

TRANSMITTAL

DATE: April 10, 2012

REFERENCE NO.: 201232

PROJECT NAME: 1801 Santa Rita Road, Pleasanton

TO: Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED
3:35 pm, Apr 11, 2012
Alameda County
Environmental Health

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- ☐ Prints
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QUANTITY	DESCRIPTION
1	Updated Site Conceptual Model and Closure Request

- ☐ As Requested
- ☐ For Your Use
- ☒ For Review and Comment
- ☐
- ☐

COMMENTS:
If you have any questions regarding the contents of this document, please call Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US (electronic copy)

Danielle Stefani, Livermore-Pleasanton Fire Department, 3560 Nevada Street, Pleasanton, CA 94566-6267

Cheryl Dizon, Zone 7 Water Agency, 100 North Canyons Parkway, Livermore, CA 94551

Completed by: Peter Schaefer Signed: Peter Schaefer

Filing: **Correspondence File**

Denis L. Brown
Shell Oil Products US
HSE – Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
Tel (707) 865 0251
Fax (707) 865 2542
Email denis.l.brown@shell.com

Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Shell-branded Service Station
1801 Santa Rita Road
Pleasanton, California
SAP Code 135783
Incident No. 97615964
ACEH Case No. RO0002882

Dear Mr. Wickham:

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or concerns, please call me at (707) 865-0251.

Sincerely,

Denis L. Brown
Senior Program Manager

UPDATED SITE CONCEPTUAL MODEL AND CLOSURE REQUEST

SHELL-BRANDED SERVICE STATION
1801 SANTA RITA ROAD
PLEASANTON, CALIFORNIA

SAP CODE	135783
INCIDENT NO.	97615964
AGENCY NO.	RO0002882

Prepared by:
Conestoga-Rovers & Associates

5900 Hollis Street, Suite A
Emeryville, California
U.S.A. 94608

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

web: http://www.CRAworld.com

APRIL 10, 2012
REF. NO. 201232 (3)
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EXECUTIVE SUMMARY

- This SCM is intended to address the deficiencies presented in the Closure Review posted on SWRCB's Geotracker website.
- Shell voluntarily initiated the investigation in 2002 due to the proximity of the site to water production wells.
- Historical groundwater monitoring and grab groundwater data adequately define TPHg, BTEX, MTBE, and TBA impacts horizontally and vertically in groundwater to below applicable RWQCB ESLs and demonstrate that the plume is not migrating. Deep and shallow wells appear to be screened in the upper and lower portion of the same water-bearing zone.
- Vadose zone soil analytical results are all below ESLs, with the exception of five soil samples collected from well borings drilled in the area of the USTs and dispensers. Since no vadose zone soil concentrations exceeded ESLs in other borings, soil impacts have been adequately delineated.
- The site is likely to remain in use as a service station.
- This site meets the RWQCB criteria for a low-risk fuel site. Therefore, on behalf of Shell, we respectfully request closure of this case. CRA requests that Alameda County Environmental Health suspend the groundwater monitoring program during the closure review.

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell). This evaluation and other information included in this report are intended to address the deficiencies identified in the California Water Resources Control Board's Geotracker website's Closure Review for the subject site.

The site is a Shell-branded service station located on the northwestern corner of Santa Rita Road and Valley Avenue in a mixed commercial and residential area of Pleasanton, California (Figure 1). The site layout includes a convenience store, three fuel underground storage tanks (USTs), and four dispenser islands (Figure 2).

A summary of previous work performed at the site is contained in Appendix A.

2.0 SITE CONCEPTUAL MODEL

ITEM	*EVALUATION CRITERIA*	*COMMENTS/DISCUSSION*
2.1	**Hydrocarbon Source**	
2.1.1	Identify/Describe Release Source and Volume (if known)	Unknown. Low levels of soil contamination were identified during investigation activities in 2002. No release from the USTs or piping was identified.
2.1.2	Discuss Steps Taken to Stop Release	The dispensers and product piping were upgraded in November 2002. During the upgrade activities, approximately 150 cubic yards of soil were excavated for off-site disposal. A hoist was replaced in April 2005, and a waste oil UST was removed in February 2007.
2.2	**Site Characterization**	
2.2.1	Current Site Use/Status	The site is a Shell-branded service station.
2.2.2	Soil Definition Status	All detections of total petroleum hydrocarbons as diesel (TPHd), total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary-butyl ether (MTBE), tertiary-butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), and tertiary-amyl methyl ether (TAME) in the 52 vadose zone (less than

ITEM	EVALUATION CRITERIA	COMMENTS/DISCUSSION
		35 feet below grade [fbg]) soil samples analyzed from the site are below the San Francisco Bay Regional Water Quality Control Board[1] (RWQCB) environmental screening level (ESL) for soils at sites with commercial land use, where groundwater is a potential source of drinking water with the following exceptions. • 420 milligrams per kilograms (mg/kg) TPHg in MW-1 at 28.5 fbg, • 0.77 mg/kg benzene and 3.7 mg/kg toluene in MW-4 at 29.5 fbg, • 2.0 mg/kg benzene in MW-4 at 34.5 fbg, • 0.058 mg/kg benzene in MW-1A at 30 fbg, and • 6.2 mg/kg toluene and 3.5 mg/kg total xylenes in MW-4A at 30 fbg. It should be noted that the RWQCB advises that ESLs must be used in conjunction with ESLs for related chemicals (e.g. BTEX, polynuclear aromatic hydrocarbons, oxidizers, etc.)." In this case, BTEX, fuel oxygenates, and lead scavengers are the appropriate related chemicals. Since the detections of benzene, toluene, and total xylenes which exceed ESLs are all in the area of the USTs and dispensers and no vadose zone soil concentrations exceeded ESLs in other borings, soil impacts have been adequately delineated. Tables 1 and 2 present historical soil data.
2.2.3	Separate-Phase Hydrocarbon (SPH) Definition Status	SPH has not been observed at the site.
2.2.4	Groundwater Definition Status (TPHg/BTEX)	Groundwater has been monitored at the site since the fourth quarter of 2002. During the third quarter 2011 groundwater monitoring event, TPHd, TPHg, BTEX, and

1 *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater,* California Regional Water Quality Control Board, Interim Final – November 2007 [Revised May 2008]

ITEM	EVALUATION CRITERIA	COMMENTS/DISCUSSION
		fuel oxygenate concentrations were below ESLs for groundwater where groundwater is a potential source of drinking water with the exception of 340 micrograms per liter (µg/L) TPHd, 350 µg/L TPHg, 1.4 µg/L benzene, 27 µg/L MTBE, and 200 µg/L TBA detected in MW-4A and 11 µg/L MTBE detected in MW-1A. As noted above, the RWQCB advises that TPH ESLs must be used in conjunction with ESLs for related chemicals (e.g. BTEX, polynuclear aromatic hydrocarbons, oxidizers, etc.)." In this case BTEX and fuel oxygenates are the appropriate related chemicals. BTEX concentrations in the shallow zone are defined to below ESLs by shallow well MW-5 and a grab groundwater sample collected from boring B-1. MW-1A, MW-4A, and MW-5 are shallow wells which have contained insufficient water to sample several times during recent sampling events (including the fourth quarter of 2011) indicating that the vertical groundwater migration is the primary concern at this site. We note that the deep and shallow wells appear to be screened in the upper and lower portion of the same water-bearing zone. The groundwater gradient in shallow wells during the second and third quarter of 2011 was southerly; however, since groundwater elevations in the deeper wells (MW-1 through MW-4) were at least 8 feet below the screened intervals of the shallow wells (MW-1A, MW-4A and MW-5) in the fourth quarter of 2011, vertical migration and impacts to deeper wells are of greater concern than lateral migration in shallow groundwater. Since all concentrations of constituents of concern (COCs) in deeper site wells are below ESLs, groundwater impacts are adequately defined. Historical monitoring well groundwater data are included in Table 3, and grab groundwater sampling data are presented in Table 4. Groundwater monitoring well

ITEM	EVALUATION CRITERIA	COMMENTS/DISCUSSION
		construction data are presented in Table 5.
2.2.5	TPHg/BTEX Plume Stability and Concentration Trends	Quarterly groundwater monitoring data indicate that COC concentrations are declining. Trend graphs for COCs presented on Figures 4 through 6 predict that all COCs will reach ESLs by 2038.
2.2.6	Groundwater Definition Status (Oxygenates)	The highest MTBE (MW-1A, 290 micrograms per liter [µg/L]; 1/5/09) and TBA (MW-4A, 1,300 µg/L; 1/5/09) concentrations were detected in shallow screened wells in the area of the dispensers. This source area is adequately characterized by shallow zone wells MW-1A, MW-4A, and MW-5 and boring B-4. Groundwater data from well MW-5 and boring B-1 define the down gradient extent of MTBE and TBA impacts. As stated above, the potential for vertical groundwater migration is the primary concern at this site. Fuel oxygenate concentrations in all deeper zone wells (MW-1 through MW-4) are all below ESLs, so the extent of fuel oxygenates in groundwater is adequately defined. Historical monitoring well groundwater data are included in Table 3 and grab groundwater sampling data are presented in Table 4.
2.2.7	Oxygenate Plume Stability and Concentration Trends	Groundwater monitoring data indicate that the MTBE and TBA plumes are not migrating and concentrations are steadily declining. As stated above, Figures 4 through 6 predict that all COCs will reach ESLs by 2038. TAME, DIPE, and ETBE have not been detected in groundwater samples.
2.2.8	Groundwater Flow Direction, Depth Trends and Gradient	Static groundwater depth has ranged from 34.55 to 85.83 fbg. Groundwater flow direction is variable but generally southwesterly (during the third quarter 2011 groundwater flow direction was anomalous with flow to the northeast) with a variable but generally shallow groundwater gradient. Vertical groundwater gradients are variable and historically have varied from -0.005 to

ITEM	EVALUATION CRITERIA	COMMENTS/DISCUSSION
		0.003 (Table 6). Groundwater depths are presented in the historical groundwater monitoring table (Table 3). The third quarter 2011 groundwater contour map is included as Figure 3.
2.2.9	Stratigraphy and Hydrogeology	Based on 10 site borings, the site is underlain predominately by clays and silts with occasional, minor (up to 5 feet thick) sand lenses, to a depth of approximately 50 fbg. Coarse grained sands are initially encountered between approximately 50 and 55 fbg and continue to approximately 95 fbg where they are underlain by fine grained soils to the total depth explored of 97.5 fbg. Cross sections are presented in Figures 7 and 8, and boring logs are presented in Appendix B.
2.2.10	Preferential Pathways Analysis	No preferential pathway analysis has been conducted or is warranted based on depth to water and utility depths.
2.2.11	Other Pertinent Issues	None at this time.
2.3	**Remediation Status**	
2.3.1	Remedial Actions Taken	The dispensers and product piping were upgraded in November 2002. During the upgrade activities, approximately 150 cubic yards of soil were excavated for off-site disposal. A hoist was replaced in April 2005, and a waste oil UST was removed in February 2007.
2.3.2	Area Remediated	The area of the dispensers and UST complex.
2.3.3	Remediation Effectiveness	The plume is stable and declining following remedial activities.
2.4	**Well and Sensitive Receptor Survey**	
2.4.1	Designated Beneficial Water Use	The California State Water Resources Control Board's Geotracker website file for the environmental case at this site states that the groundwater at this site is considered a "drinking water supply;" however, neighboring properties are served by the local municipal water purveyor for potable water. Groundwater in this area cannot be

ITEM	EVALUATION CRITERIA	COMMENTS/DISCUSSION
		precluded from being a potential future source of drinking water.
2.4.2	Well Survey Results	In 2006, Delta Consultants (Delta) field verified two drinking water supply wells within one-half mile of the site. Well 3S/1E 16L 7M (City of Pleasanton Well 6) is located approximately 1,600 feet south of the site. Well 3S/1E 16L 5 (City of Pleasanton Well 5) is located approximately 1,848 feet southeast of the site. According to information supplied by Zone 7 Water Agency, the depth to the top of the first well screen in Well 6 is 165 fbg, and the depth to the top of the first well screen in Well 5 is 149 fbg. Both wells are located cross-gradient from the site. Additionally, Delta field verified two private wells located approximately 2,312 feet west of the site (Well No. 3S/1E 17B4) and 2,323 feet northwest of the site (Well No. 3S/1E 9N4).
2.4.3	Likelihood of Impact to Wells	Due to the distance and direction to the identified water-producing wells and declining trends observed for COCs, it is unlikely they would be impacted.
2.4.4	Likelihood of Impact to Surface Water	Arroyo Valle is located approximately 3,500 feet south, and infiltration pond "Lake I" is located approximately 3,600 feet northeast. Due to the distance and cross-gradient and up-gradient directions to these surface water features and depth to groundwater, it is unlikely that surface water would be impacted.
2.5	**Risk Assessment**	
2.5.1	Site Conceptual Exposure Model (current and future uses)	The site is an active Shell-branded service station and is likely to remain in use as a service station. The site is surrounded by mixed residential and commercial properties. There is no indication that the land use in the site vicinity will change from commercial and residential land use in the near future.
2.5.2	Exposure Pathways	Potential exposure pathways include ingestion of impacted groundwater, exposure of on-site workers to impacted shallow soils,

ITEM	EVALUATION CRITERIA	COMMENTS/DISCUSSION
		and intrusion of vapor to indoor air. Groundwater ingestion does not appear to be a completed pathway because there are no down-gradient water-producing wells or surface water in close proximity to the site. As discussed above, impacted soil is limited on site. Any worker doing trenching or excavating at a former gasoline station would be properly trained and prepared for encountering potentially impacted soil, and would wear personal protective equipment, as necessary. Therefore, the residual impacted soils do not appear to pose a significant threat to construction workers who may occasionally come in contact with the potentially impacted soils on site, and any work at this site would require contractors to have appropriate health and safety training to perform the work. At this time, no further investigation associated with the residual soil impact is recommended. Furthermore, all COC groundwater concentrations are below the commercial land use ESLs for evaluating the potential for vapor intrusion[2].
2.5.3	Risk Assessment Status	No formal risk assessment is planned the site.
2.5.4	Identified Human Exceedances	NA
2.5.5	Identified Ecological Exceedances	NA
2.6	**Additional Recommended Data or Tasks**	
2.6.1	Well Destructions	

2 *Screening for Environmental Concerns at Site With Contaminated Soil and Groundwater,* California Regional Water Quality Control Board, Interim Final – November 2007 [Revised May 2008]; Table E-1: Groundwater Screening Levels for Evaluation of Potential Vapor Intrusion Concerns (commercial land use).

3.0 CONCLUSIONS AND RECOMMENDATIONS

As stated above, the site is likely to remain in use as a service station. Given the concentrations of COCs in site soil and groundwater compared to the ESLs as presented above, CRA concludes that the residual petroleum and fuel oxygenate impacts at this site pose very little or no risk to human health or the environment.

This site meets the RWQCB criteria for a low-risk fuel site. Soil and groundwater impacts have been adequately delineated. No further soil or groundwater investigation is warranted. On behalf of Shell, we respectfully request closure of this case. CRA requests that the Alameda County Environmental Health suspend the groundwater monitoring program during the closure review.

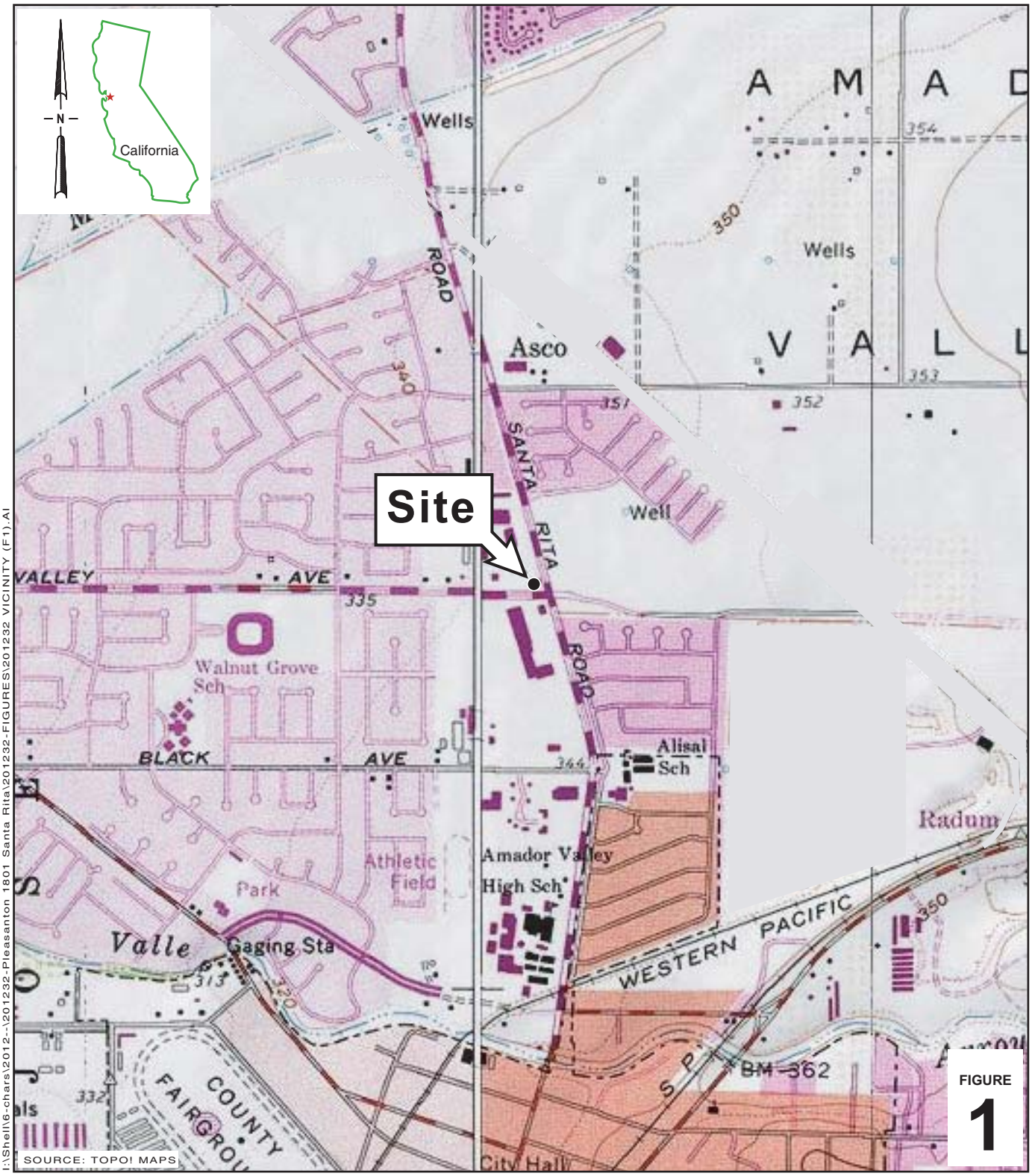
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer, CEG, CHG

Aubrey K. Cool, PG

FIGURES

02/10/2011



I:\Shell\6-chars\2012-\201232-Pleasanton 1801 Santa Rita\201232-FIGURES\201232 VICINITY (F1).AI

FIGURE 1

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Shell-branded Service Station

1801 Santa Rita Road

Pleasanton, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

EXPLANATION

- MW-1 — Deeper monitoring well location
- MW-1A — Shallower monitoring well location
- WO-1 — Soil sample location (CRA, 2007)
- B-1 — Soil boring location (Delta, 2006)
- B-3* — Attempted soil boring location (Delta, 2006)
- S-1 — Soil sample location (Delta, 2005)
- D-1 — Soil sample location (Delta, 2002)
- A — A' — Cross section line

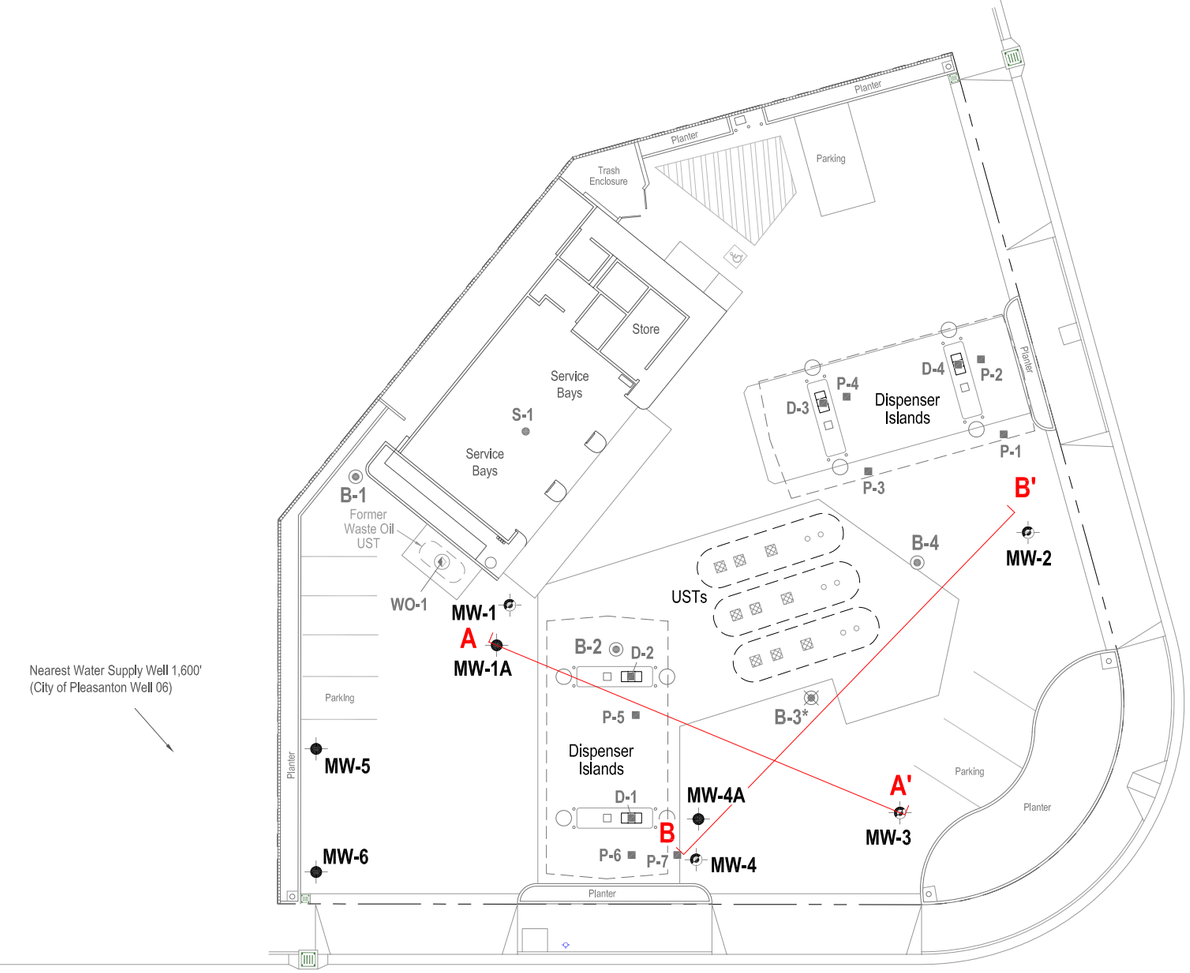


Figure 2

Site Plan
Shell-branded Service Station
1801 Santa Rita Road
Pleasanton, California

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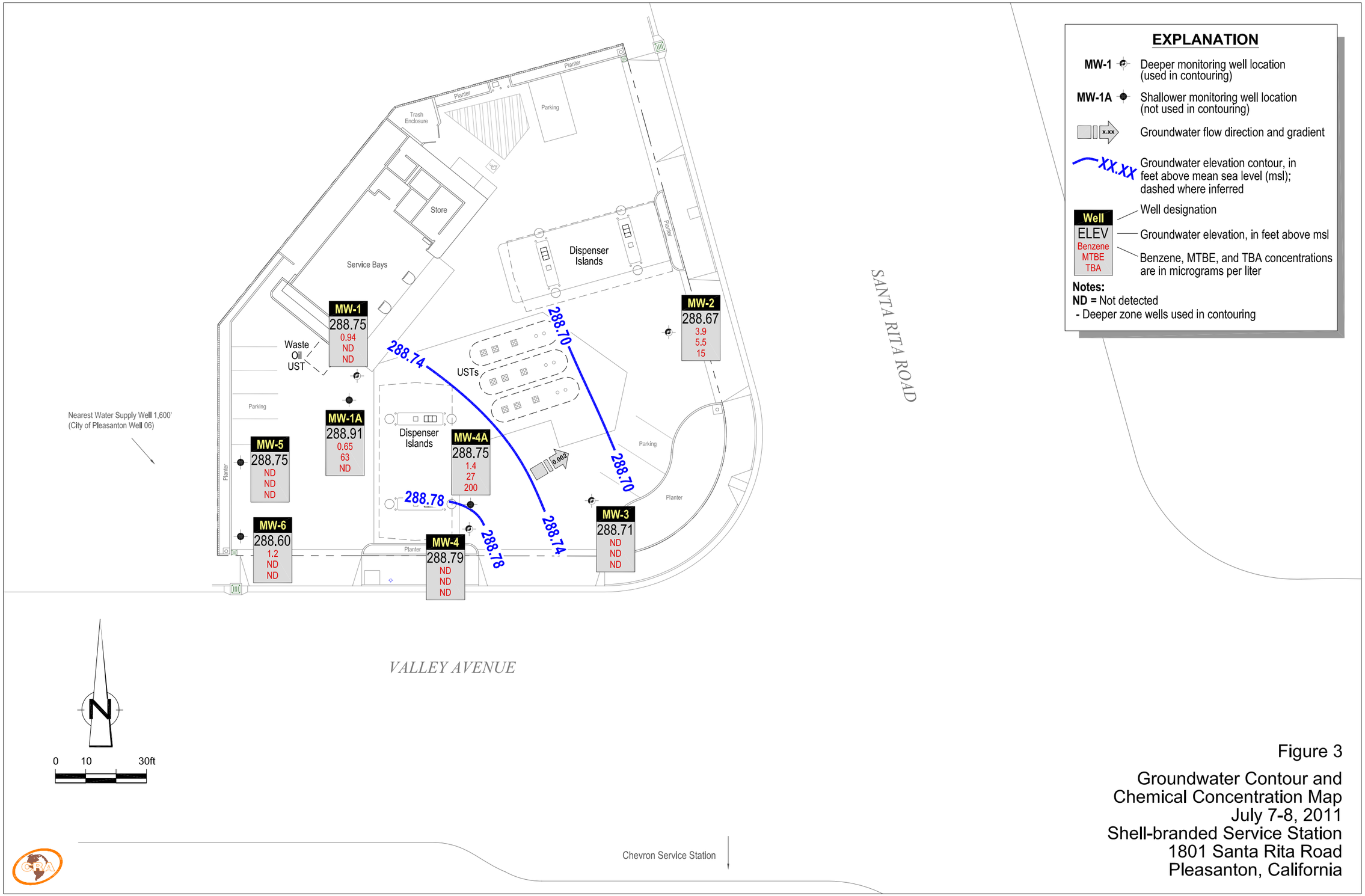

EXPLANATION

- **MW-1** — Deeper monitoring well location (used in contouring)
- **MW-1A** — Shallower monitoring well location (not used in contouring)
- Groundwater flow direction and gradient
- XX.XX — Groundwater elevation contour, in feet above mean sea level (msl); dashed where inferred
- **Well** / ELEV / Benzene / MTBE / TBA — Well designation; Groundwater elevation, in feet above msl; Benzene, MTBE, and TBA concentrations are in micrograms per liter

Notes:
ND = Not detected
- Deeper zone wells used in contouring

Figure 3

Groundwater Contour and Chemical Concentration Map
July 7-8, 2011
Shell-branded Service Station
1801 Santa Rita Road
Pleasanton, California

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Predicted Time to Reach Water Quality Objectives (WQO) in Well MW-1A

Shell-branded Service Station, 1801 Santa Rita Road, Pleasanton, California

$y = b\,e^{ax}$ **===>** $x = \ln(y/b) / a$

where: y = concentration in µg/L, a = decay constant
b = concentration at time (x), x = time (x) in days

		Constituent: Methyl Tert-Butyl Ether (MTBE)
Given		
WQO :	y	5
Constant:	b	3.07E+38
Constant:	a	-2.10E-03
Starting date for current trend:		1/5/2009
Calculate		
Attenuation Half Life (years):	(-ln(2)/a)/365.25	0.90
Estimated Date to Reach WQO:	(x = ln(y/b) / a)	Aug 2013

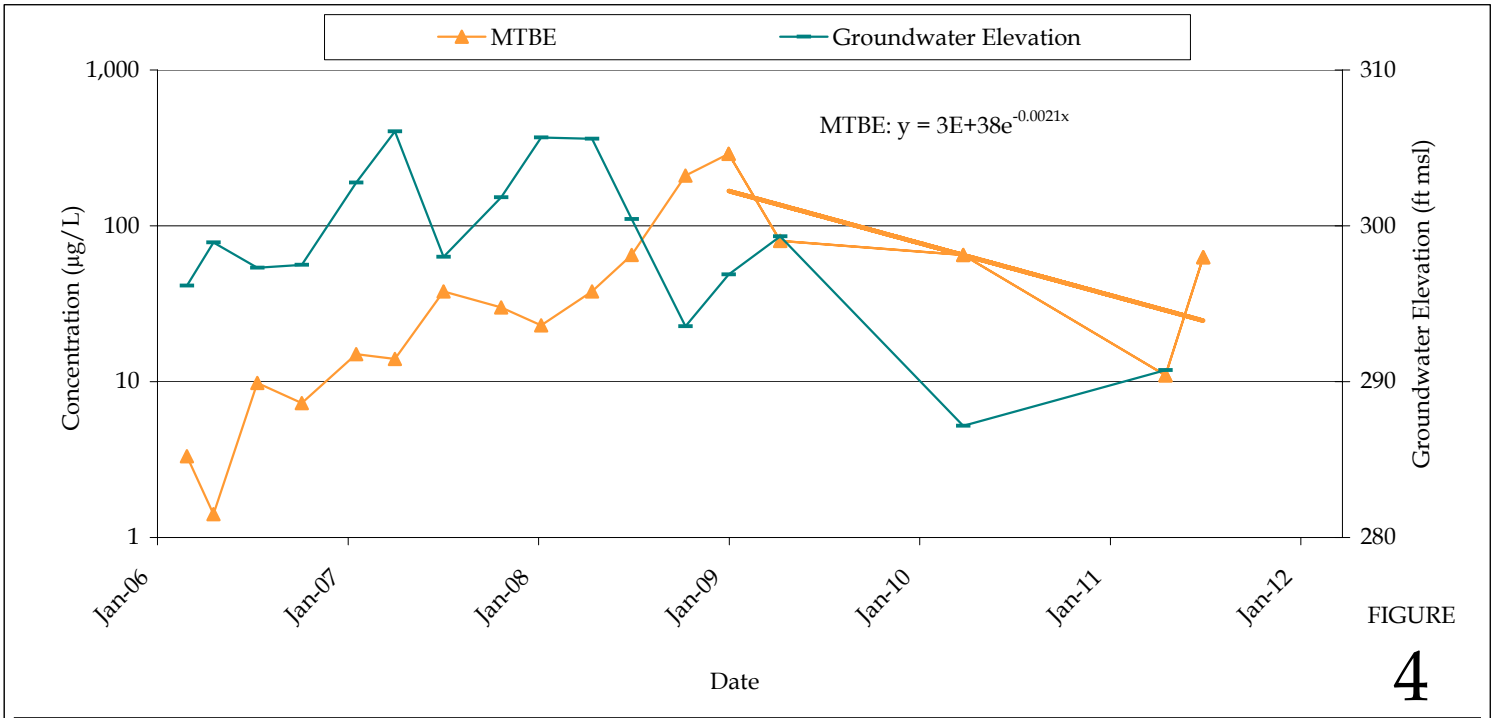


FIGURE 4

Shell-branded Service Station
1801 Santa Rita Road
Pleasanton, California

CONESTOGA-ROVERS & ASSOCIATES

MW-1A:
MTBE Concentrations and Groundwater Elevation

Predicted Time to Reach Water Quality Objectives (WQO) in Well MW-4A

Shell-branded Service Station, 1801 Santa Rita Road, Pleasanton, California

$y = b\,e^{ax}$ **===>** $x = \ln(y/b) / a$

where: y = concentration in µg/L, a = decay constant
b = concentration at time (x), x = time (x) in days

	Constituent	Benzene	Methyl Tert-Butyl Ether (MTBE)	Tert-Butyl Alcohol (TBA)
Given				
WQO :	y	1	5	12
Constant:	b	1.67E+56	4.73E+51	3.89E+50
Constant:	a	-3.19E-03	-2.85E-03	-2.75E-03
Starting date for current trend:		7/12/2006	1/5/2009	1/5/2009
Calculate				
Attenuation Half Life (years):	(-ln(2)/a)/365.25	0.60	0.66	0.69
Estimated Date to Reach WQO:	(x = ln(y/b) / a)	Mar 2011	Aug 2012	Jul 2013

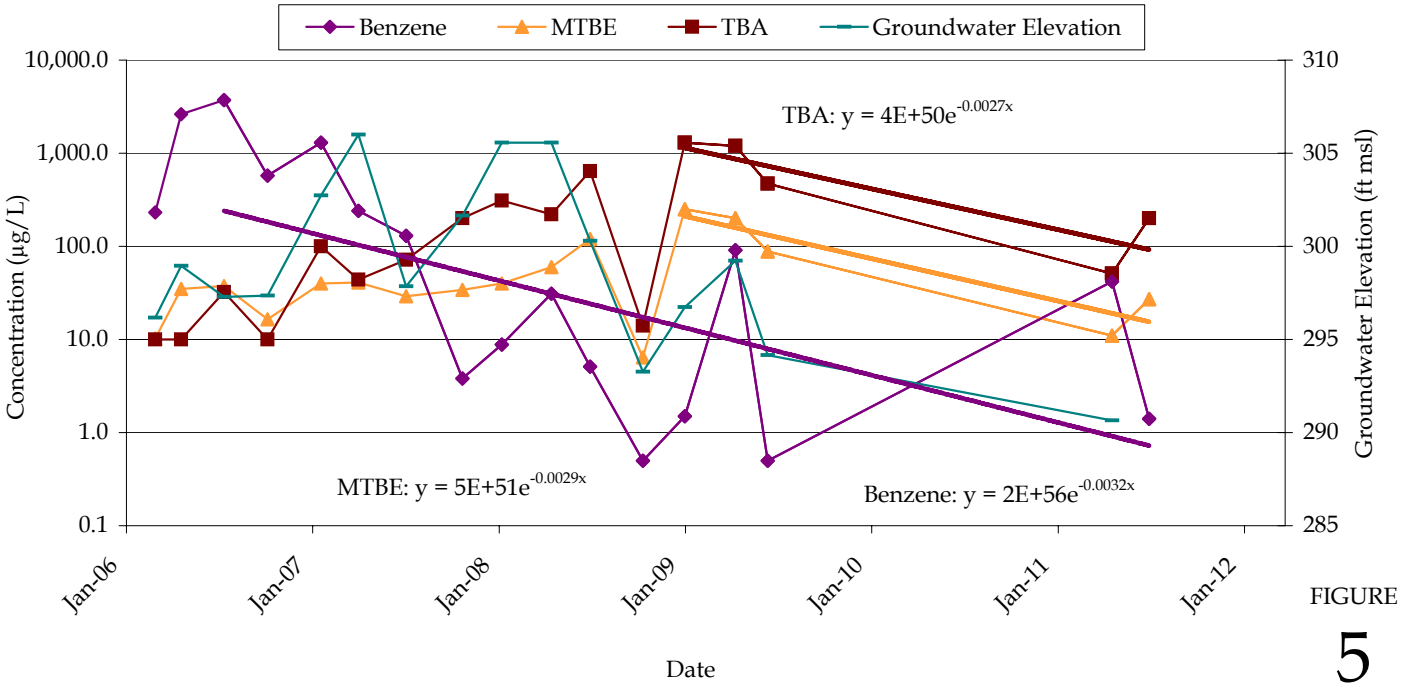


FIGURE 5

Shell-branded Service Station
1801 Santa Rita Road
Pleasanton, California

CONESTOGA-ROVERS & ASSOCIATES

MW-4A:
Benzene, MTBE, and TBA Concentrations and Groundwater Elevation

Predicted Time to Reach Water Quality Objectives (WQO) in Well MW-4A

Shell-branded Service Station, 1801 Santa Rita Road, Pleasanton, California

$y = b\,e^{ax}$ **===>** $x = \ln(y/b) / a$

where: y = concentration in µg/L, a = decay constant
b = concentration at time (x), x = time (x) in days

	Constituent	Total Petroleum Hydrocarbons as Diesel (TPHd)	Total Petroleum Hydrocarbons as Gasoline (TPHg)
Given			
WQO :	y	100	100
Constant:	b	1.10E+11	5.02E+28
Constant:	a	-5.14E-04	-1.50E-03
Starting date for current trend:		4/3/2007	7/12/2006
Calculate			
Attenuation Half Life (years):	(-ln(2)/a)/365.25	3.69	1.27
Estimated Date to Reach WQO:	(x = ln(y/b) / a)	Dec 2010	May 2012

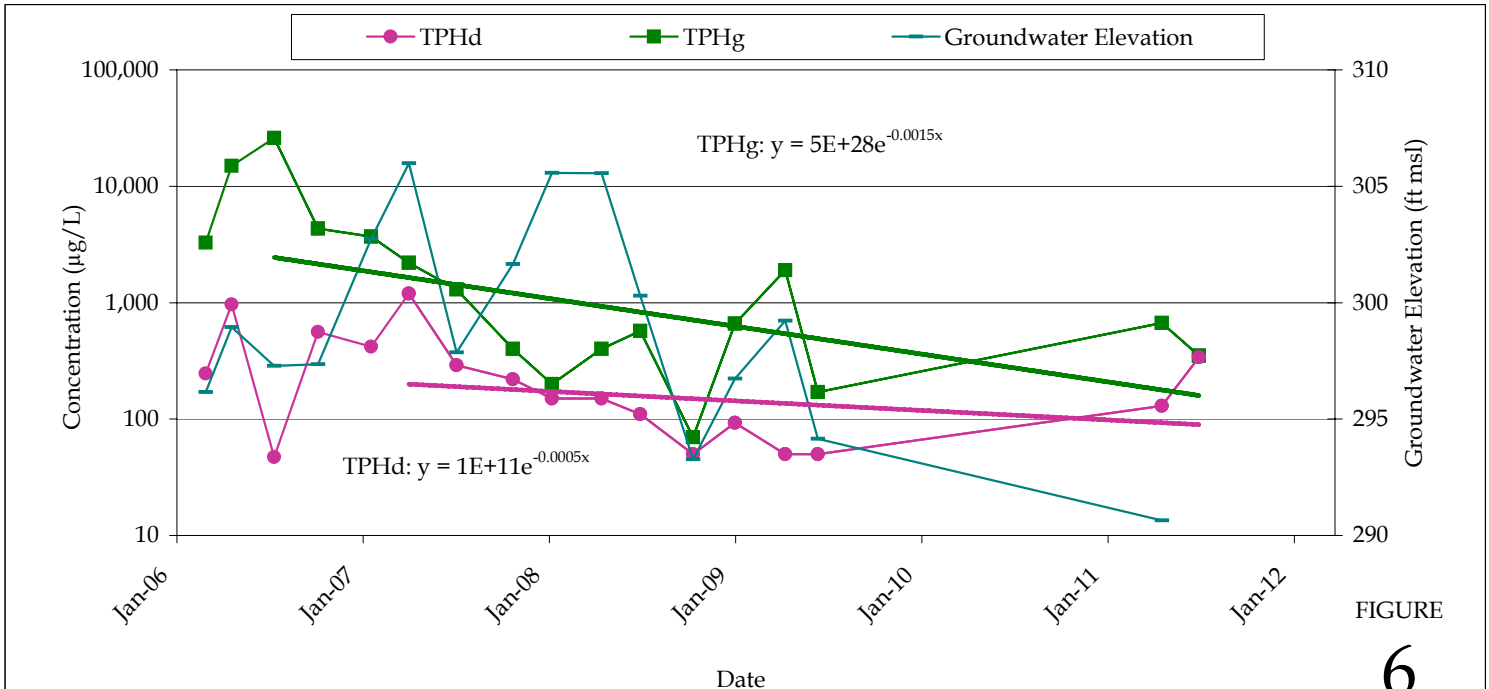
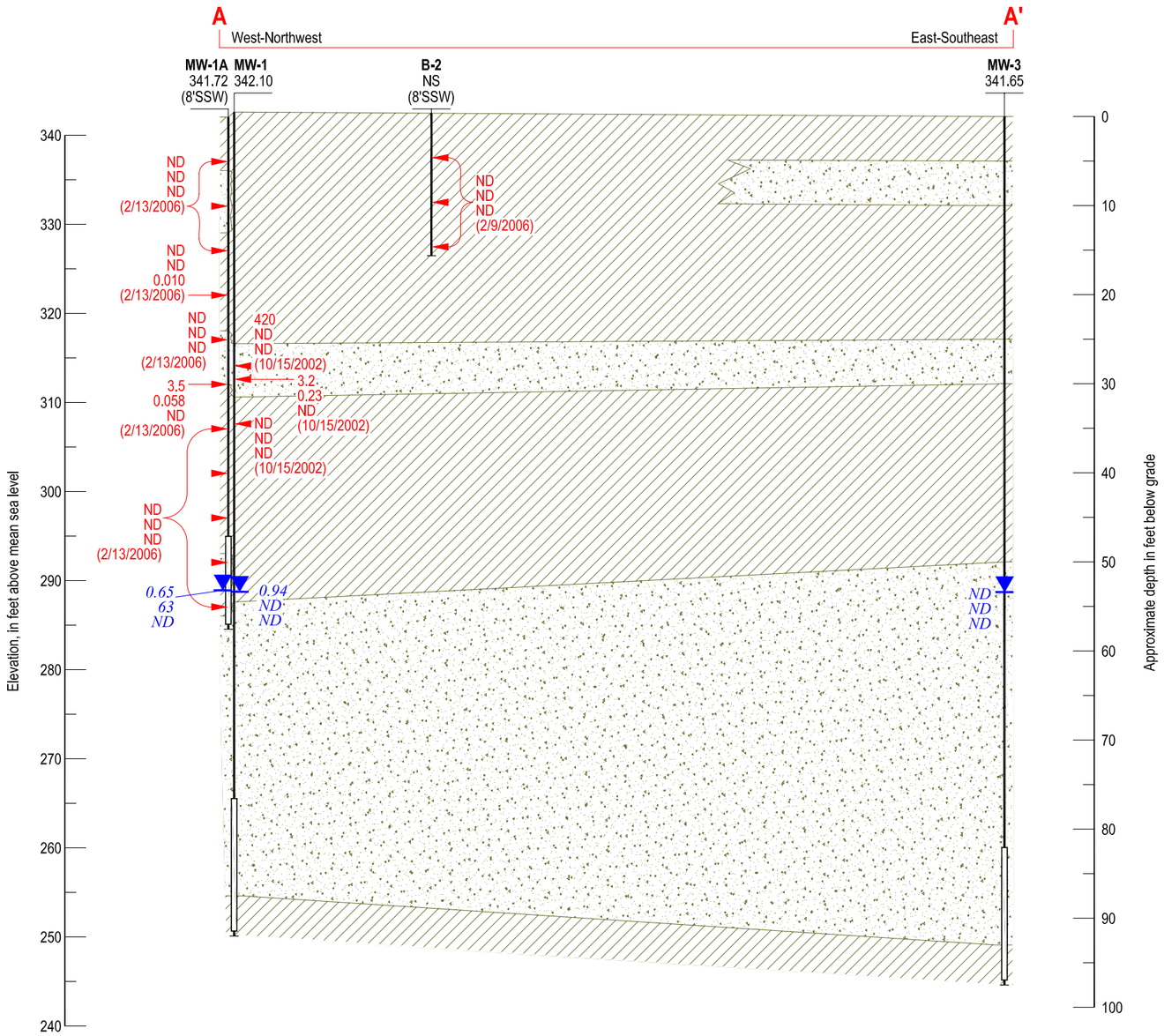


FIGURE 6

Shell-branded Service Station
1801 Santa Rita Road
Pleasanton, California

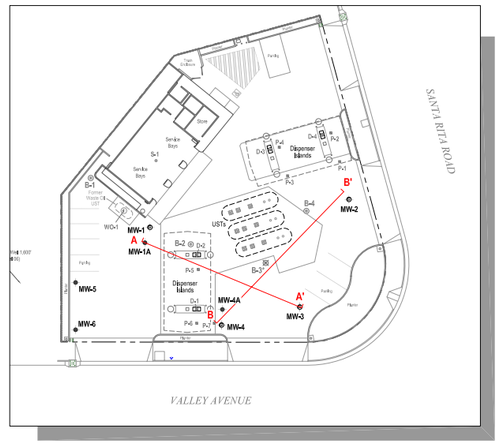
CONESTOGA-ROVERS & ASSOCIATES

MW-4A:
TPHg and TPHd Concentrations and Groundwater Elevation



EXPLANATION

- **ID** / Elev. / (offset) — Well or boring designation; Top of casing elevation, in feet above mean sea level (where available); Offset distance and direction to cross-section line
- **NS** — Not surveyed
- Groundwater monitoring well or soil boring
- Well screen interval
- Bottom of boring
- = Fine-Grained Soils
- = Coarse-Grained Soils
- Depth to static groundwater (7/7/2011)
- *Benzene / MTBE / TBA* — Groundwater well concentrations, in micrograms per liter (7/7-8/2011)
- *ND* — Not detected
- Benzene / MTBE / TBA (Date) — Approximate discrete grab groundwater sample location, concentrations in micrograms per liter, and sample date
- ND — Not detected
- TPHg / Benzene / MTBE (Date) — Approximate soil sample location, concentrations in milligrams per kilogram, and sample date
- ND — Not detected

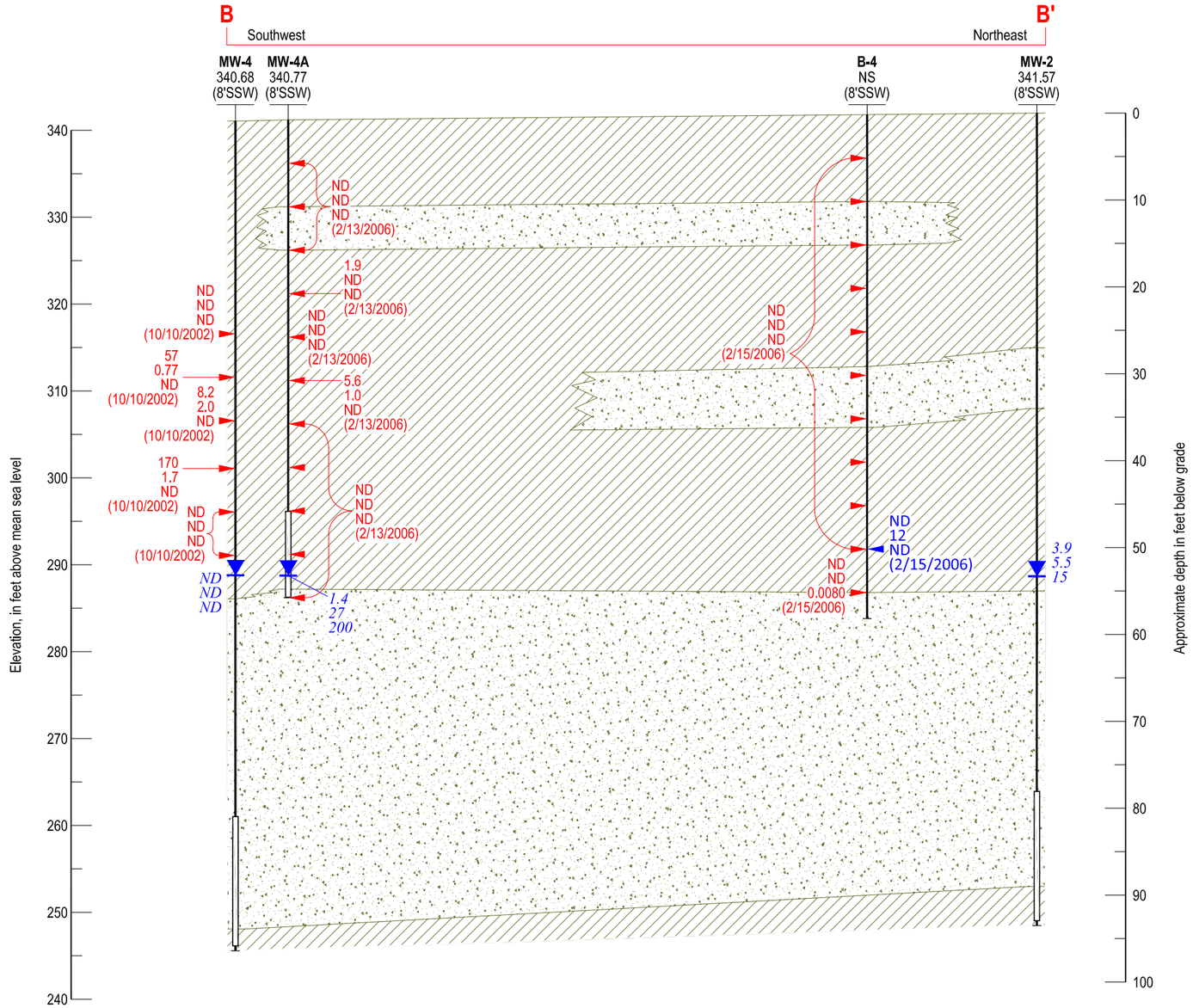


15
Scale (ft)
0
15

Figure 7

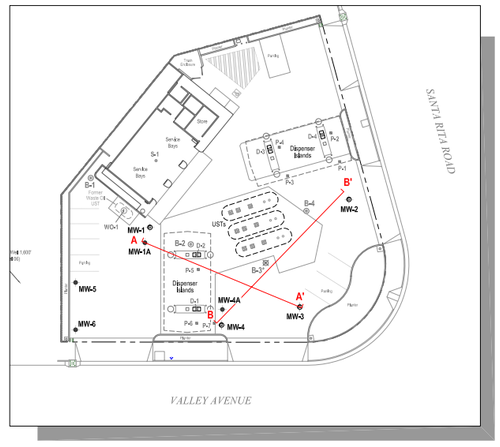
Geologic Cross Section A-A'
Shell-branded Service Station
1801 Santa Rita Road
Pleasanton, California

I:\Shell\6-chars\2012--\201232-Pleasanton 1801 Santa Rita\201232-FIGURES\201232 SITE PLAN (A-A').DWG (01/30/2011)



EXPLANATION

- **ID** / Elev. / (offset) — Well or boring designation; Top of casing elevation, in feet above mean sea level (where available); Offset distance and direction to cross-section line
- **NS** — Not surveyed
- Groundwater monitoring well or soil boring
- Well screen interval
- Bottom of boring
- = Fine-Grained Soils
- = Coarse-Grained Soils
- Depth to static groundwater (7/7/2011)
- *Benzene / MTBE / TBA* — Groundwater well concentrations, in micrograms per liter (7/7-8/2011)
- *ND* — Not detected
- Benzene / MTBE / TBA (Date) — Approximate discrete grab groundwater sample location, concentrations in micrograms per liter, and sample date
- ND — Not detected
- TPHg / Benzene / MTBE (Date) — Approximate soil sample location, concentrations in milligrams per kilogram, and sample date
- ND — Not detected



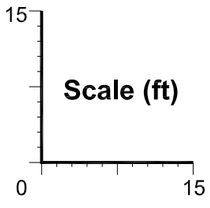


Figure 8

Geologic Cross Section B-B'
Shell-branded Service Station
1801 Santa Rita Road
Pleasanton, California

I:\Shell\6-chars\2012--\201232-Pleasanton 1801 Santa Rita\201232-FIGURES\201232 SITE PLAN (B-B').DWG (01/30/2011)

TABLES

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA - ORGANICS
SHELL-BRANDED SERVICE STATION
1801 SANTA RITA ROAD, PLEASANTON, CALIFORNIA

Sample ID	Date	Depth (fbg)	O&G Petroleum (mg/kg)	O&G Total (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	VOCs (mg/kg)	PNAs (mg/kg)	PCP (mg/kg)	PCBs (mg/kg)
MW-1	10/15/2002	28.5	---	---	---	**420**	<0.050	1.5	**5.1**	**37**	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
MW-1	10/15/2002	30	---	---	---	3.2	0.023	0.13	0.094	0.59	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
MW-1	10/16/2002	35	---	---	---	<1.0	<0.005	<0.005	<0.005	0.014	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
MW-4	10/10/2002	24.5	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
MW-4	10/10/2002	29.5	---	---	---	57	**0.77**	**3.7**	0.25	1.3	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
MW-4	10/10/2002	34.5	---	---	---	8.2	**2.0**	0.61	0.26	0.41	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
MW-4	10/10/2002	40	---	---	---	**170**	**1.7**	0.39	2.3	**9.6**	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
MW-4	10/10/2002	45	---	---	---	<1.0	0.0069	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
MW-4	10/10/2002	50	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.010	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
D-1	11/15/2002	3	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
D-2	11/15/2002	3.5	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
D-3	11/15/2002	3.5	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
D-4	11/15/2002	2.5	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
P-1	11/15/2002	3.5	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
P-2	11/15/2002	3	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
P-3	11/15/2002	5	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
P-4	11/15/2002	3	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
P-5	11/15/2002	4	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
P-6	11/15/2002	3	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
P-7	11/15/2002	3	---	---	---	<1.0	<0.005	<0.005	<0.005	<0.005	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---
S-1	4/19/2005	8.5	7,900 b	11, 000 b	**18,000 a**	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---	---	---
MW-1A	2/13/2006	5	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-1A	2/15/2006	10	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-1A	2/15/2006	15	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-1A	2/15/2006	20	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.010	0.0066	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-1A	2/15/2006	25	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.029	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-1A	2/15/2006	30	---	---	1.7 a	3.5	**0.058**	0.28	0.12	0.73	<0.0050	0.0054	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-1A	2/15/2006	35	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-1A	2/15/2006	40	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-1A	2/15/2006	45	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-1A	2/15/2006	50	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-1A	2/15/2006	55	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-4A	2/13/2006	5	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-4A	2/16/2006	10	---	---	<0.99	<0.96	<0.0048	<0.0048	<0.0048	<0.0096	<0.0048	<0.0096	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	---	---	---	---
MW-4A	2/16/2006	15	---	---	<0.99	<0.97	<0.0049	<0.0049	<0.0049	<0.0097	<0.0049	<0.0097	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	---	---	---	---
MW-4A	2/16/2006	20	---	---	<1.0	<0.99	<0.0049	<0.0049	<0.0049	<0.0097	<0.0049	<0.0099	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	---	---	---	---

TABLE 1

HISTORICAL SOIL ANALYTICAL DATA - ORGANICS
SHELL-BRANDED SERVICE STATION
1801 SANTA RITA ROAD, PLEASANTON, CALIFORNIA

Sample ID	Date	Depth (fbg)	O&G Petroleum (mg/kg)	O&G Total (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	VOCs (mg/kg)	PNAs (mg/kg)	PCP (mg/kg)	PCBs (mg/kg)
MW-4A	2/16/2006	25	---	---	<1.0	1.9	0.010	<0.0046	<0.0046	<0.0092	<0.0046	<0.0092	<0.0046	<0.0046	<0.0046	<0.0046	<0.0049	---	---	---	---
MW-4A	2/16/2006	30	---	---	<1.0	<49	<0.97	**6.2**	<0.97	**3.5**	<0.97	<1.9	<0.97	<0.97	<0.97	<0.97	<0.97	---	---	---	---
MW-4A	2/16/2006	35	---	---	<1.0	5.6	**1.0**	0.72	0.24	0.91	<0.0045	<0.0090	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	---	---	---	---
MW-4A	2/16/2006	40	---	---	<0.99	<0.93	<0.0046	<0.0046	<0.0046	<0.0093	<0.0046	<0.0093	<0.0093	<0.0046	<0.0046	<0.0046	<0.0046	---	---	---	---
MW-4A	2/16/2006	45	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-4A	2/16/2006	50	---	---	<1.0	<0.93	<0.0047	<0.0047	<0.0047	<0.0093	<0.0047	0.0097	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	---	---	---	---
MW-4A	2/16/2006	55	---	---	<1.0	<0.92	0.0055	0.0066	<0.0046	0.011	<0.0046	<0.0092	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	---	---	---	---
MW-5	2/13/2006	5	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-5	2/13/2006	10	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-5	2/13/2006	15	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-5	2/13/2006	20	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-5	2/13/2006	25	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-5	2/13/2006	30	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-5	2/13/2006	35	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-5	2/13/2006	40	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-5	2/13/2006	45	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-5	2/13/2006	50	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-1	2/9/2006	5	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-1	2/13/2006	10	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-1	2/13/2006	15	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-1	2/13/2006	20	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-1	2/13/2006	25	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-1	2/13/2006	30	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-1	2/13/2006	35	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-1	2/13/2006	40	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-1	2/13/2006	45	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-1	2/13/2006	50	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-1	2/13/2006	55	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-2	2/9/2006	5	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-2	2/9/2006	10	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-2	2/9/2006	15	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-4	2/15/2006	5	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-4	2/15/2006	10	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-4	2/15/2006	15	---	---	1.1 a	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-4	2/15/2006	20	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-4	2/15/2006	25	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-4	2/15/2006	30	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-4	2/15/2006	35	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---

HISTORICAL SOIL ANALYTICAL DATA - ORGANICS
SHELL-BRANDED SERVICE STATION
1801 SANTA RITA ROAD, PLEASANTON, CALIFORNIA

Sample ID	Date	Depth (fbg)	O&G Petroleum (mg/kg)	O&G Total (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	VOCs (mg/kg)	PNAs (mg/kg)	PCP (mg/kg)	PCBs (mg/kg)
B-4	2/15/2006	40	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-4	2/15/2006	45	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-4	2/15/2006	50	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
B-4	2/15/2006	55	---	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.0080	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---
MW-6	8/14/2007	15	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---	---	---	---
MW-6	8/14/2007	35	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---	---	---	---
MW-6	8/14/2007	50	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---	---	---	---
MW-6	8/14/2007	55	---	---	---	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	---	---	---	---	---	---	---	---	---
WO-1	2/13/2003	12	---	<500 c	6.5	0.19	<0.00096	<0.00096	<0.00096	<0.0019	<0.0019	<0.019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	ND	ND	<0.83	<0.099
Shallow Soil (≤10 fbg) ESL [d]:			NA	NA	83	83	0.044	2.9	3.3	2.3	0.023	0.075	NA	NA	NA	0.0045	0.00033	Varies	Varies	5.0	0.74
Deep Soil (>10 fbg) ESL [d]:			NA	NA	83	83	0.044	2.9	3.3	2.3	0.023	0.075	NA	NA	NA	0.0045	0.00033	Varies	Varies	99	6.3

Notes:
O&G = Oil & grease
TPHd = Total petroleum hydrocarbons as diesel analyzed by EPA Method 8015M
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B
MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B
TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B
DIPE = Di-isopropyl ether analyzed by EPA Method 8260B
ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B
1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B
EDB = 1,2-Dibromoethane analyzed by EPA Method 8260B
VOCs = Volatile organic compounds analyzed by EPA Method 5030B/8260B; see laboratory analytical report for a complete list of specific constituents
PNAs = Polynuclear aromatics by EPA Method 8270C; see laboratory analytical report for a complete list of specific constituents
PCP = Pentachlorophenol by EPA Method 8270C
PCBs = Polychlorinated biphenyls by EPA Method 8082; see laboratory analytical report for a complete list of specific constituents
fbg = Feet below grade
mg/kg = Milligrams per kilogram
<x = Not detected at reporting limit x
--- = Not analyzed
ND = Not detected; see laboratory analytical report for detection limits.
ESL = Environmental screening level
Results in **bold** equal or exceed applicable ESL
NA = No applicable ESL

a = Hydrocarbon reported does not match the diesel standard
b = Analyzed by EPA Method 1664M

HISTORICAL SOIL ANALYTICAL DATA - ORGANICS
SHELL-BRANDED SERVICE STATION
1801 SANTA RITA ROAD, PLEASANTON, CALIFORNIA

Sample ID	Date	Depth (fbg)	O&G Petroleum (mg/kg)	O&G Total (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	1,2-DCA (mg/kg)	EDB (mg/kg)	VOCs (mg/kg)	PNAs (mg/kg)	PCP (mg/kg)	PCBs (mg/kg)

c = Analyzed by EPA Method 413.1 (Modified)
d = San Francisco Bay Regional Water Quality Control Board commercial/industrial ESL for soil where groundwater is a potential source of drinking water (Tables A and C *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater,* California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]).

TABLE 2

HISTORICAL SOIL ANALYTICAL DATA - METALS
SHELL-BRANDED SERVICE STATION
1801 SANTA RITA ROAD, PLEASANTON, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*Cd (mg/kg)*	*Cr (mg/kg)*	*Pb (mg/kg)*	*Ni (mg/kg)*	*Zn (mg/kg)*
D-1	11/15/2002	3	---	---	10.9	---	---
D-2	11/15/2002	3.5	---	---	11.6	---	---
D-3	11/15/2002	3.5	---	---	11.3	---	---
D-4	11/15/2002	2.5	---	---	21.6	---	---
P-1	11/15/2002	3.5	---	---	19.5	---	---
P-2	11/15/2002	3	---	---	8.33	---	---
P-3	11/15/2002	5	---	---	6.73	---	---
P-4	11/15/2002	3	---	---	12.5	---	---
P-5	11/15/2002	4	---	---	10.7	---	---
P-6	11/15/2002	3	---	---	10.5	---	---
P-7	11/15/2002	3	---	---	12.4	---	---
S-1	4/19/2005	8.5	0.98	23	17	36	40
MW-1A	2/13/2006	5	---	---	6.8	---	---
MW-1A	2/15/2006	10	---	---	4.8	---	---
MW-1A	2/15/2006	15	---	---	6.6	---	---
MW-1A	2/15/2006	20	---	---	6.3	---	---
MW-1A	2/15/2006	25	---	---	7.5	---	---
MW-1A	2/15/2006	30	---	---	6.1	---	---
MW-1A	2/15/2006	35	---	---	8.4	---	---
MW-1A	2/15/2006	40	---	---	7.9	---	---
MW-1A	2/15/2006	45	---	---	7.9	---	---
MW-1A	2/15/2006	50	---	---	5.1	---	---
MW-1A	2/15/2006	55	---	---	5.1	---	---
MW-4A	2/13/2006	5	---	---	7.1	---	---
MW-4A	2/16/2006	10	---	---	5.2	---	---
MW-4A	2/16/2006	15	---	---	7.3	---	---
MW-4A	2/16/2006	20	---	---	6.6	---	---
MW-4A	2/16/2006	25	---	---	6.7	---	---
MW-4A	2/16/2006	30	---	---	7.5	---	---
MW-4A	2/16/2006	35	---	---	8.1	---	---
MW-4A	2/16/2006	40	---	---	7.7	---	---
MW-4A	2/16/2006	45	---	---	7.5	---	---
MW-4A	2/16/2006	50	---	---	5.6	---	---
MW-4A	2/16/2006	55	---	---	1.9	---	---
MW-5	2/13/2006	5	---	---	7.6	---	---
MW-5	2/13/2006	10	---	---	5.9	---	---
MW-5	2/13/2006	15	---	---	5.4	---	---
MW-5	2/13/2006	20	---	---	5.3	---	---
MW-5	2/13/2006	25	---	---	7.5	---	---
MW-5	2/13/2006	30	---	---	8.2	---	---

TABLE 2

HISTORICAL SOIL ANALYTICAL DATA - METALS
SHELL-BRANDED SERVICE STATION
1801 SANTA RITA ROAD, PLEASANTON, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*Cd (mg/kg)*	*Cr (mg/kg)*	*Pb (mg/kg)*	*Ni (mg/kg)*	*Zn (mg/kg)*
MW-5	2/13/2006	35	---	---	8.1	---	---
MW-5	2/13/2006	40	---	---	7.3	---	---
MW-5	2/13/2006	45	---	---	6.0	---	---
MW-5	2/13/2006	50	---	---	3.7	---	---
B-1	2/9/2006	5	---	---	5.9	---	---
B-1	2/13/2006	10	---	---	3.5	---	---
B-1	2/13/2006	15	---	---	6.3	---	---
B-1	2/13/2006	20	---	---	6.0	---	---
B-1	2/13/2006	25	---	---	5.8	---	---
B-1	2/13/2006	30	---	---	4.6	---	---
B-1	2/13/2006	35	---	---	6.3	---	---
B-1	2/13/2006	40	---	---	7.4	---	---
B-1	2/13/2006	45	---	---	6.1	---	---
B-1	2/13/2006	50	---	---	3.1	---	---
B-1	2/13/2006	55	---	---	7.4	---	---
B-2	2/9/2006	5	---	---	7.1	---	---
B-2	2/9/2006	10	---	---	4.8	---	---
B-2	2/9/2006	15	---	---	4.8	---	---
B-4	2/15/2006	5	---	---	7.5	---	---
B-4	2/15/2006	10	---	---	5.8	---	---
B-4	2/15/2006	15	---	---	5.8	---	---
B-4	2/15/2006	20	---	---	6.1	---	---
B-4	2/15/2006	25	---	---	7.0	---	---
B-4	2/15/2006	30	---	---	5.2	---	---
B-4	2/15/2006	35	---	---	8.5	---	---
B-4	2/15/2006	40	---	---	7.4	---	---
B-4	2/15/2006	45	---	---	7.9	---	---
B-4	2/15/2006	50	---	---	6.0	---	---
B-4	2/15/2006	55	---	---	4.3	---	---
WO-1	2/13/2003	12	<0.50	62	6.2	91	42
Shallow Soil (≤10 fbg) ESL [a]:			7.4	750	750	150	600
Deep Soil (>10 fbg) ESL [a]:			39	5,000	750	260	5,000

Notes:
Cd = Cadmium by EPA Method 6010B
Cr = Chromium by EPA Method 6010B
Pb = Lead by EPA Method 6010B
Ni = Nickel by EPA Method 6010B
Zn = Zinc by EPA Method 6010B
fbg = Feet below grade

TABLE 2

HISTORICAL SOIL ANALYTICAL DATA - METALS
SHELL-BRANDED SERVICE STATION
1801 SANTA RITA ROAD, PLEASANTON, CALIFORNIA

Sample ID	*Date*	*Depth (fbg)*	*Cd (mg/kg)*	*Cr (mg/kg)*	*Pb (mg/kg)*	*Ni (mg/kg)*	*Zn (mg/kg)*

mg/kg = Milligrams per kilogram
<x = Not detected at reporting limit x
--- = Not analyzed
ESL = Environmental screening level

a = San Francisco Bay Regional Water Quality Control Board commercial/industrial ESL for soil where groundwater is a potential source of drinking water (Tables A and C of *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]).

TABLE 3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
1801 SANTA RITA ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	Total O&G (mg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TDS (mg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-1	12/12/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	85.83	---
MW-1	12/20/2002	---	<50 c	<50	<0.50	<0.50	<0.50	0.71	<0.50	<50	<2.0	<2.0	<2.0	---	---	---	---	85.60	---
MW-1	03/31/2003	---	75 c	<50	<0.50	<0.50	<0.50	<1.0	<5.0	---	---	---	---	---	---	---	342.10	77.36	264.74
MW-1	06/26/2003	---	<50 c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	342.10	72.48	269.62
MW-1	09/15/2003	---	<50 c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	342.10	79.03	263.07
MW-1	12/31/2003	---	<50 c	<50	<0.50	0.99	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	342.10	70.57	271.53
MW-1	03/08/2004	---	<50 c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	342.10	65.95	276.15
MW-1	06/16/2004	---	<50 c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	342.10	66.50	275.60
MW-1	04/14/2005	---	<50 c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	342.10	55.97	286.13
MW-1	10/20/2005	---	330 k/190 k	<50	0.86	<0.50	<0.50	1.2	0.87	<5.0	<2.0	<2.0	<2.0	---	---	---	342.10	56.51	285.59
MW-1	02/27/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	342.10	45.93	296.17
MW-1	04/19/2006	---	<47.2	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	---	---	---	342.10	43.15	298.95
MW-1	07/12/2006	---	53.1	<50.0	<0.500	<0.500	<0.500	<1.5	<0.500	<10.0	<0.500	<0.500	<0.500	---	---	---	342.10	44.80	297.30
MW-1	10/06/2006	---	76 a	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	---	---	---	342.10	44.65	297.45
MW-1	01/19/2007	---	71	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	---	---	---	342.10	39.39	302.71
MW-1	04/03/2007	---	150 a	51 i	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	342.10	36.12	305.98
MW-1	07/06/2007	---	<50	<50 i	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	342.10	44.15	297.95
MW-1	10/25/2007	---	<50	<50 i	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	342.10	40.39	301.71
MW-1	01/10/2008	---	<50	<50 i	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	342.10	36.57	305.53
MW-1	04/17/2008	---	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	342.10	36.51	305.59
MW-1	07/02/2008	---	84 a	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	342.10	41.90	300.20
MW-1	10/14/2008	---	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	666	342.10	48.71	293.39
MW-1	01/05/2009	---	300 a	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	342.10	45.40	296.70
MW-1	04/14/2009	---	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	342.10	42.92	299.18
MW-1	10/06/2009	---	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	---	---	---	---	---	---	342.10	60.70	281.40
MW-1	04/02/2010	---	<50	<50	<0.50	<1.0	<1.0	<1.0	1.1	<10	---	---	---	---	---	---	342.10	54.91	287.19
MW-1	10/13/2010	---	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	---	---	---	---	---	---	342.10	59.77	282.33
MW-1	04/26/2011	---	<47	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	---	---	---	---	---	---	342.10	51.34	290.76
MW-1	07/07/2011	---	97 k	<50	0.94	<0.50	<0.50	<1.0	<1.0	<10	---	---	---	---	---	---	342.10	53.35	288.75
MW-1	**10/03/2011**	**---**	**130**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<1.0**	**<10**	**---**	**---**	**---**	**---**	**---**	**---**	**342.10**	**65.35**	**276.75**
MW-1A	02/23/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.72	46.95	294.77
MW-1A	02/27/2006	---	55.9	<50.0	4.04	<0.500	<0.500	2.02	3.32	12.5	<0.500	<0.500	<0.500	---	---	---	341.72	45.56	296.16
MW-1A	04/19/2006	---	119	<50.0	1.05	0.990	<0.500	<0.500	1.41	<10.0	<0.500	<0.500	<0.500	---	---	---	341.72	42.78	298.94
MW-1A	07/12/2006	<5.21	79.6	<50.0	<0.500	<0.500	<0.500	<1.5	9.82	19.1	<0.500	<0.500	<0.500	---	---	---	341.72	44.41	297.31
MW-1A	10/06/2006	3.7	90 a	<50.0	<1.00	<1.00	<1.00	<3.00	7.27	<10.0	<1.00	<1.00	<1.00	---	---	---	341.72	44.22	297.50
MW-1A	01/19/2007	<2.4	64	<50	<0.50	<0.50	<0.50	<0.50	15	24	<0.50	<0.50	<0.50	---	---	---	341.72	38.94	302.78

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
1801 SANTA RITA ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	Total O&G (mg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TDS (mg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-1A	04/03/2007	2.3	210	<50 i	0.74	<1.0	<1.0	<1.0	14	<10	<2.0	<2.0	<2.0	---	---	---	341.72	35.67	306.05
MW-1A	07/06/2007	1.3	68	<50 i	0.76	<1.0	<1.0	<1.0	38	63	<2.0	<2.0	<2.0	---	---	---	341.72	43.72	298.00
MW-1A	10/25/2007	<1.0	<50	<50 i	<0.50	<1.0	<1.0	<1.0	30	29	<2.0	<2.0	<2.0	---	---	---	341.72	39.89	301.83
MW-1A	01/10/2008	<1.0	100 a	<50 i	<0.50	<1.0	<1.0	<1.0	23	<10	<2.0	<2.0	<2.0	---	---	---	341.72	36.06	305.66
MW-1A	04/17/2008	<1.0	<50	<50 i	<0.50	<1.0	<1.0	<1.0	38	24	<2.0	<2.0	<2.0	---	---	---	341.72	36.13	305.59
MW-1A	07/02/2008	3.0	200 a	110	<0.50	<1.0	<1.0	<1.0	65	75	<2.0	<2.0	<2.0	<0.50	<1.0	---	341.72	41.28	300.44
MW-1A	10/14/2008	2.6	<50	440	<0.50	<1.0	<1.0	<1.0	210	300	<2.0	<2.0	<2.0	1.5	<1.0	1,000	341.72	48.16	293.56
MW-1A	01/05/2009	1.5	<50	430	<0.50	<1.0	<1.0	<1.0	290	710	<2.0	<2.0	<2.0	2.3	<1.0	---	341.72	44.85	296.87
MW-1A	04/14/2009	2.4	<50	180	<1.0	<2.0	<2.0	<2.0	80	120	<4.0	<4.0	<4.0	<1.0	<2.0	---	341.72	42.40	299.32
MW-1A	10/06/2009	Insufficient water		---	---	---	---	---	---	---	---	---	---	---	---	---	341.72	57.10	284.62
MW-1A	04/02/2010	---	<50	94	<0.50	<1.0	<1.0	<1.0	65	<10	---	---	---	---	---	---	341.72	54.55	287.17
MW-1A	10/13/2010	Insufficient water		---	---	---	---	---	---	---	---	---	---	---	---	---	341.72	56.94	284.78
MW-1A	04/26/2011	<5.0	<47	<50	<0.50	<0.50	<0.50	<1.0	11	<10	---	---	---	---	---	---	341.72	50.98	290.74
MW-1A	07/07/2011	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.72	52.81	288.91
MW-1A	07/08/2011	<5.0	<47	58 k	0.65	1.9	<0.50	2.2	63	<10	---	---	---	---	---	---	341.72	---	---
MW-1A	**10/03/2011**	**Insufficient water**		**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**341.72**	**56.87**	**284.85**
MW-2	12/12/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	85.15	---
MW-2	12/20/2002	---	<50 c	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<2.0	<2.0	<2.0	---	---	---	---	85.00	---
MW-2	03/31/2003	---	63 c	<50	<0.50	0.71	<0.50	<1.0	<5.0	---	---	---	---	---	---	---	341.57	76.63	264.94
MW-2	06/26/2003	---	<50 c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	341.57	71.94	269.63
MW-2	09/15/2003	---	<50 c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	341.57	78.41	263.16
MW-2	12/31/2003	---	120 a,c	<50	<0.50	1.3	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	341.57	69.96	271.61
MW-2	03/08/2004	---	110 a,c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	341.57	65.34	276.23
MW-2	06/16/2004	---	90 a,c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	341.57	65.86	275.71
MW-2	04/14/2005	---	77 a,c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	341.57	55.35	286.22
MW-2	10/20/2005	---	75 a/<50	<50	<0.50	<0.50	<0.50	<1.0	0.54	<5.0	<2.0	<2.0	<2.0	---	---	---	341.57	55.89	285.68
MW-2	02/27/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.57	45.30	296.27
MW-2	04/19/2006	---	80.1	<50.0	<0.500	<0.500	<0.500	<0.500	0.630	<10.0	<0.500	<0.500	<0.500	---	---	---	341.57	42.56	299.01
MW-2	07/12/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.57	44.20	297.37
MW-2	10/06/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.57	44.07	297.50
MW-2	01/19/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.57	38.79	302.78
MW-2	04/03/2007	---	190	<50 i	<0.50	<1.0	<1.0	<1.0	0.77 j	<10	<2.0	<2.0	<2.0	---	---	---	341.57	35.54	306.03
MW-2	07/06/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.57	43.54	298.03
MW-2	10/25/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.57	39.77	301.80
MW-2	01/10/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.57	35.95	305.62
MW-2	04/17/2008	---	57	<50	<0.50	<1.0	<1.0	<1.0	1.2	<10	<2.0	<2.0	<2.0	---	---	---	341.57	35.90	305.67

TABLE 3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
1801 SANTA RITA ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	Total O&G (mg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TDS (mg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-2	07/02/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.57	41.20	300.37
MW-2	10/14/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.57	48.03	293.54
MW-2	01/05/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.57	44.67	296.90
MW-2	04/14/2009	---	<50	<50	<0.50	<1.0	<1.0	<1.0	1.0	<10	<2.0	<2.0	<2.0	---	---	---	341.57	42.25	299.32
MW-2	10/06/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.57	59.94	281.63
MW-2	04/02/2010	---	67	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	341.57	54.31	287.26
MW-2	10/13/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.57	59.15	282.42
MW-2	04/26/2011	---	75 k	<50	<0.50	<0.50	<0.50	<1.0	1.0	<10	---	---	---	---	---	---	341.57	50.91	290.66
MW-2	07/07/2011	---	230 k	<50	3.9	4.8	<0.50	3.6	5.5	15	---	---	---	---	---	---	341.57	52.90	288.67
MW-2	**10/03/2011**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**341.57**	**64.98**	**276.59**
MW-3	12/12/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	85.49	---
MW-3	12/20/2002	---	<50 c	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<2.0	<2.0	<2.0	---	---	---	---	85.25	---
MW-3	03/31/2003	---	<50 c	<50	<0.50	<0.50	<0.50	<1.0	<5.0	---	---	---	---	---	---	---	341.65	76.81	264.84
MW-3	06/26/2003	---	80 a,c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	341.65	72.05	269.60
MW-3	09/15/2003	---	<50 c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	341.65	78.52	263.13
MW-3	12/31/2003	---	<50 c	<50	<0.50	1.2	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	341.65	70.15	271.50
MW-3	03/08/2004	---	<50 c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	341.65	65.46	276.19
MW-3	06/16/2004	---	<50 c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	341.65	65.87	275.78
MW-3	04/14/2005	---	<50 c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	341.65	55.50	286.15
MW-3	10/20/2005	---	55 a/<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	341.65	55.97	285.68
MW-3	02/27/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.65	45.45	296.20
MW-3	04/19/2006	---	200	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	20.2	<0.500	<0.500	<0.500	---	---	---	341.65	42.67	298.98
MW-3	07/12/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.65	44.32	297.33
MW-3	10/06/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.65	44.19	297.46
MW-3	01/19/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.65	38.98	302.67
MW-3	04/03/2007	---	140	<50 i	0.21 j	<1.0	<1.0	<1.0	0.29 j	<10	<2.0	<2.0	<2.0	---	---	---	341.65	35.72	305.93
MW-3	07/06/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.65	43.69	297.96
MW-3	10/25/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.65	39.90	301.75
MW-3	01/10/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.65	36.12	305.53
MW-3	04/17/2008	---	95	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	341.65	36.02	305.63
MW-3	07/02/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.65	41.35	300.30
MW-3	10/14/2008	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.65	48.24	293.41
MW-3	01/05/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.65	44.79	296.86
MW-3	04/14/2009	---	73	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	341.65	42.35	299.30
MW-3	10/06/2009	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.65	60.08	281.57
MW-3	04/02/2010	---	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	---	---	---	---	---	---	341.65	54.47	287.18

TABLE 3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
1801 SANTA RITA ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	Total O&G (mg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TDS (mg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-3	10/13/2010	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	341.65	59.25	282.40
MW-3	04/26/2011	---	91 k	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	---	---	---	---	---	---	341.65	51.23	290.42
MW-3	07/07/2011	---	130 k	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	---	---	---	---	---	---	341.65	52.94	288.71
MW-3	**10/03/2011**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**341.65**	**64.90**	**276.75**
MW-4	12/12/2002	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	84.36	---
MW-4	12/20/2002	---	69 c	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<50	<2.0	<2.0	<2.0	---	---	---	---	84.15	---
MW-4	03/31/2003	---	70 c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	---	---	---	---	---	---	---	340.68	75.90	264.78
MW-4	06/26/2003	---	86 a,c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	340.68	71.01	269.67
MW-4	09/15/2003	---	120 a,c	<50	1.0	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	340.68	77.57	263.11
MW-4	12/31/2003	---	<50 c	<50	<0.50	0.64	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	340.68	69.15	271.53
MW-4	03/08/2004	---	<50 c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	340.68	64.51	276.17
MW-4	06/16/2004	---	<50 c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	340.68	65.04	275.64
MW-4	04/14/2005	---	<50 c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	340.68	54.53	286.15
MW-4	10/20/2005	---	<50 c	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	---	---	---	340.68	55.05	285.63
MW-4	02/27/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	340.68	44.49	296.19
MW-4	04/19/2006	---	265	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	---	---	---	340.68	41.72	298.96
MW-4	07/12/2006	---	652	<50.0	<0.500	<0.500	<0.500	<1.5	<0.500	<10.0	<0.500	<0.500	<0.500	---	---	---	340.68	43.34	297.34
MW-4	10/06/2006	---	320 a	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	---	---	---	340.68	43.23	297.45
MW-4	01/19/2007	---	79	<50	<0.50	<0.50	<0.50	0.88	<0.50	<20	<0.50	<0.50	<0.50	---	---	---	340.68	38.12	302.56
MW-4	04/03/2007	---	1,200 a	<50 i	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	340.68	34.55	306.13
MW-4	07/06/2007	---	<50	<50 i	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	340.68	42.75	297.93
MW-4	10/25/2007	---	1,400 a	<50 i	<0.50	0.30 j	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	340.68	38.92	301.76
MW-4	01/10/2008	---	<50	<50 i	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	340.68	35.22	305.46
MW-4	04/17/2008	---	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	340.68	35.03	305.65
MW-4	07/02/2008	---	59 a	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	340.68	40.53	300.15
MW-4	10/14/2008	---	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	686	340.68	47.43	293.25
MW-4	01/05/2009	---	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	340.68	44.00	296.68
MW-4	04/14/2009	---	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	340.68	41.43	299.25
MW-4	10/06/2009	---	72 a	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	---	---	---	---	---	---	340.68	59.10	281.58
MW-4	04/02/2010	---	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	---	---	---	---	---	---	340.68	53.57	287.11
MW-4	10/13/2010	---	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	---	---	---	---	---	---	340.68	58.30	282.38
MW-4	04/26/2011	---	71	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	---	---	---	---	---	---	340.68	50.02	290.66
MW-4	07/07/2011	---	88 k	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	---	---	---	---	---	---	340.68	51.89	288.79
MW-4	**10/03/2011**	**---**	**91**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<1.0**	**<10**	**---**	**---**	**---**	**---**	**---**	**---**	**340.68**	**63.85**	**276.83**
MW-4A	02/23/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	340.77	46.55	294.22

TABLE 3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
1801 SANTA RITA ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	Total O&G (mg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TDS (mg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-4A	02/27/2006	---	246	3,280	232	135	27.2	306	10.2	<10.0	<0.500	<0.500	<0.500	---	---	---	340.77	44.61	296.16
MW-4A	04/19/2006	---	967	15,000	2,620	1,280	518	1,460	34.9	<10.0	<0.500	<0.500	<0.500	---	---	---	340.77	41.82	298.95
MW-4A	07/12/2006	---	<47.2	25,900	3,720	749	728	1,770	37.6	32.2	<0.500	<0.500	<0.500	---	---	---	340.77	43.48	297.29
MW-4A	10/06/2006	---	560 a	4,340	573	14.9	193	132	16.4	<10.0	<1.00	<1.00	<1.00	---	---	---	340.77	43.42	297.35
MW-4A	01/19/2007	---	420	3,700	1,300 e,f,g	150	350	400	40	<100	<2.5	<2.5	<2.5	---	---	---	340.77	38.03	302.74
MW-4A	04/03/2007	---	1,200	2,200 i	240	5.0	240	9.4	41	44	<2.0	<2.0	<2.0	---	---	---	340.77	34.78	305.99
MW-4A	07/06/2007	---	290	1,300 i	130	6.5	130	40.7	29	72	<2.0	<2.0	<2.0	---	---	---	340.77	42.91	297.86
MW-4A	10/25/2007	---	220 a	400 i	3.8	0.50 j	3.7	1.37 j	34	200	<2.0	<2.0	<2.0	---	---	---	340.77	39.12	301.65
MW-4A	01/10/2008	---	150 a	200 i	8.8	0.75 j	2.4	0.37 j	40	310	<2.0	<2.0	<2.0	---	---	---	340.77	35.20	305.57
MW-4A	04/17/2008	---	150 a	400 i	31	3.4	5.6	1.9	60	220	<2.0	<2.0	<2.0	---	---	---	340.77	35.21	305.56
MW-4A	07/02/2008	---	110 a	570	5.1	<1.0	<1.0	<1.0	120	640	<2.0	<2.0	<2.0	7.6	<1.0	---	340.77	40.48	300.29
MW-4A	10/14/2008	---	<50	70	<0.50	<1.0	<1.0	<1.0	6.4	14	<2.0	<2.0	<2.0	<0.50	<1.0	814	340.77	47.50	293.27
MW-4A	01/05/2009	---	93 a	660	1.5	<1.0	<1.0	<1.0	250	1,300	<2.0	<2.0	<2.0	4.7	<1.0	---	340.77	44.04	296.73
MW-4A	04/14/2009	---	<50	1,900	91	30	61	130	200	1,200	<2.0	<2.0	<2.0	<0.50	<1.0	---	340.77	41.55	299.22
MW-4A	06/17/2009	---	<50	170	<0.50	<1.0	<1.0	<1.0	88	470	<2.0	<2.0	<2.0	2.6	<1.0	---	340.77	46.62	294.15
MW-4A	10/06/2009	Insufficient water		---	---	---	---	---	---	---	---	---	---	---	---	---	340.77	54.41	286.36
MW-4A	04/02/2010	Insufficient water		---	---	---	---	---	---	---	---	---	---	---	---	---	340.77	53.65	287.12
MW-4A	10/13/2010	Insufficient water		---	---	---	---	---	---	---	---	---	---	---	---	---	340.77	54.35	286.42
MW-4A	04/26/2011	---	130 k	670	42	<0.50	<0.50	<1.0	11	51	---	---	---	---	---	---	340.77	50.12	290.65
MW-4A	07/07/2011	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	340.77	52.02	288.75
MW-4A	07/08/2011	---	340	350	1.4	<0.50	<0.50	<1.0	27	200	---	---	---	---	---	---	340.77	---	---
MW-4A	**10/03/2011**	**Insufficient water**		---	---	---	---	---	---	---	---	---	---	---	---	---	**340.77**	**54.34**	**286.43**
MW-5	02/23/2006	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	340.86	45.10	295.76
MW-5	02/27/2006	---	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	---	---	---	340.86	44.69	296.17
MW-5	04/19/2006	---	<47.2	<50.0	0.810	0.810	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	---	---	---	340.86	41.95	298.91
MW-5	07/12/2006	---	71.6	<50.0	<0.500	<0.500	<0.500	<1.5	<0.500	<10.0	<0.500	<0.500	<0.500	---	---	---	340.86	43.44	297.42
MW-5	10/06/2006	---	260 a	<50.0	<1.00	<1.00	<1.00	<3.00	<1.00	<10.0	<1.00	<1.00	<1.00	---	---	---	340.86	43.46	297.40
MW-5	01/19/2007	---	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<20	<0.50	<0.50	<0.50	---	---	---	340.86	38.09	302.77
MW-5	04/03/2007	---	120 a	<50 i	<0.50	<1.0	<1.0	<1.0	0.34 j	<10	<2.0	<2.0	<2.0	---	---	---	340.86	34.91	305.95
MW-5	07/06/2007	---	<50	<50 i	<0.50	<1.0	<1.0	<1.0	1.3	<10	<2.0	<2.0	<2.0	---	---	---	340.86	42.95	297.91
MW-5	10/25/2007	---	<50	<50 i	<0.50	0.34 j	<1.0	<1.0	1.7	<10	<2.0	<2.0	<2.0	---	---	---	340.86	39.16	301.70
MW-5	01/10/2008	---	82	<50 i	<0.50	<1.0	<1.0	<1.0	1.1	<10	<2.0	<2.0	<2.0	---	---	---	340.86	35.30	305.56
MW-5	04/17/2008	---	<50	<50 i	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	340.86	35.42	305.44
MW-5	07/02/2008	---	<50	<50	<0.50	<1.0	<1.0	<1.0	3.2	<10	<2.0	<2.0	<2.0	<0.50	<1.0	---	340.86	40.66	300.20
MW-5	10/14/2008	---	<50	59	<0.50	<1.0	<1.0	<1.0	22	<10	<2.0	<2.0	<2.0	<0.50	<1.0	963	340.86	47.60	293.26
MW-5	01/05/2009	---	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	---	340.86	44.16	296.70

TABLE 3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
1801 SANTA RITA ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	Total O&G (mg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TDS (mg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-5	04/14/2009	---	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	<0.50	<1.0	---	340.86	41.73	299.13
MW-5	10/06/2009	Insufficient water		---	---	---	---	---	---	---	---	---	---	---	---	---	340.86	54.21	286.65
MW-5	04/02/2010	Insufficient water		---	---	---	---	---	---	---	---	---	---	---	---	---	340.86	53.68	287.18
MW-5	10/13/2010	Insufficient water		---	---	---	---	---	---	---	---	---	---	---	---	---	340.86	54.02	286.84
MW-5	04/26/2011	---	<48	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	---	---	---	---	---	---	340.86	50.18	290.68
MW-5	07/07/2011	---	61 k	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	---	---	---	---	---	---	340.86	52.11	288.75
MW-5	**10/03/2011**	**Insufficient water**		**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**340.86**	**54.05**	**286.81**
MW-6	09/12/2007	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	42.20	---
MW-6	09/19/2007	---	<50	<50 i	<0.50	<1.0	<1.0	<1.0	2.5	<10	---	---	---	---	---	---	---	41.85	---
MW-6	10/25/2007	---	<50	<50 i	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---	340.34	38.63	301.71
MW-6	01/10/2008	---	<50	<50 i	<0.50	<1.0	<1.0	<1.0	0.86 j	<10	<2.0	<2.0	<2.0	---	---	---	340.34	35.29	305.05
MW-6	04/17/2008	---	<50	<50 i	<0.50	<1.0	<1.0	<1.0	1.8	<10	<2.0	<2.0	<2.0	---	---	---	340.34	34.95	305.39
MW-6	07/02/2008	Well inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	---	340.34	---	---
MW-6	10/14/2008	---	<50	<50	<0.50	<1.0	<1.0	<1.0	12	<10	<2.0	<2.0	<2.0	<0.50	<1.0	903	340.34	47.21	293.13
MW-6	01/05/2009	---	<50	<50	<0.50	<1.0	<1.0	<1.0	15	<10	<2.0	<2.0	<2.0	<0.50	<1.0	---	340.34	43.86	296.48
MW-6	04/14/2009	---	<50	81	<0.50	<1.0	<1.0	<1.0	25	13	<2.0	<2.0	<2.0	<0.50	<1.0	---	340.34	41.30	299.04
MW-6	10/06/2009	Insufficient water		---	---	---	---	---	---	---	---	---	---	---	---	---	340.34	54.16	286.18
MW-6	04/02/2010	Insufficient water		---	---	---	---	---	---	---	---	---	---	---	---	---	340.34	53.65	286.69
MW-6	10/13/2010	Insufficient water		---	---	---	---	---	---	---	---	---	---	---	---	---	340.34	54.12	286.22
MW-6	04/26/2011	---	<47	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	---	---	---	---	---	---	340.34	49.78	290.56
MW-6	07/07/2011	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	340.34	51.74	288.60
MW-6	07/08/2011	---	93 k	<50	1.2	2.2	<0.50	1.8	<1.0	<10	---	---	---	---	---	---	340.34	---	---
MW-6	**10/03/2011**	**Well dry**		**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**---**	**340.34**	**---**	**---**

Notes:
Total O&G = Total oil and grease analyzed by EPA Method 1664A
TPHd = Total petroleum hydrocarbons as diesel analyzed by modified EPA Method 8015 with silica gel cleanup unless otherwise noted
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B, unless otherwise noted
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B
MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B
TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B
DIPE = Di-isopropyl ether analyzed by EPA Method 8260B
ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B
1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B
EDB = 1,2-Dibromoethane, analyzed by EPA Method 8260B

TABLE 3

GROUNDWATER DATA
SHELL-BRANDED SERVICE STATION
1801 SANTA RITA ROAD, PLEASANTON, CALIFORNIA

Well ID	Date	Total O&G (mg/L)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	TDS (mg/L)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)

TDS = Total dissolved solids
TOC = Top of casing elevation, in feet relative to mean sea level
GW = Groundwater
µg/L = Micrograms per liter
mg/L = Milligrams per liter
ft = Feet
MSL = Mean sea level
<x = Not detected at reporting limit x
--- = Not analyzed or not available
n/n = TPHd/TPHd w/silica gel clean-up

a = Hydrocarbon does not match pattern of laboratory's standard.
c = Analysis without silica gel clean-up.
e = Initial analysis within holding time. Reanalysis for the required dilution or confirmation was past holding time.
f = The sample, as received, was not preserved in accordance to the referenced analytical method (pH = 7).
i = Analyzed by EPA Method 8015B (M).
j = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
k = Hydrocarbon result partly due to individual peak(s) in quantitation range.

Site wells surveyed January 14, 2003 by Mid Coast Engineers.
February 23, 2006 survey data for wells MW-1A, MW-4A, and MW-5 provided by Delta Environmental.
October 5, 2007 survey data for well MW-6 provided by Delta Environmental.

TABLE 4

HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA
SHELL-BRANDED SERVICE STATION
1801 SANTA RITA ROAD, PLEASANTON, CALIFORNIA

Sample ID	*Date*	*TPHd (µg/L)*	*TPHg (µg/L)*	*B (µg/L)*	*T (µg/L)*	*E (µg/L)*	*X (µg/L)*	*MTBE (µg/L)*	*TBA (µg/L)*	*DIPE (µg/L)*	*ETBE (µg/L)*	*TAME (µg/L)*	*1,2-DCA (µg/L)*	*EDB (µg/L)*
B-1	2/13/2006	<50	<50	<0.50	0.83	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	<0.50	<0.50
B-4	2/15/2006	<50	<50	<0.50	<0.50	<0.50	<0.50	**12**	<5.0	<0.50	<0.50	<0.50	**3.9**	<0.50
Groundwater (≤10 fbg) ESL [a]:		100	100	1.0	40	30	20	5.0	12	NA	NA	NA	0.50	0.050

Notes:
TPHd = Total petroleum hydrocarbons as diesel analyzed by EPA Method 8015M
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B
MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B
TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B
DIPE = Di-isopropyl ether analyzed by EPA Method 8260B
ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B
TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B
1,2-DCA = 1,2-Dichloroethane analyzed by EPA Method 8260B
EDB = 1,2-Dibromoethane analyzed by EPA Method 8260B
µg/L = Micrograms per liter
<x = Not detected at reporting limit x
ESL = Environmental screening level
NA = No applicable ESL
Results in **bold** equal or exceed applicable ESL

a = San Francisco Bay Regional Water Quality Control Board ESL for groundwater where groundwater is a source of drinking water (Tables A and C of *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008]).

TABLE 5

GROUNDWATER MONITORING WELL CONSTRUCTION DATA
SHELL-BRANDED SERVICE STATION
1801 SANTA RITA ROAD, PLEASANTON, CALIFORNIA

Well	*Date Installed*	*Depth (feet)*	*Screened Interval (feet)*	*Sand Pack Interval (feet)*	*TOC (ft MSL)*
MW-1	10/15/2002	92	77 to 92	75 to 92	342.10
MW-1A	2/15/2006	57	47 to 57	45 to 57	341.72
MW-2	10/14/2002	93.5	78 to 93	76 to 93.5	341.57
MW-3	10/11/2002	97	82 to 97	80 to 97	341.65
MW-4	10/9/2002	95	80 to 95	78 to 95	340.68
MW-4A	2/16/2006	55	45 to 55	43 to 55	340.77
MW-5	2/14/2006	55	45 to 55	43 to 55	340.86
MW-6	8/14/2007	55	40 to 55	38 to 55	340.34

Notes:
TOC = Top of casing elevation
ft MSL = Elevation in feet relative to mean sea level

TABLE 6

HISTORICAL VERTICAL GROUNDWATER FLOW DIRECTIONS
SHELL-BRANDED SERVICE STATION
1801 SANTA RITA ROAD, PLEASANTON, CALIFORNIA

Date	*Groundwater Elevation (ft MSL)*	*Groundwater Elevation (ft MSL)*	*Vertical Gradient*	*Direction*
	MW-1 Well Cluster			
	MW-1A	*MW-1*		
2/27/2006	296.16	296.17	0.0003	Up
4/19/2006	298.94	298.95	0.0003	Up
7/12/2006	297.31	297.3	-0.0003	Down
10/6/2006	297.5	297.45	-0.001	Down
1/19/2007	302.78	302.71	-0.002	Down
4/3/2007	306.05	305.98	-0.002	Down
7/6/2007	298.00	297.95	-0.001	Down
10/25/2007	301.83	301.71	-0.003	Down
1/10/2008	305.66	305.53	-0.004	Down
4/17/2008	305.59	305.59	0.000	Even
7/2/2008	300.44	300.2	-0.007	Down
10/14/2008	293.56	293.39	-0.005	Down
1/5/2009	296.87	296.7	-0.005	Down
4/14/2009	299.32	299.18	-0.004	Down
10/6/2009	284.62 a	281.4	NA	NA
4/2/2010	287.17	287.19	0.001	Up
10/13/2010	284.78 a	282.33	NA	NA
4/26/2011	290.74	290.76	0.001	Up
7/7/2011	288.91	288.75	-0.005	Down
10/3/2011	284.85 a	276.75	NA	NA
	MW-4 Well Cluster			
	MW-4A	*MW-4*		
2/27/2006	296.16	296.19	0.001	Up
4/19/2006	298.95	298.96	0.0002	Up
7/12/2006	297.29	297.34	0.001	Up
10/6/2006	297.35	297.45	0.002	Up
1/19/2007	302.74	302.56	-0.005	Down
4/3/2007	305.99	306.13	0.003	Up
7/6/2007	297.86	297.93	0.002	Up
10/25/2007	301.65	301.76	0.003	Up
1/10/2008	305.57	305.46	-0.003	Down
4/17/2008	305.56	305.65	0.002	Up
7/2/2008	300.29	300.15	-0.004	Down
10/14/2008	293.27	293.25	-0.0005	Down
1/5/2009	296.73	296.68	-0.001	Down
4/14/2009	299.22	299.25	0.001	Up
6/17/2009	294.15	NA	NA	NA
10/6/2009	286.36 a	281.58	NA	NA
4/2/2010	287.12	287.11	-0.0002	Down
10/13/2010	286.42 a	282.38	NA	NA
4/26/2011	290.65	290.66	0.0003	Up
7/7/2011	288.75	288.79	0.001	Up
10/3/2011	286.43 a	276.83	NA	NA

HISTORICAL VERTICAL GROUNDWATER FLOW DIRECTIONS
SHELL-BRANDED SERVICE STATION
1801 SANTA RITA ROAD, PLEASANTON, CALIFORNIA

Notes:
GW El = Groundwater elevation
TD = total depth
Vertical gradient = (GW El deeper well - GW El shallow well) / (TD deeper well - TD shallow well)
ft MSL = Elevation in feet relative to mean sea level
NA = Not available

a = Measured depth to water less than 1 foot from total depth of the well, likely not representative of static groundwater elevation

APPENDIX A

SITE HISTORY

SITE HISTORY

2002 Subsurface Investigation: In October 2002, KHM Environmental Management, Inc. (KHM) installed four groundwater monitoring wells (MW-1 through MW-4) as part of Shell Oil Products US's Groundwater Assessment Program (GRASP). Soil samples from the wells contained up to 420 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg), 2.0 mg/kg benzene, 3.7 mg/kg toluene, 5.1 mg/kg ethylbenzene, and 31 mg/kg xylenes. No methyl tertiary-butyl ether (MTBE), tertiary-butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl tertiary-butyl ether (ETBE), or tertiary-amyl methyl ether (TAME) was detected in the soil samples. Based on these concentrations, Shell submitted an Underground Storage Tank Unauthorized Release (Leak)/Site Contamination Report (Unauthorized Release Report) on October 31, 2002. Delta Consultants' (Delta's) February 14, 2003 *Site Assessment Report* provides details of the GRASP investigation.

2002 Upgrades: In November 2002, Armer-Norman & Associates, Inc. upgraded the station fuel system. KHM collected soil samples from beneath four dispensers and seven soil samples from the piping trenches. The soil samples contained up to 21.6 mg/kg lead. No TPHg, benzene, toluene, ethylbenzene, and total xylenes (BTEX), MTBE, DIPE, ETBE, TAME, or TBA was detected in the soil samples. Approximately 150 cubic yards of soil were excavated during the upgrade activities for off-site disposal. KHM's November 20, 2002 *Soil Sampling Report* provides details of this soil sampling event.

2005 Hoist Replacement: In April 2005, Able Maintenance Inc. replaced a below-ground hydraulic hoist. Delta collected one soil sample from beneath the hoist. The soil sample contained 11,000 mg/kg oil and grease, 18,000 mg/kg total petroleum hydrocarbons as diesel (TPHd), 0.98 mg/kg cadmium, 23 mg/kg chromium, 17 mg/kg lead, 36 mg/kg nickel, and 40 mg/kg zinc. No TPHg or BTEX was detected in the soil sample. Based on these concentrations, Shell submitted an Unauthorized Release Report on May 5, 2005. Delta's September 30, 2005 *Soil Sampling Report* details this investigation.

2006 Subsurface Investigation: In February 2006, Delta installed three groundwater monitoring wells (MW-1A, MW-4A, and MW-5) and drilled three soil borings (B-1, B-2, and B-4) to further assess the extent of petroleum hydrocarbon impacts in soils and to assess the extent of petroleum hydrocarbon impacts in shallow groundwater. Soil samples from the well borings and soil borings contained up to 1.7 mg/kg TPHd, 5.6 mg/kg TPHg, 1.0 mg/kg benzene, 6.2 mg/kg toluene, 0.24 mg/kg ethylbenzene, 3.5 mg/kg xylenes, 0.01 mg/kg MTBE, 0.029 mg/kg TBA, and 8.5 mg/kg lead. No DIPE, ETBE, or TAME was detected in the soil samples. Grab groundwater samples

collected from borings B-1 and B-4 contained up to 0.83 micrograms per liter (µg/L) toluene, 12 µg/L MTBE, and 3.9 µg/L 1,2-dichloroethane. Delta's May 19, 2006 *Updated Site Conceptual Model* provides details of this investigation.

2006 Well Survey: In 2006, Delta field verified three drinking water supply wells within a ½-mile radius of the site. City of Pleasanton Well 6 is located approximately 1,530 feet south of the site. City of Pleasanton Wells 4 and 5 are located approximately 1,795 and 1,848 feet southeast of the site, respectively. According to information supplied by Zone 7 Water Agency, the depth to the top of the first well screen in Well 6 is 165 feet below grade (fbg), and the depth to the top of the first well screen in Well 5 is 149 fbg. Both wells are located cross-gradient from the site. In addition, two private wells located approximately 2,312 feet west of the site and 2,323 feet northwest of the site were field verified by Delta. Delta's May 19, 2006 *Updated Site Conceptual Model* provides details of the well survey.

2007 Waste Oil UST Removal: In February 2007, Wayne Perry, Inc. removed one 550-gallon single-wall fiberglass waste oil UST. Cambria Environmental Technology, Inc. collected one soil sample (WO-1-12) from the bottom of the UST excavation. The soil sample collected from the UST excavation contained 6.5 mg/kg TPHd, 0.19 mg/kg TPHg, 62 mg/kg chromium, 6.2 mg/kg lead, 91 mg/kg nickel, and 42 mg/kg zinc. Based on these concentrations, Shell submitted an Unauthorized Release Report on March 7, 2007. Conestoga-Rovers & Associates' April 30, 2007 *Underground Storage Tank Removal Report* provides details of the UST removal.

2007 Subsurface Investigation: In August 2007, Delta installed one groundwater monitoring well (MW-6) to further investigate the horizontal extent of shallow groundwater impacts. No TPHg, BTEX, MTBE, or TBA was detected in soil samples from the well boring. Delta's October 15, 2007 *Well Installation Report (MW-6)* provides investigation details.

Groundwater Monitoring: Groundwater monitoring has been conducted at the site since December 2002. Depth to water in the shallow wells (MW-1A, MW-4A, MW-5, and MW-6) has ranged from 34.78 to 57.10 fbg. Groundwater levels were below the bottom of the shallow wells from the fourth quarter 2009 through the fourth quarter of 2010, with the exception of MW-1A in the second quarter of 2010. Depth to water in the deeper wells (MW-1 through MW-4) has ranged from 34.55 to 85.83 fbg.

APPENDIX B

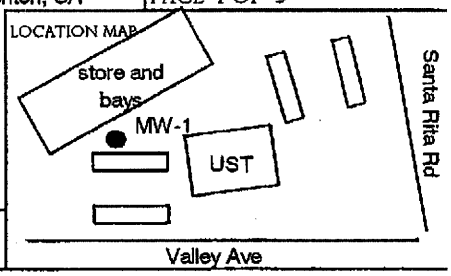
BORING LOGS

KHM
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/15/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	92.5'
CASING TYPE:	PVC	WELL DIAMETER:	4"
SLOT SIZE:	0.010"	WELL DEPTH:	92'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-1
PAGE 1 OF 5

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
									AF	Asphalt ~3" thick Air knifed to 7' on 10/3/02
			damp			1			ML	**Gravelly SILT**; medium to grey brown, 65% silt, 35%
			damp						CH	gravel ~2" diameter
						2				**Fat CLAY**; dark grey, medium stiff
			damp						ML	**SILT**; dark grey, trace gravel and cobbles
						3				
						4				
			damp	2.5	Air Knifed				CL	**Lean CLAY**; grey brown
						5				
						6				
			damp			7				
						8				
						9				
			damp	1.4	3				ML	**SILT**; light olive brown, medium stiff
					4	10				
						11				
						12				
						13				
			dry/	1.4	3	14				
			damp		5					(trace of gravel 1/4" diameter)
					8	15				
						16				
						17				
						18				
					3	19				
			damp	2.0	4				CL	**Lean CLAY**; medium brown, medium stiff
					6	20				
						21				
						22				

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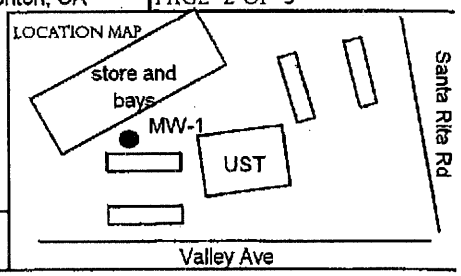
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/15/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	92.5'
CASING TYPE:	PVC	WELL DIAMETER:	4"
SLOT SIZE:	0.010"	WELL DEPTH:	92'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-1
PAGE 2 OF 5

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
						23				
					4	24			CL	continued
			damp	6.2	7					
					9	25				
						26				
						27				
						28				
			damp	1523	4	29			SP	**Poorly Graded SAND**; brown, fine-grained
					7				CL	**Lean CLAY**;medium brown, stiff
			damp	31.4	7	30				
						31				
						32				
						33				
					4	34				(trace olive mottling)
			damp	11.1	5					
					6	35				
						36				
						37				
						38				
					3	39				
			damp	4.5	5					
					7	40				
						41				
						42				
						43				
			damp	5.9	3	44				
					5					

Cement Grout

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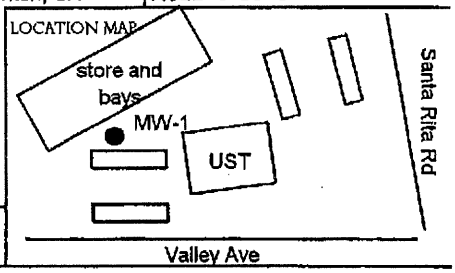
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/15/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	92.5'
CASING TYPE:	PVC	WELL DIAMETER:	4"
SLOT SIZE:	0.010"	WELL DEPTH:	92'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-1

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
					6	45			CL	continued
						46				
						47				
						48				
					7	49				(very stiff)
			damp	2.9	8					
					9	50				
						51				
						52				
						53				
					4	54				
			damp	3.9	7					
					13	55			SW-SC	**Well Graded SAND with Clay**; medium to grey brown, fine to medium grained sand, 10% clay, very dense
						56				
						57				
						58				
					19	59				(10% gravel)
			moist	3.9	27					
					32	60				
						61				
						62				
						63				
					21	64				(gravel up to 3/4" diameter)
			moist	3.3	26					
					30	65				
						66				

Sand Pack

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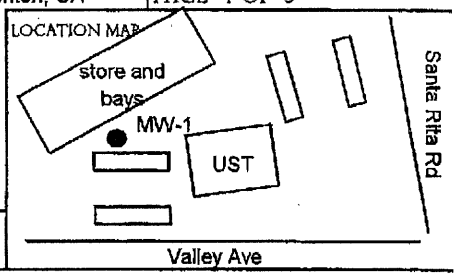
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/15/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	92.5'
CASING TYPE:	PVC	WELL DIAMETER:	4"
SLOT SIZE:	0.010"	WELL DEPTH:	92'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-1
PAGE 4 OF 5

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
Bentonite Chips						67			SW-SC	continued
						68				
					24	69				
			moist	1.9	36					(5% gravel 1/4-1/2")
					39	70				
						71				
						72				
						73				
			moist	3.0	22	74				(10% gravel)
					50/5					
						75				
						76				
						77				
						78				
					28	79			SW	**Well Graded SAND**; 60% coarse grained sand, 10% gravel
			moist	2.3	22					1/4" diameter, trace of clay, dense
					24	80				
						81				
						82				
						83				
					12	84				
			moist	2.1	18					
					26	85				
		▽	wet			86				
						87				
Sand						88				

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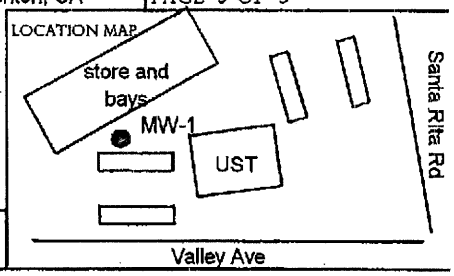
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/15/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	92.5'
CASING TYPE:	PVC	WELL DIAMETER:	4"
SLOT SIZE:	0.010"	WELL DEPTH:	92'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-1
PAGE 5 OF 5

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
Sand			wet		6	89			GP	**Poorly Graded GRAVEL with Sand**; medium to grey
					10					brown, 1/4" diameter gravel
					13	90				
			damp		9				CL	**Lean CLAY**; medium brown, FeO_3 mottling, hard
					14	91				
					19					
						92				
						93				**BOTTOM OF BORING @ 92.5 ft**
						94				
						95				
						96				
						97				
						98				
						99				
						100				
						101				
						102				
						103				
						104				
						105				
						106				
						107				
						108				
						109				
						110				

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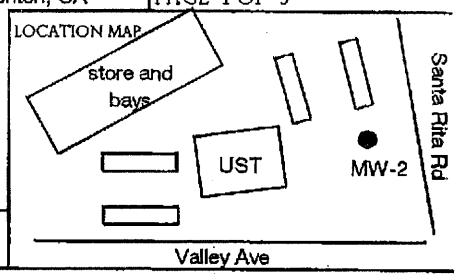
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/14/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	93.5'
CASING TYPE:	PVC	WELL DIAMETER:	4"
SLOT SIZE:	0.010"	WELL DEPTH:	93'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-2
PAGE 1 OF 5

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
									AF	Asphalt ~6" thick (airknifed to 7 ft on 10/3/02)
			dry to						GC	**Gravelly CLAY**;brown, fine to coarse gravel
			damp			1			CL	**Lean CLAY with Gravel**; ~35% gravel, 15-20% fine
										to coarse sand, medium plasticity
			damp			2				
						3				(<5% sand, low plasticity)
					Air Knifed	4				
						5				
						6				
						7				
						8				
					2	9			ML	**SILT**; medium to olive brown, medium stiff
			damp	6.2	3					
					5	10				
						11				
						12				
						13				
					3	14				(clay content increasing with depth)
			damp	2.5	4					
					8	15			CL	**Lean CLAY**; medium brown with trace olive mottling,
						16				
						17				
						18				
					3	19				(stiff)
			damp	1.9	3					
					5	20				
						21				
						22				

Concrete Pad

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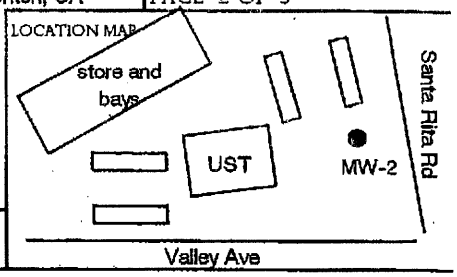
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/14/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	93.5'
CASING TYPE:	PVC	WELL DIAMETER:	4"
SLOT SIZE:	0.010"	WELL DEPTH:	93'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-2

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
						23				
			damp	2.2	3 4 5	24 25			CL	Continued
						26				
						27				
						28				
			moist	4.3	2 4 6	29 30			SC CL	(4" layer of clayey sand) **Lean CLAY**; as above
						31				
						32				
						33				
			damp	2.5	3 3 6	34 35				
						36				
						37				
						38				
			moist	2.1	3 5 6	39 40				(medium brown)
						41				
						42				
						43				
			damp	1.2	5 7	44				

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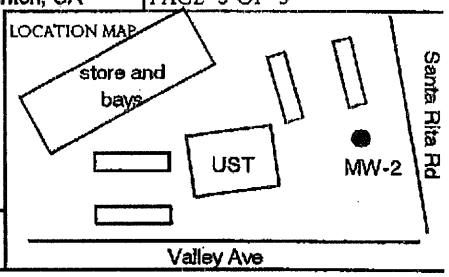
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS	BORING/WELL NO:	MW-2
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA	PAGE	3 OF 5
DRILLER:	Gregg	DATE DRILLED:	10/14/02		
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"		
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	93.5'		
CASING TYPE:	PVC	WELL DIAMETER:	4"		
SLOT SIZE:	0.010"	WELL DEPTH:	93'		
GRAVEL PACK:	2-12	CASING STICKUP:	N/A		
ELEVATION		NORTHING		EASTING	

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
					10	45			CL	Continued
						46				
						47				
						48				
					5	49				(olive and orange brown, very stiff)
			damp	1.6	6					
					11	50				
						51				
						52				
						53				
					14	54			SC	**Clayey SAND**; brown, 75% fine sand, 25% clay
			damp	1.9	27					trace gravel (1/4" diameter), very dense
					46	55				
						56				
						57				
						58				
					18	59			GP	**Poorly Graded GRAVEL with Sand**; grey, 65%
			damp	1.3	27					gravel (1/4" diameter), 35% fine grained sand, very dense
					34	60				
						61				
						62				
						63				
					13	64			SW	**Well Graded SAND with Gravel**; grey, dense
			damp	2.2	16					
					22	65				
						66				

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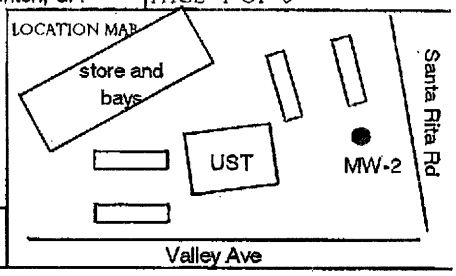
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS	BORING/WELL NO:	MW-2
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA	PAGE	4 OF 5
DRILLER:	Gregg	DATE DRILLED:	10/14/02		
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"		
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	93.5'		
CASING TYPE:	PVC	WELL DIAMETER:	4"		
SLOT SIZE:	0.010"	WELL DEPTH:	93'		
GRAVEL PACK:	2-12	CASING STICKUP:	N/A		
ELEVATION		NORTHING		EASTING	

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
Cement/Grout						67			SW	Continued
						68				
					15	69				
			damp	2.6	21					
					37	70				
						71				
						72				
						73				
Bentonite Chips					20	74				
			damp	0.9	50					(trace FeO mottling)
					29	75				
						76				
						77				
						78				
					18	79				
			moist	0.8	30					(grades coarser, medium to coarse grained, 40% gravel up to 1" diameter, trace clay)
					33	80				
						81				
						82				
Sand						83				
					18	84				
			moist/	0.6	31					(40% 1/4" diameter gravel)
		▽	wet		34	85				
					22					
					31	86				(decrease in gravel content to 25%)
					34					
					45	87			SP	**Poorly Graded SAND**; medium brown, fine grained
					50/3				SP	**Poorly Graded SAND with Gravel,** fine grained sand lens
					12	88				

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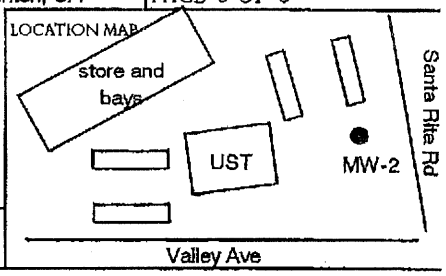
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/14/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	93.5'
CASING TYPE:	PVC	WELL DIAMETER:	4"
SLOT SIZE:	0.010"	WELL DEPTH:	93'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-2

LOCATION MAP



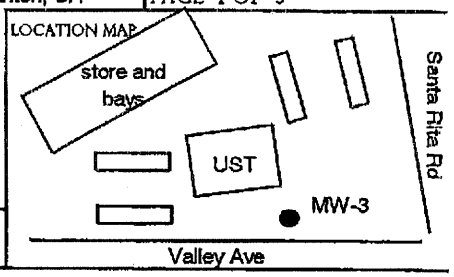
Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Sand				13	89			SP	continued, (coarse grained)
		wet		15				CL	**Lean CLAY**; medium brown
				9	90				(occasional FeO_3 and greyish white mottling)
				11					
				16	91				
		wet		10					
				14	92				
				19					(olive green)
					93				
					94				**BOTTOM OF BORING @ 93.5 ft**
					95				
					96				
					97				
					98				
					99				
					100				
					101				
					102				
					103				
					104				
					105				
					106				
					107				
					108				
					109				
					110				

KHM
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasanton, CA
DRILLER:	Gregg	DATE DRILLED:	10/11/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	97.5'
CASING TYPE:	PVC	WELL DIAMETER:	4"
SLOT SIZE:	0.010"	WELL DEPTH:	97'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-3
PAGE 1 OF 5

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
									AF	Asphalt ~6" thick (airknifed to 7 ft on 10/3/02)
										Fill ~5" thick
			moist			1			CL	**Lean CLAY with Gravel**; tan brown, 25% gravel
						2				1/4-1/2" diameter, low plasticity
						3				(dark grey, fine to coarse sand, gravel 1/8"-1/4" diameter)
						4				
						5				(15% sand and gravel)
						6				
						7				
						8				
					3	9			SP	**Poorly Graded SAND**; medium brown, 85% fine grained
			damp	3.9	3					sand, 10% fines
					4	10				
						11			CL	**Lean CLAY with Sand**; orange brown, moderate plasticity
						12				
						13				
					4	14				
			damp	1.9	4					(stiff)
					5	15				
						16				
						17				
						18				
					4	19				
			damp	4.7	6					
					9	20				
						21				
						22				

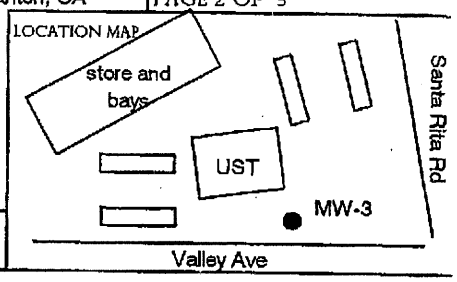
Air Knifed

KHM
ENVIRONMENTAL MANAGEMENT INCORPORATED

PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasanton, CA
DRILLER:	Gregg	DATE DRILLED:	10/11/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	97.5'
CASING TYPE:	PVC	WELL DIAMETER:	4"
SLOT SIZE:	0.010"	WELL DEPTH:	97'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-3
PAGE 2 OF 5

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
						23			CL	Continued
			moist	3.9	3 4 5	24 25				
						26 27 28				
			damp	3.0	5 5 8	29 30			SP CL	**Poorly Graded SAND**; medium brown, fine grained **Lean CLAY**; medium brown
						31 32 33				
			damp	2.6	2 6 6	34 35				(stiff)
						36 37 38				
			damp	3.6	4 5 8	39 40				
						41 42 43				
				1.9	4 6	44				(medium brown with FeO mottling)

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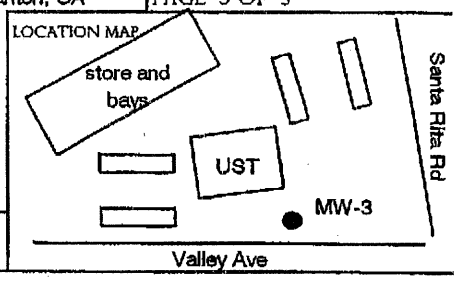
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasanton, CA
DRILLER:	Gregg	DATE DRILLED:	10/11/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	97.5'
CASING TYPE:	PVC	WELL DIAMETER:	4"
SLOT SIZE:	0.010"	WELL DEPTH:	97'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-3
PAGE 3 OF 5

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
					7	45			CL	Continued
						46				
						47				
						48				
					6	49				(olive brown)
			damp	1.7	11					
					15	50				
						51				
						52				
						53				
					21	54			SP	**Poorly Graded SAND with Gravel**; 60% grey to orange
			damp	1.6	36					brown medium grained sand, 40% light to dark grey gravel
					45	55				1/4" to 1/2" diameter
						56				
						57				
						58				
					28	59			GP	**Poorly Graded GRAVEL with Sand**; 60% gravel, 40%
			damp	1.0	38					coarse sand, very dense
					45	60				
						61				
						62				
						63				
					22	64			SW	**Well Graded SAND**; grey brown,
			damp	3.0	29					orange and olive brown, 10% gravel
					38	65				
						66				

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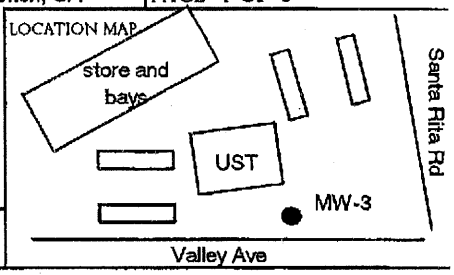
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasanton, CA
DRILLER:	Gregg	DATE DRILLED:	10/11/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	97.5'
CASING TYPE:	PVC	WELL DIAMETER:	4"
SLOT SIZE:	0.010"	WELL DEPTH:	97'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-3
PAGE 4 OF 5

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
Cement Grout						67			SW	continued
						68				
					20	69				
			damp	1.3	42					
					50/5	70				(trace clay @ 70')
						71				
						72				
						73				
			dry/		35	74			SP	**Poorly Graded SAND with Gravel**; orange to grey brown
			damp	1.0	41					fine grained sand, 15% gravel 1/4" diameter
					49	75				
						76				
						77				
						78				
Bentonite Chips					29	79			SP/	**Poorly Graded SAND and GRAVEL**; light grey to dark
			moist	1.3	34				GP	grey, and medium brown, 50% medium grained sand,
					42	80				50% gravel ~1/4" diameter
						81				
						82				
						83				
Sand					25	84			GW	**Well Graded GRAVEL**; grey to grey brown,
			moist	0.8	28					10% coarse sand, poorly sorted, gravel 1/8 - 1/2" diameter
					32	85				
						86				
		▽	wet			87				
						88				

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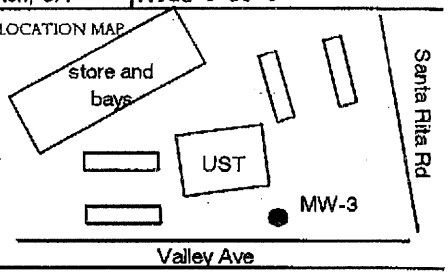
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasanton, CA
DRILLER:	Gregg	DATE DRILLED:	10/11/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	10"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	97.5'
CASING TYPE:	PVC	WELL DIAMETER:	4"
SLOT SIZE:	0.010"	WELL DEPTH:	97'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-3

LOCATION MAP



Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Sand				5	89			GW	continued
				8					
				12	90				
				6					
				6	91				
				10					
				6	92			GC	**Clayey GRAVEL**; medium brown, 60% gravel 1/4"
		wet		7					diameter, fairly angular, 40% clay
				9	93				
				6					
				9	94				
				13					
				8	95			ML	**SILT**; orange brown, olive staining, hard
		damp/ wet		12					
				17	96				
				24					
				28	97				
				33					**BOTTOM OF BORING @ 97.5 ft**
					98				
					99				
					100				
					101				
					102				
					103				
					104				
					105				
					106				
					107				
					108				
					109				
					110				

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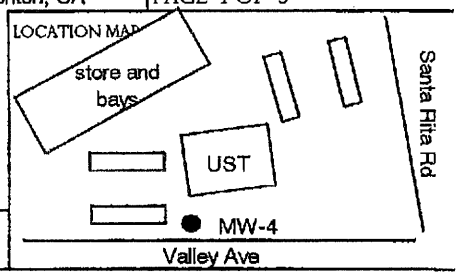
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/10/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	8"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	95.5'
CASING TYPE:	PVC	WELL DIAMETER:	2"
SLOT SIZE:	0.010"	WELL DEPTH:	95'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-4
PAGE 1 OF 5

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
					Air Knifed	1			AF	Asphalt ~6" thick (air knifed to 7' on 10/3/02)
										Fill ~6" thick
			dry/ damp						SC	**Clayey SAND with Gravel**; tan brown, ~20% gravel, ~30% fines, fine to coarse grained sand
						2				
			damp/ moist			3			CL	**Lean CLAY**; dark grey, <5% sand, low plasticity
						4				
						5				
						6				
						7				
						8				(medium brown)
					2	9				
			damp	0.3	3				ML	**SILT**; olive green, medium stiff
					4	10				
						11				
						12				
						13				
					2	14				
			damp	5.3	4					
					6	15			CL	**Lean CLAY**; olive green, distinctive zones of orange brown medium grained sand
						16				
						17				
						18				
					2	19				
			damp	1.2	4					
					5	20				(FeO mottling)
						21				
						22				

Cement (Grout)

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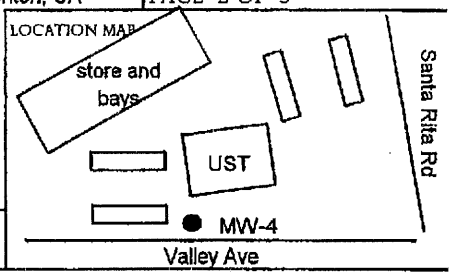
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/10/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	8"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	95.5'
CASING TYPE:	PVC	WELL DIAMETER:	2"
SLOT SIZE:	0.010"	WELL DEPTH:	95'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-4



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
						23			CL	Continued
					3	24				(olive green, stiff)
			damp	27.6	4					
					7	25				
						26				
						27				
						28				(orange brown with occasional FeO mottling)
					3	29				
			damp	105	5					
					5	30				
						31				
						32				
						33				
					2	34				
			damp	73.5	4					
					6	35				
						36				
						37				
						38				
						39				
			damp	655						
						40				
						41				
						42				
						43				
						44				
				11.8	5					
					9					

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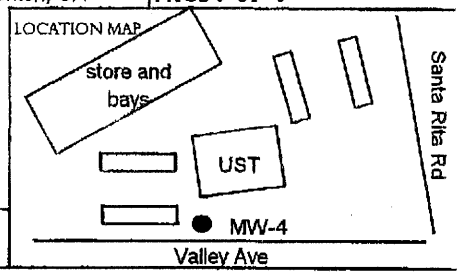
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/10/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	8"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	95.5'
CASING TYPE:	PVC	WELL DIAMETER:	2"
SLOT SIZE:	0.010"	WELL DEPTH:	95'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-4
PAGE 3 OF 5

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
				11.8	11	45			CL	Continued
						46				
						47				
						48				
					4	49				(mottled, grey-green)
			damp	10.3	6					
					8	50				
						51				
						52				
						53				
					16	54				
			damp	1.8	19					
					25	55			SP	**Poorly Graded SAND with Gravel**; brown, 75% medium sand, 25% gravel up to 2" in diameter
Cement Grout						56				
						57				
						58				
			dry/		8	59				(10% gravel, poorly sorted sand, grey, trace of clay)
			damp	1.0	17					
					23	60				
						61				
						62				
						63				
			dry/	0.1	15	64				(70% sand, 30% gravel up to 1.5" diameter)
			damp		29					
					33	65				
						66				

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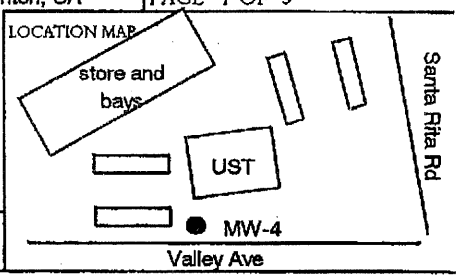
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS	BORING/WELL NO:	MW-4
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA	PAGE	4 OF 5
DRILLER:	Gregg	DATE DRILLED:	10/10/02		
DRILLING METHOD:	HSA	HOLE DIAMETER:	8"		
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	95.5'		
CASING TYPE:	PVC	WELL DIAMETER:	2"		
SLOT SIZE:	0.010"	WELL DEPTH:	95'		
GRAVEL PACK:	2-12	CASING STICKUP:	N/A		
ELEVATION		NORTHING		EASTING	

LOCATION MAP



Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
Bentonite chips						67			SP	Continued
						68				
			dry/ damp	0.1	31 48 50	69				
						70				
						71				
						72				
						73				
			dry/ damp	0.1	21 34 45	74			SW	**Well Graded SAND**; medium brown, 90% fine to medium grained, very dense
						75				
						76				
						77				
						78				
					18	79			GP	**Poorly Graded GRAVEL**; medium brown,
			moist	0.1	29 35	80				90% gravel 1/8" to 1/4" diameter, 10% sand, trace clay, very dense
						81				
						82				
						83				
Sand			moist	0.1	15 37	84				
		▽	wet		46	85				
						86				
					23	87			SW	**Well Graded SAND with Gravel**; medium brown,
			wet		35 45	88				80% sand, 20% gravel,

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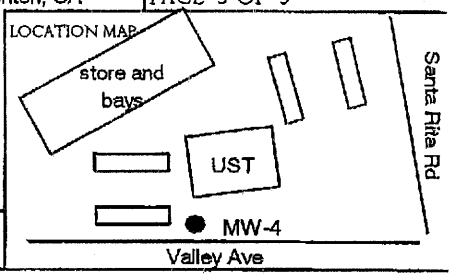
PROJECT NO:	C81-1801 Santa Rita	CLIENT:	Shell OPUS
LOGGED BY:	J. Pearson	LOCATION:	1801 Santa Rita Rd, Pleasonton, CA
DRILLER:	Gregg	DATE DRILLED:	10/10/02
DRILLING METHOD:	HSA	HOLE DIAMETER:	8"
SAMPLING METHOD:	Split Spoon	HOLE DEPTH:	95.5'
CASING TYPE:	PVC	WELL DIAMETER:	2"
SLOT SIZE:	0.010"	WELL DEPTH:	95'
GRAVEL PACK:	2-12	CASING STICKUP:	N/A
ELEVATION		NORTHING	EASTING

BORING/WELL NO: MW-4
PAGE 5 OF 5

LOCATION MAP



Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Sand				21	89			SP	**Poorly Graded SAND**; medium brown, fine grained
		wet		35				GP	**Poorly Graded GRAVEL;** greyish to reddish brown,
				45					~1/4" diameter, trace 2" diameter, coarse grained sand
				24	90			SP	**Poorly Graded SAND**; medium brown, medium grained
				35				GP	**Poorly Graded GRAVEL**
				37	91				
				21					
		wet		26	92				(gravel 1/8-1/4" diameter, occasionally up to 1/2")
				43					
				22	93				(olive, light brown, greyish to reddish,
				34					gravel fairly uniform 1/4" diameter)
				43	94			GC	**Clayey GRAVEL**; olive, light brown, greyish to reddish,
		wet		35					30% clay, gravel size coarsening with depth
				44	95				
					96				**BOTTOM OF BORING @ 95.5 ft**
					97				
					98				
					99				
					100				
					101				
					102				
					103				
					104				
					105				
					106				
					107				
					108				
					109				
					110				

Delta

Environmental Consultants, Inc.

Project No:	SJ18-01S-1	Client:	Shell Oil Products US	Well No: MW-1A
Logged By:	Heather Buckingham	Location:	1801 Santa Rita Rd, Pleasanton	Page 1 of 3
Driller:	Gregg Drilling	Date Drilled:	2/15/2006	
Drilling Method:	HSA	Hole Diameter:	12"	
Sampling Method:	Split Spoon	Hole Depth:	57.5'	
Casing Type:	PVC schedule 40	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	57'	
Gravel Pack:	#2/12	Casing Stickup:	--	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Neet Cement				Air-Knifed	1			AF	Asphalt (~6" thick)
					2				(asphalt layer @ ~2')
					3				
					4				
		dry	0.1		5			CL	**Lean CLAY**: dark brown; low plasticity; trace coarse grained sand
					6				
					7				
					8				
				3	9			SC	**Clayey fine grained SAND**: low plasticity; medium brov
			0.1	4 5	10				poorly-graded; trace coarse grained sand; 15-25% clay; loose
					11				
					12				
					13				
				6	14				
		damp	0.1	8 10	15			CL	**Lean CLAY**: dark brown; trace gravels (~4mm); trace coarse grained sand; moderate plasticity; very stiff
					16				
					17				
					18				
				2	19				
		dry	0.1	2 3	20			CL	**Lean CLAY with sand**: light brown; low plasticity; 15-2 fine grained sand; soft
					21				
					22				

Delta

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Project No:	SJ18-01S-G	Client:	Shell Oil Products US	Well No: MW-1A
Logged By:	Heather Buckingham	Location:	1801 Santa Rita Rd, Pleasanton	Page 2 of 3
Driller:	Gregg Drilling	Date Drilled:	2/15/2006	
Drilling Method:	HSA	Hole Diameter:	12"	
Sampling Method:	Split Spoon	Hole Depth:	57.5'	
Casing Type:	PVC schedule 40	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	57'	
Gravel Pack:	#2/12	Casing Stickup:	--	

Location Map: Please see site map

Elevation	Northing	Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Neat Cement					23				
				2					
		dry	0.1	3	24			CL	**Lean CLAY with sand**: medium brown; 15-25% fine grained and poorly graded sand; low to moderate plasticity;
				4	25				medium stiff
					26				
					27				
					28				
				5	29				
		moist	0.1	10				SC	**Clayey SAND**: dark brown; poorly graded and fine grained;
		dry		12	30				35-45% clay; medium dense
					31				
					32				
					33				
				4				CL	**Lean CLAY**: medium reddish brown; moderate plasticity;
		damp	0.1	6	34				~10% fine grained sand; trace gravels; stiff
				8	35				
					36				
					37				
					38				
				4					
			0.1	7	39				(very stiff)
				11	40				
					41				
					42				
					43				
Bentonite				4					
		damp	0.1	8	44			CL	**Lean CLAY with sand**: same as above; stiff
				6	45				

Delta
Environmental Consultants, Inc.

Project No:	SJ18-01S-G	Client:	Shell Oil Products US	Well No: MW-1A
Logged By:	Heather Buckingham	Location:	1801 Santa Rita Rd, Pleasanton	Page 3 of 3
Driller:	Gregg Drilling	Date Drilled:	2/15/2006	Location Map
Drilling Method:	HSA	Hole Diameter:	12"	Please see site map
Sampling Method:	Split Spoon	Hole Depth:	57.5'	
Casing Type:	PVC schedule 40	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	57'	
Gravel Pack:	#2/12	Casing Stickup:	--	
Elevation		Northing		Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
#2/12 Sand	▼				46			CL	**Lean CLAY with Sand** (continued)
					47				
					48				
				8	49				
		damp	0.1	10				CL	**Lean CLAY**: light brown; ~10% sand; moderate plasticity; very stiff
				11	50				
					51				
					52				
					53				
				7	54			SP	**Poorly graded fine to medium grained SAND**: medium brown, traces of coarse grained sand; medium dense
			0.1	8					
				9	55			CL	**Lean CLAY:** same as above
		damp			56			SP	**Poorly graded fine grained SAND**: medium brown
		wet			57			SW	**Well graded SAND with gravel**: medium brown; 20-30% gravel (~1/2" diameter)
									Boring terminated at 57.5 feet bg
					58				
					59				
					60				
					61				
					62				
					63				
					64				
					65				
					66				
					67				
					68				

Delta

Environmental Consultants, Inc.

Project No:	SJ18-01S-1	Client:	Shell Oil Products US	Well No: MW-4A
Logged By:	Heather Buckingham	Location:	1801 Santa Rita Rd, Pleasanton	Page 1 of 3
Driller:	Gregg Drilling	Date Drilled:	2/16/2006	
Drilling Method:	HSA	Hole Diameter:	12"	
Sampling Method:	Split Spoon	Hole Depth:	55'	
Casing Type:	PVC sch. 40	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	55'	
Gravel Pack:	#2/12	Casing Stickup:	--	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Neet Cement								AF	Asphalt (~6" thick)
		dry		Air-Knifed	1–7			CL	**Lean CLAY** dark brown; low plasticity; trace coarse grained sand
			0.1						
				7 8 10	8–12			SP	**Poorly-graded fine grained SAND**: brown; 10-15% gravels (~4mm) and coarse-grained sands; medium dense
		damp	0.1	4 6 8	13–17			CL	**Lean CLAY with sand**: brownish grey; low to moderate plasticity; 15-20% fine-grained sand; trace coarse-grained sand; stiff
		moist	4.4	4 5 7	18–22			ML	**SILT with sand**: medium grey; slight plasticity; 10-20% fine grained sand; stiff

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Project No:	SJ18-01S-1	Client:	Shell Oil Products US	Well No: MW-4A
Logged By:	Heather Buckingham	Location:	1801 Santa Rita Rd, Pleasanton	Page 2 of 3
Driller:	Gregg Drilling	Date Drilled:	2/16/2006	
Drilling Method:	HSA	Hole Diameter:	12"	
Sampling Method:	Split Spoon	Hole Depth:	55'	
Casing Type:	PVC sch. 40	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	55'	
Gravel Pack:	#2/12	Casing Stickup:	--	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Neet Cement					23				
				5					
		damp	0.1	6	24			CL	**Lean CLAY with sand** : (same as above)
				7	25				
					26				
					27				
					28				
				5					
			0.1	7	29				
				8	30				
					31				
					32				
					33				
				3					
			123	8	34			CL	**Lean CLAY**: medium brown mottled with grey; moderate
				10	35				plasticity; ~10% fine-grained sand; very stiff
					36				
					37				
					38				
				4					
			0.1	6	39				(medium brown)
				8	40				
					41				
Bentonite					42				
					43				
#2/12 sand				5					
		dry	0.1	6	44			CL	**Sandy Lean CLAY**: light brown mottled with grey; low to
				7	45				moderate plasticity; 25-35% fine-grained sand; stiff

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Project No:	SJ18-01S-1	Client:	Shell Oil Products US	Well No: MW-4A
Logged By:	Heather Buckingham	Location:	1801 Santa Rita Rd, Pleasanton	Page 3 of 3
Driller:	Gregg Drilling	Date Drilled:	2/16/2006	
Drilling Method:	HSA	Hole Diameter:	12"	
Sampling Method:	Split Spoon	Hole Depth:	55'	
Casing Type:	PVC sch. 40	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	55'	
Gravel Pack:	#2/12	Casing Stickup:	--	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
#2/12 sand					46			CL	**Sandy Lean CLAY** (continued)
					47				
					48				
				6	49				
			0.1	12					
				16	50				
					51				
					52				
					53			SP	**Poorly graded fine-grained SAND**: medium brown; very dense
				25	54				**Well-graded GRAVEL with silt, clay, and sand**: tan; clasts up to 0.5" in diameter; subrounded; 10-15% fines;
		wet	0.1	50/5"				GW	20-30% coarse grained sand; very dense
					55				Boring terminated at 55 feet bg.
					56				
					57				
					58				
					59				
					60				
					61				
					62				
					63				
					64				
					65				
					66				
					67				
					68				

Delta

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Project No:	SJ18-01S-1	Client:	Shell Oil Products US	Well No: MW-5
Logged By:	Heather Buckingham	Location:	1801 Santa Rita Rd, Pleasanton	Page 1 of 3
Driller:	Gregg Drilling	Date Drilled:	2/13 & 2/14/2006	Location Map
Drilling Method:	HSA	Hole Diameter:	12"	Please see site map
Sampling Method:	Split Spoon	Hole Depth:	55'	
Casing Type:	PVC sch. 40	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	55'	
Gravel Pack:	#2/12	Casing Stickup:	--	
Elevation		Northing		Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Neat Cement								AE	Asphalt (~ 2-3" thick)
		dry		Air-Knifed & Hand Augered	1			GM	**Silty GRAVEL**: light brown; 20-30% fine silt; 70-80% gravel mostly 1-2" in diameter (poorly-graded)
					2				
					3				
					4				
			0.1		5			ML	**SILT with sand**: medium brown; 10-20% fine grained sand; trace coarse grained sand; 80-90% silt
					6				
					7				
					8				
				4	9				
			3.5	7				SM	**Silty SAND with gravel**: tan; fined grained; 10-20% gravel (poorly-graded); ~4mm; 20-30% fines, 50-70% sand; medium dense
				12	10				
					11				
					12				
					13				
				4	14				
			0.2	6				CL	**Lean CLAY with sand**: brown; moderate plasticity; 15-25% fine grained sand; trace coarse grained sand; stiff
				8	15				
					16				
					17				
					18				
				3	19				
			0.2	5				ML	**Sandy SILT**: brown; very low plasticity; 30-40% fine grained sand; 60-70% silt; presence of root holes; stiff
				9	20				
					21				
					22				

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Project No:	SJ18-01S-1	Client:	Shell Oil Products US	Well No: MW-5
Logged By:	Heather Buckingham	Location:	1801 Santa Rita Rd, Pleasanton	Page 2 of 3
Driller:	Gregg Drilling	Date Drilled:	2/13 & 2/14/2006	Location Map
Drilling Method:	HSA	Hole Diameter:	12"	Please see site map
Sampling Method:	Split Spoon	Hole Depth:	55'	
Casing Type:	PVC sch. 40	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	55'	
Gravel Pack:	#2/12	Casing Stickup:	--	
Elevation		Northing		Easting

Well Completion: Backfill	Well Completion: Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample: Recovery	Sample: Interval	Soil Type	LITHOLOGY / DESCRIPTION
Neat Cement						23				
					5	24			CL	**Sandy Lean CLAY**: medium brown; 30-40% fine grained
				0.1	9					sand; moderate plasticity; very stiff
					10	25				
						26				
						27				
						28				
					1	29				
				0.1	2				SC	**Clayey SAND**: medium brown; 25-35% clay; 65-75% fine
					4	30				grained sand (poorly graded); slight plasticity; loose
						31				
						32				
						33				
					3	34				
			damp	0.1	6				CL	**Lean CLAY**: brown; moderate plasticity; trace gravels; stiff
					10	35				
						36				
						37				
						38				
					3	39				
			dry	0.2	7					
					9	40				
						41				
Bentonite						42				
						43				
					3	44				
#2/12 sand				0.1	7				CL	**Sandy Lean CLAY**: same as above
					11	45				

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Project No:	SJ18-01S-1	Client:	Shell Oil Products US	Well No: MW-5
Logged By:	Heather Buckingham	Location:	1801 Santa Rita Rd, Pleasanton	Page 3 of 3
Driller:	Gregg Drilling	Date Drilled:	2/13 & 2/14/2006	Location Map
Drilling Method:	HSA	Hole Diameter:	12"	Please see site map
Sampling Method:	Split Spoon	Hole Depth:	55'	
Casing Type:	PVC sch. 40	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	55'	
Gravel Pack:	#2/12	Casing Stickup:	--	
Elevation		Northing		Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
#2/12 sand					46				**Sandy Lean Clay** continued
					47				
					48				
		dry	0.1	3 9 14	49			CL	**Lean CLAY**: same as above
					50				
					51				
					52				
					53				
					54			SW	No recovery (53.5 - 55 feet) **Well graded sand and gravel**: tan
					55				
					56				
					57				**Boring terminated at 55 feet bg, hole sampled to 56.5 feet bg.**
					58				
					59				
					60				
					61				
					62				
					63				
					64				
					65				
					66				
					67				
					68				

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Project No:	SJ18-01S-1	Client:	Shell Oil Products US	Well No: B-1
Logged By:	Heather Buckingham	Location:	1801 Santa Rita Rd, Pleasanton	Page 1 of 3
Driller:	Gregg Drilling	Date Drilled:	2/13/2006	Location Map
Drilling Method:	HSA	Hole Diameter:	8"	Please see site map
Sampling Method:	Split Spoon	Hole Depth:	55'	
Casing Type:	--	Well Diameter:	--	
Slot Size:	--	Well Depth:	--	
Gravel Pack:	--	Casing Stickup:	--	
Elevation		Northing		Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
				Air-Knifed				AF	Asphalt surface (~2-3" thick)
		damp			2			GP	**Poorly graded GRAVEL with clay**: dark brown; 75-85% gravels up to 2" diameter; 15-25% clay
					4				(concrete slab @ 3.5' below grade)
		dry	0.1		5			CL	**Lean CLAY**: medium to dark brown; low plasticity; trace coarse grained sand
Neet Cement				6 8	9				(very stiff)
		damp	0.1	13	10			SP	**Poorly graded fine grained SAND with silt and clay**: brown; 10% fines; trace coarse grained sand
				6 9	14			CL	**Lean CLAY with sand**: medium brown mottled with grey;
		dry	0.1	15	15				20-30% fine grained sand; very stiff
				5 10	19				
			0.1	15	20				

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Project No:	SJ18-01S-1	Client:	Shell Oil Products US	Well No: B-1
Logged By:	Heather Buckingham	Location:	1801 Santa Rita Rd, Pleasanton	Page 2 of 3
Driller:	Gregg Drilling	Date Drilled:	2/13/2006	Location Map
Drilling Method:	HSA	Hole Diameter:	8"	Please see site map
Sampling Method:	Split Spoon	Hole Depth:	55'	
Casing Type:	--	Well Diameter:	--	
Slot Size:	--	Well Depth:	--	
Gravel Pack:	--	Casing Stickup:	--	
Elevation		Northing		Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Neet Cement					23			CL	**Lean CLAY with sand** continued
				9					
		dry	0.1	18	24				(hard)
				20					
					25				
					26				
					27				
					28				
				6					
		damp	0.1	8	29				
			0.1	18	30			SP	**Poorly graded fine-grained SAND with silt and clay**: grey; trace coarse grained sand; 10% fines; medium dense
					31				
					32				
					33				
				4				CL	**Lean CLAY with sand**: same as above
			0.1	7	34				
				14	35				
					36				
					37				
					38				
				6					
			0.1	9	39				(no mottling, decreased sand)
				12	40				
					41				
					42				
					43				
				6					
	▼		0.1	9	44				
				8	45				

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Project No:	SJ18-01S-1	Client:	Shell Oil Products US	Well No: B-1
Logged By:	Heather Buckingham	Location:	1801 Santa Rita Rd, Pleasanton	Page 3 of 3
Driller:	Gregg Drilling	Date Drilled:	2/13/2006	Location Map
Drilling Method:	HSA	Hole Diameter:	8"	Please see site map
Sampling Method:	Split Spoon	Hole Depth:	55'	
Casing Type:	--	Well Diameter:	--	
Slot Size:	--	Well Depth:	--	
Gravel Pack:	--	Casing Stickup:	--	
Elevation		Northing		Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Neet Cement					46			CL	**Lean CLAY with Sand** continued
					47				
					48				
	▽	dry	0.1	4 6 12	49				
					50				
					51				
					52				
					53				
		moist	0.1	4 9 12	54			SP	**Poorly graded fine grained SAND with silt and clay**: brown; trace coarse grained sand; 10-15% fines; medium dense
					55				Boring terminated at 55 feet below grade
					56				
					57				
					58				
					59				
					60				
					61				
					62				
					63				
					64				
					65				
					66				
					67				
					68				

Delta

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Project No:	SJ18-01S-1	Client:	Shell Oil Products US	Well No: B-2
Logged By:	Heather Buckingham	Location:	1801 Santa Rita Rd, Pleasanton	Page 1 of 1
Driller:	Gregg Drilling	Date Drilled:	2/9/2006	
Drilling Method:	Hand Auger	Hole Diameter:	3"	
Sampling Method:	Grab	Hole Depth:	15.5'	
Casing Type:	--	Well Diameter:	--	
Slot Size:	--	Well Depth:	--	
Gravel Pack:	--	Casing Stickup:	--	

Location Map

Please see site map

Elevation	Northing	Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Neet Cement / Casing				Air-Knifed	0			AF	Concrete ~6"
					1				(cobble @ 2')
		dry			2			CL	**Lean CLAY**: dark grey; moderate plasticity; trace fine grained sands
					3				
					4				
			0.1		5				(medium brown mottling)
					6				
					7				
				Hand Augered	8				
					9			ML	**SILT with sand**: medium tan; 70-80% fines; 20-30% fine grained sand
			0.1		10				
		moist			11				
		damp			12				
					13			CL	**Lean CLAY**: medium brown; trace fine grained sand; moderate plasticity
					14				
			0.1		15				
					16				Boring terminated at 15.5 feet below grade
					17				
					18				
					19				
					20				
					21				
					22				

Delta

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Project No:	SJ18-01S-1	Client:	Shell Oil Products US	Well No: B-4
Logged By:	Heather Buckingham	Location:	1801 Santa Rita Rd, Pleasanton	Page 1 of 3
Driller:	Gregg Drilling	Date Drilled:	2/15/2006	
Drilling Method:	HSA	Hole Diameter:	8"	
Sampling Method:	Split Spoon	Hole Depth:	55'	
Casing Type:	--	Well Diameter:	--	
Slot Size:	--	Well Depth:	--	
Gravel Pack:	--	Casing Stickup:	--	

Location Map

Please see site map

Elevation	Northing	Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Neet Cement				Air-Knifed				AF	Asphalt
					1				
					2				
					3				
					4				
		dry	0.1		5				
					6			CL	**Lean CLAY**: dark grey; low to moderate plasticity; 5-10% fine grained sand
					7				
					8				
					9				
					10			SP	**Poorly graded fine grained SAND with silt and clay**: medium grey; 10-20% fines
			0.1		11				
					12				
					13				
				3	14				
			0.1	5				CL	**Lean CLAY**: medium brown; moderate plasticity 10-15% coarse grained sand; stiff
				7	15				
					16				
					17				
					18			CL	**Sandy Lean CLAY**: light brown; low plasticity; 35-45% fine grained sand; stiff
				4	19				
			0.1	6					
				7	20				
					21				
					22				

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Project No:	SJ18-01S-1	Client:	Shell Oil Products US	Well No: B-4
Logged By:	Heather Buckingham	Location:	1801 Santa Rita Rd, Pleasanton	Page 2 of 3
Driller:	Gregg Drilling	Date Drilled:	2/15/2006	Location Map
Drilling Method:	HSA	Hole Diameter:	8"	Please see site map
Sampling Method:	Split Spoon	Hole Depth:	55'	
Casing Type:	--	Well Diameter:	--	
Slot Size:	--	Well Depth:	--	
Gravel Pack:	--	Casing Stickup:	--	
Elevation		Northing		Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Neet Cement					23				
				5	24				
			0.1	8				CL	**Lean CLAY**: medium brown; low to moderate plasticity;
				12	25				10-15% fine grained sand; very stiff
					26				
					27				
					28				
				5	29				
			0.1	5					
				7	30			SP	**Poorly graded fine-grained SAND with silt and clay**:
									medium grey; 15-25% fines; medium dense
					31				
					32				
					33				
				4	34				
		damp	0.1	8				CL	**Lean CLAY with sand**: medium brown; moderate plasticity
				5	35				15-25% fine grained sand; stiff
					36				
					37				
					38				
				5	39				
			0.1	6					
				7	40				
					41				
					42				
	▼				43				
				4	44				
		moist	0.1	6					
				7	45				

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Project No:	SJ18-01S-1	Client:	Shell Oil Products US	Well No: B-4
Logged By:	Heather Buckingham	Location:	1801 Santa Rita Rd, Pleasanton	Page 3 of 3
Driller:	Gregg Drilling	Date Drilled:	2/15/2006	
Drilling Method:	HSA	Hole Diameter:	8"	
Sampling Method:	Split Spoon	Hole Depth:	55'	
Casing Type:	--	Well Diameter:	--	
Slot Size:	--	Well Depth:	--	
Gravel Pack:	--	Casing Stickup:	--	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Neet Cement					46			CL	**Lean CLAY with Sand** (continued)
					47				
					48				
				4	49				
			0.1	6					
				7	50				
					51				
					52				
					53				
				20	54				**Well-graded SAND with silt, clay, and gravel**: tan;
	▽	wet	0.1	20					
				5	55			SW	10-15% fines; medium dense
									Boring terminated at 55 feet bg.
					56				
					57				
					58				
					59				
					60				
					61				
					62				
					63				
					64				
					65				
					66				
					67				
					68				

BORING LOG

DELTA Xinogen

Client **Shell Oil Products US**

Project Number **SJ1801S1X**

Well No. **MW-6**

Address:	Drilling Date(s): **8/13-14/07**	Boring diameter (in.): **10**	Casing Material: **Sch 40 PVC**
1801 Santa Rita Road	Drilling Company: **Test America**	Sampling Method: **Split Spoon**	Screen Interval: **40-55 feet bgs**
Pleasanton, CA	Drilling Method: **HSA**	Well Depth (ft.): **55**	Screen slot size: **0.010**
Logged By: **Sean Gehlke**	Boring Depth (ft): **55**	Casing Diameter (in.): **4**	Sand Pack: **2/12**