Transmittal

Date:	June 10, 2016	Reference No.:	240724
To:	Anne Jurek Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577		
Subject:	Shell-branded Service Station, 8999 San Ramon Road, Dublin, California		

No. of Copies	Description/Title	Drawing No./ Document Ref.	Issue
1	Closure Request		

Issued for: ☐ Your information ☒ As requested ☐ Construction ☐ Quotation
☐ Your approval/comments ☐ Returned to you ☐ For re-submission

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Remarks:
If you have any questions regarding the contents of this document, please call the GHD project manager Peter Schaefer at (510) 420-3319 or the Shell senior program manager Deborah Pryor at (323) 291-9595.

Copy to: Deborah Pryor, Shell Oil Products US

Colleen Winey, Zone 7 Water Agency

Carl Cox, C and J Cox Corporation (property owner)

Completed by: Peter Schaefer
[Please Print]

Signed:

Filing: Correspondence File

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Ms. Anne Jurek
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

June 9, 2016

Re: **8999 San Ramon Road, Dublin, California**
PlaNet Site ID 10007871
PlaNet Project ID 33028
ACEH Case No. RO0002744

Dear Ms. Jurek:

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.

As always, please feel free to contact me directly at (323) 291-9595 with any questions or concerns.

Sincerely,
Shell Oil Products US

Deborah R. Pryor
Senior Program Manager

Closure Request

Shell-branded Service Station
8999 San Ramon Road
Dublin, California

PlamNet Site ID	10007871
PlamNet Project ID	33028
Agency No.	RO0002744

Shell Oil Products US

5900 Hollis Street Suite A Emeryville California 94608 USA

(Project No) 240724 | (Phase No) 15 | (Task No) 10 | Report No 18 | (Date) June 10, 2016

Executive Summary

This report provides an evaluation of site data against the State Water Resources Control Board's (SWRCB's) Low-Threat Underground Storage Tank Case Closure Policy (the Policy).

As of the most recent groundwater sampling event in March 2016 performed by AECOM, no benzene, toluene, ethylbenzene, or total xylenes were detected in site wells. During the event, MTBE in groundwater (up to 210 μg/L) exceeded ESLs in six intermediate and deeper wells. The highest MTBE concentration was in deeper well MW-5C.

CRA's 2014 well survey identified a domestic well 2,000 feet down gradient south of the site and an irrigation well 2,700 feet down gradient south of the site. No other potential receptors were identified.

In 2014, CRA used a groundwater transport model to evaluate whether the two water producing wells down gradient from the site could potentially be impacted by residual soil and groundwater impacts from the site, principally by MTBE detected in groundwater samples collected from deeper wells. Based on CRA's groundwater transport model, it appears unlikely that groundwater pumped from these wells would be affected by residual MTBE in soil and groundwater at the subject site; and therefore, there is no human health risk due to human consumption of groundwater pumped from known water-producing wells located down gradient from the site.

The site has been adequately assessed and data demonstrates that site conditions meet the SWRCB Policy general, petroleum vapor intrusion to indoor air, and direct exposure and outdoor air criteria, but do not meet media-specific groundwater criteria.

While site conditions do not meet Policy criteria for groundwater because the MTBE plume is not delineated in deeper groundwater down gradient from the site, this site meets the majority of Policy Class 4 media-specific groundwater criteria and should be closed because:

- Residual MTBE impacts are minimal,
- The source has been removed, and the secondary source is diminishing, as demonstrated by declining MTBE concentrations in the source area and in shallow and intermediate wells, and
- A groundwater transport model has demonstrated that the closest water-supply well will not be impacted at MTBE concentrations exceeding the RWQCB ESL within 100 years.
- The groundwater transport model constrains the length of the plume exceeding WQOs to less than 1000 feet.

Therefore, GHD concludes that the residual petroleum and fuel oxygenate impacts at this site pose very little or no risk to human health or the environment and we request case closure. GHD requests that ACEH suspend the groundwater monitoring program requirement during the closure review.

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Table of Contents

1. Introduction

GHD Services Inc. (GHD) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) for the Shell-branded Service Station located at 8999 San Ramon Road, Dublin, California. This report provides an evaluation of site data against the State Water Resources Control Board's (SWRCB's) Low-Threat Underground Storage Tank Case Closure Policy (the Policy).

2. Site Background

2.1 Site Description

The site is an operating Shell branded service station located at the southeastern corner of San Ramon Road and Alcosta Boulevard in Dublin, California (Figure 1). The site layout includes a kiosk, store, three dispenser islands, four fuel underground storage tanks (USTs), and a car wash, (Figure 2).

A summary of previous work performed at the site and additional background information is presented in Appendix A.

3. Evaluation against the Policy

The site has been adequately assessed and data demonstrates that site conditions meet the SWRCB Policy general, petroleum vapor intrusion to indoor air, and direct exposure and outdoor air criteria, but do not meet media-specific groundwater criteria. All criteria are addressed below.

3.1 General Criteria

3.1.1 Unauthorized Release is Located within the Area of a Public Water System

The site and surrounding area are located within the Dublin San Ramon Services District public water system service area.

3.1.2 Unauthorized Release Consists Only of Petroleum

The site is a Shell-branded Service Station. Soil and groundwater impacts identified in site investigations since 2004 consist only of petroleum hydrocarbons and fuel additives.

3.1.3 The Unauthorized ("Primary") Release from the UST System Has Been Stopped

During station upgrades in July through September 2004, dispensers and product lines were replaced, and excavation was performed in the vicinity of the dispensers and piping after separate-phase hydrocarbons (SPHs) were observed in a shallow excavation.

3.1.4 Free Product Has Been Removed to the Maximum Extent Practicable

SPHs have not been observed in wells at the site. During the 2004 dispenser and piping replacement, SPHs were observed beneath geo-textile fabric near sample location P-6- 5.0, at the northeastern-most corner of the original fuel piping layout. Approximately 225 tons of soil from this area was subsequently excavated for off-site disposal. Soil sampling locations from the 2004 station renovation are shown in Appendix B.

3.1.5 A Conceptual Site Model (CSM) That Assessed the Nature, Extent, and Mobility of the Release Has Been Developed

Conestoga-Rovers & Associates' (CRA's) September 26, 2013 Updated Site Conceptual Model and subsequent investigation reports constitute a complete CSM for the site.

3.1.6 The Secondary Source Has Been Removed to the Extent Practicable

As stated above, approximately 225 tons of soil from the area of the original dispenser and piping layout were excavated for off-site disposal.

In March 2006, Delta conducted a groundwater extraction and dual-phase extraction (DPE) pilot test. Based on pilot testing results, Delta concluded that DPE was not a viable remediation option for the site.

No benzene, toluene, ethylbenzene, or total xylenes (BTEX) were detected in any site wells and no methyl-tertiary-butyl ether (MTBE) was detected above San Francisco Bay Regional Water Quality Control Board (RWQCB) environmental screening levels (ESLs) in shallow wells during the first quarter 2016 groundwater monitoring event. Source area MTBE concentrations are decreasing and no additional secondary source removal is warranted.

3.1.7 Soil and Groundwater have been tested for MTBE

Soil samples collected since July 2004 (Table 1) and groundwater samples collected since May 2005 (Tables 2 and 3) has been analyzed for MTBE. MTBE was removed from gasoline sold in California in December 2003. Historical soil and groundwater sampling locations are presented on Figure 2 and in Appendix B.

3.1.8 Nuisance as Defined by Water Code Section 13050 Does Not Exist

Site conditions do not interfere with enjoyment of life or property, affect an entire community or neighborhood, or present a nuisance during or as a result of the treatment or disposal of wastes.

3.2 Media-Specific Criteria

3.2.1 Groundwater

The site does not meet Policy media-specific groundwater criteria because the MTBE plume is not defined in the intermediate and deeper zones down gradient. However, groundwater fate and transport modeling presented in CRA's March 4, 2014 Updated Well Survey and Groundwater Modeling Report, which was approved in Alameda County Environmental Health's (ACEH's)

March 24, 2014 letter, predicts the plume length above WQOs to be less than 1000 feet. The site meets the majority of Class 4 requirements as discussed below.

The contaminant plume that exceeds water quality objectives is less than 1,000 feet in length. MTBE in intermediate groundwater is currently defined horizontally to the east and southeast to below the applicable ESL by wells MW-11B and MW 14B. MTBE is not defined down gradient from MW-13B. The horizontal extent of MTBE in deep groundwater is not currently defined down gradient from wells MW-13C or MW-14C. The distance from the source area to the furthest down-gradient monitor well (MW-13C) is approximately 255 feet. Though the down gradient extent of the plume in the intermediate and deep groundwater zones is unknown, modeling results constrain the MTBE plume to less than 1000 feet as discussed below.

There is no free product. SPHs have not been observed in wells at the site. During the 2004 dispenser and piping replacement, SPHs were observed beneath geo-textile fabric near sample location P-6-5.0, at the northeastern-most corner of the original fuel piping layout.

The nearest existing water supply well is greater than 1000 feet from the defined plume boundary. In 2014, CRA reviewed records for water-producing wells in the vicinity of the site and identified a domestic well approximately 2,000 feet down gradient south of the site and irrigation well approximately 2,700 feet down gradient south of the site. Based on CRA's 2014 groundwater transport model, which assumed a continuous source of 140 micrograms per liter (μg/L) MTBE (the primary constituent of concern [COC]) from the deeper down-gradient site wells, the nearest down-gradient receptor will not be impacted with MTBE concentrations exceeding the ESL in the next 100 years. While MTBE concentrations have increased in the deeper down-gradient wells to 210 μg/L, a sensitivity analysis conducted as part of the model using a continuous source of 280 μg/L from the deeper down-gradient wells conservatively predicted that the MTBE plume exceeding water quality objectives (WQOs) would be 775 feet long after 100 years. Since the nearest potential receptor well is 2,000 feet down-gradient, the receptor well will likely be more than 1,000 feet from the plume boundary for at least the next 100 years. The groundwater transport model assumes there will be a continuous source of MTBE over the 100 year time frame of the model. Given the significant reduction of MTBE at the site, it is highly unlikely that the source concentrations used in the model would stay the same over 100 years. In addition, the model did not take into account bioattenuation of the MTBE plume. These assumptions of the model make the predicted plume length a highly conservative estimate and it is likely that the MTBE plume will degrade before it reaches the potential receptor well.

The closest surface water body, Big Canyon Creek, is approximately 500 feet west (cross-gradient from the remaining MTBE plume in the intermediate and deeper zones, see Figures 3 through 5; groundwater data from March 17, 2016 is taken from AECOM's May 2, 2016 First Semiannual 2016 Groundwater Monitoring Report) from the site. While the creek is less than 1000 feet from the plume boundary, it is not likely that groundwater impacts from the site will impact Big Canyon Creek due to the depth to groundwater and its cross-gradient location.

The dissolved concentration of benzene is less than 1000 μg/L, and the dissolved concentration of MTBE is less than 1,000 μg/L. As stated above, no BTEX were detected in site wells during the first quarter 2016 groundwater monitoring event. Since groundwater monitoring began in May 2005, benzene has only been detected 12 times, with the maximum (7.7 μg/L in well MW-8) during the January 2013 groundwater sampling event.

MTBE was not detected in shallow wells during the March 2016 groundwater monitoring event and has been below the RWQCB ESL since November 2011. The maximum MTBE concentration in the intermediate groundwater zone is 26 μg/L in MW-13B. The maximum deep groundwater concentration is 210 μg/L in MW-5C.

Although all of the criteria of Class 4 are not met, the contaminant plume poses a low threat to human health and safety and to the environment. In 2014, CRA reviewed records for water-producing wells in the vicinity of the site and identified a domestic well 2,000 feet down gradient south of the site and an irrigation well 2,700 feet down gradient south of the site. No other potential receptors have been identified.

CRA then used a groundwater transport model to evaluate whether the two water producing wells could potentially be impacted by residual soil and groundwater impacts at the site, principally by MTBE detected in groundwater samples collected from deeper wells. The groundwater transport model assumed a continuous source of MTBE, which is a conservative assumption since the source has been removed. The groundwater transport model demonstrated that MTBE concentrations greater than 5 μg/L would not reach the nearest identified water-producing well after 100 years with a continuous source As stated above, the sensitivity test in the model conservatively predicted that MTBE concentrations greater than WQOs (5 μg/L) would extend a maximum of 775 feet demonstrating that COC plume length is less than 1,000 feet.

For the following reasons, MTBE impacts in groundwater do not pose an unacceptable risk to human health or the environment:

- MTBE in intermediate and deeper wells are at de minimus levels,
- The MTBE source is decreasing (instead of continuous, as assumed in the groundwater transport model) as demonstrated by declining MTBE concentrations in shallow and intermediate wells, and
- The groundwater transport model demonstrates that there is no unacceptable risk to potential down-gradient receptors.

The most recent groundwater contour and chemical concentration maps from the March 2016 event performed by AECOM are included as Figures 3 through 5. MTBE trend graphs for wells where current MTBE concentrations exceed the RWQCB ESL are presented in Figures 6 through 10. Historical groundwater analytical results are presented in Table 2, and historical grab groundwater data are presented in Table 3. Historical boring logs are presented in Appendix C.

3.2.2 Petroleum Vapor Intrusion to Indoor Air

The site is an active fueling facility, and there is no reasonable concern that subsurface contamination poses unacceptable indoor inhalation health risk.

3.2.3 Direct Contact and Outdoor Air Exposure

This site meets the direct contact and outdoor air requirements for benzene and ethylbenzene in commercial soil specified in scenario 1 in the low-threat document:

- Benzene and ethylbenzene concentrations at 0 to 5 feet below grade (fbg) are less than 8.2 milligrams per kilogram (mg/kg) and 89 mg/kg, respectively: No benzene has been

detected in soil samples collected at a depth from less than 5 fbg. Soil samples collected at a depth from less than 5 fbg have contained up to 29 mg/kg ethylbenzene.

- Benzene and ethylbenzene concentrations at 5 to 10 fbg are less than 12 mg/kg and 134 mg/kg, respectively: No benzene or ethylbenzene has been detected in soil samples collected at a depth from 5 to 10 fbg.

July 30, 2004 dispenser soil samples and soil sample P-6 collected at 5.0 fbg are not considered because these locations were subsequently excavated. Historical soil data are presented in Table 1 and historical soil sampling locations are presented on Figure 2 and in Appendix B.

4. Conclusions and Recommendations

GHD concludes that this site has been adequately assessed and meets Policy general, petroleum vapor intrusion to indoor air, and direct exposure and outdoor air criteria, but does not meet media-specific groundwater criteria.

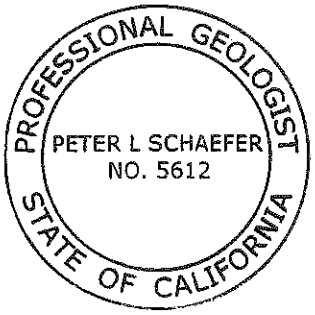
The site should be considered for closure because residual groundwater impacts do not present an unacceptable risk to human health or the environment as detailed below.

- Residual MTBE impacts are minimal; all site benzene and MTBE concentrations are below 1000 µg/L
- There are no SPHs at the site, the source has been removed, and the secondary source is diminishing, as demonstrated by declining MTBE concentrations in the source area and in shallow and intermediate wells, and
- A groundwater transport model has demonstrated that the closest water-supply well will not be impacted at MTBE concentrations exceeding the RWQCB ESL within 100 years.
- The groundwater transport model also constrains the length of the plume to less than 1000 feet.

Therefore, GHD concludes that the residual petroleum and fuel oxygenate impacts at this site pose very little or no risk to human health or the environment and we request case closure. GHD requests that ACEH suspend the groundwater monitoring program requirement during the closure review.

All of which is Respectfully Submitted,

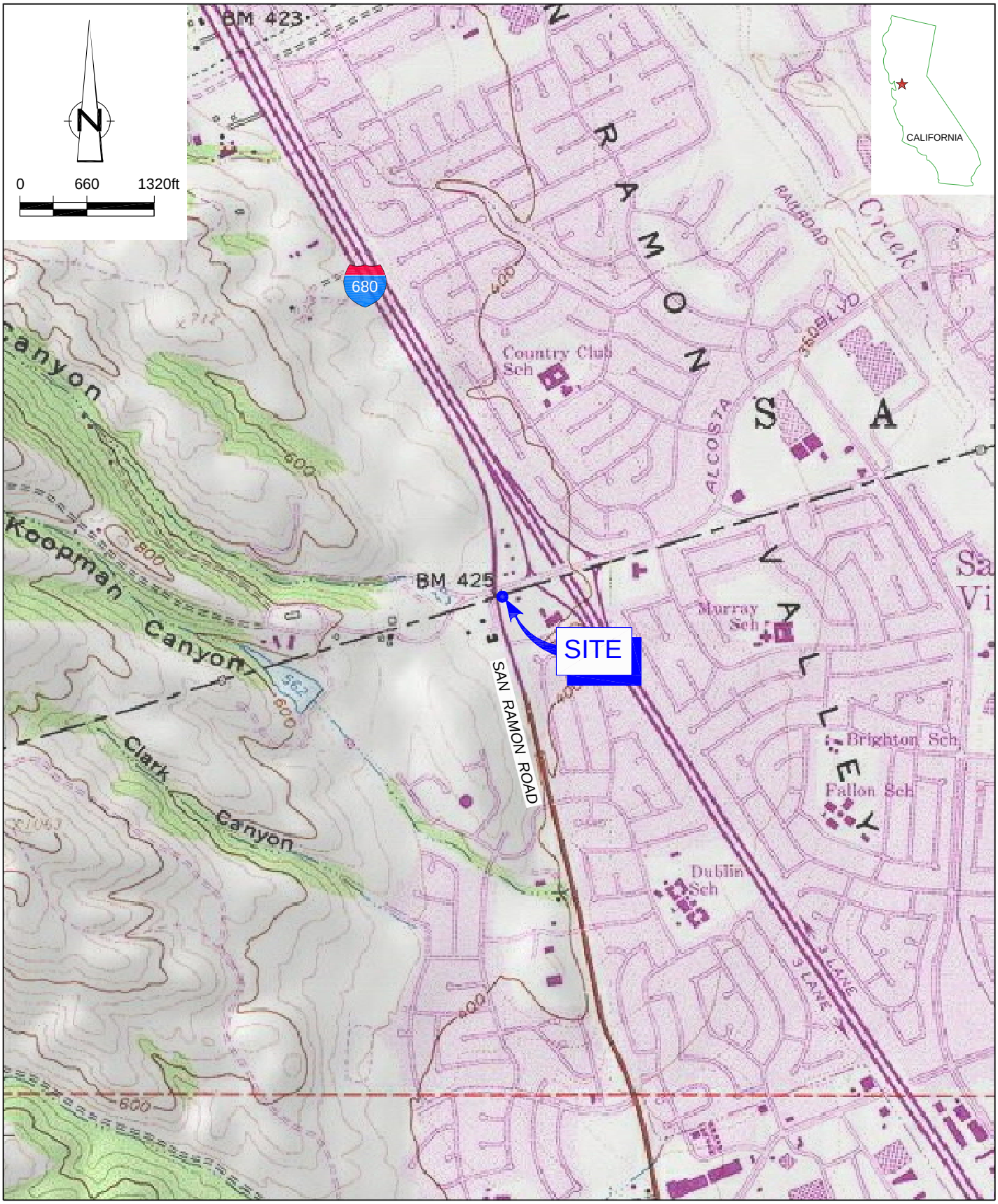
GHD



Peter Schaefer, CEG, CHG

Diane M. Lundquist, P.E.

Figures



SOURCE: TOPO! MAPS

SHELL-BRANDED SERVICE STATION
8999 SAN RAMON ROAD
DUBLIN, CALIFORNIA

240724-15.10

May 19, 2016

VICINITY MAP

FIGURE 1

CAD File: I:\Shell\6-chars\2407--\240724-Dublin 8999 San Ramon Rd\240724-FIGURES\240724-15.10(018)GN\240724-15.10(018)GN-EM001.dwg

LEGEND

- MW-5 — SHALLOW MONITORING WELL LOCATION
- MW-5B — INTERMEDIATE MONITORING WELL LOCATION
- MW-5C — DEEP MONITORING WELL LOCATION
- MW-1 — DESTROYED WELL LOCATION
- CPT-1 — CPT SAMPLING LOCATION (DELTA, 2005-2006)
- GP-1 — DIRECT PUSH BORING LOCATION (DELTA, 2005)

ALCOSTA BOULEVARD

I-680 ON-RAMP

SAN RAMON ROAD

SHELL STATION
8999 SAN RAMON RD.

MW-4, MW-3R, GP-12, GP-13, GP-11, GP-9, GP-10, GP-8, GP-7, CPT-1, MW-10, GP-5, GP-6, MW-3, GP-3, MW-2, GP-14, CPT-2, GP-2, MW-1, MW-1R, GP-1, MW-6

DISPENSER ISLANDS, KIOSK, CANOPY, USTs, PLANTER

STORE, CAR WASH, MW-2R, MW-2RB, MW-2RC

RESTAURANT & STORES, MW-8, MW-8B, MW-12, MW-11, MW-11B, MW-9

PARKING LOT, MW-7, CPT-3, MW-5C, MW-5, MW-5B, MW-14C, MW-14B

CONDOS, MW-13B, MW-13C, MW-13

0 20 40ft

GHD

SHELL-BRANDED SERVICE STATION
8999 SAN RAMON ROAD
DUBLIN, CALIFORNIA

240724-15.10
May 19, 2016

SITE PLAN

FIGURE 2

CAD File: I:\Shell\6-chars\2407--\240724-Dublin 8999 San Ramon Rd\240724-FIGURES\240724-15.10(018)GN\240724-15.10(018)GN-EM002.dwg

ALCOSTA BOULEVARD

I-680 ON-RAMP

SAN RAMON ROAD

MW-3R
395.95
<1.0
<2.0
<50

MW-1R
395.90
<1.0
<2.0
950

MW-2R
391.37
<1.0
<2.0
<50

MW-8
391.68
<1.0
<2.0
<50

MW-12
380.84
<1.0
<2.0
<50

MW-5
390.92
<1.0
<2.0
<50

MW-13
384.95
<1.0
<2.0
<50

MW-4, MW-6, MW-10, MW-3, MW-2, MW-1, MW-8B, MW-11, MW-11B, MW-2RB, MW-2RC, MW-7, MW-9, MW-5C, MW-5B, MW-14C, MW-14B, MW-13B, MW-13C

395.00, 390.00, 385.00

PLANTER, CANOPY, DISPENSER ISLANDS, KIOSK, USTs, STORE, CAR WASH, PARKING LOT, RESTAURANT & STORES, CONDOS

SHELL STATION
8999 SAN RAMON RD.

0.05

N, S, E, W

HISTORICAL SHALLOW GROUNDWATER FLOW DIRECTION
(3Q 2005 - 1Q 2016)

LEGEND

- MW-5 — SHALLOW MONITORING WELL LOCATION
- MW-5B — INTERMEDIATE MONITORING WELL LOCATION
- MW-5C — DEEP MONITORING WELL LOCATION
- MW-1 — DESTROYED WELL LOCATION
- x.xx — GROUNDWATER FLOW DIRECTION AND GRADIENT
- XX.XX — GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (FT MSL)

ID	WELL DESIGNATION
ELEV	GROUNDWATER ELEVATION, IN FT MSL
BENZ.	BENZENE, MTBE, AND TBA CONCENTRATIONS ARE IN MICROGRAMS PER LITER
MTBE	
TBA	

NOTES:

- **<X** = NOT DETECTED AT REPORTING LIMIT X
- GROUNDWATER DATA FROM AECOM'S MAY 2, 2016 FIRST SEMIANNUAL 2016 GROUNDWATER MONITORING REPORT

0 20 40ft

SHELL-BRANDED SERVICE STATION
8999 SAN RAMON ROAD
DUBLIN, CALIFORNIA

SHALLOW GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP - MARCH 17, 2016

240724-15.10
May 27, 2016

FIGURE 3

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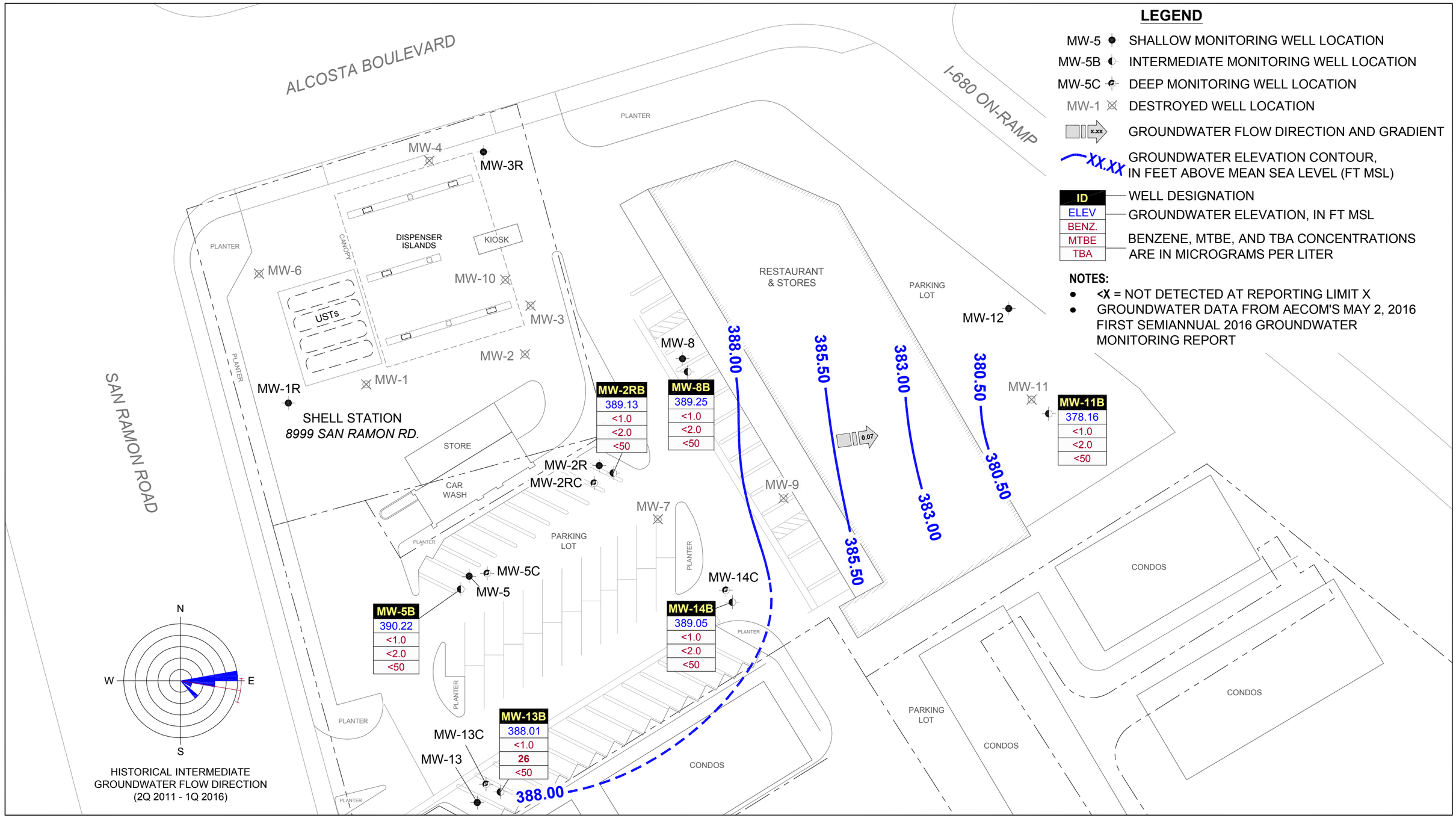

LEGEND

- MW-5 — SHALLOW MONITORING WELL LOCATION
- MW-5B — INTERMEDIATE MONITORING WELL LOCATION
- MW-5C — DEEP MONITORING WELL LOCATION
- MW-1 — DESTROYED WELL LOCATION
- x.xx — GROUNDWATER FLOW DIRECTION AND GRADIENT
- XX.XX — GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (FT MSL)

ID	WELL DESIGNATION
ELEV	GROUNDWATER ELEVATION, IN FT MSL
BENZ.	BENZENE, MTBE, AND TBA CONCENTRATIONS ARE IN MICROGRAMS PER LITER
MTBE	
TBA	

NOTES:

- **<X** = NOT DETECTED AT REPORTING LIMIT X
- GROUNDWATER DATA FROM AECOM'S MAY 2, 2016 FIRST SEMIANNUAL 2016 GROUNDWATER MONITORING REPORT

0 20 40ft

SHELL-BRANDED SERVICE STATION
8999 SAN RAMON ROAD
DUBLIN, CALIFORNIA

INTERMEDIATE GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP - MARCH 17, 2016

240724-15.10
May 27, 2016

FIGURE 4

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LEGEND

- MW-5 — SHALLOW MONITORING WELL LOCATION
- MW-5B — INTERMEDIATE MONITORING WELL LOCATION
- MW-5C — DEEP MONITORING WELL LOCATION
- MW-1 — DESTROYED WELL LOCATION
- x.xx — GROUNDWATER FLOW DIRECTION AND GRADIENT
- XX.XX — GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (FT MSL)

ID	WELL DESIGNATION
ELEV	GROUNDWATER ELEVATION, IN FT MSL
BENZ.	BENZENE, MTBE, AND TBA CONCENTRATIONS ARE IN MICROGRAMS PER LITER
MTBE	
TBA	

NOTES:

- **<X** = NOT DETECTED AT REPORTING LIMIT X
- GROUNDWATER DATA FROM AECOM'S MAY 2, 2016 FIRST SEMIANNUAL 2016 GROUNDWATER MONITORING REPORT

ALCOSTA BOULEVARD

I-680 ON-RAMP

SAN RAMON ROAD

SHELL STATION
8999 SAN RAMON RD.

MW-4, MW-3R, MW-6, MW-10, MW-3, MW-2, MW-1, MW-1R

DISPENSER ISLANDS, KIOSK, CANOPY, USTs, PLANTER

RESTAURANT & STORES, PARKING LOT, STORE, CAR WASH

MW-12, MW-8, MW-8B, MW-11, MW-11B, MW-9, MW-7

MW-2R, MW-2RB

MW-2RC
384.64
<1.0
33
<50

MW-5C
384.71
<5.0
210
<250

MW-5, MW-5B

MW-14C
381.49
<1.0
45
<50

MW-14B

MW-13C
384.57
<2.0
160
<100

MW-13, MW-13B

384.00, 383.00, 382.00, 382.00, 383.00, 384.00

0.04

CONDOS, PARKING LOT

N, S, E, W

HISTORICAL DEEPER GROUNDWATER FLOW DIRECTION (2Q 2011 - 1Q 2016)

0 20 40ft

SHELL-BRANDED SERVICE STATION
8999 SAN RAMON ROAD
DUBLIN, CALIFORNIA

DEEPER GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP - MARCH 17, 2016

240724-15.10

May 27, 2016

FIGURE 5

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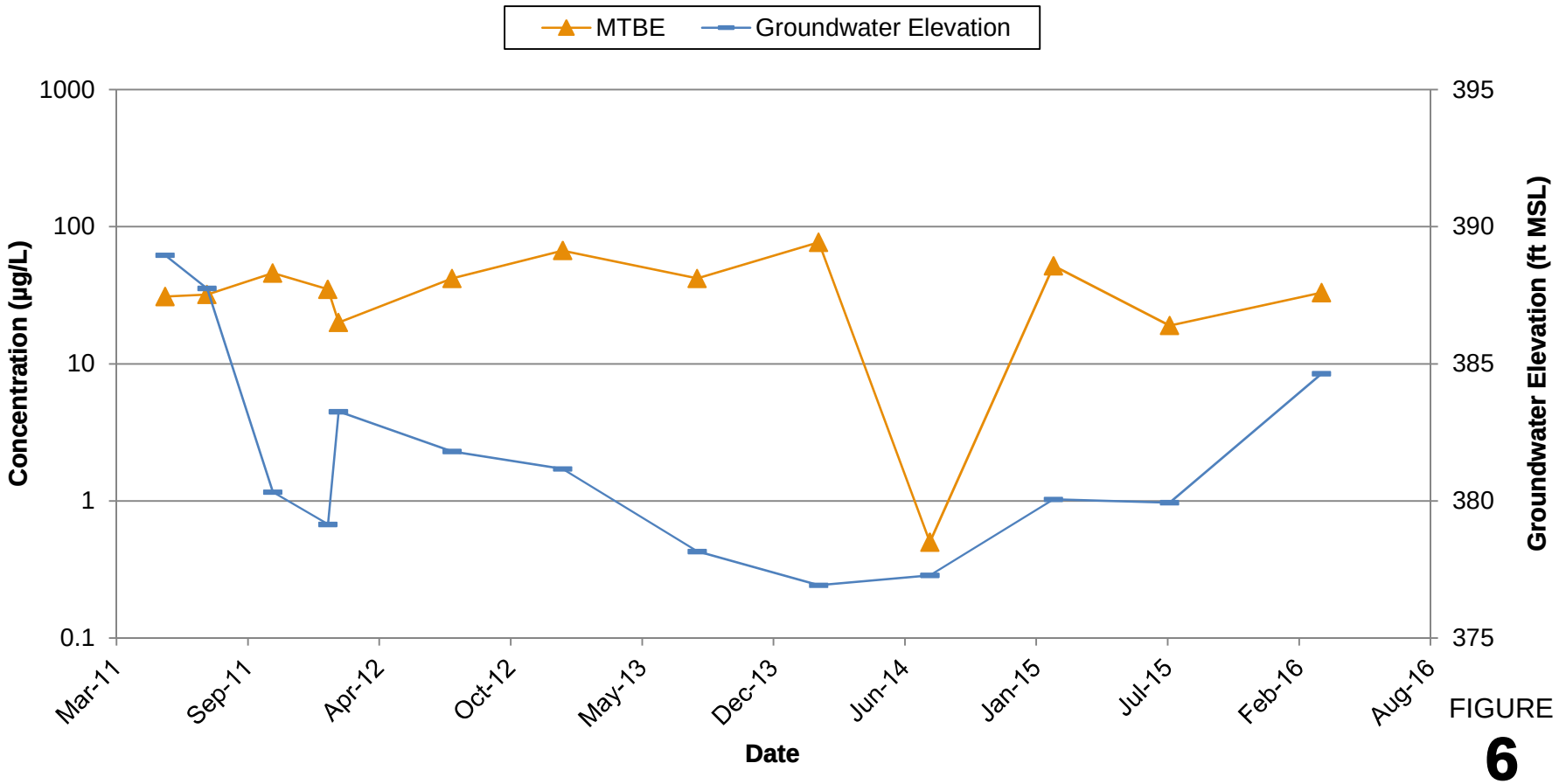

MTBE
Groundwater Elevation
1000
100
10
1
0.1
Concentration (µg/L)
395
390
385
380
375
Groundwater Elevation (ft MSL)
Mar-11
Sep-11
Apr-12
Oct-12
May-13
Dec-13
Jun-14
Jan-15
Jul-15
Feb-16
Aug-16
Date

FIGURE

6

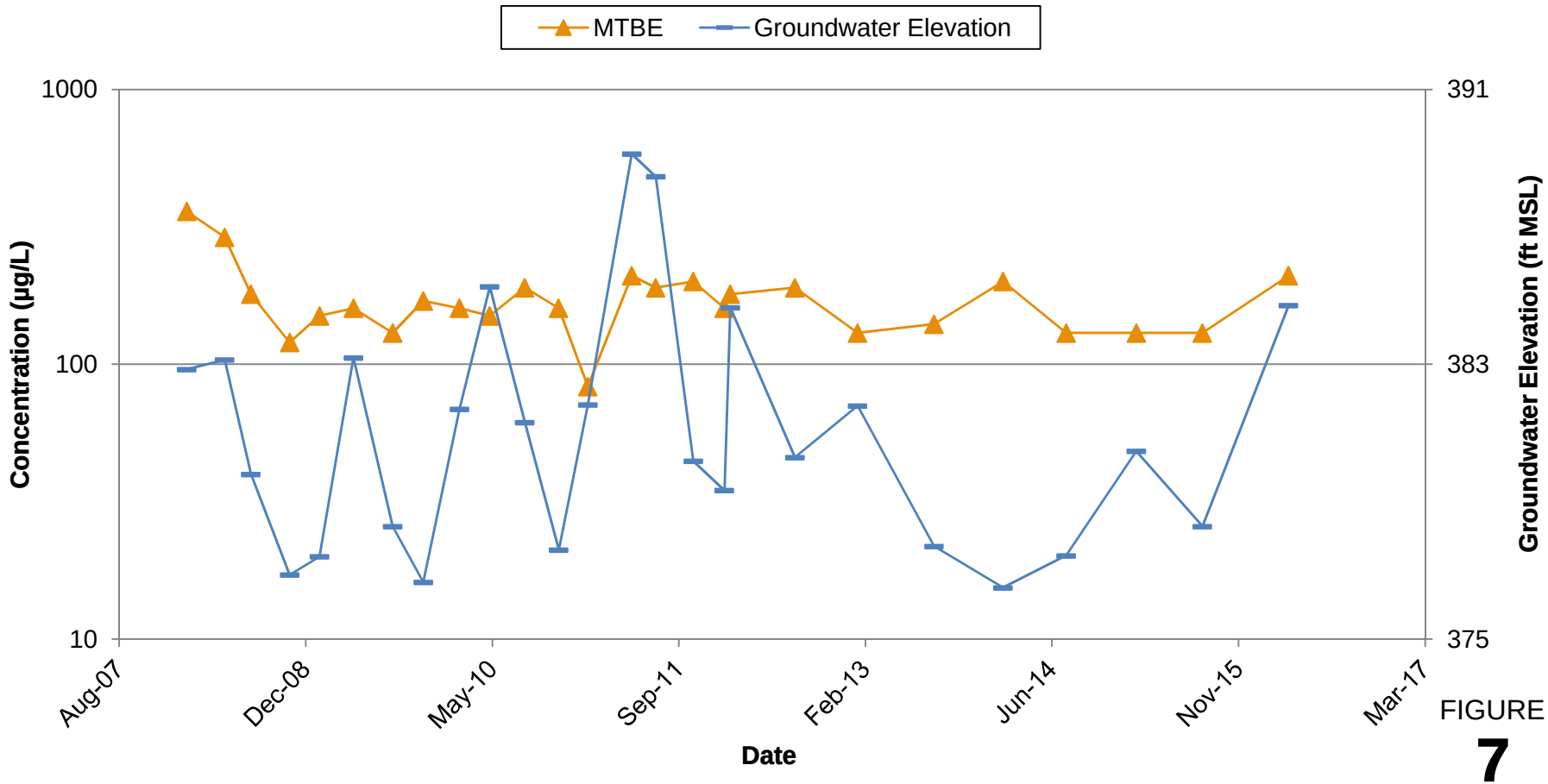
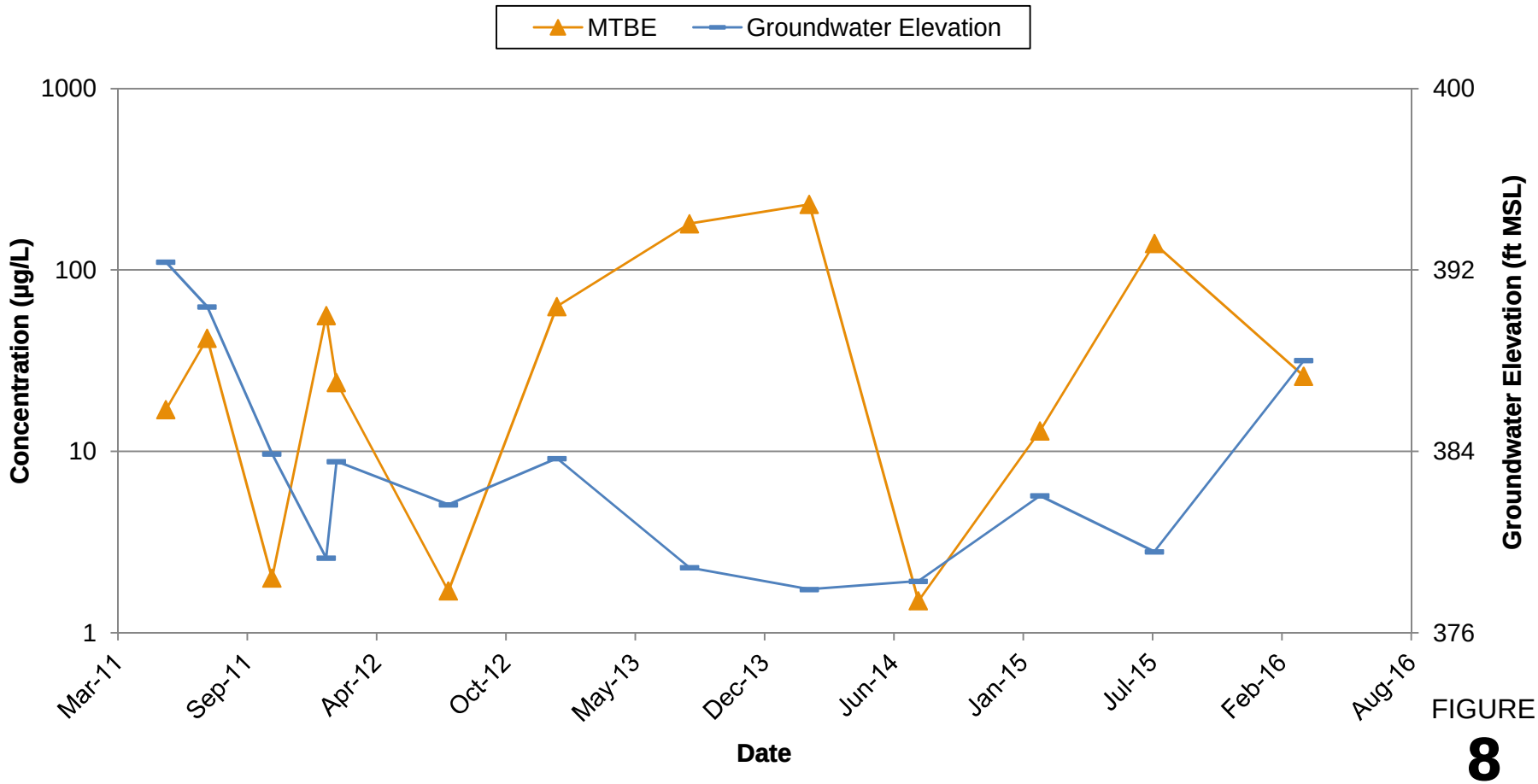


FIGURE **7**

Shell-branded Service Station
8999 San Ramon Road
Dublin, California

MW-5C:
MTBE Concentrations and
Groundwater Elevations Versus Time



FIGURE

8

Shell-branded Service Station
8999 San Ramon Road
Dublin, California

MW-13B:
MTBE Concentrations and
Groundwater Elevations Versus Time

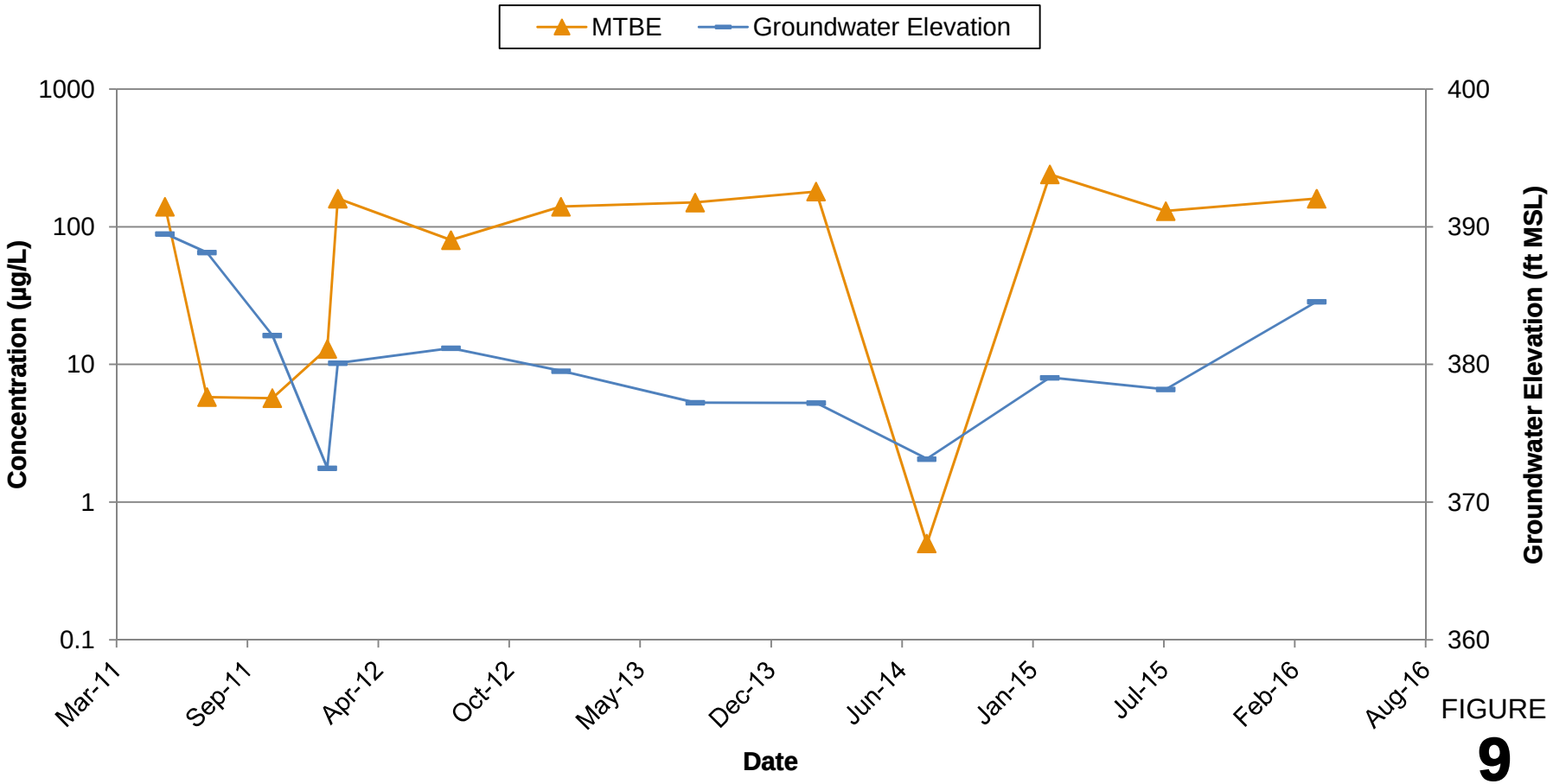


FIGURE
9

Shell-branded Service Station
8999 San Ramon Road
Dublin, California

MW-13C:
MTBE Concentrations and
Groundwater Elevations Versus Time

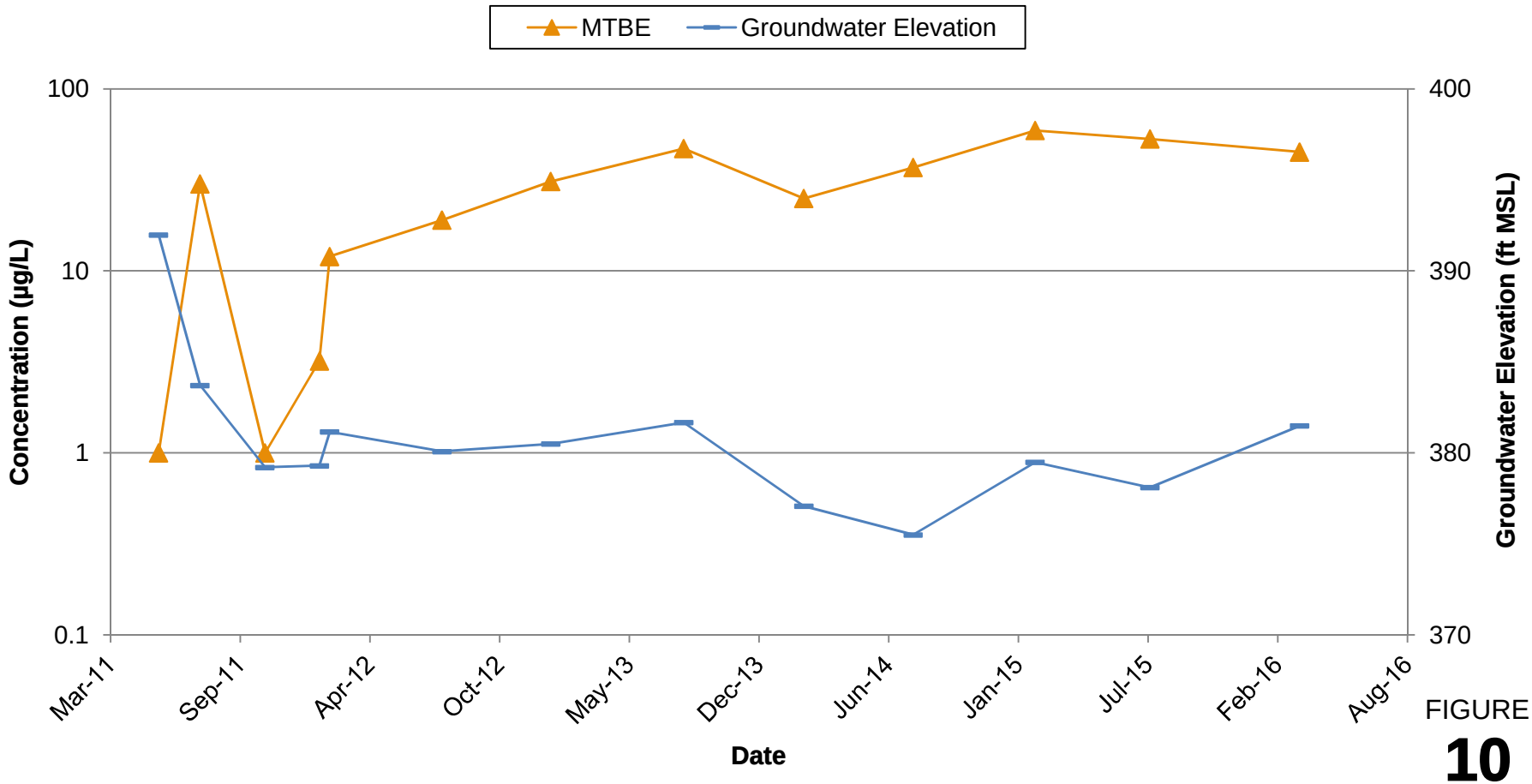


FIGURE
10

Shell-branded Service Station
8999 San Ramon Road
Dublin, California

MW-14C:
MTBE Concentrations and
Groundwater Elevations Versus Time

Tables

Table 1

Historical Soil Analytical Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Sample ID	Date	Depth (fbg)	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)	Ethanol (mg/kg)	Lead (mg/kg)
D-1-2.5	7/30/2004	2.5	---	17	<0.020	<0.020	0.10	0.49	**0.038**	0.062	<0.039	<0.020	<0.020	<0.020	<0.020	---	4.7
D-2-2.5	7/30/2004	2.5	170[a]	---	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	7.0
D-3-2.5	7/30/2004	2.5	---	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	6.2
D-4-2.5	7/30/2004	2.5	---	**4,700**	<5.0	**130**	**57**	**440**	<5.0	<25	<10	<5.0	<5.0	<5.0	<5.0	---	6.8
D-5-2.5	7/30/2004	2.5	---	<50	<0.50	<0.50	<0.50	<0.50	**9.0**	**11**	<1.0	<0.50	<0.50	<0.50	<0.50	---	6.9
D-6-2.5	7/30/2004	2.5	<1.0	---	<0.50	<0.50	<0.50	<0.50	**1.5**	**20**	<1.0	<0.50	<0.50	<0.50	<0.50	---	7.6
D-7-2.5	7/30/2004	2.5	---	<50	<0.50	<0.50	<0.50	<0.50	**1.4**	**3.3**	<1.0	<0.50	<0.50	<0.50	<0.50	---	4.6
P-1-5.0	8/25/2004	5	<1.0	<50	<0.50	<0.50	<0.50	<0.50	**4.2**	**3.8**	<1.0	<0.50	<0.50	<0.50	<0.50	<25	6.1
P-2-5.0	8/25/2004	5	28[a]	<50	<0.50	<0.50	<0.50	<0.50	<0.50	**8.4**	<1.0	<0.50	<0.50	<0.50	<0.50	<25	8.0
P-3-5.0	8/25/2004	5	<1.0	<50	<0.50	<0.50	<0.50	<0.50	**2.1**	**8.3**	<1.0	<0.50	<0.50	<0.50	<0.50	<25	4.3
P-4-5.0	8/25/2004	5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.095**	**0.71**	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	6.4
P-5-5.0	8/25/2004	5	<1.0	<4.7	<0.023	<0.023	<0.023	<0.023	**0.11**	<0.047	<0.047	<0.023	<0.023	<0.023	<0.023	<0.47	4.6
P-6-5.0	8/25/2004	5	<1.0	<1.0	<0.0050	0.018	<0.0050	0.0082	**0.048**	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	6.0
P-7-4.0	8/25/2004	4	1.7[c]	**210**	<0.50	<0.50	<0.50	1.0	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25	3.6
P-8-4.5	8/25/2004	4.5	<1.0	<50	<0.50	<0.50	<0.50	<0.50	**4.6**	**8.1**	<1.0	<0.50	<0.50	<0.50	<0.50	<25	7.0
SW-1-3.5'	8/27/2004	3.5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.031**	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
SW-1-6'	8/27/2004	6	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.021	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
SW-2-3.5'	8/27/2004	3.5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.010	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
SW-2-6'	8/27/2004	6	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.12**	0.026	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
SW-3-2'	8/27/2004	2	<1.0	<1.0	<0.0050	<0.0050	<0.0050	0.0065	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
SW-3-6'	8/27/2004	6	7.5[b]	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
SW-4-2.5'	8/27/2004	2.5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.10**	0.023	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
SW-4-6'	8/27/2004	6	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.016	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---

Table 1

Historical Soil Analytical Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Sample ID	Date	Depth (fbg)	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)	Ethanol (mg/kg)	Lead (mg/kg)
EB-1-7.5'	8/27/2004	7.5	<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	<0.1	---
T-1-4'	8/27/2004	4	<1.0	<4.6	<0.023	0.27	0.070	0.50	**0.10**	**0.078**	<0.046	<0.023	<0.023	<0.023	<0.023	<0.46	---
T-2-4'	8/27/2004	4	**9,300[c]**	**3,900**	<1.0	**32**	**7.4**	**44**	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<50	---
T-3-4'	8/27/2004	4	<1.0	<4.6	<0.023	<0.023	<0.023	<0.023	**0.25**	**0.34**	<0.046	<0.023	<0.023	<0.023	<0.023	<0.46	---
T-4-4'	8/27/2004	4	<1.0	<1.0	<0.0050	0.013	<0.0050	0.0089	**0.096**	0.047	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
TX-1-4'	9/2/2004	4	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.048**	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
TX-2-4'	9/2/2004	4	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.25**	**0.42**	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
TX-3-3.5'	9/2/2004	3.5	5.2[a]	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**1.2**	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
TX-4-4'	9/2/2004	4	44[a]	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**0.92**	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
TX-5-4'	9/2/2004	4	130[a]	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**0.72**	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
TX-7-4'	9/2/2004	4	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.028**	**0.43**	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
TX-8-4.5'	9/2/2004	5	29[a]	**280**	<0.50	<0.50	<0.50	**3.0**	<0.50	<2.5	<1.0	<0.50	<0.50	<0.50	<0.50	<25	---
TX-9-3.5'	9/2/2004	5	5.3[a]	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.30**	**0.30**	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
TX-10-3.5'	9/2/2004	5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.034**	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
TX-11-3	9/2/2004	3	<1.0	<4.5	<0.023	<0.023	<0.023	<0.023	**0.73**	**0.71**	<0.045	<0.023	<0.023	<0.023	<0.023	<0.45	---
TX-12-3'	9/2/2004	3	**1,200[a]**	<50	<0.50	<0.50	<0.50	**2.4**	**1.2**	**7.1**	<1.0	<0.50	<0.50	<0.50	<0.50	<25	---
TX-13-2.5'	9/2/2004	5	140[a]	3.9	<0.0050	0.0070	0.015	0.088	0.0058	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
TX-14-3.5'	9/2/2004	5	9.8[a]	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.071**	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
TX-15-3.5'	9/2/2004	5	48[a]	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
TX-16-3.5'	9/2/2004	5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.023**	**0.15**	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
TX-17-3.5'	9/2/2004	5	25[b]	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
TX-6-1'	9/2/2004	1	3.4[a]	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.24**	**0.49**	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
TX-6-2'	9/2/2004	2	<1.0	<4.8	<0.024	<0.024	<0.024	<0.024	**0.52**	**1.8**	<0.048	<0.024	<0.024	<0.024	<0.024	<0.48	---
TX-6-3'	9/2/2004	3	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.24**	**0.32**	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
TX-6-4'	9/2/2004	4	4.7[a]	<1.0	<0.0050	<0.0050	<0.0050	0.031	**0.22**	**0.22**	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---

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Sample ID	Date	Depth (fbg)	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)	Ethanol (mg/kg)	Lead (mg/kg)
TX-6-1a'	9/2/2004	1	30[d]	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**0.15**	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	---
TX-6-2a'	9/2/2004	2	1.1[c]	<4.8	<0.024	<0.024	<0.024	0.10	**0.098**	**0.13**	<0.048	<0.024	<0.024	<0.024	<0.024	<0.48	---
TX-6-3a'	9/2/2004	3	**290[c]**	**2,000**	<1.0	**11**	**29**	**180**	<1.0	<5.0	<2.0	<1.0	<1.0	<1.0	<1.0	<50	---
SW-5-2.5'	9/7/2004	2.5	<1.0	<3.2	<0.016	<0.016	<0.016	<0.016	**0.061**	**0.95**	<0.032	<0.016	<0.016	<0.016	<0.016	---	---
SW-6-2.5'	9/7/2004	2.5	**16,000[a]**	**8,500[e]**	<5.0	<5.0	<5.0	<5.0	<5.0	**170**	<10	<5.0	<5.0	<5.0	<5.0	---	---
SW-7-2'	9/7/2004	2	22[c]	**440[e]**	<0.50	<0.50	<0.50	<0.50	<0.50	**3.3**	<1.0	<0.50	<0.50	<0.50	<0.50	---	---
SW-8-2'	9/7/2004	2	9.9[c]	8.1[e]	<0.019	<0.019	0.019	0.11	**0.38**	**0.12**	<0.38	<0.019	<0.019	<0.019	<0.019	---	---
SW-9-1.5	9/7/2004	1.5	**540[a]**	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.033**	**0.15**	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---
SW-10-1.5'	9/7/2004	1.5	**270[a]**	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.026**	**0.18**	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---
SW-11-3.5'	9/7/2004	3.5	1.4[a]	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	**0.30**	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---
SW-12-3.5'	9/7/2004	3.5	<1.0	<3.3	<0.017	<0.017	<0.017	<0.017	<0.017	**2.3**	<0.033	<0.017	<0.017	<0.017	<0.017	---	---
SW-13-2'	9/7/2004	2	14[b]	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.010	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	---	---
SW-14-2.5'	9/7/2004	2.5	200[a]	<4.5	<0.022	<0.022	<0.022	<0.022	**0.023**	**6.5**	<0.045	<0.022	<0.022	<0.022	<0.022	---	---
GP-1@5'	5/2/2005	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	**0.12**	0.069	---	---	---	---	---	---	---
GP-1@10'	5/2/2005	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	**0.034**	**0.16**	---	---	---	---	---	---	---
GP-1@15'	5/2/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	**0.43**	**0.31**	---	---	---	---	---	---	---
GP-1@20'	5/2/2005	20	<1.0	<4.0	<0.02	<0.02	<0.02	<0.02	**0.16**	**0.28**	---	---	---	---	---	---	---
GP-1@25'	5/2/2005	25	<1.0	<3.7	<0.018	<0.018	<0.018	<0.018	<0.018	**0.56**	---	---	---	---	---	---	---
GP-2@5'	5/2/2005	5	<1.0	<50	<0.05	<0.05	<0.05	<0.05	**1.5**	<2.5	---	---	---	---	---	---	---
GP-2@10'	5/2/2005	10	1.7	<50	<0.05	<0.05	<0.05	<0.05	**0.72**	**12**	---	---	---	---	---	---	---
GP-2@15'	5/2/2005	15	<1.0	<50	<0.05	<0.05	<0.05	<0.05	**9.5**	**4.7**	---	---	---	---	---	---	---
GP-2@20'	5/2/2005	20	<1.0	<50	<0.05	<0.05	<0.05	<0.05	<0.05	**8.0**	---	---	---	---	---	---	---
GP-2@25'	5/2/2005	25	<1.0	<50	<0.05	<0.05	<0.05	<0.05	<0.05	**13**	---	---	---	---	---	---	---
GP-3@4'	4/29/2005	4	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	---	---	---	---	---	---	---
GP-3@5'	4/29/2005	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	**0.11**	0.058	---	---	---	---	---	---	---

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Sample ID	Date	Depth (fbg)	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)	Ethanol (mg/kg)	Lead (mg/kg)
GP-3@10'	5/2/2005	10	2.2	<1.0	<0.005	<0.005	<0.005	<0.005	**0.18**	0.041	---	---	---	---	---	---	---
GP-3@15'	5/2/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	**0.14**	0.035	---	---	---	---	---	---	---
GP-3@20'	5/2/2005	20	1.2	<1.0	<0.005	<0.005	<0.005	<0.005	0.022	0.011	---	---	---	---	---	---	---
GP-3@25'	5/2/2005	25	3.3	<1.0	<0.005	<0.005	<0.005	<0.005	0.023	0.037	---	---	---	---	---	---	---
GP-5@4.5'	4/29/2005	4.5	14	**1,000**	<0.5	**3.3**	**10**	**76**	<0.5	<2.5	---	---	---	---	---	---	---
GP-5@5'	4/29/2005	5	<1.0	2.1	0.031	0.033	0.071	0.56	0.010	<0.01	---	---	---	---	---	---	---
GP-5@10'	5/3/2005	10	<1.0	<50	<0.5	<0.5	<0.5	0.016	**0.32**	**0.12**	---	---	---	---	---	---	---
GP-5@15'	5/3/2005	15	1.6	<50	<0.5	<0.5	<0.5	<0.5	**6.9**	<2.5	---	---	---	---	---	---	---
GP-5@20'	5/3/2005	20	1.6	<50	<0.5	<0.5	<0.5	<0.5	**2.2**	<2.5	---	---	---	---	---	---	---
GP-5@25'	5/3/2005	25	3.8	290	<0.5	<0.5	<0.5	**9.0**	**1.7**	<2.5	---	---	---	---	---	---	---
GP-6@5'	4/29/2005	5	9.7	<50	<0.5	<0.5	<0.5	<0.5	**5.3**	**7.3**	---	---	---	---	---	---	---
GP-6@10'	5/2/2005	10	8.8	<2.1	<0.011	<0.011	<0.011	<0.011	**0.11**	**2.5**	---	---	---	---	---	---	---
GP-6@15'	5/2/2005	15	2.8	<50	<0.5	<0.5	<0.5	<0.5	**20**	**4.6**	---	---	---	---	---	---	---
GP-6@20'	5/2/2005	20	1.9	<50	<0.5	<0.5	<0.5	<0.5	**17**	<2.5	---	---	---	---	---	---	---
GP-6@25'	5/2/2005	25	1.9	<50	<0.5	<0.5	<0.5	<0.5	**1.3**	**4.5**	---	---	---	---	---	---	---
GP-7@5'	4/29/2005	5	2.3	1.5	0.0096	<0.005	0.035	0.099	**0.19**	**0.093**	---	---	---	---	---	---	---
GP-7@10'	5/2/2005	10	2.1	<50	<0.5	<0.5	<0.5	<0.5	**0.91**	<2.5	---	---	---	---	---	---	---
GP-7@15'	5/2/2005	15	38	<50	<0.5	<0.5	<0.5	<0.5	**5.3**	<2.5	---	---	---	---	---	---	---
GP-7@20'	5/2/2005	20	2.1	<50	<0.5	<0.5	<0.5	<0.5	**3.0**	<2.5	---	---	---	---	---	---	---
GP-7@25'	5/2/2005	25	6.8	<4.5	<0.023	<0.023	<0.023	<0.023	**0.83**	**1.4**	---	---	---	---	---	---	---
GP-8@3.5'	4/29/2005	3.5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	**0.34**	**0.20**	---	---	---	---	---	---	---
GP-8@5'	4/29/2005	5	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	**0.073**	0.021	---	---	---	---	---	---	---
GP-8@11'	5/3/2005	11	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	**0.38**	**0.17**	---	---	---	---	---	---	---
GP-8@15'	5/3/2005	15	1.6	<1.0	<0.005	<0.005	<0.005	<0.005	**0.37**	0.018	---	---	---	---	---	---	---
GP-8@20'	5/3/2005	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.0083	0.012	---	---	---	---	---	---	---

Table 1

Historical Soil Analytical Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Sample ID	Date	Depth (fbg)	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)	Ethanol (mg/kg)	Lead (mg/kg)
GP-8@25'	5/3/2005	25	1.2	<1.0	<0.005	<0.005	<0.005	<0.005	0.017	0.059	---	---	---	---	---	---	---
GP-9@5'	4/29/2005	5	1.7	<2.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	---	---	---	---	---	---	---
GP-9@10'	5/4/2005	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	**0.2**	**0.15**	---	---	---	---	---	---	---
GP-9@15'	5/4/2005	15	<1.0	<50	<0.5	<0.5	<0.5	<0.5	**5.6**	**3.6**	---	---	---	---	---	---	---
GP-9@20'	5/4/2005	20	<1.0	<50	<0.5	<0.5	<0.5	<0.5	**8.2**	**7.8**	---	---	---	---	---	---	---
GP-9@25'	5/4/2005	25	<1.0	<50	<0.5	<0.5	<0.5	<0.5	**3.5**	**6.5**	---	---	---	---	---	---	---
GP-10@5'	4/29/2005	5	<1.0	<4.7	<0.23	<0.23	<0.23	<0.23	**0.2**	**0.28**	---	---	---	---	---	---	---
GP-10@10'	5/4/2005	10	<1.0	<3.7	<0.019	<0.019	<0.019	<0.019	**1.3**	**1.1**	---	---	---	---	---	---	---
GP-10@15'	5/4/2005	15	<1.0	<50	<0.5	<0.5	<0.5	<0.5	**10**	**5.2**	---	---	---	---	---	---	---
GP-10@20'	5/4/2005	20	2	<50	<0.5	<0.5	<0.5	<0.5	**8.4**	<2.5	---	---	---	---	---	---	---
GP-10@25'	5/4/2005	25	<1.0	<50	<0.5	<0.5	<0.5	<0.5	**5.4**	**15**	---	---	---	---	---	---	---
GP-11@5'	4/29/2005	5	1.6	<2.0	<0.01	<0.01	<0.01	<0.01	**0.18**	0.052	---	---	---	---	---	---	---
GP-11@10'	5/3/2005	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	**0.077**	**0.077**	---	---	---	---	---	---	---
GP-11@15'	5/3/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	**0.38**	**0.37**	---	---	---	---	---	---	---
GP-11@20'	5/3/2005	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	**0.069**	**0.25**	---	---	---	---	---	---	---
GP-11@25'	5/3/2005	25	<1.0	<4.9	<0.025	<0.025	<0.025	<0.025	**1.5**	**1.0**	---	---	---	---	---	---	---
GP-12@5'	4/29/2005	5	<1.0	<2.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	---	---	---	---	---	---	---
GP-12@10'	5/4/2005	10	1.5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	---	---	---	---	---	---	---
GP-12@15'	5/4/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.014	0.024	---	---	---	---	---	---	---
GP-12@20'	5/4/2005	20	1.4	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	---	---	---	---	---	---	---
GP-12@25'	5/4/2005	25	1.7	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	---	---	---	---	---	---	---
GP-13@1.5'	4/29/2005	1.5	13	<2.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	---	---	---	---	---	---	---
GP-13@5'	4/29/2005	5	<1.0	<2.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	---	---	---	---	---	---	---
GP-13@10'	5/3/2005	10.5	1.5	<1.0	<0.005	<0.005	<0.005	<0.005	0.0057	<0.01	---	---	---	---	---	---	---

Table 1

Historical Soil Analytical Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Sample ID	Date	Depth (fbg)	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)	Ethanol (mg/kg)	Lead (mg/kg)
GP-13@15'	5/3/2005	15	11	<1.0	<0.005	<0.005	<0.005	<0.005	0.019	<0.01	---	---	---	---	---	---	---
GP-13@20'	5/3/2005	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.012	0.021	---	---	---	---	---	---	---
GP-13@25'	5/3/2005	25	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	0.021	0.016	---	---	---	---	---	---	---
GP-14@5'	4/29/2005	5	2.1	<5.0	<0.025	<0.025	<0.025	<0.025	**0.6**	**0.47**	---	---	---	---	---	---	---
GP-14@11'	5/2/2005	11	1.8	<4.0	<0.02	<0.02	<0.02	<0.02	**0.72**	**0.39**	---	---	---	---	---	---	---
GP-14@15'	5/2/2005	15	1.3	<1.0	<0.005	<0.005	<0.005	<0.005	0.0068	**0.30**	---	---	---	---	---	---	---
GP-14@20'	5/2/2005	20	<1.0	<4.7	<0.024	<0.024	<0.024	<0.024	**0.049**	**2.8**	---	---	---	---	---	---	---
GP-14@25'	5/2/2005	25	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	**0.065**	**1.1**	---	---	---	---	---	---	---
MW-1@5'	5/2/2005	5	1.3	<1.0	<0.005	<0.005	<0.005	<0.005	**0.19**	**0.16**	---	---	---	---	---	---	---
MW-1@10'	5/5/2005	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	**14**	**3.0**	---	---	---	---	---	---	---
MW-1@15'	5/5/2005	15	<1.0	<2.5	<0.025	<0.025	<0.025	0.026	**17**	**4.6**	---	---	---	---	---	---	---
MW-1@20'	5/5/2005	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	**1.2**	**2.7**	---	---	---	---	---	---	---
MW-1@25'	5/5/2005	25	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	**0.040**	**5.9**	---	---	---	---	---	---	---
MW-2@5'	5/2/2005	5	<1.0	<50	<0.5	<0.5	<0.5	<0.5	**1.2**	<2.5	---	---	---	---	---	---	---
MW-2@10'	5/5/2005	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	**0.067**	0.012	---	---	---	---	---	---	---
MW-2@15'	5/5/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---
MW-2@20'	5/5/2005	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---
MW-2@25'	5/5/2005	25	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	0.017	---	---	---	---	---	---	---
MW-3@5'	5/2/2005	5	1.2	<1.0	<0.005	<0.005	<0.005	<0.005	0.018	0.010	---	---	---	---	---	---	---
MW-3@10'	5/5/2005	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---
MW-3@15'	5/5/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---
MW-3@20'	5/5/2005	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---
MW-3@25'	5/5/2005	25	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---
MW-4@5'	5/2/2005	5	2.8	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---

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Historical Soil Analytical Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Sample ID	Date	Depth (fbg)	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)	Ethanol (mg/kg)	Lead (mg/kg)
MW-4@10'	5/6/2005	10	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	0.0057	---	---	---	---	---	---	---
MW-4@15'	5/6/2005	15	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	0.023	---	---	---	---	---	---	---
MW-4@20'	5/6/2005	20	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	0.0058	---	---	---	---	---	---	---
MW-4@25'	5/6/2005	25	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	---	---	---	---	---	---	---
Sewer Trench Backfill-2.5'	5/26/2005	2.5	1.6	<1.0	<0.005	<0.005	<0.005	<0.005	**0.044**	0.046	---	---	---	---	---	---	---
MW-6@10'	2/23/2006	10	1.2	<2.5	<0.05	<0.05	<0.05	<0.05	**1.4**	<5.0	---	---	---	---	---	---	---
MW-6@15'	2/23/2006	15	1.4	3.8	<0.05	<0.05	<0.05	<0.05	<0.05	<5.0	---	---	---	---	---	---	---
MW-6@20'	2/23/2006	20	1.5	<0.1	<0.005	<0.005	<0.005	<0.005	**0.089**	<0.02	---	---	---	---	---	---	---
MW-8@15'	7/26/2006	15	<2.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.005	<0.5	---	---	---	---	---	---	---
MW-8@20'	7/26/2006	20	<2.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.005	<0.5	---	---	---	---	---	---	---
MW-10@5'	7/25/2006	5	<2.0	<1.0	<0.005	<0.005	<0.005	<0.01	0.017	<0.5	---	---	---	---	---	---	---
MW-10@10'	7/26/2006	10	<2.0	<1.0	<0.005	<0.005	<0.005	<0.01	**0.16**	<0.5	---	---	---	---	---	---	---
MW-10@15'	7/26/2006	15	<2.0	<1.0	<0.005	<0.005	<0.005	<0.01	**0.044**	<0.5	---	---	---	---	---	---	---
MW-10@19.5'	7/26/2006	19.5	<2.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.005	<0.5	---	---	---	---	---	---	---
MW-10@25'	7/26/2006	25	<2.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.005	**0.2**	---	---	---	---	---	---	---
MW-10@28'	7/26/2006	28	<2.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.005	**0.096**	---	---	---	---	---	---	---
MW-11@5'	7/25/2006	5	<2.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.005	<0.5	---	---	---	---	---	---	---
MW-1R@10'	2/10/2010	10	**440**	<0.5	<0.005	<0.005	<0.005	<0.005	**0.032**	**1.3**	<0.01	<0.01	<0.01	---	---	---	---
MW-1R@35'	2/10/2010	35	<5	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	**0.12**	<0.01	<0.01	<0.01	---	---	---	---
MW-3R	2/11/2010	30	<5	<0.5	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.01	<0.01	<0.01	---	---	---	---

Table 1

Historical Soil Analytical Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Sample ID	Date	Depth (fbg)	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)	Ethanol (mg/kg)	Lead (mg/kg)
MW-2RC-5.5	2/22/2011	5.5	170	<0.20	<0.00099	<0.0009	<0.0009	<0.0020	<0.0020	<0.020	---	---	---	---	---	---	---
MW-2RC-15.5	2/22/2011	15.5	<5.0	<0.19	<0.00099	<0.0009	<0.0009	<0.0020	<0.0020	<0.020	---	---	---	---	---	---	---
MW-2RC-25.5	2/22/2011	25.5	<5.0	<0.20	<0.00099	<0.0009	<0.0009	<0.0020	<0.0020	<0.020	---	---	---	---	---	---	---
MW-2RC-35.5	2/22/2011	35.5	<5.0	<0.19	<0.00099	<0.0009	<0.0009	<0.0020	<0.0020	<0.020	---	---	---	---	---	---	---
MW-13C-5.5	3/2/2011	5.5	**3,600**	<0.19	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.10	---	---	---	---	---	---	---
MW-13C-15.5	3/2/2011	15.5	<5.0	<0.19	<0.00099	<0.0009	<0.0009	<0.0020	<0.0020	<0.099	---	---	---	---	---	---	---
MW-13C-25.5	3/2/2011	25.5	<5.0	<0.19	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.10	---	---	---	---	---	---	---
MW-13C-35.5	3/2/2011	35.5	<5.0	<0.19	<0.00099	<0.0009	<0.0009	<0.0020	<0.0020	<0.099	---	---	---	---	---	---	---
MW-14C-5.5	2/28/2011	5.5	26	<0.20	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.10	---	---	---	---	---	---	---
MW-14C-15.5	2/28/2011	15.5	<5.0	<0.19	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.10	---	---	---	---	---	---	---
MW-14C-25.5	2/28/2011	25.5	<5.0	<0.20	<0.00099	<0.0009	<0.0009	<0.0020	<0.0020	<0.099	---	---	---	---	---	---	---
MW-14C-35.5	2/28/2011	35.5	<5.0	<0.20	<0.0010	<0.0010	<0.0010	<0.0020	<0.0020	<0.10	---	---	---	---	---	---	---
Tier 1 Soil ESL[f]:			***230***	***100***	***0.044***	***2.9***	***1.4***	***2.3***	***0.023***	***0.075***	***NA***	***NA***	***NA***	***0.0045***	***0.00033***	***NA***	***80***

Notes:
TPHd = Total petroleum hydrocarbons as diesel analyzed by EPA Method 8015; analytical methods for 2005 and 2006 samples are unknown.
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; analytical methods for 2005 and 2006 samples are unknown.
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; analytical methods for 2005 and 2006 samples are unknown.
MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B; analytical methods for 2005 and 2006 samples are unknown.
TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B; analytical methods for 2005 and 2006 samples are unknown.
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
Ethanol analyzed by EPA Method 8260B
Lead analyzed by EPA Method 6010B
fbg = Feet below grade
mg/kg = Milligrams per kilogram

Table 1

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Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Sample ID	Date	Depth (fbg)	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)	Ethanol (mg/kg)	Lead (mg/kg)

<x = Not detected at reporting limit x
--- = Not analyzed
ESL = Environmental screening level
NA = No applicable ESL
Results in **bold** equal or exceed applicable ESL
Shading indicates that soil sample location was subsequently excavated; results are not representative of residual soil.

a = Hydrocarbon reported does not match the pattern of laboratory diesel standard.
b = Hydrocarbon reported in the late diesel range, and does not match laboratory diesel standard.
c = Hydrocarbon reported in the early diesel range, and does not match laboratory diesel standard.
d = Compound reported reflects individual or discrete unidentified peaks detected in the diesel range. The pattern does not match a typical fuel standard.
e = Hydrocarbon reported in the gasoline range does not match laboratory standard.
f = San Francisco Bay Regional Water Quality Control Board ESLs from Summary of Soil ESLs table, Soil Tier 1 ESL in *User's Guide: Derivation and Application of Environmental Screening Levels (ESLs)* , Interim Final, February 2016

Table 2

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-1	05/09/2005	---	---	---	---	---	---	---	---	---	---	---	---	20.93	---
MW-1	05/19/2005	160 a,b	<5,000	<50	<50	<50	<100	1,400	57,000	<200	<200	<200	420.06	20.70	399.36
MW-1	08/15/2005	<50 a	<5,000	<50	<50	<50	<100	360	56,000	<200	<200	<200	420.06	23.98	396.08
MW-1	11/08/2005	Well dry	---	---	---	---	---	---	---	---	---	---	420.06	---	---
MW-1	01/30/2006	438 a	585	<0.500	<0.500	<0.500	<0.500	15.6	115,000	<0.500	<0.500	<0.500	420.06	26.39	393.67
MW-1	05/19/2006	279	2,940	<0.500	<0.500	<0.500	<0.500	150	49,500	<0.500	0.940	<0.500	420.06	23.10	396.96
MW-1	08/24/2006	85.6	812	<0.500	<0.500	<0.500	<0.500	33.0	30,700	<0.500	0.890	<0.500	420.06	23.94	396.12
MW-1	11/02/2006	Well dry	---	---	---	---	---	---	---	---	---	---	420.06	---	---
MW-1	01/29/2007	Well dry	---	---	---	---	---	---	---	---	---	---	420.06	---	---
MW-1	06/05/2007	Well dry	---	---	---	---	---	---	---	---	---	---	420.06	---	---
MW-1	08/27/2007	Well dry	---	---	---	---	---	---	---	---	---	---	420.06	---	---
MW-1	11/30/2007	Well dry	---	---	---	---	---	---	---	---	---	---	420.06	---	---
MW-1	02/15/2008	Insufficient water		---	---	---	---	---	---	---	---	---	420.06	26.45	393.61
MW-1	05/22/2008	Well destroyed		---	---	---	---	---	---	---	---	---	---	---	---
MW-1R	03/11/2010	---	---	---	---	---	---	---	---	---	---	---	---	26.56	---
MW-1R	03/19/2010	<50	91	<0.50	<1.0	<1.0	<1.0	1.7	2,400	<2.0	<2.0	<2.0	---	26.09	---
MW-1R	05/07/2010	<50	140	<1.0	<2.0	<2.0	<2.0	2.2	3,300	<4.0	<4.0	<4.0	---	24.00	---
MW-1R	08/09/2010	<50	300	<2.5	<5.0	<5.0	<5.0	5.9	9,600	<10	<10	<10	---	27.91	---
MW-1R	11/08/2010	<50	86	<0.50	<1.0	<1.0	<1.0	3.3	2,500	<2.0	<2.0	<2.0	421.41	33.60	387.81
MW-1R	01/25/2011	<480	<50	<0.50	<0.50	<0.50	<1.0	1.4	1,100	<1.0	<1.0	<1.0	421.41	29.34	392.07
MW-1R	05/23/2011	<48	<250	<2.5	<2.5	<2.5	<5.0	<5.0	2,400	<5.0	<5.0	<5.0	421.41	21.29	400.12
MW-1R	07/26/2011	<48	210 e	<2.0	<2.0	<2.0	<4.0	<4.0	4,500	<4.0	<4.0	<4.0	421.41	22.70	398.71
MW-1R	11/03/2011	---	---	---	---	---	---	---	---	---	---	---	421.41	31.30	390.11
MW-1R	11/04/2011	<47	<250	<2.5	<2.5	<2.5	<5.0	5.5	5,600	<5.0	<5.0	<5.0	421.41	---	---
MW-1R	01/26/2012	<49	<50	<0.50	<0.50	<0.50	3.2	2.9	770	<0.50	<0.50	<0.50	421.41	31.60	389.81
MW-1R	05/11/2012	140	<50	<0.50	<0.50	<0.50	<1.0	0.87	610	<0.50	<0.50	<0.50	421.41	25.71	395.70
MW-1R	08/02/2012	<48	<130	<1.3	<1.3	<1.3	<2.5	1.3	2,100	<1.3	<1.3	<1.3	421.41	31.32	390.09

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-1R	01/17/2013	61	<100	1.0	1.0	<1.0	5.5	<1.0	1,600	<1.0	<1.0	<1.0	421.41	29.36	392.05
MW-1R	08/09/2013	<48	<50	<0.50	0.75	0.84	3.9	0.78	67	<0.50	<0.50	<0.50	421.41	33.03	388.38
MW-1R	02/10/2014	<48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	421.41	33.74	387.67
MW-1R	07/29/2014	---	---	---	---	---	---	---	---	---	---	---	421.41	33.92	387.49
MW-1R	07/30/2014	76	<50	<0.50	<0.50	<0.50	<1.0	0.60	<10	<0.50	<0.50	<0.50	421.41	---	---
MW-1R	02/02/2015	<48	100 j	<0.50	<0.50	<0.50	<1.0	1.5	1,400	<0.50	<0.50	<0.50	421.41	29.73	391.68
MW-1R	07/30/2015	<48	<50	<0.50	<0.50	<0.50	<1.0	1.6	290	<0.50	<0.50	<0.50	421.41	32.48	388.93
MW-1R	**03/17/2016**	**100**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**950**	**<2.0**	**<2.0**	**<2.0**	**421.41**	**25.51**	**395.90**
MW-2	05/09/2005	---	---	---	---	---	---	---	---	---	---	---	---	20.72	385.86
MW-2	05/19/2005	<50 a	<500	<5.0	<5.0	<5.0	<10	11	4,200	<20	<20	<20	418.88	21.26	381.17
MW-2	08/15/2005	<50 a	<1,000	<10	<10	<10	<20	<10	7,500	<40	<40	<40	418.88	25.33	392.60
MW-2	11/08/2005	Well dry	---	---	---	---	---	---	---	---	---	---	418.88	---	---
MW-2	01/30/2006	401 a	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	1,310	<0.500	<0.500	<0.500	418.88	25.87	393.01
MW-2	05/19/2006	134	398	<0.500	<0.500	<0.500	<0.500	7.65	4,910	<0.500	<0.500	<0.500	418.88	21.75	397.13
MW-2	08/24/2006	<46.9	<50.0	<0.500	<0.500	<0.500	<0.500	2.82	4,070	<0.500	<0.500	<0.500	418.88	24.60	394.28
MW-2	11/02/2006	Well dry	---	---	---	---	---	---	---	---	---	---	418.88	---	---
MW-2	01/29/2007	Well dry	---	---	---	---	---	---	---	---	---	---	418.88	---	---
MW-2	06/05/2007	Insufficient water		---	---	---	---	---	---	---	---	---	418.88	26.54	392.34
MW-2	08/27/2007	Well dry	---	---	---	---	---	---	---	---	---	---	418.88	---	---
MW-2	11/30/2007	Well dry	---	---	---	---	---	---	---	---	---	---	418.88	---	---
MW-2	02/15/2008	Insufficient water		---	---	---	---	---	---	---	---	---	418.88	26.15	392.73
MW-2	05/15/2008	Well destroyed		---	---	---	---	---	---	---	---	---	---	---	---
MW-2R	05/11/2011	---	---	---	---	---	---	---	---	---	---	---	415.82	20.87	394.95
MW-2R	05/23/2011	140	1,100	<0.50	<0.50	<0.50	<1.0	1.5	140	<1.0	<1.0	<1.0	415.82	25.20	390.62
MW-2R	07/26/2011	64	370	<0.50	<0.50	<0.50	<1.0	<1.0	1,200	<1.0	<1.0	<1.0	415.82	21.48	394.34
MW-2R	11/03/2011	---	---	---	---	---	---	---	---	---	---	---	415.82	28.92	386.90

Table 2

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-2R	11/04/2011	51	610	<0.50 h	<0.50 h	<0.50 h	<1.0 h	1.8 h	220 h	<1.0 h	<1.0 h	<1.0 h	415.82	---	---
MW-2R	01/26/2012	100	1,700	<1.0	<1.0	<1.0	<2.0	2.2	460	<1.0	<1.0	<1.0	415.82	29.63	386.19
MW-2R	05/11/2012	64	1,200	<0.50	<0.50	<0.50	<1.0	1.1	310	<0.50	<0.50	<0.50	415.82	25.05	390.77
MW-2R	08/02/2012	90 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.82	28.04	387.78
MW-2R	01/17/2013	160 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.82	28.80	387.02
MW-2R	08/09/2013	53	780	<1.0	<1.0	<1.0	<2.0	<1.0	59	<1.0	<1.0	<1.0	415.82	31.01	384.81
MW-2R	02/10/2014	99	1,000	<1.0	<1.0	<1.0	<2.0	<1.0	41 f	<1.0	<1.0	<1.0	415.82	31.19	384.63
MW-2R	07/29/2014	---	---	---	---	---	---	---	---	---	---	---	415.82	31.52	384.30
MW-2R	07/30/2014	57	110	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.82	---	---
MW-2R	02/02/2015	62	530	<0.50	<0.50	<0.50	<1.0	<0.50	20	<0.50	<0.50	<0.50	415.82	28.53	387.29
MW-2R	07/30/2015	48 e	650	<0.50	<0.50	<0.50	<1.0	<0.50	29	<0.50	<0.50	<0.50	415.82	30.66	385.16
MW-2R	**03/17/2016**	**98**	**430**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**<50**	**<2.0**	**<2.0**	**<2.0**	**415.82**	**24.45**	**391.37**
MW-2RB	05/11/2011	---	---	---	---	---	---	---	---	---	---	---	415.66	22.28	393.38
MW-2RB	05/23/2011	61	<50	<0.50	<0.50	<0.50	<1.0	29	10	<1.0	<1.0	<1.0	415.66	21.77	393.89
MW-2RB	07/26/2011	69	59	<0.50	<0.50	<0.50	<1.0	28	<10	<1.0	<1.0	<1.0	415.66	23.40	392.26
MW-2RB	11/03/2011	88	110	<0.50	<0.50	<0.50	<1.0	18	<10	<1.0	<1.0	<1.0	415.66	30.72	384.94
MW-2RB	01/26/2012	150	<50	<0.50	<0.50	<0.50	<1.0	10	<10	<0.50	<0.50	<0.50	415.66	31.42	384.24
MW-2RB	05/11/2012	<48	490	<0.50	<0.50	<0.50	<1.0	1.1	<10	<0.50	<0.50	<0.50	415.66	26.83	388.83
MW-2RB	08/02/2012	250 e	350 e	<0.50	<0.50	<0.50	<1.0	0.75	<10	<0.50	<0.50	<0.50	415.66	30.57	385.09
MW-2RB	01/17/2013	180 e	300 e	<0.50	<0.50	<0.50	<1.0	0.50	<10	<0.50	<0.50	<0.50	415.66	29.80	385.86
MW-2RB	08/09/2013	<48	200	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.66	32.70	382.96
MW-2RB	02/10/2014	92	110	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.66	33.36	382.30
MW-2RB	07/29/2014	---	---	---	---	---	---	---	---	---	---	---	415.66	33.26	382.40
MW-2RB	07/30/2014	52	76	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.66	---	---
MW-2RB	02/02/2015	120	<50	<0.50	<0.50	<0.50	<1.0	3.3	<10	<0.50	<0.50	<0.50	415.66	30.69	384.97
MW-2RB	07/30/2015	160 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.66	32.47	383.19
MW-2RB	**03/17/2016**	**96**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**<50**	**<2.0**	**<2.0**	**<2.0**	**415.66**	**26.53**	**389.13**

Table 2

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-2RC	05/11/2011	---	---	---	---	---	---	---	---	---	---	---	415.97	27.01	388.96
MW-2RC	05/13/2011	---	---	---	---	---	---	---	---	---	---	---	415.97	29.95	386.02
MW-2RC	05/23/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	31	14	<1.0	<1.0	<1.0	415.97	27.01	388.96
MW-2RC	07/26/2011	<49	69	<0.50	<0.50	<0.50	<1.0	32	<10	<1.0	<1.0	<1.0	415.97	28.22	387.75
MW-2RC	11/03/2011	---	---	---	---	---	---	---	---	---	---	---	415.97	35.65	380.32
MW-2RC	11/04/2011	<48	<50	<0.50	<0.50	<0.50	<1.0	46	<10	<1.0	<1.0	<1.0	415.97	---	---
MW-2RC	01/26/2012	47	<50	<0.50	<0.50	<0.50	<1.0	35	<10	<1.0	<1.0	<1.0	415.97	36.82	379.15
MW-2RC	05/11/2012	<47	<50	<0.50	<0.50	<0.50	<1.0	20	<10	<0.50	<0.50	<0.50	415.97	32.71	383.26
MW-2RC	08/02/2012	95 e	54	<0.50	<0.50	<0.50	<1.0	42	<10	<0.50	<0.50	<0.50	415.97	34.27	381.70
MW-2RC	01/17/2013	290 e	83 i	<0.50	<0.50	<0.50	<1.0	67	<10	<0.50	<0.50	<0.50	415.97	34.80	381.17
MW-2RC	08/09/2013	<48	<50	<0.50	<0.50	<0.50	<1.0	42	14	<0.50	<0.50	<0.50	415.97	37.81	378.16
MW-2RC	02/10/2014	68	63	<0.50	<0.50	<0.50	<1.0	77	<10	<0.50	<0.50	<0.50	415.97	39.04	376.93
MW-2RC	07/29/2014	---	---	---	---	---	---	---	---	---	---	---	415.97	38.68	377.29
MW-2RC	07/30/2014	320 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.97	---	---
MW-2RC	02/02/2015	100	98 i	<0.50	<0.50	<0.50	<1.0	52	<10	<0.50	<0.50	<0.50	415.97	35.91	380.06
MW-2RC	07/30/2015	<48	<50	<0.50	<0.50	<0.50	<1.0	19	<10	<0.50	<0.50	<0.50	415.97	36.03	379.94
MW-2RC	**03/17/2016**	**99**	**180 l**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**33**	**<50 k**	**<2.0**	**<2.0**	**<2.0**	**415.97**	**31.33**	**384.64**
MW-3	05/09/2005	---	---	---	---	---	---	---	---	---	---	---	---	19.08	---
MW-3	05/19/2005	120 b	<50	<0.50	<0.50	<0.50	<1.0	40	6.5	<2.0	<2.0	<2.0	417.24	19.08	398.16
MW-3	08/15/2005	73 a	<50	<0.50	<0.50	<0.50	<1.0	34	<5.0	<2.0	<2.0	<2.0	417.24	22.20	395.04
MW-3	11/08/2005	Well dry	---	---	---	---	---	---	---	---	---	---	417.24	---	---
MW-3	01/30/2006	412 a	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	417.24	23.64	393.60
MW-3	05/19/2006	183	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	<10.0	<0.500	<0.500	<0.500	417.24	19.00	398.24
MW-3	08/24/2006	214	<50.0	<0.500	<0.500	<0.500	<0.500	3.11	661	<0.500	<0.500	<0.500	417.24	21.84	395.40
MW-3	11/02/2006	Well dry	---	---	---	---	---	---	---	---	---	---	417.24	---	---
MW-3	01/29/2007	Well dry	---	---	---	---	---	---	---	---	---	---	417.24	---	---

Table 2

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-3	06/05/2007	230	<50 c	<0.50	<1.0	<1.0	<1.0	0.38 d	<10	<2.0	<2.0	<2.0	417.24	23.80	393.44
MW-3	08/27/2007	Well dry	---	---	---	---	---	---	---	---	---	---	417.24	---	---
MW-3	11/30/2007	Well dry	---	---	---	---	---	---	---	---	---	---	417.24	---	---
MW-3	02/15/2008	Insufficient water		---	---	---	---	---	---	---	---	---	417.24	23.60	393.64
MW-3	05/15/2008	Well destroyed		---	---	---	---	---	---	---	---	---	---	---	---
MW-3R	03/11/2010	---	---	---	---	---	---	---	---	---	---	---	---	22.60	---
MW-3R	03/19/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	22.30	---
MW-3R	05/07/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	21.14	---
MW-3R	08/09/2010	<50	<50	4.7	<1.0	<1.0	1.2	<1.0	<10	<2.0	<2.0	<2.0	---	24.20	---
MW-3R	11/08/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	417.18	27.60	389.58
MW-3R	01/25/2011	<490	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	417.18	24.36	392.82
MW-3R	05/23/2011	<48	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	417.18	18.31	398.87
MW-3R	07/26/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	417.18	18.72	398.46
MW-3R	11/03/2011	---	---	---	---	---	---	---	---	---	---	---	417.18	25.59	391.59
MW-3R	11/04/2011	77	<50 g	<0.50 g	<0.50 g	<0.50 g	<1.0 g	<1.0 g	<10 g	<1.0 g	<1.0 g	<1.0 g	417.18	---	---
MW-3R	01/26/2012	110	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	417.18	26.14	391.04
MW-3R	05/11/2012	55	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	417.18	22.25	394.93
MW-3R	08/02/2012	60 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	417.18	25.50	391.68
MW-3R	01/17/2013	78 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	417.18	24.58	392.60
MW-3R	08/09/2013	120	57	<0.50	1.4	1.7	7.9	<0.50	<10	<0.50	<0.50	<0.50	417.18	27.21	389.97
MW-3R	02/10/2014	<51	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	417.18	27.50	389.68
MW-3R	07/29/2014	---	---	---	---	---	---	---	---	---	---	---	417.18	27.94	389.24
MW-3R	07/30/2014	<48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	417.18	---	---
MW-3R	02/02/2015	77	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	417.18	24.68	392.50
MW-3R	07/30/2015	<48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	417.18	26.63	390.55
MW-3R	**03/17/2016**	**50**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**<50**	**<2.0**	**<2.0**	**<2.0**	**417.18**	**21.23**	**395.95**

Table 2

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-4	05/09/2005	---	---	---	---	---	---	---	---	---	---	---	---	19.77	---
MW-4	05/19/2005	59 b	97	0.66	<0.50	<0.50	<1.0	4.8	8.2	<2.0	<2.0	<2.0	420.52	19.85	400.67
MW-4	08/15/2005	<50 a	67	<0.50	<0.50	<0.50	<1.0	0.86	<5.0	<2.0	<2.0	<2.0	420.52	23.34	397.18
MW-4	11/08/2005	Well dry	---	---	---	---	---	---	---	---	---	---	420.52	---	---
MW-4	01/30/2006	112 a	<50.0	<0.500	<0.500	<0.500	<0.500	1.63	<10.0	<0.500	<0.500	<0.500	420.52	24.13	396.39
MW-4	05/19/2006	<46.9	<50.0	<0.500	<0.500	<0.500	<0.500	1.08	<10.0	<0.500	<0.500	<0.500	420.52	19.79	400.73
MW-4	08/24/2006	<47.2	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	78.3	<0.500	<0.500	<0.500	420.52	22.50	398.02
MW-4	11/02/2006	Well dry	---	---	---	---	---	---	---	---	---	---	420.52	---	---
MW-4	01/29/2007	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	420.52	25.82	394.70
MW-4	06/05/2007	120	62 c	<0.50	<1.0	<1.0	<1.0	1.4	<10	<2.0	<2.0	<2.0	420.52	24.32	396.20
MW-4	08/27/2007	Well dry	---	---	---	---	---	---	---	---	---	---	420.52	---	---
MW-4	11/30/2007	Well dry	---	---	---	---	---	---	---	---	---	---	420.52	---	---
MW-4	02/15/2008	<50	56 c	<0.50	<1.0	<1.0	<1.0	2.9	<10	<2.0	<2.0	<2.0	420.52	24.34	396.18
MW-4	05/15/2008	Well destroyed		---	---	---	---	---	---	---	---	---	---	---	---
MW-5	08/21/2006	---	---	---	---	---	---	---	---	---	---	---	416.88	25.25	391.63
MW-5	08/24/2006	108	<50.0	<0.500	<0.500	<0.500	<0.500	3.33	21.0	<0.500	<0.500	<0.500	416.88	25.70	391.18
MW-5	11/02/2006	---	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	416.88	28.00	388.88
MW-5	01/29/2007	66	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	416.88	27.80	389.08
MW-5	06/05/2007	2,200 b	<50 c	<0.50	<1.0	<1.0	<1.0	0.56 d	<10	<2.0	<2.0	<2.0	416.88	27.72	389.16
MW-5	08/27/2007	Well dry	---	---	---	---	---	---	---	---	---	---	416.88	---	---
MW-5	11/30/2007	Insufficient water		---	---	---	---	---	---	---	---	---	416.88	28.39	388.49
MW-5	02/15/2008	Insufficient water		---	---	---	---	---	---	---	---	---	416.88	27.55	389.33
MW-5	05/27/2008	83	<50	<0.50	<1.0	<1.0	<1.0	4.3	<10	<2.0	<2.0	<2.0	416.88	26.68	390.20
MW-5	08/05/2008	Well dry	---	---	---	---	---	---	---	---	---	---	416.88	---	---
MW-5	11/17/2008	Insufficient water		---	---	---	---	---	---	---	---	---	416.88	28.48	388.40
MW-5	02/05/2009	Well dry	---	---	---	---	---	---	---	---	---	---	416.88	---	---
MW-5	05/07/2009	Insufficient water		---	---	---	---	---	---	---	---	---	416.88	27.78	389.10

Table 2

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-5	08/20/2009	Well dry	---	---	---	---	---	---	---	---	---	---	416.88	---	---
MW-5	11/10/2009	Well dry	---	---	---	---	---	---	---	---	---	---	416.88	---	---
MW-5	02/15/2010	Well dry	---	---	---	---	---	---	---	---	---	---	416.88	---	---
MW-5	03/19/2010	---	---	---	---	---	---	---	---	---	---	---	416.88	26.18	390.70
MW-5	05/07/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	1.5	<10	<2.0	<2.0	<2.0	416.88	23.64	393.24
MW-5	08/09/2010	Insufficient water		---	---	---	---	---	---	---	---	---	416.88	28.41	388.47
MW-5	11/08/2010	Well dry	---	---	---	---	---	---	---	---	---	---	416.88	---	---
MW-5	01/25/2011	Well dry	---	---	---	---	---	---	---	---	---	---	416.88	---	---
MW-5	05/23/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	1.3	<10	<1.0	<1.0	<1.0	416.88	21.31	395.57
MW-5	07/26/2011	<50	<50	<0.50	<0.50	<0.50	<1.0	1.4	<10	<1.0	<1.0	<1.0	416.88	22.87	394.01
MW-5	11/03/2011	Well dry	---	---	---	---	---	---	---	---	---	---	416.88	---	---
MW-5	01/26/2012	Insufficient water		---	---	---	---	---	---	---	---	---	416.88	28.23	388.65
MW-5	05/11/2012	65	<50	<0.50	<0.50	<0.50	<1.0	0.56	<10	<0.50	<0.50	<0.50	416.88	25.93	390.95
MW-5	08/02/2012	Well dry	---	---	---	---	---	---	---	---	---	---	416.88	---	---
MW-5	01/17/2013	Well dry	---	---	---	---	---	---	---	---	---	---	416.88	---	---
MW-5	08/09/2013	Well dry	---	---	---	---	---	---	---	---	---	---	416.88	---	---
MW-5	02/10/2014	Well dry	---	---	---	---	---	---	---	---	---	---	416.88	---	---
MW-5	07/29/2014	Well dry	---	---	---	---	---	---	---	---	---	---	416.88	---	---
MW-5	02/02/2015	Well dry	---	---	---	---	---	---	---	---	---	---	416.88	---	---
MW-5	07/30/2015	Well dry	---	---	---	---	---	---	---	---	---	---	416.88	---	---
MW-5	**03/17/2016**	**69**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**<50**	**<2.0**	**<2.0**	**<2.0**	**416.88**	**25.96**	**390.92**
MW-5B	02/07/2008	---	---	---	---	---	---	---	---	---	---	---	417.66	29.74	387.92
MW-5B	02/15/2008	<50	110 b,c	<0.50	<1.0	<1.0	<1.0	1,700	250	<2.0	<2.0	<2.0	417.66	28.85	388.81
MW-5B	05/27/2008	<50	620	<2.5	<5.0	<5.0	<5.0	590	<50	<10	<10	<10	417.66	27.89	389.77
MW-5B	08/05/2008	140	470	<2.5	<5.0	<5.0	<5.0	430	<50	<10	<10	<10	417.66	32.21	385.45
MW-5B	11/17/2008	<50	1,100	<2.5	<5.0	<5.0	<5.0	830	<50	<10	<10	<10	417.66	35.25	382.41
MW-5B	02/05/2009	<50	1,100	<2.5	<5.0	<5.0	<5.0	1,000	<50	<10	<10	<10	417.66	34.94	382.72

Table 2

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-5B	05/07/2009	<50	680	<2.5	<5.0	<5.0	<5.0	780	<50	<10	<10	<10	417.66	28.58	389.08
MW-5B	08/20/2009	<50	800	<2.5	<5.0	<5.0	<5.0	840	<50	<10	<10	<10	417.66	32.66	385.00
MW-5B	11/10/2009	<50	790	<2.5	<5.0	<5.0	<5.0	750	<50	<10	<10	<10	417.66	34.64	383.02
MW-5B	02/15/2010	<50	710	<2.5	<5.0	<5.0	<5.0	730	<50	<10	<10	<10	417.66	30.20	387.46
MW-5B	03/19/2010	---	---	---	---	---	---	---	---	---	---	---	417.66	27.39	390.27
MW-5B	05/07/2010	<50	230	<1.0	<2.0	<2.0	<2.0	330	<20	<4.0	<4.0	<4.0	417.66	26.13	391.53
MW-5B	08/09/2010	<50	310	<1.0	<2.0	<2.0	<2.0	360	<20	<4.0	<4.0	<4.0	417.66	30.31	387.35
MW-5B	11/08/2010	<50	340	<1.0	<2.0	<2.0	<2.0	370	<20	<4.0	<4.0	<4.0	417.66	24.80	392.86
MW-5B	01/25/2011	<480	120	<1.2	<1.2	<1.2	<2.5	210	200	<2.5	<2.5	<2.5	417.66	30.25	387.41
MW-5B	05/23/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	72	<10	<1.0	<1.0	<1.0	417.66	22.41	395.25
MW-5B	07/26/2011	150 e	<50	0.70	0.84	0.61	2.0	26	<10	<1.0	<1.0	<1.0	417.66	24.17	393.49
MW-5B	11/03/2011	---	---	---	---	---	---	---	---	---	---	---	417.66	31.59	386.07
MW-5B	11/04/2011	<47	250	<0.50	<0.50	<0.50	<1.0	290	12 f	<1.0	<1.0	<1.0	417.66	---	---
MW-5B	01/26/2012	120	<50	<0.50	<0.50	<0.50	<1.0	8.8	<10	<0.50	<0.50	<0.50	417.66	33.58	384.08
MW-5B	05/11/2012	81	<50	<0.50	<0.50	<0.50	<1.0	34	<10	<0.50	<0.50	<0.50	417.66	27.19	390.47
MW-5B	08/02/2012	<48	290 i	<1.0	<1.0	<1.0	<2.0	260	<20	<1.0	<1.0	<1.0	417.66	32.30	385.36
MW-5B	01/17/2013	110 e	<50	<0.50	<0.50	<0.50	<1.0	12	<10	<0.50	<0.50	<0.50	417.66	30.82	386.84
MW-5B	08/09/2013	69 e	190	<0.50	<0.50	<0.50	2.0	180	<10	<0.50	<0.50	<0.50	417.66	33.94	383.72
MW-5B	02/10/2014	73	140 i	<0.50	<0.50	<0.50	<1.0	190	<10	<0.50	<0.50	<0.50	417.66	35.90	381.76
MW-5B	07/29/2014	---	---	---	---	---	---	---	---	---	---	---	417.66	35.13	382.53
MW-5B	07/30/2014	180 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	417.66	---	---
MW-5B	02/02/2015	51	<50	<0.50	<0.50	<0.50	<1.0	8.6	<10	<0.50	<0.50	<0.50	417.66	31.97	385.69
MW-5B	07/30/2015	110 e	83 i	<0.50	<0.50	<0.50	<1.0	77	<10	<0.50	<0.50	<0.50	417.66	34.83	382.83
MW-5B	**03/17/2016**	**160**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**<50**	**<2.0**	**<2.0**	**<2.0**	**417.66**	**27.44**	**390.22**
MW-5C	02/07/2008	---	---	---	---	---	---	---	---	---	---	---	417.10	33.97	383.13
MW-5C	02/15/2008	<50	<50 c	<0.50	<1.0	<1.0	<1.0	360	97	<2.0	<2.0	<2.0	417.10	34.25	382.85
MW-5C	05/27/2008	<50	350	<2.5	<5.0	<5.0	<5.0	290	<50	<10	<10	<10	417.10	33.97	383.13

Table 2

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-5C	08/05/2008	<50	210	<1.0	<2.0	<2.0	<2.0	180	<20	<4.0	<4.0	<4.0	417.10	37.30	379.80
MW-5C	11/17/2008	<50	180	<1.0	<2.0	<2.0	<2.0	120	<20	<4.0	<4.0	<4.0	417.10	40.23	376.87
MW-5C	02/05/2009	<50	180	<1.0	<2.0	<2.0	<2.0	150	<20	<4.0	<4.0	<4.0	417.10	39.70	377.40
MW-5C	05/07/2009	<50	150	<1.0	<2.0	<2.0	<2.0	160	<20	<4.0	<4.0	<4.0	417.10	33.91	383.19
MW-5C	08/20/2009	<50	150	<1.0	<2.0	<2.0	<2.0	130	<20	<4.0	<4.0	<4.0	417.10	38.82	378.28
MW-5C	11/10/2009	<50	190	<1.0	<2.0	<2.0	<2.0	170	<20	<4.0	<4.0	<4.0	417.10	40.44	376.66
MW-5C	02/15/2010	<50	150	<0.50	<1.0	<1.0	<1.0	160	<10	<2.0	<2.0	<2.0	417.10	35.41	381.69
MW-5C	03/19/2010	---	---	---	---	---	---	---	---	---	---	---	417.10	33.08	384.02
MW-5C	05/07/2010	<50	110	<0.50	<1.0	<1.0	<1.0	150	<10	<2.0	<2.0	<2.0	417.10	31.84	385.26
MW-5C	08/09/2010	<50	160	0.73	<1.0	<1.0	<1.0	190	<10	<2.0	<2.0	<2.0	417.10	35.79	381.31
MW-5C	11/08/2010	66 b	150	<0.50	<1.0	<1.0	<1.0	160	<10	<2.0	<2.0	<2.0	417.10	39.50	377.60
MW-5C	01/25/2011	<480	<50	<0.50	<0.50	<0.50	<1.0	83	91	<1.0	<1.0	<1.0	417.10	35.28	381.82
MW-5C	05/23/2011	<47	160 e	<0.50	<0.50	<0.50	<1.0	210	<10	<1.0	<1.0	<1.0	417.10	27.98	389.12
MW-5C	07/26/2011	110 e	210 e	<0.50	0.59	<0.50	1.7	190	14 f	<1.0	<1.0	<1.0	417.10	28.64	388.46
MW-5C	11/03/2011	---	---	---	---	---	---	---	---	---	---	---	417.10	36.92	380.18
MW-5C	11/04/2011	<47	170	<0.50	<0.50	<0.50	<1.0	200	<10	<1.0	<1.0	<1.0	417.10	---	---
MW-5C	01/26/2012	53	150	<0.50	0.54	0.82	6.0	160	<10	<0.50	<0.50	<0.50	417.10	37.77	379.33
MW-5C	05/11/2012	<48	120	<0.50	<0.50	<0.50	<1.0	180	<10	<0.50	<0.50	<0.50	417.10	32.45	384.65
MW-5C	08/02/2012	<48	180 i	<0.50	<0.50	<0.50	<1.0	190	<10	<0.50	<0.50	<0.50	417.10	36.81	380.29
MW-5C	01/17/2013	<55	140 i	0.85	0.74	0.75	5.6	130	55	<0.50	<0.50	<0.50	417.10	35.31	381.79
MW-5C	08/09/2013	78 e	150	<0.50	0.60	0.57	2.5	140	<10	<0.50	<0.50	<0.50	417.10	39.40	377.70
MW-5C	02/10/2014	<48	150 i	<0.50	<0.50	<0.50	<1.0	200	<10	<0.50	<0.50	<0.50	417.10	40.60	376.50
MW-5C	07/29/2014	<48	110 i	<0.50	<0.50	<0.50	<1.0	130	<10	<0.50	<0.50	<0.50	417.10	39.67	377.43
MW-5C	02/02/2015	120	170 i	<0.50	<0.50	<0.50	<1.0	130	<10	<0.50	<0.50	<0.50	417.10	36.63	380.47
MW-5C	07/30/2015	<50	140 i	<0.50	<0.50	<0.50	<1.0	130	<10	<0.50	<0.50	<0.50	417.10	38.82	378.28
MW-5C	**03/17/2016**	**92**	**<250**	**<5.0**	**<5.0**	**<5.0**	**<5.0**	**210**	**<250**	**<10**	**<10**	**<10**	**417.10**	**32.39**	**384.71**
MW-6	02/28/2006	---	---	---	---	---	---	---	---	---	---	---	422.50	23.55	398.95

Table 2

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-6	03/03/2006	104 a	<50.0	<0.500	<0.500	<0.500	<0.500	4.93	<10.0	<0.500	<0.500	<0.500	422.50	23.30	399.20
MW-6	05/19/2006	<46.9 a	<50.0	<0.500	<0.500	<0.500	<0.500	5.76	<10.0	<0.500	<0.500	<0.500	422.50	20.31	402.19
MW-6	08/24/2006	<47.2	<50.0	<0.500	<0.500	<0.500	<0.500	0.870	<10.0	<0.500	<0.500	<0.500	422.50	23.69	398.81
MW-6	11/02/2006	---	---	---	---	---	---	---	---	---	---	---	422.50	28.51	393.99
MW-6	01/29/2007	<50	<50	<0.50	<0.50	<0.50	<1.0	1.7	<5.0	<2.0	<2.0	<2.0	422.50	27.08	395.42
MW-6	06/05/2007	97	<50 c	<0.50	<1.0	<1.0	<1.0	1.1	<10	<2.0	<2.0	<2.0	422.50	25.77	396.73
MW-6	08/27/2007	Well dry	---	---	---	---	---	---	---	---	---	---	422.50	---	---
MW-6	11/30/2007	Well dry	---	---	---	---	---	---	---	---	---	---	422.50	---	---
MW-6	02/15/2008	<50 a	<50 c	<0.50	<1.0	<1.0	<1.0	9.0	<10	<2.0	<2.0	<2.0	422.50	25.56	396.94
MW-6	05/15/2008	Well destroyed		---	---	---	---	---	---	---	---	---	---	---	---
MW-7	08/21/2006	---	---	---	---	---	---	---	---	---	---	---	414.35	25.84	388.51
MW-7	08/24/2006	<47.2	<50.0	<0.500	<0.500	<0.500	<0.500	2.63	751	<0.500	<0.500	<0.500	414.35	26.21	388.14
MW-7	11/02/2006	Well dry	---	---	---	---	---	---	---	---	---	---	414.35	---	---
MW-7	01/29/2007	Well dry	---	---	---	---	---	---	---	---	---	---	414.35	---	---
MW-7	06/05/2007	Well dry	---	---	---	---	---	---	---	---	---	---	414.35	---	---
MW-7	08/27/2007	Well dry	---	---	---	---	---	---	---	---	---	---	414.35	---	---
MW-7	11/30/2007	Well dry	---	---	---	---	---	---	---	---	---	---	414.35	---	---
MW-7	02/15/2008	Insufficient water		---	---	---	---	---	---	---	---	---	414.35	27.95	386.40
MW-7	05/27/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	2.0	<10	<2.0	<2.0	<2.0	414.35	26.93	387.42
MW-7	08/05/2008	Well dry	---	---	---	---	---	---	---	---	---	---	414.35	---	---
MW-7	11/17/2008	Well dry	---	---	---	---	---	---	---	---	---	---	414.35	---	---
MW-7	02/05/2009	Well dry	---	---	---	---	---	---	---	---	---	---	414.35	---	---
MW-7	05/07/2009	Insufficient water		---	---	---	---	---	---	---	---	---	414.35	27.96	386.39
MW-7	08/20/2009	Well dry	---	---	---	---	---	---	---	---	---	---	414.35	---	---
MW-7	11/10/2009	Well dry	---	---	---	---	---	---	---	---	---	---	414.35	---	---
MW-7	02/15/2010	Well dry	---	---	---	---	---	---	---	---	---	---	414.35	---	---
MW-7	03/19/2010	---	---	---	---	---	---	---	---	---	---	---	414.35	27.55	386.80

Table 2

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-7	05/07/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	414.35	25.02	389.33
MW-7	08/09/2010	Well dry	---	---	---	---	---	---	---	---	---	---	414.35	---	---
MW-7	11/08/2010	Well dry	---	---	---	---	---	---	---	---	---	---	414.35	---	---
MW-7	01/25/2011	Well dry	---	---	---	---	---	---	---	---	---	---	414.35	---	---
MW-7	02/16/2011	Well destroyed		---	---	---	---	---	---	---	---	---	---	---	---
MW-8	08/21/2006	---	---	---	---	---	---	---	---	---	---	---	414.54	23.02	391.52
MW-8	08/24/2006	74.5	110	<0.500	<0.500	<0.500	<0.500	4.62	6,610	<0.500	<0.500	<0.500	414.54	23.17	391.37
MW-8	11/02/2006	96	92	<0.50	<0.50	<0.50	<1.0	1.4	2,300	<2.0	<2.0	<2.0	414.54	27.69	386.85
MW-8	01/29/2007	<50	<50	<0.50	<0.50	<0.50	<1.0	0.51	350	<2.0	<2.0	<2.0	414.54	26.40	388.14
MW-8	06/05/2007	120	<50 c	<0.50	<1.0	<1.0	<1.0	0.48 d	290	<2.0	<2.0	<2.0	414.54	25.17	389.37
MW-8	08/27/2007	Well dry	---	---	---	---	---	---	---	---	---	---	414.54	---	---
MW-8	11/30/2007	Well dry	---	---	---	---	---	---	---	---	---	---	414.54	---	---
MW-8	02/15/2008	<50	<50 c	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	414.54	24.66	389.88
MW-8	05/27/2008	<50	58	<0.50	<1.0	<1.0	<1.0	1.4	520	<2.0	<2.0	<2.0	414.54	25.98	388.56
MW-8	08/05/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	34	<2.0	<2.0	<2.0	414.54	26.62	387.92
MW-8	11/17/2008	Well dry	---	---	---	---	---	---	---	---	---	---	414.54	---	---
MW-8	02/05/2009	Insufficient water		---	---	---	---	---	---	---	---	---	414.54	28.62	385.92
MW-8	05/07/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	414.54	24.20	390.34
MW-8	08/20/2009	Insufficient water		---	---	---	---	---	---	---	---	---	414.54	28.31	386.23
MW-8	11/10/2009	Insufficient water		---	---	---	---	---	---	---	---	---	414.54	28.52	386.02
MW-8	02/15/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	414.54	25.93	388.61
MW-8	03/19/2010	---	---	---	---	---	---	---	---	---	---	---	414.54	23.89	390.65
MW-8	05/07/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	15	<2.0	<2.0	<2.0	414.54	22.32	392.22
MW-8	08/09/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	1.5	510	<2.0	<2.0	<2.0	414.54	26.31	388.23
MW-8	11/08/2010	Well dry	---	---	---	---	---	---	---	---	---	---	414.54	---	---
MW-8	01/25/2011	<470	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	414.54	25.96	388.58
MW-8	05/23/2011	<48	<50	<0.50	<0.50	<0.50	<1.0	2.0	600	<1.0	<1.0	<1.0	414.54	20.12	394.42

Table 2

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-8	07/26/2011	<49	<200	<2.0	<2.0	<2.0	<4.0	5.4	2,800	<4.0	<4.0	<4.0	414.54	21.15	393.39
MW-8	11/03/2011	---	---	---	---	---	---	---	---	---	---	---	414.54	27.15	387.39
MW-8	11/04/2011	940	<50	<0.50	<0.50	<0.50	<1.0	1.3	210	<1.0	<1.0	<1.0	414.54	---	---
MW-8	01/26/2012	270	<50	<0.50	<0.50	<0.50	<1.0	0.95	<10	<0.50	<0.50	<0.50	414.54	27.82	386.72
MW-8	05/11/2012	170	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	414.54	23.40	391.14
MW-8	08/02/2012	250 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	414.54	27.06	387.48
MW-8	01/17/2013	180	150	7.7	5.5	3.9	32	1.1	180	<0.50	<0.50	<0.50	414.54	26.15	388.39
MW-8	08/09/2013	Well dry	---	---	---	---	---	---	---	---	---	---	414.54	---	---
MW-8	02/10/2014	Well dry	---	---	---	---	---	---	---	---	---	---	414.54	---	---
MW-8	07/29/2014	Well dry	---	---	---	---	---	---	---	---	---	---	414.54	---	---
MW-8	02/02/2015	Well dry	---	---	---	---	---	---	---	---	---	---	414.54	---	---
MW-8	07/30/2015	Well dry	---	---	---	---	---	---	---	---	---	---	414.54	---	---
MW-8	**03/17/2016**	**54**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**<50**	**<2.0**	**<2.0**	**<2.0**	**414.54**	**22.86**	**391.68**
MW-8B	02/07/2008	---	---	---	---	---	---	---	---	---	---	---	414.81	26.81	388.00
MW-8B	02/15/2008	<50	<50 c	<0.50	<1.0	<1.0	<1.0	17	65	<2.0	<2.0	<2.0	414.81	26.23	388.58
MW-8B	05/27/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	23	33	<2.0	<2.0	<2.0	414.81	25.51	389.30
MW-8B	08/05/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	11	<10	<2.0	<2.0	<2.0	414.81	28.72	386.09
MW-8B	11/17/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	6.3	<10	<2.0	<2.0	<2.0	414.81	31.66	383.15
MW-8B	02/05/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	5.4	<10	<2.0	<2.0	<2.0	414.81	30.97	383.84
MW-8B	05/07/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	6.4	<10	<2.0	<2.0	<2.0	414.81	25.92	388.89
MW-8B	08/20/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	3.8	<10	<2.0	<2.0	<2.0	414.81	30.13	384.68
MW-8B	11/10/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	2.5	<10	<2.0	<2.0	<2.0	414.81	30.28	384.53
MW-8B	02/15/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	2.2	<10	<2.0	<2.0	<2.0	414.81	27.54	387.27
MW-8B	03/19/2010	---	---	---	---	---	---	---	---	---	---	---	414.81	25.36	389.45
MW-8B	05/07/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	1.9	<10	<2.0	<2.0	<2.0	414.81	23.18	391.63
MW-8B	08/09/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	2.0	<10	<2.0	<2.0	<2.0	414.81	27.90	386.91
MW-8B	11/08/2010	58 b	<50	<0.50	<1.0	<1.0	<1.0	1.4	<10	<2.0	<2.0	<2.0	414.81	31.22	383.59

Table 2

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-8B	01/25/2011	<500	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	414.81	27.44	387.37
MW-8B	05/23/2011	<48	<50	<0.50	<0.50	<0.50	<1.0	1.4	<10	<1.0	<1.0	<1.0	414.81	21.18	393.63
MW-8B	07/26/2011	<48	<50	<0.50	<0.50	<0.50	<1.0	1.4	<10	<1.0	<1.0	<1.0	414.81	21.65	393.16
MW-8B	11/03/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	414.81	28.83	385.98
MW-8B	01/26/2012	62	<50	<0.50	<0.50	<0.50	<1.0	1.3	<10	<0.50	<0.50	<0.50	414.81	29.30	385.51
MW-8B	05/11/2012	<48	<50	<0.50	<0.50	<0.50	<1.0	0.79	<10	<0.50	<0.50	<0.50	414.81	25.10	389.71
MW-8B	08/02/2012	66 e	<50	<0.50	<0.50	<0.50	<1.0	0.78	<10	<0.50	<0.50	<0.50	414.81	27.96	386.85
MW-8B	01/17/2013	<51	<50	<0.50	<0.50	<0.50	<1.0	0.63	<10	<0.50	<0.50	<0.50	414.81	28.40	386.41
MW-8B	08/09/2013	150 e	<50	<0.50	<0.50	0.59	2.6	0.59	<10	<0.50	<0.50	<0.50	414.81	30.49	384.32
MW-8B	02/10/2014	<48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	414.81	30.92	383.89
MW-8B	07/29/2014	68	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	414.81	31.80	383.01
MW-8B	02/02/2015	<47	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	414.81	28.67	386.14
MW-8B	07/30/2015	68 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	414.81	29.93	384.88
MW-8B	**03/17/2016**	**<48**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**<50**	**<2.0**	**<2.0**	**<2.0**	**414.81**	**25.56**	**389.25**
MW-9	08/21/2006	---	---	---	---	---	---	---	---	---	---	---	412.69	27.75	384.94
MW-9	08/24/2006	69.9	<50.0	<0.500	<0.500	<0.500	<0.500	<0.500	86.8	<0.500	<0.500	<0.500	412.69	28.35	384.34
MW-9	11/02/2006	---	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	412.69	28.43	384.26
MW-9	01/29/2007	Well dry	---	---	---	---	---	---	---	---	---	---	412.69	---	---
MW-9	06/05/2007	Insufficient water		---	---	---	---	---	---	---	---	---	412.69	28.72	383.97
MW-9	08/27/2007	Well dry	---	---	---	---	---	---	---	---	---	---	412.69	---	---
MW-9	11/30/2007	Well dry	---	---	---	---	---	---	---	---	---	---	412.69	---	---
MW-9	02/15/2008	Insufficient water		---	---	---	---	---	---	---	---	---	412.69	28.00	384.69
MW-9	05/27/2008	---	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	412.69	27.93	384.76
MW-9	08/05/2008	Insufficient water		---	---	---	---	---	---	---	---	---	412.69	28.40	384.29
MW-9	11/17/2008	Well dry	---	---	---	---	---	---	---	---	---	---	412.69	---	---
MW-9	02/05/2009	Insufficient water		---	---	---	---	---	---	---	---	---	412.69	28.54	384.15
MW-9	05/07/2009	Insufficient water		---	---	---	---	---	---	---	---	---	412.69	28.41	384.28

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-9	08/20/2009	Well dry	---	---	---	---	---	---	---	---	---	---	412.69	---	---
MW-9	11/10/2009	Well dry	---	---	---	---	---	---	---	---	---	---	412.69	---	---
MW-9	02/15/2010	Well dry	---	---	---	---	---	---	---	---	---	---	412.69	---	---
MW-9	03/19/2010	---	---	---	---	---	---	---	---	---	---	---	412.69	28.75	383.94
MW-9	05/07/2010	Insufficient water		---	---	---	---	---	---	---	---	---	412.69	28.35	384.34
MW-9	08/09/2010	330 b	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	412.69	28.03	384.66
MW-9	11/08/2010	730 b	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	412.69	28.50	384.19
MW-9	01/25/2011	Well dry	---	---	---	---	---	---	---	---	---	---	412.69	---	---
MW-9	02/16/2011	Well destroyed		---	---	---	---	---	---	---	---	---	---	---	---
MW-10	08/21/2006	---	---	---	---	---	---	---	---	---	---	---	419.48	23.90	395.58
MW-10	08/24/2006	100	626	1.04	<0.500	1.22	<0.500	12.4	5,740	<0.500	<0.500	<0.500	419.48	24.02	395.46
MW-10	11/02/2006	---	---	---	---	---	---	---	---	---	---	---	419.48	28.50	390.98
MW-10	01/29/2007	<50	91	<0.50	<0.50	<0.50	<1.0	4.9	1,900	<2.0	<2.0	<2.0	419.48	27.30	392.18
MW-10	06/05/2007	150	82 c	<0.50	<1.0	<1.0	<1.0	1.3	540	<2.0	<2.0	<2.0	419.48	26.09	393.39
MW-10	08/27/2007	Well dry	---	---	---	---	---	---	---	---	---	---	419.48	---	---
MW-10	11/30/2007	Well dry	---	---	---	---	---	---	---	---	---	---	419.48	---	---
MW-10	02/15/2008	<50	<50 c	<0.50	<1.0	<1.0	<1.0	1.6	500	<2.0	<2.0	<2.0	419.48	25.58	393.90
MW-10	05/22/2008	Well destroyed		---	---	---	---	---	---	---	---	---	---	---	---
MW-11	08/21/2006	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---
MW-11	08/24/2006	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---
MW-11	11/02/2006	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---
MW-11	01/29/2007	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---
MW-11	06/05/2007	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---
MW-11	08/27/2007	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---
MW-11	11/30/2007	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---
MW-11	02/15/2008	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---

Table 2

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-11	05/27/2008	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---
MW-11	08/05/2008	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---
MW-11	11/17/2008	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---
MW-11	02/05/2009	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---
MW-11	05/07/2009	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---
MW-11	08/20/2009	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---
MW-11	11/10/2009	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---
MW-11	02/15/2010	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---
MW-11	03/19/2010	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---
MW-11	05/07/2010	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---
MW-11	08/09/2010	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---
MW-11	11/08/2010	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---
MW-11	01/25/2011	Well dry	---	---	---	---	---	---	---	---	---	---	409.69	---	---
MW-11	02/17/2011	Well destroyed		---	---	---	---	---	---	---	---	---	---	---	---
MW-11B	02/07/2008	---	---	---	---	---	---	---	---	---	---	---	409.03	31.47	377.56
MW-11B	02/15/2008	<50	<50 c	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	31.53	377.50
MW-11B	05/27/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	30.83	378.20
MW-11B	08/05/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	33.51	375.52
MW-11B	11/17/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	35.80	373.23
MW-11B	02/05/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	36.11	372.92
MW-11B	05/07/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	31.21	377.82
MW-11B	08/20/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	34.68	374.35
MW-11B	11/10/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	35.74	373.29
MW-11B	02/15/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	32.30	376.73
MW-11B	03/19/2010	---	---	---	---	---	---	---	---	---	---	---	409.03	30.54	378.49
MW-11B	05/07/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	28.62	380.41
MW-11B	08/09/2010	<50	<50	5.6	<1.0	<1.0	1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	32.62	376.41

Table 2

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-11B	11/08/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	409.03	35.95	373.08
MW-11B	01/25/2011	<470	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	409.03	32.92	376.11
MW-11B	05/23/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	409.03	27.28	381.75
MW-11B	07/26/2011	<48	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	409.03	27.78	381.25
MW-11B	11/03/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	409.03	33.50	375.53
MW-11B	01/26/2012	<47	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	409.03	34.95	374.08
MW-11B	05/11/2012	77	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	409.03	30.70	378.33
MW-11B	08/02/2012	<48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	409.03	33.20	375.83
MW-11B	01/17/2013	49	67	3.3	2.6	1.7	13	<0.50	<10	<0.50	<0.50	<0.50	409.03	33.30	375.73
MW-11B	08/09/2013	Insufficient water		---	---	---	---	---	---	---	---	---	409.03	37.50	371.53
MW-11B	02/10/2014	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	409.03	36.83	372.20
MW-11B	07/29/2014	Insufficient water		---	---	---	---	---	---	---	---	---	409.03	37.47	371.56
MW-11B	02/02/2015	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	409.03	34.65	374.38
MW-11B	07/30/2015	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	409.03	36.22	372.81
MW-11B	**03/17/2016**	**<49**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**<50**	**<2.0**	**<2.0**	**<2.0**	**409.03**	**30.87**	**378.16**
MW-12	02/07/2008	---	---	---	---	---	---	---	---	---	---	---	411.18	31.10	380.08
MW-12	02/15/2008	<50	<50 c	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	31.22	379.96
MW-12	05/27/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	30.53	380.65
MW-12	08/05/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	33.29	377.89
MW-12	11/17/2008	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	35.20	375.98
MW-12	02/05/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	35.12	376.06
MW-12	05/07/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	30.81	380.37
MW-12	08/20/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	34.21	376.97
MW-12	11/10/2009	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	34.75	376.43
MW-12	02/15/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	31.99	379.19
MW-12	03/19/2010	---	---	---	---	---	---	---	---	---	---	---	411.18	30.34	380.84
MW-12	05/07/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	28.58	382.60

Table 2

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-12	08/09/2010	<50	<50	6.0	<1.0	<1.0	1.2	<1.0	<10	<2.0	<2.0	<2.0	411.18	32.42	378.76
MW-12	11/08/2010	<50	<50	<0.50	<1.0	<1.0	<1.0	<1.0	<10	<2.0	<2.0	<2.0	411.18	35.18	376.00
MW-12	01/25/2011	<490	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	411.18	32.52	378.66
MW-12	05/23/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	411.18	27.10	384.08
MW-12	07/26/2011	<48	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	411.18	27.36	383.82
MW-12	11/03/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	411.18	33.39	377.79
MW-12	01/26/2012	<47	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	411.18	34.30	376.88
MW-12	05/11/2012	<47	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	411.18	30.35	380.83
MW-12	08/02/2012	<48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	411.18	33.00	378.18
MW-12	01/17/2013	57	84	3.9	3.1	2.3	18	<0.50	<10	<0.50	<0.50	<0.50	411.18	34.79	376.39
MW-12	08/09/2013	56	85	0.57	1.6	2.2	10	<0.50	<10	<0.50	<0.50	<0.50	411.18	35.51	375.67
MW-12	02/10/2014	<49	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	411.18	35.52	375.66
MW-12	07/29/2014	<48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	411.18	36.14	375.04
MW-12	02/02/2015	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	411.18	33.92	377.26
MW-12	07/30/2015	<48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	411.18	35.28	375.90
MW-12	**03/17/2016**	**<49**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**<50**	**<2.0**	**<2.0**	**<2.0**	**411.18**	**30.34**	**380.84**
MW-13	05/13/2011	---	---	---	---	---	---	---	---	---	---	---	415.77	24.60	391.17
MW-13	05/23/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	415.77	24.57	391.20
MW-13	07/26/2011	<49	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	415.77	26.60	389.17
MW-13	11/03/2011	<48	<50	<0.50	<0.50	<0.50	<1.0	<1.0	57	<1.0	<1.0	<1.0	415.77	34.62	381.15
MW-13	01/26/2012	<49	<50	<0.50	<0.50	<0.50	<1.0	2.0	490	<0.50	<0.50	<0.50	415.77	36.25	379.52
MW-13	05/11/2012	<47	<50	<0.50	<0.50	<0.50	<1.0	0.76	<10	<0.50	<0.50	<0.50	415.77	30.22	385.55
MW-13	08/02/2012	57 e	<50	<0.50	<0.50	<0.50	<1.0	0.98	<10	<0.50	<0.50	<0.50	415.77	35.32	380.45
MW-13	01/17/2013	57	<50	<0.50	<0.50	<0.50	<1.0	1.3	<10	<0.50	<0.50	<0.50	415.77	33.30	382.47
MW-13	08/09/2013	<50	<50	<0.50	<0.50	<0.50	<1.0	1.3	<10	<0.50	<0.50	<0.50	415.77	38.48	377.29
MW-13	02/10/2014	<48	<50	<0.50	<0.50	<0.50	<1.0	2.2	<10	<0.50	<0.50	<0.50	415.77	39.49	376.28
MW-13	07/29/2014	<48	<50	<0.50	<0.50	<0.50	<1.0	1.5	<10	<0.50	<0.50	<0.50	415.77	39.80	375.97

Table 2

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-13	02/02/2015	<54	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.77	35.24	380.53
MW-13	07/30/2015	<48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.77	37.70	378.07
MW-13	**03/17/2016**	**260**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**<50**	**<2.0**	**<2.0**	**<2.0**	**415.77**	**30.82**	**384.95**
MW-13B	05/13/2011	---	---	---	---	---	---	---	---	---	---	---	415.39	23.40	391.99
MW-13B	05/23/2011	210	<50	<0.50	<0.50	<0.50	<1.0	17	<10	<1.0	<1.0	<1.0	415.39	23.04	392.35
MW-13B	07/26/2011	230	<50	<0.50	<0.50	<0.50	<1.0	42	<10	<1.0	<1.0	<1.0	415.39	25.01	390.38
MW-13B	11/03/2011	80	<50	<0.50	<0.50	<0.50	<1.0	2.0	<10	<1.0	<1.0	<1.0	415.39	31.49	383.90
MW-13B	01/26/2012	99	66	<0.50	<0.50	<0.50	<1.0	56	<10	<0.50	<0.50	<0.50	415.39	36.08	379.31
MW-13B	05/11/2012	320	<50	<0.50	<0.50	<0.50	<1.0	24	<10	<0.50	<0.50	<0.50	415.39	31.83	383.56
MW-13B	08/02/2012	1,200	140	<0.50	<0.50	<0.50	<1.0	1.7	<10	<0.50	<0.50	<0.50	415.39	33.73	381.66
MW-13B	01/17/2013	470	66 i	<0.50	<0.50	<0.50	<1.0	63	24	<0.50	<0.50	<0.50	415.39	31.70	383.69
MW-13B	08/09/2013	<48	180	<0.50	<0.50	<0.50	<1.0	180	<10	<0.50	<0.50	<0.50	415.39	36.51	378.88
MW-13B	02/10/2014	51	180 i	<0.50	<0.50	<0.50	<1.0	230	<10	<0.50	<0.50	<0.50	415.39	37.47	377.92
MW-13B	07/29/2014	79	<50	<0.50	<0.50	<0.50	<1.0	1.5	<10	<0.50	<0.50	<0.50	415.39	37.11	378.28
MW-13B	02/02/2015	120	50	<0.50	<0.50	<0.50	<1.0	13	<10	<0.50	<0.50	<0.50	415.39	33.34	382.05
MW-13B	07/30/2015	1,600 e	140 i	<0.50	<0.50	<0.50	<1.0	140	<10	<0.50	<0.50	<0.50	415.39	35.81	**379.58**
MW-13B	**03/17/2016**	**110**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**26**	**<50**	**<2.0**	**<2.0**	**<2.0**	**415.39**	**27.38**	**388.01**
MW-13C	05/13/2011	---	---	---	---	---	---	---	---	---	---	---	415.73	26.55	389.18
MW-13C	05/23/2011	52	94	<0.50	<0.50	<0.50	<1.0	140	44	<1.0	<1.0	<1.0	415.73	26.24	389.49
MW-13C	07/26/2011	54	<50	<0.50	<0.50	<0.50	<1.0	5.8	<10	<1.0	<1.0	<1.0	415.73	27.59	388.14
MW-13C	11/03/2011	<47	<50	<0.50	<0.50	<0.50	<1.0	5.7	<10	<1.0	<1.0	<1.0	415.73	33.62	382.11
MW-13C	01/26/2012	48	<50	<0.50	<0.50	<0.50	<1.0	13	<10	<0.50	<0.50	<0.50	415.73	43.24	372.49
MW-13C	05/11/2012	1,000	140	<0.50	<0.50	<0.50	<1.0	160	<10	<0.50	<0.50	<0.50	415.73	35.62	380.11
MW-13C	08/02/2012	450 e	100 e	<0.50	<0.50	<0.50	<1.0	80	<10	<0.50	<0.50	<0.50	415.73	34.54	381.19
MW-13C	01/17/2013	92	130 i	<0.50	<0.50	<0.50	<1.0	140	49	<0.50	<0.50	<0.50	415.73	36.20	379.53
MW-13C	08/09/2013	<48	140	<0.50	<0.50	<0.50	<1.0	150	<10	<0.50	<0.50	<0.50	415.73	38.50	377.23

Table 2

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-13C	02/10/2014	<47	150 i	<0.50	<0.50	<0.50	<1.0	180	<10	<0.50	<0.50	<0.50	415.73	38.52	377.21
MW-13C	07/29/2014	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	415.73	42.58	373.15
MW-13C	02/02/2015	53	270 i	<0.50	<0.50	<0.50	<1.0	240	<10	<0.50	<0.50	<0.50	415.73	36.68	379.05
MW-13C	07/30/2015	330 e	140 i	<0.50	<0.50	<0.50	<1.0	130	17	<0.50	<0.50	<0.50	415.73	37.53	378.20
MW-13C	**03/17/2016**	**350**	**<100**	**<2.0**	**<2.0**	**<2.0**	**<2.0**	**160**	**<100**	**<4.0**	**<4.0**	**<4.0**	**415.73**	**31.16**	**384.57**
MW-14B	05/11/2011	---	---	---	---	---	---	---	---	---	---	---	413.33	20.37	392.96
MW-14B	05/23/2011	58	<50	<0.50	<0.50	<0.50	<1.0	4.5	<10	<1.0	<1.0	<1.0	413.33	20.19	393.14
MW-14B	07/26/2011	84	<50	<0.50	<0.50	<0.50	<1.0	4.9	<10	<1.0	<1.0	<1.0	413.33	21.47	391.86
MW-14B	11/03/2011	<48	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	413.33	28.18	385.15
MW-14B	01/26/2012	2,500	<50	<0.50	<0.50	<0.50	<1.0	2.5	<10	<0.50	<0.50	<0.50	413.33	29.74	383.59
MW-14B	05/11/2012	63	<50	<0.50	<0.50	<0.50	<1.0	1.1	<10	<0.50	<0.50	<0.50	413.33	26.00	387.33
MW-14B	08/02/2012	650 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	413.33	28.86	384.47
MW-14B	01/17/2013	130	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	413.33	28.10	385.23
MW-14B	08/09/2013	<48	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	413.33	35.49	377.84
MW-14B	02/10/2014	98	<50	<0.50	<0.50	<0.50	<1.0	0.70	<10	<0.50	<0.50	<0.50	413.33	31.35	381.98
MW-14B	07/29/2014	---	---	---	---	---	---	---	---	---	---	---	413.33	31.73	381.60
MW-14B	07/30/2014	<48	<50	<0.50	<0.50	<0.50	<1.0	0.92	<10	<0.50	<0.50	<0.50	413.33	---	---
MW-14B	02/02/2015	160	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	413.33	28.54	384.79
MW-14B	07/30/2015	320 e	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10	<0.50	<0.50	<0.50	413.33	30.28	383.05
MW-14B	**03/17/2016**	**480**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**<2.0**	**<50**	**<2.0**	**<2.0**	**<2.0**	**413.33**	**24.28**	**389.05**
MW-14C	05/11/2011	Well compromised during installation					---	---	---	---	---	---	413.48	---	---
MW-14C	05/23/2011	Well compromised during installation					---	---	---	---	---	---	413.48	---	---
MW-14C	07/26/2011	81	<50	<0.50	0.71	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	413.48	21.51	391.97
MW-14C	09/09/2011	120	<50	<0.50	<0.50	<0.50	<1.0	30	<10	<1.0	<1.0	<1.0	413.10	29.39	383.71
MW-14C	11/03/2011	<48	<50	<0.50	<0.50	<0.50	<1.0	<1.0	<10	<1.0	<1.0	<1.0	413.10	33.89	379.21
MW-14C	01/26/2012	600	<50	<0.50	<0.50	<0.50	<1.0	3.2	<10	<0.50	<0.50	<0.50	413.10	33.80	379.30

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)
MW-14C	05/11/2012	85	<50	<0.50	<0.50	<0.50	<1.0	12	<10	<0.50	<0.50	<0.50	413.10	31.94	381.16
MW-14C	08/02/2012	890 e	<50	<0.50	<0.50	<0.50	<1.0	19	<10	<0.50	<0.50	<0.50	413.10	33.02	380.08
MW-14C	01/17/2013	200	<50	<0.50	<0.50	<0.50	<1.0	31	<10	<0.50	<0.50	<0.50	413.10	32.60	380.50
MW-14C	08/09/2013	<48	61	<0.50	<0.50	<0.50	<1.0	47	<10	<0.50	<0.50	<0.50	413.10	31.43	381.67
MW-14C	02/10/2014	<49	<50	<0.50	<0.50	<0.50	<1.0	25	<10	<0.50	<0.50	<0.50	413.10	36.02	377.08
MW-14C	07/29/2014	---	---	---	---	---	---	---	---	---	---	---	413.10	37.60	375.50
MW-14C	07/30/2014	180 e	<50	<0.50	<0.50	<0.50	<1.0	37	<10	<0.50	<0.50	<0.50	413.10	---	---
MW-14C	02/02/2015	100	93 i	<0.50	<0.50	<0.50	<1.0	59	<10	<0.50	<0.50	<0.50	413.10	33.61	379.49
MW-14C	07/30/2015	63 e	83 i	<0.50	<0.50	<0.50	<1.0	53	<10	<0.50	<0.50	<0.50	413.10	35.00	378.10
MW-14C	**03/17/2016**	**740**	**<50**	**<1.0**	**<1.0**	**<1.0**	**<1.0**	**45**	**<50**	**<2.0**	**<2.0**	**<2.0**	**413.10**	**31.61**	**381.49**

Notes:

TPHd = Total petroleum hydrocarbons as diesel analyzed by modified EPA Method 8015 with silica gel clean-up 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

TOC = Top of casing elevation, in feet relative to mean sea level

GW = Groundwater

µg/L = Micrograms per liter

ft = Feet

MSL = Mean sea level

<x = Not detected at reporting limit x

--- = Not analyzed or available

Table 2

Groundwater Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Well 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)	TOC (ft MSL)	Depth to Water (ft TOC)	GW Elevation (ft MSL)

a = TPHd analyzed without silica gel clean-up.
b = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
c = Analyzed by EPA Method 8015B (M)
d = Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
e = Hydrocarbon result partly due to discrete peak(s) in quantitation range
f = Due to the low levels of analyte found in the sample, the analyte was qualitatively identified based on the presence of a single mass ion.
g = Sample received and analyzed without chemical preservation
h = Sample container contained headspace
i = Concentration reported is due to the presence of discrete peak of MTBE.
j = Concentration reported is due to the presence of discrete peak of 2-Methyl-2-propanol.
k = Internal standard (ISTD) response for the following sample was outside control limits. The sample was re-analyzed with concurring results, and the original set
l = The gasoline range organics concentration reported for the sample is due to the presence of a discrete peak of 2-Ethyl-1-hexanol.

Site wells surveyed May 10, 2005 by Mid Coast Engineers
Well MW-6 surveyed March 3, 2006 by Mid Coast Engineers
Wells MW-1R and MW3R surveyed March 22, 2010 by Mid Coast Engineers
Wells MW-1R, MW-2R, MW-2RB, MW-2RC, MW-13, MW-13B, MW-13C, MW-14B, and MW-14C surveyed April 28, 2011 by Virgil Chavez Land Surveying
Well MW-14C surveyed September 12, 2011 by Virgil Chavez Land Surveying
Groundwater analytical data collected and reported on March 17, 2016 was provided by AECOM in in their First Semiannual 2016 Groundwater Monitoring Report.

Table 3

Historical Grab Groundwater Analytical Data
Shell-branded Service Station
8999 San Ramon Road, Dublin, California

Sample ID	Date	Depth (fbg)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)
GP-3	5/4/2005	27	**540**	<500	**5.4**	<5	<5	<10	**980**	<50
GP-10	5/4/2005	27	**220**	<13,000	<130	<130	<130	<250	**35,000**	**120,000**
GP-11	5/4/2005	27	**2,500**	<50,000	<500	<500	<500	<500	**89,000**	<5,000
GP-12	5/4/2005	27	**360**	**220**	**4.7**	<0.5	<0.5	<1	**56**	**21**
CPT-1-44	5/26/2005	44	**120**	<50	<0.5	<0.5	<0.5	<1	**31**	5.8
CPT-1-53	5/26/2005	53	**180**	<50	<0.5	<0.5	<0.5	<1	<0.5	<5
CPT-1-60	5/26/2005	60	82	<50	<0.5	<0.5	<0.5	<1	<0.5	<5
CPT-02-57'	2/22/2006	57	---	**170**	0.8	<0.5	<0.5	<0.5	**240**	**26**
CPT-02-69'	2/22/2006	69	---	<50	0.57	<0.5	<0.5	<0.5	0.56	<20
CPT-02-75'	2/22/2006	75	---	<50	<0.5	<0.5	<0.5	<0.5	0.85	<20
CPT-3 45-50	7/27/2006	50	**160**	**130**	<0.5	<0.5	<0.5	<1.0	**6.5**	<5.0
CPT-3 59-63	7/27/2006	63	---	**730**	<0.5	<0.5	<0.5	<1.0	**2,000**	**170**
CPT-3 67-72	7/27/2006	72	**810**	**760**	0.52	<0.5	<0.5	<1.0	**2,400**	**140**
CPT-4 45-49	7/26/2006	49	**140**	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
CPT-4 54-58	7/26/2006	58	**170**	<50	<0.5	<0.5	<0.5	<1.0	2.8	<5.0
CPT-4 64-69	7/26/2006	69	**400**	<50	<0.5	<0.5	<0.5	<1.0	<0.5	<5.0
Groundwater Tier 1 ESL[a]:			**100**	**100**	**1.0**	**40**	**13**	**20**	**5.0**	**12**

Notes:
TPHd = Total petroleum hydrocarbons as diesel analyzed by EPA Method 8015B; before February 22, 2006, analytical method unknown.
TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA Method 8260B; before February 22, 2006, analytical method unknown.
BTEX = Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B; before February 22, 2006, analytical method unknown.
MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B; before February 22, 2006, analytical method unknown.
TBA = Tertiary-butyl alcohol analyzed by EPA Method 8260B; before February 22, 2006, analytical method
fbg = Feet below grade
µg/L = Micrograms per liter
<x = Not detected at reporting limit x
--- = Not analyzed
ESL = Environmental screening level
Results in **bold** equal or exceed applicable ESL

a = San Francisco Bay Regional Water Quality Control Board ESLs from Summary of Groundwater ESLs table, Groundwater Tier 1 ESL in *User's Guide: Derivation and Application of Environmental Screening Levels (ESLs)* , Interim Final, February 2016

Appendix A
Site History

Site History

1997 Well Destructions: In November 1997, Cambria Environmental Technology, Inc. (Cambria) destroyed four 4-inch-diameter underground storage tank (UST) observation wells by tremmie pipe grouting. Well destruction details are presented in Cambria's December 16, 1997 *Tank Observation Well Abandonment Report*.

2004 and 2005 Well Surveys: In February 2004, Cambria conducted a well survey of California Department of Water Resources records of driller's reports for water-producing wells within one-half mile of the Site. Cambria also reviewed the California Geotracker database for information on public water supply wells. No water-producing wells of any type (domestic, irrigation, industrial, municipal, or public water supply) were identified. The well survey results were presented in Cambria's December 17, 2004 *Agency Response* letter. In 2005, Delta Consultants (Delta) reviewed Zone 7 Water Agency well records and identified a water supply well 2,500 feet south of the Site. The well was referenced in Delta's July 2005 *Initial Site Conceptual Model*.

2004 Fuel System Upgrade and Over Excavation: From July through September 2004, Wayne Perry Construction, Inc. (Wayne Perry) upgraded fuel dispensers and piping. Wayne Perry replaced the dispensers and subsequently removed and replaced all fuel piping. On July 30, 2004, Cambria collected seven soil samples (D-1 through D-7) from beneath the dispensers. The soil samples contained up to 170 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as diesel (TPHd), 4,700 mg/kg total petroleum hydrocarbons as gasoline (TPHg), 130 mg/kg toluene, 57 mg/kg ethylbenzene, 440 mg/kg total xylenes, 9.0 mg/kg methyl tertiary-butyl ether (MTBE), and 20 mg/kg tertiary-butyl alcohol (TBA). Based on these results, Shell Oil Products US (Shell) submitted a UST Unauthorized Release (Leak)/Contamination Site Report (URR) dated August 3, 2004.

On August 25, 2004, Cambria collected eight samples (P-1 through P-8) of native soil beneath the former product piping at depths between 3.5 and 5 feet below grade (fbg). Samples collected from beneath the product piping contained up to 28 mg/kg TPHd, 210 mg/kg TPHg, 0.018 mg/kg toluene, 1.0 mg/kg total xylenes, 4.6 mg/kg MTBE, and 8.4 mg/kg TBA. Separate-phase hydrocarbons (SPHs) were observed beneath geo-textile fabric near sample location P-6-5.0, at the northeastern-most corner of the original fuel piping layout. Wayne Perry removed between 15 and 20 gallons of SPHs and water from the trench. Based on the observation of SPHs, Shell submitted a second URR dated August 26, 2004.

Following the observation of SPHs, Cambria collected 13 trench bottom and sidewall samples (SW-1 through SW-4, EB-1-7.5', and T-1 through T-4). Up to 9,300 mg/kg TPHd, 3,900 mg/kg TPHg, 32 mg/kg toluene, 7.4 mg/kg ethylbenzene, 44 mg/kg total xylenes, 0.25 mg/kg MTBE, and 0.34 mg/kg TBA were detected in the trench bottom and sidewall soil samples. At the request of Alameda County Environmental Health (ACEH), Wayne Perry excavated a 10-by-10-foot area to 7.5 fbg in the area where SPHs were previously observed. During the excavation, no additional SPHs were observed.

Based on trench bottom and sidewall soil sample analytical results, Wayne Perry over excavated the product trenches and dispenser locations and over excavated a 10-by-10-foot area to 5 fbg in the vicinity of the southeastern-most dispenser (D-7). All pea gravel and geo-textile fabric were removed from the piping trenches. The trenches were widened to between 3 and 4 feet horizontally and deepened 1 to 2 feet vertically in some locations. Cambria then collected 23 trench excavation bottom samples (TX-1 through TX-17). Up to 1,200 mg/kg TPHd, 2,000 mg/kg TPHg, 11 mg/kg toluene, 29 mg/kg ethylbenzene, 180 mg/kg total xylenes, 1.2 mg/kg MTBE, and 7.1 mg/kg TBA were detected in the over-excavation soil

samples. The laboratory noted that the hydrocarbons reported as TPHd and TPHg did not match the laboratory's standards for diesel and gasoline, respectively.

Based on a review of sampling results with ACEH, Cambria collected 10 additional sidewall confirmation samples (SW-4 through SW-14) above a clay layer in areas where impacted soil appeared to remain in the sidewall. Up to 16,000 mg/kg TPHd, 8,500 mg/kg TPHg, 0.019 mg/kg ethylbenzene, 0.11 mg/kg total xylenes, 0.38 mg/kg MTBE, and 170 mg/kg TBA were detected in the sidewall confirmation soil samples.

Cambria collected an SPH sample (FP-W) from the trench at the northeastern-most corner of the original fuel piping layout which Shell determined to be severely weathered unleaded gasoline with no fuel oxygenates. In addition, Cambria subsequently inspected two remaining large-diameter UST backfill wells for SPHs and found none.

Approximately 225 tons of soil were removed and disposed off Site, and 4 gallons of SPHs were removed and recycled. Cambria's October 13, 2004 *Dispenser and Piping Upgrade and Over-Excavation Sampling Report* presents the results of fuel system upgrade and over excavation, and Cambria's December 17, 2004 *Agency Response* letter provides additional details of this work.

2005 Subsurface Investigation: In May 2005, Delta drilled 13 Geoprobe® borings (GP-1 through GP-3 and GP-5 through GP-14), 1 cone penetrometer test (CPT) boring (CPT-1), and 5 groundwater monitoring wells (MW-1 through MW-5). Soil samples from the Geoprobe® borings contained up to 380 mg/kg TPHd, 1,000 mg/kg TPHg, 0.031 mg/kg benzene, 3.3 mg/kg toluene, 10 mg/kg ethylbenzene, 76 mg/kg total xylenes, 20 mg/kg MTBE, and 13 mg/kg TBA. Grab groundwater samples collected from GP-3, GP-10 through GP-12, and CPT-1 contained up to 2,500 micrograms per liter (μg/L) TPHd, 220 μg/L TPHg, 5.4 μg/L benzene, 89,000 μg/L MTBE, and 120,000 μg/L TBA. Soil samples from the well borings contained up to 2.8 mg/kg TPHd, 0.026 mg/kg total xylenes, 17 mg/kg MTBE, and 5.9 mg/kg TBA. Delta's July 2005 electronic *Initial Site Conceptual Model* included investigation data and logs.

2006 Subsurface Investigation: In February and July 2006, Delta drilled three CPT borings to collect grab groundwater samples and installed six groundwater monitoring wells (MW-6 through MW-11). Grab groundwater samples from the CPT borings contained up to 810 μg/L TPHd, 760 μg/L TPHg, 0.80 μg/L benzene, 2,400 μg/L MTBE, and 170 μg/L TBA. Soil samples from the well borings contained up to 1.4 mg/kg TPHd, 3.8 mg/kg TPHg, 1.4 mg/kg MTBE, and 0.2 mg/kg TBA. Delta's September 29, 2006 *Soil and Groundwater Investigation and Monitoring Well Installation Report* provides investigation details.

2006 Pump Test and Dual-Phase Extraction (DPE) Test: In March 2006, Delta conducted a pump test and a DPE test using well MW-1. Delta estimated the sustained groundwater pumping rate for MW-1 at less than 0.2 gallon per minute using groundwater extraction (GWE) or DPE. Delta's *Progress Report – April 2006* summarizes the test results and states that GWE is not a viable option for Site remediation.

2007 Subsurface Investigation: In December 2007, Delta installed one groundwater monitoring well (MW-12).

2008 Well Destructions: In May 2008, Delta destroyed six groundwater monitoring wells (MW-1 through MW-4, MW-6, and MW-10) by pressure grouting prior to station remodeling. The well destructions are detailed in Delta's June 9, 2008 *Monitoring Well Destruction Report*.

2010 Subsurface Investigation: In February 2010, Delta installed two groundwater monitoring wells (MW-1R and MW-3R) to replace wells destroyed prior to station remodeling. Soil samples collected from the well borings contained up to 440 mg/kg TPHd, 0.032 mg/kg MTBE, and 1.3 mg/kg TBA. Delta's April 5, 2010 *Well Installation Report* provides details of this investigation.

2013 Updated Site Conceptual Model (SCM): On September 26, 2013, CRA submitted an updated SCM with recommended conducting an updated well survey and completing a groundwater model to characterize the potential for Site groundwater impacts to reach the down-gradient wells.

2014 Updated Well Survey and Groundwater Modeling: On March 4, 2014, CRA submitted an *Updated Well Survey and Groundwater Modeling Report.* CRA's updated well survey identified a domestic well 2,000 feet down gradient south of the Site and an irrigation well 2,700 feet down gradient south of the Site. CRA used a groundwater transport model to evaluate whether the two water-producing wells down gradient from the Site could potentially be impacted by residual soil and groundwater impacts at the Site, principally by MTBE detected in groundwater samples collected from deeper wells. Based on the groundwater transport model, it appears unlikely that groundwater pumped from these wells would be affected by residual MTBE in soil and groundwater at the subject Site; and therefore, there is no human health risk due to human consumption of groundwater pumped from known water-producing wells located down gradient from the Site.

2005-Present Groundwater Monitoring: Groundwater has been monitored since May 2005.

Appendix B
Cambria Environmental Technology, Inc. – Site Plan

10/13/04

Site Plan

EXPLANATION

- D-1-2.5' ◆ Soil sample location (7/30/04)
- P-1-5' ▲ Soil sample location (8/25/04)
- EB-1-7.5' ● Soil sample location (8/27/04)
- TX-1-4' ■ Soil sample location (9/02/04)
- SW-5-3.5' ◉ Soil sample location (9/07/04)
- Sanitary sewer
- Water shut-off
- Product piping and tench
- Electrical line (E)
- Sanitary sewer line (SS)
- Water line (W)
- Telecommunications line (T)
- Excavation limits (8/27/04)
- Excavation limits (9/2/04, 9/7/04)

ALCOSTA BOULEVARD

SAN RAMON ROAD

MOUNTAIN MIKE'S PIZZA

MALL PARKING

10,000 GAL PRE

10,000 GAL REG

10,000 GAL PL

10,000 GAL DSL

kiosk

storage

CAR WASH

TX-17-3.5' T-4-4' TX-15-3.5' D-1-2.5' T-3-4' P-6-5.0 D-3-2.5' D-2-2.5' SW-1-3',-6' EB-1-7.5' P-8-4.5 TX-14-3.5' P-7-4.0, TX-16-3.5' SW-4-3',-6' SW-2-3',-6' T-1-4' SW-3-3',-6' D-4-2.5' TX-13-2.5' SW-10-1.5' SW-9-1.5' SW-8-2' SW-7-2' TX-8-4.5' TX-12-3' SW-6-2.5' TX-11-3' TX-10-3.5' TX-9-3.5' P-5-5.0 T-2-4' TX-3-3.5' D-5-2.5' D-6-2.5' D-7-2.5', TX-6-4' TX-6 TX-6a TX-4-4' P-4-5.0 P-1-5.0 TX-1-4' TX-2-4' SW-5-2.5' SW-11-3.5' SW-12-3.5' P-2-5.0 SW-13-2' P-3-5.0, SW-14-2.5 TX-7-4' TX-5-4'

Excavation limits (8/27/04)

Excavation limits (9/02/04 & 9/07/04)

143.90' N13°48'09"W

150.12' N73°52'04"E

150' N13°48'09"W

150' N76°11'51"E

0 10 20 40

Scale (ft)

FIGURE

2

Shell-branded Service Station

8999 San Ramon Road

Dublin, California

CAMBRIA

G:\DUBLIN 8999 SAN RAMON\FIGURES\SITE PLAN 9-04.DWG

Appendix C
Boring Logs

Delta

Environmental Consultants, Inc.

Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Well No: MW-1	
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 1 of 2	
Driller:	Gregg	Date Drilled:	5/5/2005	Location Map	
Drilling Method:	HSA	Hole Diameter:	10 inch	Please see site map	
Sampling Method:	CA Mod. Split Shoe	Hole Depth:	27 ft		
Casing Type:	PVC	Well Diameter:	4 inch		
Slot Size:	0.01	Well Depth:	27 feet		
Gravel Pack:	#2/12	Casing Stickup:	NA		
Elevation		Northing		Easting	

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery / Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout				air knifed & hand augered	1		AF	Asphalt 6", Base rock 4"
					2		SM	**Silty SAND**: light brown; 20-30% silt; fine to coarse grained sand, well graded
					3			
					4		CL	**Lean CLAY with Sand**: medium brown mottled with orange; 85-90% fines; 10-15% fine grained sand in tan sand pockets; moderate to high plasticity; soft
		dry	11.3		5			
					6			
					7			
					8			
					9			
			335	12 13 19	10			
					11			
					12			
					13			
					14			
			328	12 26 25	15		CL	**Sandy Lean CLAY**: medium brown with very dark brown mottling; 70-80% fines; 20-30% fine grained sands; low to moderate plasticity; stiff
					16			
					17			
					18			
		moist			19			
			22.6	50 for 6"	20			
	▼	damp			21			
Bentonite					22			

Delta
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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Boring No: MW-1	
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 2 of 2	
Driller:	Gregg	Date Drilled:	5/5/2005	Location Map	
Drilling Method:	HSA	Hole Diameter:	10 Inch	Please see site map	
Sampling Method:	CA Mod. Split Shoe	Hole Depth:	27 ft		
Casing Type:	PVC	Well Diameter:	4 inch		
Slot Size:	0.01	Well Depth:	27 ft		
Gravel Pack:	#2/12	Casing Stickup:	NA		
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
Sand					23			CL	**Sandy Lean CLAY**: continued
					24				
		damp	9.4		25			CL	**Lean CLAY with Sand**: same as above, stiff
					26				
					27				Boring terminated at 27 feet below ground surface
					28				
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				

BORING LOG

DELTA Xinogen

Client: Shell Oil Products US

Project Number: SCA8999S1D

Well No.: MW-1R

Address: **8999 San Ramon Road** **Dublin, CA** Logged By: **Cora Olsun**	Drilling Date(s): **02/10/10** Drilling Company: **RSI** Drilling Method: **HSA** Boring Depth (ft): **41.5'**	Boring diameter (in.): **10"** Sampling Method: **Split Spoon** Well Depth (ft.): **40'** Casing Diameter (in.): **4"**	Casing Material: **Sch 40 PVC** Screen Interval: **30' - 40' bgs** Screen slot size: **0.010"** Sand Pack: **2/12**

Depth (ft.)	Water Level	Soil/Rock Graphic	Sampled Interval	Blow Counts (blows/ft)	Recovery (%)	Soil/Rock Visual Description	PID Reading (ppm)	Well Completion	Depth (ft.)
0						Airknifed to ~10' bgs.			0
10				11	43%	CL: Silty CLAY, dark gray to brown, moist, trace gravel, 70% clay, 30% silt.	9.8		10
15				33	100%	CL: Silty CLAY with fine sand, gray to brown, dry, 70% clay, 20% silt, 10% fine sand.	1.4		15
20				15	100%	CL: Sandy CLAY, gray, dry, 70% clay, 30% fine sand.	4.0		20
25				17	100%	(as above)	0.0		25
30				20	100%	CL: CLAY, brown, trace fine sand (<5%), moist.	0.0		30
35	▽			35	100%	CL: CLAY with silt and medium to coarse sand, brown, wet, trace gravel.	0.0		35
40				45	100%	(as above)	0.0		40
45						Bottom of boring = 41.5' bgs.			45
50									50

Delta

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Well No: MW-2
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 1 of 2
Driller:	Gregg	Date Drilled:	5/5/2005	
Drilling Method:	HSA	Hole Diameter:	10 inch	
Sampling Method:	CA Mod. Split Shoe	Hole Depth:	27 ft	
Casing Type:	PVC	Well Diameter:	4 inch	
Slot Size:	0.01	Well Depth:	27 feet	
Gravel Pack:	#2/12	Casing Stickup:	NA	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill / Casing / Grout / Bentonite				air knifed & hand augered				AF	Asphalt 6", Base rock 4"
					1–4			SM	**Silty SAND**: light brown; 20-30% silt; fine to coarse grained sand, well graded
		dry	11.3		5–9			CL	**Lean CLAY with Sand**: medium brown mottled with orange; 85-90% fines; 10-15% fine grained sand in tan sand pockets; moderate to high plasticity; soft
			335	12 13 19	10–11				
			328	12 26 25	15–16				(Same as above, less orange mottling)
		moist	22.6	50 for 6"	20–21			CL	**Sandy Lean CLAY**; gray; 55 to 65% fines; 35 to 45% sand; low plasticity; soft
	▼	damp			22				

Delta
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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Boring No: MW-2
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 2 of 2
Driller:	Gregg	Date Drilled:	5/5/2005	
Drilling Method:	HSA	Hole Diameter:	10 inch	
Sampling Method:	CA Mod. Split Shoe	Hole Depth:	27 ft	
Casing Type:	PVC	Well Diameter:	4 inch	
Slot Size:	0.01	Well Depth:	27 ft	
Gravel Pack:	#2/12	Casing Stickup:	NA	
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
Sand					23			CL	**Sandy Lean CLAY**: continued
					24				
		damp	9.4		25			CL	**Lean CLAY with Sand**: same as above, stiff
					26				
					27				Boring terminated at 27 feet below ground surface
					28				
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-2R
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	17-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	23-Feb-11
PROJECT NUMBER	240724	**WELL DEVELOPMENT DATE (YIELD)**	11-May-11 (39.0 gallons)
DRILLER	Cascade Drilling, L.P.	**GROUND SURFACE ELEVATION**	416.21 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	415.82 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVALS**	30 to 45 fbg
LOGGED BY	W. Martinez	**DEPTH TO WATER (First Encountered)**	40.00 fbg
REVIEWED BY	P. Schaefer PG#5612	**DEPTH TO WATER (Static)**	20.87 fbg (11-May-11)
REMARKS	Airknifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							See boring log MW-2RC for lithology.		Portland Type I/II

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-2R
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	17-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	23-Feb-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				25					2" diam., Schedule 40 PVC
									Bentonite Seal
				30					Monterey Sand #2/12
				35					2"-diam., 0.010" Slotted Schedule 40 PVC
				40					

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-2R
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	17-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	23-Feb-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				45				45.0	Bottom of Boring @ 45 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\2407-1240724-1244DE5-1240724.GPJ DEFAULT.GDT 5/25/11

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-2RB
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	17-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	22-Feb-11
PROJECT NUMBER	240724	**WELL DEVELOPMENT DATE (YIELD)**	11-May-11 (72.0 gallons)
DRILLER	Cascade Drilling, L.P.	**GROUND SURFACE ELEVATION**	415.97 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	415.66 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVALS**	58 to 68 fbg
LOGGED BY	W. Martinez	**DEPTH TO WATER (First Encountered)**	40.00 fbg ▽
REVIEWED BY	P. Schaefer PG#5612	**DEPTH TO WATER (Static)**	22.28 fbg (11-May-11) ▼
REMARKS	Airknifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							See boring log MW-2RC for lithology.		

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-2RB
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	17-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	22-Feb-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				25					Portland Type I/II
				30					
				35					
				40					

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-2RB
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	17-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	22-Feb-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				45					
				50					2" diam., Schedule 40 PVC
				55					Bentonite Seal
				60					Monterey Sand #2/12
				65					2"-diam., 0.010" Slotted Schedule 40 PVC

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-2RB
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	17-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	22-Feb-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
								68.0	Bottom of Boring @ 68 fbg

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-2RC
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	21-Feb-11
PROJECT NUMBER	240724	**WELL DEVELOPMENT DATE (YIELD)**	11-May-11 (35.4 gallons)
DRILLER	Cascade Drilling, L.P.	**GROUND SURFACE ELEVATION**	416.18 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	415.97 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVALS**	96 to 106 fbg
LOGGED BY	W. Martinez	**DEPTH TO WATER (First Encountered)**	40.00 fbg ▽
REVIEWED BY	P. Schaefer PG#5612	**DEPTH TO WATER (Static)**	27.01 fbg (11-May-11) ▼
REMARKS	Airknifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)
							ASPHALT	0.3
							GRAVEL BASE	0.5
					CL		**CLAY (CL):** black (5Y 2.5/1), moist, 60% clay, 35% silt, 5% fine gravel, medium plasticity, fill.	3.0
0.1	7/9/14	MW-2R C -5.5		5	CH		**CLAY (CH):** greenish black (5GY 2.5/1), moist, 75% clay, 25% silt, high plasticity, fill.	8.3
0.1	4/9/12	MW-2R C -10.5		10	ML		**SILT (ML):** dark brown (7.5YR 4/3), moist, 35% clay, 60% silt, 5% fine gravel, medium plasticity.	13.3
0.3	11/7/13	MW-2R C -15.5		15	CL		**CLAY with sand (CL):** very dark greenish gray (5GY 3/1), moist, 45% clay, 30% silt, 20% fine sand, 5% fine gravel, medium plasticity.	20.0
				20				

WELL DIAGRAM

WELL LOG (PID) I:\SHELL\6-CHARS\2407-\240724-1\244DE5-1\240724.GPJ DEFAULT.GDT 5/25/11

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-2RC
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	21-Feb-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.0	7/7/14	MW-2R C -20.5					@ 20 fbg; **Sandy CLAY (CL):** 55% clay, 10% silt, 30% fine sand, 5% fine gravel.		
				25	CL				
0.0	9/12/18	MW-2R C -25.5					@ 25 fbg; **CLAY with sand (CL):** dark brown (7.5YR 3/2), 65% clay, 20% silt, 15% fine to coarse sand.		
								28.3	
				30					
0.1	7/7/9	MW-2R C -30.5					**SILT (ML):** dark yellowish brown (10YR 4/4), moist, 30% clay, 60% silt, 10% fine sand, low plasticity.		
					ML				
				35					
0.2	9/12/15	MW-2R C -35.5					@ 35 fbg; 30% clay, 60% silt, 10% fine gravel.		
								38.3	
				40					
0.1	0/10/10	MW-2R C -40.5			CH		**CLAY (CH):** reddish brown (2.5YR 4/4), wet, 65% clay, 35% silt, high plasticity.		Portland Type I/II

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-2RC
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	21-Feb-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
								43.3	
2.6	5/5/10	MW-2R C -45.5		45	CL		**CLAY (CL):** greenish black (10Y 2.5/1), moist, 60% clay, 40% silt, medium plasticity.		
								48.3	
0.1	8/9/12	MW-2R C -50.5		50	ML		**Sandy SILT (ML):** dark grayish brown (10YR 4/2), moist, 10% clay, 60% silt, 25% fine sand, 5% fine gravel, low plasticity.		
0.7	6/8/10	MW-2R C -55.5		55			@ 55 fbg; **SILT with sand (ML):** brown (10YR 4/3), 25% clay, 60% silt, 15% fine sand.	58.3	
0.1	7/9/14	MW-2R C -60.5		60	CH		**CLAY with sand (CH):** brown (10YR 4/3); moist, 75% clay, 10% silt, 15% fine sand, high plasticity.		
								63.3	
0.0	10/10/10	MW-2R C		65			**SILT (ML):** light olive brown (2.5Y 5/4), moist, 25% clay, 70% silt, 5% fine sand, low plasticity.		

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-2RC
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	21-Feb-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
		-60.5							
				70					
2.1	11/10/18	MW-2R C -70.5			ML				
				75			@ 75 fbg;**Sandy SILT (ML):** 10% clay, 60% silt, 30% sand.		
2.2	11/10/10	MW-2R C -75.5							
				80			@ 80 fbg; 10% clay, 50% silt, 40% sand.		
0.1	9/10/17	MW-2R C -80.5						83.3	
				85	SM		**Silty SAND (SM):** light olive brown (2.5Y 5/4); wet, 10% clay, 30% silt, 60% fine sand.		2" diam., Schedule 40 PVC
0.3	7/10/16	MW-2R C -85.5			CL		**CLAY with sand (CL):** light olive brown (2.5Y 5/4), moist, 45% clay, 30% silt, 20% fine sand, 5% fine gravel, medium plasticity.	86.0	
								88.3	

WELL LOG (PID) I:\SHELL\6-CHARS\2407-1240724-11244DE5-1240724.GPJ DEFAULT.GDT 5/25/11

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-2RC
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	21-Feb-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	DEPTH (fbg)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)
0.0	9/13/12	MW-2R C -90.5	90	ML	**SILT with sand (ML):** light olive brown (2.5Y 5/4), moist, 10% clay, 70% silt, 20% fine sand, low plasticity.	
0.0	10/12/16	MW-2R C -95.5	95		@ 95 fbg;**Sandy SILT (ML):** wet, 10% clay, 55% silt, 35% fine sand.	98.3
0.0	14/50 for 6"	MW-2R C -100.5	100	SC	**Clayey SAND (SC):** light olive gray (2.5YR 5/4), wet, 20% clay, 10% silt, 70% fine sand.	101.4
				GC	**Clayey GRAVEL with sand (GC):** light olive gray (2.5YR 5/4), wet.	103.3
				SP SM	**SAND with silt (SP-SM):** weak red (2.5YR 4/2), wet, 10% silt, 90% coarse sand.	
0.3	12/50 for 6"	MW-2R C -105.5	105		**Clayey SAND (SC):** light olive gray (2.5YR 5/4), wet, 20% clay, 10% silt, 70% fine sand.	106.0
				CL	**Sandy CLAY with gravel (CL):** weak red (2.5YR 4/2), moist, 50% clay, 30% coarse sand, 20% gravel, low plasticity.	108.3
0.0	3/3/4	MW-2R C -110.5	110	GP	**GRAVEL with sand (GP):** weak red (2.5YR 4/2), wet, 5% clay, 15% coarse sand, 80% fine gravel.	111.5

WELL DIAGRAM: Bentonite Seal; Monterey Sand #2/12; 2"-diam., 0.010" Slotted Schedule 40 PVC; Backfilled with Bentonite.

WELL LOG (PID): I:\SHELL\6-CHARS\2407-\240724-\1244DE5-\1240724.GPJ DEFAULT.GDT 5/25/11

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-2RC
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	21-Feb-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
									Bottom of Boring @ 111.5 fbg

Delta
Environmental Consultants, Inc.

Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Well No: MW-3	
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 1 of 2	
Driller:	Gregg	Date Drilled:	5/6/2005	Location Map	
Drilling Method:	HSA	Hole Diameter:	10 inch	Please see site map	
Sampling Method:	CA Mod. Split Shoe	Hole Depth:	26 ft		
Casing Type:	PVC	Well Diameter:	4 inch		
Slot Size:	0.01	Well Depth:	26 feet		
Gravel Pack:	#2/12	Casing Stickup:	NA		
Elevation		Northing		Easting	

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill / Casing								AF	Asphalt 6", Base rock 4"
		wet		air knifed & hand augered	1			SM	**Silty SAND**: light brown; 20-30% silt; fine to coarse grained sand, well graded
					2				
					3			CL	**Sandy Lean CLAY**: medium brown mottled with orange; 70-80% fines; 20-30% fine grained sand in tan sand pockets; trace gravels up to 0.5" in diameter; moderate to high plasticity; soft
		damp			4				
Grout			1.8		5				
					6				
		dry			7				
					8				
					9				
		dry	0.5	8 10 16	10			CL	**Lean CLAY with Sand**: medium brown with orange mottling; 85-90% fines; 10-15% fine grained sand in tan sand pockets; moderate plasticity; soft
					11				
					12				
					13				
					14				
		dry	0.6	14 24 36	15			CL	**Sandy Lean CLAY**: medium brown; 70-80% fines; 20-30% fine grained poorly graded sand in tan sand pockets; slight product odor; moderate to high plasticity; stiff
					16				
					17				
					18				
					19				
Bentonite	▼	dry	0.2	15 21 25	20			CL	**Lean CLAY with Sand**: same as above; medium brown with dark brown mottling; stiff
					21				
					22				

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Boring No: MW-3
Logged By:	Heather Buckingham	Location:	6999 San Ramon Rd., Dublin	Page 2 of 2
Driller:	Gregg	Date Drilled:	5/6/2005	
Drilling Method:	HSA	Hole Diameter:	10 inch	
Sampling Method:	CA Mod. Split Shoe	Hole Depth:	25 ft	
Casing Type:	PVC	Well Diameter:	4 inch	
Slot Size:	0.01	Well Depth:	26 ft	
Gravel Pack:	#2/12	Casing Stickup:	NA	
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
Sand					23			CL	**Lean CLAY with Sand**: continued
					24				
		dry	0.7	9 16 27	25			CL	**Sandy Lean CLAY**: grey; 60-70% fines; 30-40% sand; low to moderate plasticity; stiff
					26				Boring terminated at 26 feet below ground surface
					27				
					28				
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				

BORING LOG

DELTA Xinogen

Client: Shell Oil Products US

Project Number: SCA8999S1D

Well No.: MW-3R

Address: **8999 San Ramon Road** **Dublin, CA** Logged By: **Abhik Dutta**	Drilling Date(s): **02/11/10** Drilling Company: **RSI** Drilling Method: **HSA** Boring Depth (ft): **35'**	Boring diameter (in.): **10"** Sampling Method: **Split Spoon** Well Depth (ft.): **35'** Casing Diameter (in.): **4"**	Casing Material: **Sch 40 PVC** Screen Interval: **25' - 35' bgs** Screen slot size: **0.010"** Sand Pack: **2/12**

Depth (ft.)	Water Level	Soil/Rock Graphic	Sampled Interval	Blow Counts (blows/ft)	Recovery (%)	Soil/Rock Visual Description	PID Reading (ppm)	Well Completion	Depth (ft.)
0						Airknifed to 9.5' bgs.			0
10				15	87%	CL: CLAY with silt, brown, damp, trace rounded gravel, <15% silt.	2.1		10
15				26	87%	ML: SILT, gray, low plasticity, damp to dry, <10% clay.	4.0		15
20				31	90%	(as above, clay present as veins, clay increasing at bottom of sample)	3.3		20
25				29	97%	ML: SILT, brown, low plasticity, trace clay, damp, color increasingly gray towards bottom of sample, moist towards bottom.	6.8		25
30	▽			30	93%	ML: SILT, brown, low plasticity, hard, wet, <10% fine, well rounded sand.	7.5		30
35				51	93%	(as above, plasticity decreases with depth, minor fractures within sample)	2.2		35
40						Bottom of boring = 35' bgs.			40

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Well No: MW-4
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 1 of 2
Driller:	Gregg	Date Drilled:	5/6/2005	
Drilling Method:	HSA	Hole Diameter:	10 inch	
Sampling Method:	CA Mod. Split Shoe	Hole Depth:	27 ft	
Casing Type:	PVC	Well Diameter:	4 inch	
Slot Size:	0.01	Well Depth:	27 feet	
Gravel Pack:	#2/12	Casing Stickup:	NA	
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
					0			AF	Asphalt 6", Base rock 4"
		wet			1			SM	**Silty SAND**: light brown; 20-30% silt; fine to coarse grained sand, well graded
					2				
					3				
					4			CL	**Sandy Lean CLAY**: medium brown mottled with orange; 70-80% fines; 20-30% fine grained sand in tan sand pockets; trace gravels up to 0.5" in diameter; moderate to high plasticity; soft
Grout		dry	3	air knifed & hand augered	5				
					6				
					7				
					8				
					9				
				8	10			CL	**Lean CLAY with Sand**: medium brown with orange mottling; 85-90% fines; 10-15% fine grained sand in tan sand pockets; moderate plasticity; soft
		dry	1.3	10	11				
				16	12				
					13				
					14				
				14	15			CL	**Sandy Lean CLAY**: grey mottled with medium brown; 75-80% fines; 25-30% fine grained poorly graded sand in tan sand pockets; moderate to high plasticity; stiff
		dry	0.7	24	16				
				36	17				
					18				
					19				
				15	20				(Same as above, trace gravels up to 0.5 cm in diameter)
		moist	0.7	21	21				
Bentonite				25	22				

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Boring No: MW-4	
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 2 of 2	
Driller:	Gregg	Date Drilled:	5/6/2005	Location Map	
Drilling Method:	HSA	Hole Diameter:	10 inch	Please see site map	
Sampling Method:	CA Mod. Split Shoe	Hole Depth:	27 ft		
Casing Type:	PVC	Well Diameter:	4 inch		
Slot Size:	0.01	Well Depth:	27 ft		
Gravel Pack:	#2/12	Casing Stickup:	NA		
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
Sand		wet dry	0.4	9 16 27	23 24 25 26 27			CL CL	**Sandy Lean CLAY**: continued **Lean CLAY with Sand**: medium brown with grey mottling; grey; 85-90% fines; 10-15% sand; moderate plasticity; stiff Boring terminated at 27 feet below ground surface

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Well No: MW-5	
Logged By:	Andy Persio	Location:	8999 San Ramon	Page 1 of 2	
Driller:	Gregg	Date Drilled:	7/26&28/06	Location Map	
Drilling Method:	HSA/ AK (7')	Hole Diameter:	12"/10"	Please see site map	
Sampling Method:	SS	Hole Depth:	28'		
Casing Type:	Sch 40 PVC	Well Diameter:	4"		
Slot Size:	0.01	Well Depth:	28'		
Gravel Pack:	#2/12 sand	Casing Stickup:	NA		
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
Grout				air knifed & hand augered	1			AF	~3" asphalt, and ~3" baserock
					2				
					3				
					4				
		moist	0.5		5			CL	**sandy lean CLAY**: dark brown, stiff, 20-30% fine to medium grained sands, low plasticity
					6				
					7				
					8				
				4	9			SC	**clayey SAND**: dark brown, medium dense, 30-40% fines,
		moist	0.3	10					5-15% gravels up to 0.5" b-axis diameter, no plasticity
				11	10				
					11				
					12				
					13				
				4	14			CL	**sandy lean CLAY**: dark brown, very stiff, 25-35% fine
		moist	11.2	7					grained sands, low plasticity
				10	15				
Bentonite					16				
					17				
					18				
				9	19				30-40% fine grained sands, hard
		moist	11.6	13					
				16	20				

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Well No: MW-5
Logged By:	Andy Persio	Location:	8999 San Ramon	Page 2 of 2
Driller:	Gregg	Date Drilled:	7/26&28/06	
Drilling Method:	HSA/ AK (7')	Hole Diameter:	12"/10"	
Sampling Method:	SS	Hole Depth:	28'	
Casing Type:	Sch 40 PVC	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	28'	
Gravel Pack:	#2/12 sand	Casing Stickup:	NA	
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
Sand					21			CL	**sandy lean CLAY** (cont.)
					22				
					23				
	24.1' ▼	1:45p		6	24				very stiff
				10					
		moist	2.3	10	25				
					26			SC	**clayey SAND**: brown, medium dense, 30-40% fines, trace gravels up to 0.5" b-axis diameter, no plasticity
				10	27				
		moist	8.8	15					
				15	28				Bottom of boring terminated at 28 feet bg
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				

Delta

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Project No:SJ89-99-1	Client: Shell Oil Products US	Well No: MW-6	
Logged By: Andy Persio	Location: 8999 San Ramon, Dublin,CA	Page 1 of 2	
Driller: Gregg	Date Drilled: 2/21/2006	Location Map	
Drilling Method: WK to 7'/HSA	Hole Diameter: 12" - 10"	Please see site map	
Sampling Method: HA/SS	Hole Depth: 7'/30'		
Casing Type: SCh 40 PVC	Well Diamete 4"		
Slot Size: 0.01	Well Depth: 30'		
Gravel Pack: 2/12/ sand	Casing Stickup: 0		
Elevation	Northing	Easting	

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill / Casing								AF	~6" asphalt and baserock
					1			CL	**sandy lean CLAY**: dark grey, 40-50% fine to med. grained sands, med.plasticity
		damp	32.5	air knifed & hand augered	2				
					3				
		damp	18.5		4				dark brown, 35-45% fine to med. grained sands
Grout					5				
		damp	50.6		6				orangish brown, 40-50% fine to med. grained sands
					7				
					8				
					9			CL	**lean CLAY w/sand**: dark brown, 10-20% fine grained sands, trace gravels up to 1" dia., trace caliche, med. Plasticity
		damp	86.1		10				
					11				
					12				
					13				
					14			CL	**lean CLAY**: dark brown, 5-15% fine grained sands, med. plasticity
		damp	11.8		15				
					16				
					17				
					18			SC	**clayey SAND**: greenish brown to grey (discoloration), 40-50% fines, med. to fine grained sands, low plasticity
Bentonite					19				
		damp	6.2		20				

Delta

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Project No:SJ89-99-1	Client: Shell Oil Products US	Well No: MW-6
Logged By: Andy Persio	Location: 8999 San Ramon, Dublin,CA	Page 2 of 2
Driller: Gregg	Date Drilled: 2/21/2006	
Drilling Method: WK to 7'/HSA	Hole Diameter: 12" - 10"	
Sampling Method: HA/SS	Hole Depth: 7'/30'	
Casing Type: SCh 40 PVC	Well Diamete 4"	
Slot Size: 0.01	Well Depth: 30'	
Gravel Pack: 2/12/ sand	Casing Stickup: 0	
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
Sand					21			SC	**clayey SAND** (cont.)
					22				
					23			CL	**lean CLAY w/sand**: brown w/orange mottling, med. stiff, 15-25% fine grained sands, trace gravels up to 1/4" dia.
	24.6'				24				
		damp	11.3		25				
					26				
					27				
					28				
					29			SC	**clayey SAND w/gravel**: greyish brown w/orange mottling, med. Dense, 30-40% fines, 5-15% gravels up to 1/2" dia., no plasticity
		moist	1.9		30				Bottom of boring terminated at 30' bg
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Well No: MW-7
Logged By:	Andy Persio	Location:	8999 San Ramon	Page 1 of 2
Driller:	Gregg	Date Drilled:	7/26/2006	
Drilling Method:	HSA / AK (7')	Hole Diameter:	12"/10"	
Sampling Method:	SS	Hole Depth:	28'	
Casing Type:	Sch 40 PVC	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	28'	
Gravel Pack:	#2/12 sand	Casing Stickup:	NA	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill / Casing									
					1			AF	~5" asphalt
								SC	**clayey SAND**: brown, medium dense, 15-25% fines, fine to medium grained sands, no plasticity
					2				* @ around 18-24" bg a broken layer of asphalt was uncovered
				air knifed & hand augered	3			CL	**lean CLAY**: dark brown, stiff, <10% fine grained sands, low plasticity, trace gravels up to 0.5" diameter
					4				
Grout		moist	0.6		5				
					6				
					7				
					8				
				4	9			CL	**sandy lean CLAY**: dark brown, very stiff, 30-40% fine to medium grained sands, 5-15% gravels up to 0.75" b-axis diameter, low plasticity
		moist	0.6	7					
				10	10				
					11				
					12				
					13				
				4	14			CL	**lean CLAY w/sand**: dark brown, stiff, 15-25% fine grained sands, low plasticity
		moist	1.2	6					
				8	15				
					16				
Bentonite					17				
					18				
				10	19			CL	**sandy lean CLAY**: brown, hard, 30-40% fine to medium grained sands, trace gravels up to 0.5" diameter, low plasticity
		moist	0.8	13					
San				13	20				

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Well No: MW-7
Logged By:	Andy Persio	Location:	8999 San Ramon	Page 2 of 2
Driller:	Gregg	Date Drilled:	7/26/2006	
Drilling Method:	HSA / AK (7')	Hole Diameter:	12"/10"	
Sampling Method:	SS	Hole Depth:	28'	
Casing Type:	Sch 40 PVC	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	28'	
Gravel Pack:	#2/12 sand	Casing Stickup:	NA	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
					21			CL	**sandy lean CLAY** (cont.)
					22				
					23				
				6	24				same as above
	25.0' 8:15a	moist	0.8	12 13	25				
					26				
				6	27				light brown, no gravels
		moist	0.6	12 13	28				
									Bottom of boring terminated at 28 feet bg
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Well No: MW-8	
Logged By:	Andy Persio	Location:	8999 San Ramon	Page 1 of 2	
Driller:	Gregg	Date Drilled:	7/25 & 27/06	Location Map	
Drilling Method:	HSA / AK (7')	Hole Diameter:	12"/10"	Please see site map	
Sampling Method:	SS	Hole Depth:	28'		
Casing Type:	Sch 40 PVC	Well Diameter:	4"		
Slot Size:	0.01	Well Depth:	28'		
Gravel Pack:	#2/12 sand	Casing Stickup:	NA		
Elevation		Northing		Easting	

Well Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill / Casing								AF	~4" asphalt
					1				No samples or observations above 5' bg because I was with drillers setting another well
					2				
					3				
					4				
		moist	0.8	air knifed & hand augered	5			CL	**sandy lean CLAY**: brown, medium stiff, 35-45% fine grained to medium grained sands, trace gravels up to 0.5" diameter, low plasticity
Grout					6				
					7				
					8				
		moist	0.5	12 20 17	9			SC	**clayey SAND**: brown, dense, 30-40% fines, fine to coarse grained sands, 5-15% gravels up to 1" b-axis, no plasticity
					10				
					11				
					12				
					13				
		moist	65.2	10 12 17	14			CL	**lean CLAY w/sand**: dark brown, hard, 15-25% fine grained sands, 5-15% gravels up to 0.75" diameter, low plasticity
					15				
Bentonit					16				
					17				
					18				
Sand		moist	146	6 10 11	19				very stiff, trace gravels up to 0.5" diameter
					20				

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Well No: MW-8
Logged By:	Andy Persio	Location:	8999 San Ramon	Page 2 of 2
Driller:	Gregg	Date Drilled:	7/25 & 27/06	Location Map
Drilling Method:	HSA / AK (7')	Hole Diameter:	12"/10"	Please see site map
Sampling Method:	SS	Hole Depth:	28'	
Casing Type:	Sch 40 PVC	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	28'	
Gravel Pack:	#2/12 sand	Casing Stickup:	NA	
Elevation		Northing		Easting

Well Completion Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
					21			CL	**lean CLAY w/sand** (cont.)
	22.1' b ▼ 10:00a				22				
					23				
		moist	12.3	5 9 11	24				no gravels
					25				
					26				
		moist	0.9	8 11 15	27				dark grey, medium plasticity
					28				Bottom of boring terminated at 28 feet bg
					29				
					30				28' bg= bottom of boring
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				

Delta
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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Well No: MW-9
Logged By:	Andy Persio	Location:	8999 San Ramon	Page 1 of 2
Driller:	Gregg	Date Drilled:	7/26 & 27/06	
Drilling Method:	HAS/ AK (7')	Hole Diameter:	12"/10"	
Sampling Method:	SS	Hole Depth:	29.4'	
Casing Type:	Sch 40 PVC	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	29.4'	
Gravel Pack:	#2/12 sand	Casing Stickup:	NA	
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
								AF	~3" asphalt and ~ 3" baserock
					1			CL	sandy lean CLAY: dark brown, stiff, 30-40% fine to medium grained sands, low plasticity, trace gravels up to 1" b-axis diameter
					2				
					3				
					4				
Grout		moist	2.6	air knifed & hand augered	5				40-50% fine to medium grained sand, brown
					6				
					7				
					8				
		moist	1.1	4 4 6	9				5-15% gravels up to 0.5" diameter
					10				
					11				
					12				
					13			CL	lean CLAY w/sand: brown, very stiff, 15-25% fine grained sands, low plasticity
		moist	0.9	5 8 10	14				
					15				
					16				
					17				
					18				
Bentonite		moist	0.7	7 11 17	19				hard, 10-20% fine grained sands
					20				

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Well No: MW-9
Logged By:	Andy Persio	Location:	8999 San Ramon	Page 2 of 2
Driller:	Gregg	Date Drilled:	7/26 & 27/06	
Drilling Method:	HAS/ AK (7')	Hole Diameter:	12"/10"	
Sampling Method:	SS	Hole Depth:	29.4'	
Casing Type:	Sch 40 PVC	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	29.4'	
Gravel Pack:	#2/12 sand	Casing Stickup:	NA	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
					20			CL	lean CLAY w/sand (cont.)
					21				
					22				
					23				
			0.5	7 13 15	24				hard, 15-25% fine grained sands
					25				
					26				
			1	7 12 16	27				same as above
					28				
	28.9'bg 10:00a				29				
					30				29.4'bg = bottom of boring/well
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				

Delta

Environmental Consultants, Inc.

Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Well No: MW-10	
Logged By:	Andy Persio	Location:	8999 San Ramon	Page 1 of 2	
Driller:	Gregg	Date Drilled:	7/25-26/06	Location Map	
Drilling Method:	HSA / AK (7')	Hole Diameter:	12"/10"	Please see site map	
Sampling Method:	SS	Hole Depth:	29'		
Casing Type:	Sch 40 PVC	Well Diameter:	4"		
Slot Size:	0.01	Well Depth:	29'		
Gravel Pack:	#2/12 sand	Casing Stickup:	NA		
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
								AF	~9" asphalt and ~3" baserock
				air knifed & hand augered	1			SC	**clayey SAND**: light grey, medium dense, 10-20% fines, fine to medium grained sands, no plasticity
					2				
					3				
					4				
Grout		moist	3.6		5			CL	**sandy lean CLAY**: dark brown, stiff, 30-40% fine grained sands, trace gravels and cobbles up to 3" b-axis diameter, low plasticity
					6				
					7				
					8				
		moist	29.5	4 8 14	9			CL	lean CLAY w/sand: dark brown, 20-30% fine to medium grained sands, very stiff, trace gravels up to 2" b-axis diameter, low plasticity
					10				
					11				
					12				
					13				
		moist	5.1	7 8 10	14				10-20% fine to medium grained sands, trace gravels up to 1" b-axis diameter
					15				
Bentonite					16				
					17				
					18				
Sand		moist	3.5	5 1 16	19 20			CL	sandy lean CLAY: dark grwy w/greenish discoloration, hard, 30-40% fine to medium grained sands, low plasticity

Delta Environmental Consultants, Inc.

Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Well No: MW- 10
Logged By:	Andy Persio	Location:	8999 San Ramon	Page 2 of 2
Driller:	Gregg	Date Drilled:	7/25-26/06	
Drilling Method:	HAS/ AK (7')	Hole Diameter:	12"/10"	
Sampling Method:	SS	Hole Depth:	29'	
Casing Type:	Sch 40 PVC	Well Diameter:	4"	
Slot Size:	0.01	Well Depth:	29'	
Gravel Pack:	#2/12 sand	Casing Stickup:	NA	
Elevation		Northing		Easting

Location Map

Please see site map

Well Completion Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
					21			CL	sandy lean CLAY (cont.): dark brown, same as above, no discoloration
					22				
					23				
	22.85' 4:00p								
		moist	1.3	4 8 12	24			CL	lean CLAY w/sand: dark brown, very stiff, 15-25% fine grained sands, low plasticity
					25				
					26				
		moist	1.2	7 10 14	27				same as above
					28				
					29				29'bg = bottom of boring/well
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				

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Environmental Consultants, Inc.

Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Well No: MW-11	
Logged By:	Andy Persio	Location:	8999 San Ramon	Page 1 of 2	
Driller:	Gregg	Date Drilled:	7/25 & 28/06	Location Map	
Drilling Method:	HSA / AK (7')	Hole Diameter:	10"/6"	Please see site map	
Sampling Method:	SS	Hole Depth:	29'		
Casing Type:	Sch 40 PVC	Well Diameter:	2"		
Slot Size:	0.01	Well Depth:	29'		
Gravel Pack:	#2/12 sand	Casing Stickup:	NA		
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
								AF	~3" asphalt and ~6" baserock
					1			CL	**lean CLAY w/sand**: dark brown, medium stiff, 15-25% fine to medium grained sands, low plasticity
					2				
					3				
					4				
		moist	275	air knifed & hand augered	5				
Grout					6				
					7			CL	**sandy lean CLAY**: light brown, medium stiff, 35-45% fine to medium grained sands, low plasticity
					8				
				2	9				
		moist	0.8	3					30-40% fine to medium grained sands, 5-15% gravels up to 0.5" b-axis diameter
				4	10				
					11				
					12				
					13				
				6	14				vert stiff, 25-35% fine to medium grained sands
		moist	0.8	8					
				11	15				
					16				
					17				
Bentonit					18				
				7	19			SC	**clayey SAND**: light brown, medium dense, 25-35% fines, no plasticity
		moist	2.4	8					
				15	20				

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Well No: MW-11
Logged By:	Andy Persio	Location:	8999 San Ramon	Page 2 of 2
Driller:	Gregg	Date Drilled:	7/25 & 28/06	
Drilling Method:	HSA / AK (7')	Hole Diameter:	10"/6"	
Sampling Method:	SS	Hole Depth:	29'	
Casing Type:	Sch 40 PVC	Well Diameter:	2"	
Slot Size:	0.01	Well Depth:	29'	
Gravel Pack:	#2/12 sand	Casing Stickup:	NA	
Elevation		Northing		Easting

Location Map

Please see site map

Well completion Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
					21			SC	**clayey SAND** (cont.)
					22				
					23				
				8	24				30-40% fines, medium dense, trace gravels up to
		moist	1.6	11					0.5" diameter
				16	25				
					26				
				5	27				40-50% fines, no gravels
		moist	1.2	7					
	28.3' bg			11	28				
	2:20p				29				29'bg = bottom of boring/well
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				

BORING LOG

Client Shell Oil Products
Project Number SJ899SA

Well No.
MW-11B

Address:	Drilling Date(s): **12/19/2007**	Boring diameter (in.): **10"**	Casing Material: **SCH 40 PVC**
899 San Ramon Road	Drilling Company: **Test America**	Sampling Method: **Split Spoon**	Screen Interval: **28'-38'**
Dublin, CA.	Drilling Method: **HSA**	Well Depth (ft.): **38'**	Screen slot size: **0.010"**
Logged By: **M. Lambert**	Boring Depth (ft): **38**	Casing Diameter (in.): **4"**	Sand Pack: **#2/12**

Depth (ft.)	Sampled Interval	Blow Counts (blows/ft)	Recovery (%)	Soil/Rock Visual Description	PID Reading (ppm)
0				ASPHALT: 6"	
				CL: Gravelly CLAY with sand, 60% fine, brown, low plasticity, dense, moist.	
5				Airknifed to 8' bgs. on 12/17/2007.	
10		14	100%	(same as above.)	0.1
15		25	100%	CLAY with sand, 75% fines, brown low plasticity, dense moist.	0.1
20		36	100%	Sandy CLAY, 60% fines, brown, low plasticity, dense, moist.	1.3
25		42	100%	(same as above.)	10.5
30		<50	100%	SC: Clayey SAND, 40% fines, brown, low plasticity dense, moist.	0.1
35		<50	100%	(same as above, wet.)	0.1
				End of boring: 38' bgs.	
40					
45					

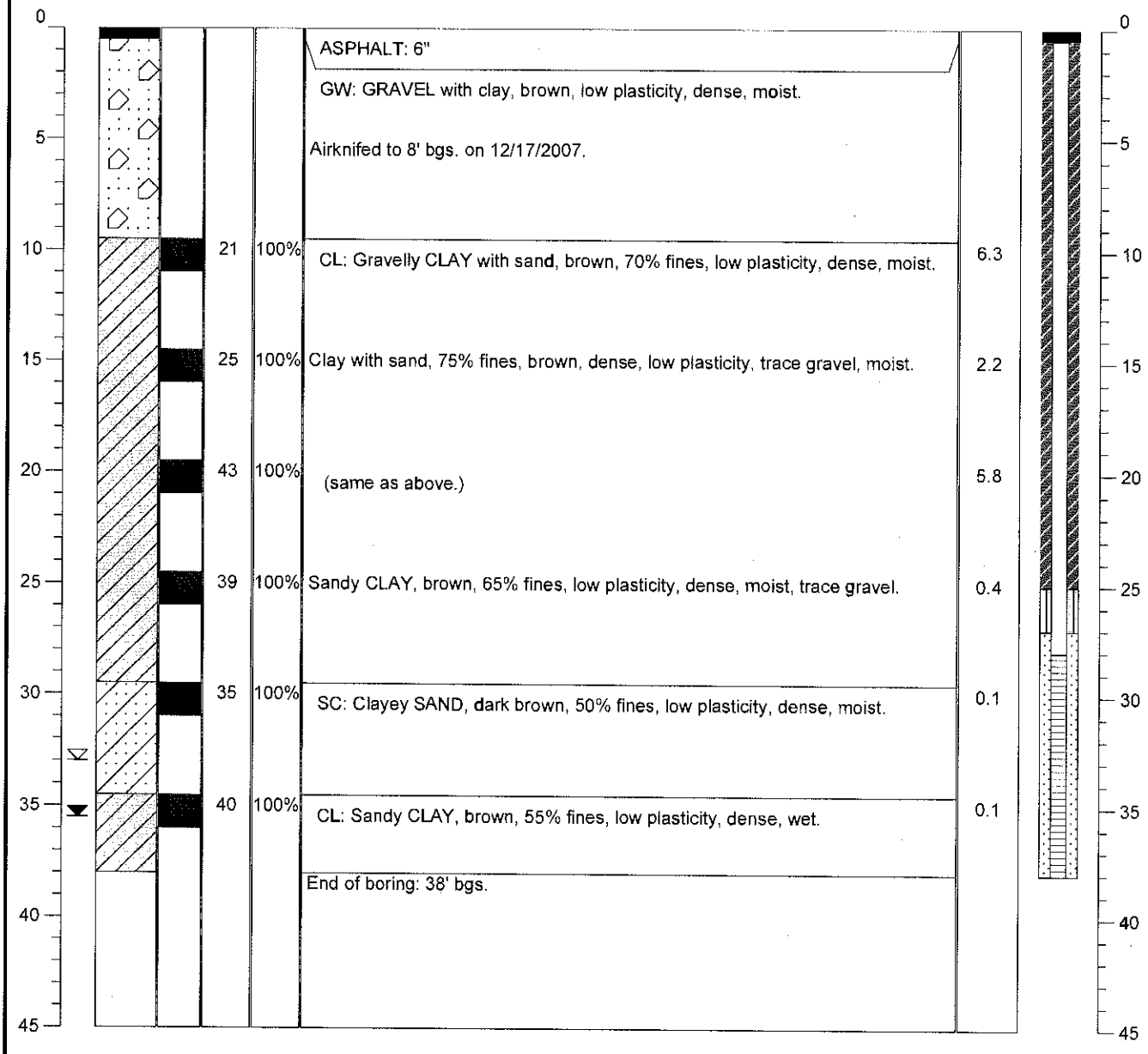
BORING LOG

DELTA Inogen

Client: **Shell Oil Products**
Project Number: **SJ899SA**

Well No. MW-12

Address: **899 San Ramon Road Dublin, CA.**	Drilling Date(s): **12/19/2007**	Boring diameter (in.): **10"**	Casing Material: **SCH 40 PVC**
Logged By: **M. Lambert**	Drilling Company: **Test America**	Sampling Method: **Split Spoon**	Screen Interval: **28'-38'**
	Drilling Method: **HSA**	Well Depth (ft.): **38'**	Screen slot size: **0.010"**
	Boring Depth (ft): **38**	Casing Diameter (in.): **4"**	Sand Pack: **#2/12**



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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-13
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	02-Mar-11
PROJECT NUMBER	240724	**WELL DEVELOPMENT DATE (YIELD)**	13-May-11 (33.0 gallons)
DRILLER	Cascade Drilling, L.P.	**GROUND SURFACE ELEVATION**	416.31 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	415.77 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVALS**	30 to 45 fbg
LOGGED BY	W. Martinez	**DEPTH TO WATER (First Encountered)**	40.00 fbg ▽
REVIEWED BY	P. Schaefer PG#5612	**DEPTH TO WATER (Static)**	24.60 fbg (13-May-11) ▼
REMARKS	Airknifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							See boring log MW-13C for lithology.		Portland Type I/II

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-13
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	02-Mar-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				25					2" diam., Schedule 40 PVC; Bentonite Seal; Monterey Sand #2/12; 2"-diam., 0.010" slotted Schedule 40 PVC
				30					
				35					
				40					

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-13
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	02-Mar-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				45				45.0	Bottom of Boring @ 45 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\2407--1240724--1244DE5--1240724.GPJ DEFAULT.GDT 5/25/11

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-13B
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	03-Mar-11
PROJECT NUMBER	240724	**WELL DEVELOPMENT DATE (YIELD)**	13-May-11 (72.0 gallons)
DRILLER	Cascade Drilling, L.P.	**GROUND SURFACE ELEVATION**	416.10 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	415.39 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVALS**	58 to 68 fbg
LOGGED BY	W. Martinez	**DEPTH TO WATER (First Encountered)**	40.00 fbg ▽
REVIEWED BY	P. Schaefer PG#5612	**DEPTH TO WATER (Static)**	23.40 fbg (13-May-11) ▼
REMARKS	Airknifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				5			See boring log MW-13C for lithology.		
				10					
				15					
				20					

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-13B
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	03-Mar-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				25					Portland Type I/II
				30					
				35					
				40					

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-13B
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	03-Mar-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				45					2" diam., Schedule 40 PVC
				50					Bentonite Seal
				55					Monterey Sand #2/12
				60					2" diam., 0.020 slotted Schedule 40 PVC
				65					

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-13B
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	03-Mar-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
								68.0	Bottom of Boring @ 68 fbg

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-13C
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	02-Mar-11
PROJECT NUMBER	240724	**WELL DEVELOPMENT DATE (YIELD)**	13-May-11 (101.0 gallons)
DRILLER	Cascade Drilling, L.P.	**GROUND SURFACE ELEVATION**	415.73 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	415.73 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVALS**	85 to 95 fbg
LOGGED BY	W. Martinez	**DEPTH TO WATER (First Encountered)**	40.00 fbg ▽
REVIEWED BY	P. Schaefer PG#5612	**DEPTH TO WATER (Static)**	26.55 fbg (13-May-11) ▼
REMARKS	Airknifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							ASPHALT	0.3	
					CL		**Gravelly CLAY (CL):** dark reddish gray (10R 4/1), moist, 40% clay, 30% silt, 30% gravel, low plasticity, fill.		
					CH		**CLAY (CH):** very dark gray (5YR 3/1), moist, 80% clay, 15% silt, 5% fine gravel, high plasticity, fill.	3.0	
					ML		**SILT with sand (ML):** very dark gray (5YR 3/1), moist, 30% clay, 55% silt, 10% fine sand, 5% fine gravel, medium plasticity, fill.	4.0	
				5			**CLAY with sand (CL):** dark reddish brown (5YR 2.5/2), moist, 50% clay, 30% silt, 20% fine sand, medium plasticity, fill.	5.0	
0.0	4/5/5	MW-13 C -5.5			CL				
								8.3	
0.3	7/12/8	MW-13 C -10.5		10	ML		**Sandy SILT (ML):** brown (2.5YR 5/2), moist, 10% clay, 60% silt, 20% fine sand, 10% fine gravel, low plasticity.		
0.2	10/10/10	MW-13 C -15.5		15					
				20				20.0	

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-13C
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	02-Mar-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.2	17/32/36	MW-13 C -20.5			ML		@ 20 fbg; **SILT (ML):** pale yellow (2.5YR 7/4), dry, 90% silt, 10% fine sand.	23.3	
0.4	7/10/13	MW-13 C -25.5		25	CL		**CLAY (CL):** brown (7.5 YR 5/2), moist, 60% clay, 35% silt, 5% fine gravel, medium plasticity. ▼	28.3	
0.5	5/5/8	MW-13 C -30.5		30	CH		**CLAY (CH):** very dark grayish brown (2.5Y 3/2), moist, 70% clay, 25% silt, 5% fine gravel, high plasticity.	33.3	
0.2	7/7/10	MW-13 C -35.5		35	CL		**CLAY (CL):** very dark grayish brown (2.5Y 3/2), moist, 50% clay, 40% silt, 10% fine sand, medium plasticity.	38.3	Portland Type I/II
0.2	5/8/8	MW-13 C -40.5		40	ML		**SILT with sand (ML):** very dark grayish brown (2.5Y 3/2), wet, 10% clay, 65% silt, 25% fine sand, low plasticity. ▽		

WELL LOG (PID) I:\SHELL\6-CHARS\2407--1240724-11244DE5--11240724.GPJ DEFAULT.GDT 5/25/11

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-13C
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	02-Mar-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
								43.3	
0.1	7/9/13	MW-13 C -45.5		45	CL		**CLAY with sand (CL):** very dark grayish brown (2.5Y 3/2), wet, 60% clay, 20% silt, 15% fine sand, 5% fine gravel, medium plasticity.		
								48.3	
0.3	5/10/10	MW-13 C -50.5		50	ML		**SILT (ML):** very dark grayish brown (2.5Y 3/2), moist, 40% clay, 60% silt, medium plasticity.		
0.1	7/9/13	MW-13 C -55.5		55			@55 fbg; 20% clay, 70% silt, 10% sand, low plasticity.		
								58.3	
0.8	10/10/15	MW-13 C -60.5		60	CL		**CLAY with sand (CL):** dark grayish brown (2.5Y 4/2), moist, 60% clay, 20% silt, 15% fine sand, 5% fine gravel, low plasticity.		
								63.3	
0.6	10/10/12	MW-13 C		65			**SILT (ML):** light olive brown (2.5Y 5/3), moist, 40% clay, 60% silt, low plasticity.		

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-13C
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	02-Mar-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
		-80.5			ML				
0.8	10/10/10	MW-13 C -70.5		70			@ 70 fbg; **Sandy SILT (ML):** 10% clay, 60% silt, 30% fine sand.	73.3	
0.9	10/14/18	MW-13 C -75.5		75	CL		**CLAY (CL):** reddish gray (5YR 5/2), moist, 60% clay, 40% silt, medium plasticity.	78.3	2" diam., Schedule 40 PVC
0.1	10/11/10	MW-13 C -80.5		80	ML		**Sandy SILT (ML):** reddish gray (5YR 5/2), moist, 10% clay, 60% silt, 30% fine sand, low plasticity.	83.3	Bentonite Seal
0.5	7/19/24	MW-13 C -85.5		85	CL		**CLAY with sand (CL):** reddish gray (5YR 5/2), moist, 50% clay, 30% silt, 20% fine sand, medium plasticity.	86.0	Monterey Sand #2/12
					SM		**Silty SAND (SM):** reddish gray (5YR 5/2), moist, 20% silt, 80% fine to medium sand.	88.3	
							SAND (SP): brown (7.5YR 5/2), wet, 95% fine to coarse		

WELL LOG (PID) I:\SHELL\6-CHARS\2407--\240724--1\244DE5--1240724.GPJ DEFAULT.GDT 5/25/11

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-13C
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	02-Mar-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				90	SP		sand, 5% fine gravel.		2"-diam., 0.010" Slotted Schedule 40 PVC
0.1	7/9/12	MW-13 C -90.5			ML		**SILT with sand (ML):** brown, (7.5YR 4/3), moist, 25% clay, 50% silt, 20% fine sand, 5% fine gravel, medium plasicity.	91.0	
								93.3	
				95	CH		**CLAY (CH):** brown (7.5YR 4/3), moist, 95% clay, 5% coarse sand, high plasticity.		
0.0	12/17/30	MW-13 C -95.5						98.3	Bentonite Seal
				100	ML		**Sandy SILT (ML):** brown (7.5YR 4/3), moist, 60% silt, 40% fine sand, low plasticity.		
0.0	9/12/15	MW-13 C -100.5						101.5	Bottom of Boring @ 101.5 fbg

WELL LOG (PID) I:\SHELL\6-CHARS\2407--240724-11244DE5-1\240724.GPJ DEFAULT.GDT 5/25/11

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-14B
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	17-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	01-Mar-11
PROJECT NUMBER	240724	**WELL DEVELOPMENT DATE (YIELD)**	13-May-11 (76.0 gallons)
DRILLER	Cascade Drilling, L.P.	**GROUND SURFACE ELEVATION**	413.33 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	413.33 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVALS**	58 to 68 fbg
LOGGED BY	W. Martinez	**DEPTH TO WATER (First Encountered)**	40.00 fbg
REVIEWED BY	P. Schaefer PG#5612	**DEPTH TO WATER (Static)**	20.37 fbg (11-May-11)
REMARKS	Airknifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				5			See boring log MW-14C for lithology.		
				10					
				15					
				20					

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-14B
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	17-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	01-Mar-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				25					Portland Type I/II
				30					
				35					
				40					

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-14B
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	17-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	01-Mar-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				45					2" diam., Schedule 40 PVC
				50					Bentonite Seal
				55					Monterey Sand #2/12
				60					2"-diam., 0.020" Slotted Schedule 40 PVC
				65					

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-14B
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	17-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	01-Mar-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
								68.0	Bottom of Boring @ 68 fbg

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-14C
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	02-Mar-11
PROJECT NUMBER	240724	**WELL DEVELOPMENT DATE (YIELD)**	13-May-11 (11.1 gallons)
DRILLER	Cascade Drilling, L.P.	**GROUND SURFACE ELEVATION**	413.85 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	413.48 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVALS**	90 to 100 fbg
LOGGED BY	W. Martinez	**DEPTH TO WATER (First Encountered)**	40.00 fbg ▽
REVIEWED BY	P. Schaefer PG#5612	**DEPTH TO WATER (Static)**	NA ▼
REMARKS	Airknifed to 5 fbg		

PID (ppm)	BLOW COUNTS	SAMPLE ID	DEPTH (fbg)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)
					ASPHALT	0.4
				ML	**SILT (ML):** brown (5YR 4/3), moist, 40% clay, 50% silt, 10% fine gravel, medium plasticity, fill.	2.0
				CH	**CLAY (CH):** very dark gray (5YR 3/1), moist, 90% clay, 10% silt, high plasticity, fill.	3.3
0.9	4/4/5	MW-14 C-5.5	5		**CLAY with sand (CL):** dark gray (5YR 4/1), moist, 60% clay, 15% silt, 25% fine sand, medium plasticity, fill.	
0.7	4/7/8	MW-14 C-10.5	10	CL		
0.1	4/8/9	MW-14 C-15.5	15		@ 15 fbg; **Sandy CLAY (CL):** very dark gray (5YR 3/1), 65% clay, 35% fine sand.	
			20			18.3

WELL DIAGRAM

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-14C
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	02-Mar-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0.3	5/5/5	MW-14 C-20.5			ML		**SILT with sand (ML):** dark yellowish brown (10YR 4/4), moist, 25% clay, 60% silt, 15% fine sand, medium plasticity.	23.3	
0.2	4/9/10	MW-14 C-25.5		25	CL		**CLAY with sand (CL):** brown (10YR 4/3), moist, 70% clay, 10% silt, 20% fine sand, medium plasticity.	28.3	
0.0	8/10/10	MW-14 C-30.5		30	SP-SM		**SAND with silt (SP-SM):** dark yellowish brown (10YR 4/4), moist, 10% silt, 90% coarse sandl.	33.3	
0.0	7/9/12	MW-14 C-35.5		35	CL		**Sandy CLAY (CL):** dark yellowish brown (10YR 4/4), moist, 50% clay, 20% silt, 30% fine sand, medium plasticity.	38.3	Portland Type I/II
0.0	9/7/10	MW-14 C-40.5		40	SP		**SAND (SP):** dark yellowish brown (10YR 4/4), moist, 5% silt, 90% coarse sand, 5% gravel. ▽	41.0	
							CLAY with sand (CL): dark yellowish brown (10YR 4/4), moist, 80% clay, 5% silt, 15% fine sand, medium plasticity.		

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-14C
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	02-Mar-11

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PID (ppm)	BLOW COUNTS	SAMPLE ID	DEPTH (fbg)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)
0.6	9/5/6	MW-14 C-45.5	45	CL	@ 45 fbg; wet, 85% clay, 10% sand, 5% gravel, high plasticity.	48.3
4.3	9/5/6	MW-14 C-50.5	50	ML	**SILT with sand (ML):** dark yellowish brown, moist, 10% clay, 70% silt, 20% fine sand, medium plasticity.	53.3
0.0	11/7/8	MW-14 C-55.5	55	CL	**CLAY with sand (CL):** dark grayish brown (2.5Y 4/2), moist, 60% clay, 20% silt, 20% fine sand, medium plasticity.	
0.0	9/12/15	MW-14 C-60.5	60		@ 60 fbg; **Sandy CLAY with gravel (CL):** dark yellowish brown (10YR 4/4), wet, 65% clay, 20% fine sand, 15% fine gravel, low plasticity.	63.3
				SP-SM	**SAND with silt and gravel (SP-SM):** yellowish brown (10YR 5/3), wet, 10% silt, 70% fine sand, 20% fine gravel.	65.5
0.0	10/10/10	MW-14	65		**Sandy CLAY with gravel (CL):** yellowish brown (10YR	

WELL DIAGRAM

WELL LOG (PID) I:\SHELL\6-CHARS\2407-\240724-1\244DE5-1\240724.GPJ DEFAULT.GDT 5/25/11

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-14C
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	02-Mar-11

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
		C-60.5			CL		5/6), moist, 50% clay, 30% sand, 20% gravel, low plasticity.	68.3	
0.1	4/4/4	MW-14 C-70.5		70	SP-SM		**SAND with silt and gravel (SP-SM):** yellowish brown (10YR 5/6), wet, 10% silt, 70% fine sand, 20%fine gravel.	71.0	
0.0	4/5/5	MW-14 C-75.5		75	CL		**Sandy CLAY with gravel (CL):** yellowish brown (10YR 5/6), moist, 50% clay, 30% sand, 20% gravel, low plasticity.	78.3	
0.0	5/8/10	MW-14 C-80.5		80	CH		**CLAY (CH):**yellowish brown (10YR 5/6), moist, 90% clay, 5% fine sand, 5% fine gravel, high plasticity.		2" diam., Schedule 40 PVC
0.0	6/15/20	MW-14 C-85.5		85					Bentonite Seal
									Monterey Sand #2/12

WELL LOG (PID) I:\SHELL\6-CHARS\2407--\240724--1\244DE5--1240724.GPJ DEFAULT.GDT 5/25/11

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BORING / WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-14C
JOB/SITE NAME	Shell - branded Service Station	**DRILLING STARTED**	18-Feb-11
LOCATION	8999 San Ramon Road, Dublin, CA	**DRILLING COMPLETED**	02-Mar-11

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PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
				90				90.5	
0.0	9/9/16	MW-14 C-90.5					**Sandy CLAY (CL):** dark yellowish brown (10YR 3/6), moist, 50% clay, 20% silt, 20% fine sand, 10% fine gravel, medium plasicity.		
				95					2"-diam., 0.010" Slotted Schedule 40 PVC
0.0	9/12/18	MW-14 C-95.5			CL		@ 95 fbg; yellowish brown (10YR 5/6), 60% clay, 40% sand, low plasticity.		
				100					
0.0	7/9/14	MW-14 C-100.5					@ 100 fbg; **CLAY (CL):** yellowish brown (10YR 5/6), 90% clay, 5% silt, 5% fine gravel, medium plasticity. @ 100.5 fbg; **Gravelly CLAY (CL):** wet, low plasticity. @ 101 fbg; **Sandy CLAY (CL)**.	101.5	Bentonite Seat Bottom of Boring @ 101.5 fbg

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Boring No: GP-1
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 1 of 2
Driller:	Gregg	Date Drilled:	5/2/2005	
Drilling Method:	Direct Push	Hole Diameter:	3"	
Sampling Method:	GeoProbe	Hole Depth:	28 ft	
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
Grout				air knifed & hand augered	0			AF	Asphalt 6", Base rock 4"
					1			SM	**Silty SAND**: light brown; 20-30% silt; fine to coarse grained sand, well graded
					2				
					3				
					4				
		dry			5			CL	**Lean CLAY with Sand**: very dark brown; light brown fine grained sand pockets 0.5 cm in diameter; ~85% fines; ~15% sand; moderate plasticity;soft
					6				
					7				
					8				
					9			GW	**Well Graded GRAVEL with Sand**: light tan; 70-80% gravel 0.5 to 1" in length; rounded; 20-30% coarse grained sand
		dry	12.2		10			CL	**Lean CLAY**: very dark gray; no mottling; 90-95% fines; traces of fine grained sand (~5%); moderate plasticity; stiff
					11				
					12				
					13				
					14				(same as above, dark brown)
		dry	21.8		15				(same as above, medium brown mottling)
					16				
					17				(same as above, no mottling)
					18				
					19				
		dry	9		20				(same as above, product staining)
					21				
					22				

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Boring No: GP-2
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 2 of 2
Driller:	Gregg	Date Drilled:	5/1/2005	
Drilling Method:	Direct Push	Hole Diameter:	3"	
Sampling Method:	GeoProbe	Hole Depth:	28 ft	
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
Grout		moist	29.1		23			CL	**Lean CLAY with Sand** (Continued)
								GW	**Well Graded GRAVEL with Sand**: light tan; 70-80% gravel, 0.5 to 1" in length; rounded; 20-30% coarse grained sand
					24				
					25			CL	**Lean CLAY with Sand**: same as above
					26				
					27				
					28				Boring terminated at 28 feet below ground surface
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Boring No: GP-3
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 2 of 2
Driller:	Gregg	Date Drilled:	5/1/2005	
Drilling Method:	Direct Push	Hole Diameter:	3"	
Sampling Method:	GeoProbe	Hole Depth:	28 ft	
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
Grout					23			SM	**Silty SAND** (continued)
					24			CL	**Lean CLAY**: medium brown to very dark brown; ~85-90% fines; ~10% sand; trace gravels up to 1" in length;
		moist	29.1		25				moderate plasticity; stiff
					26			CL	**Lean CLAY with sand**: very dark brown; 10-20% very fine grained sand; moderate to high plasticity; stiff
					27				
					28				Boring terminated at 28 feet below ground surface
					29				Borehole dry upon completion. Water level after approximately twelve hours.
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Boring No: GP-5
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 2 of 2
Driller:	Gregg	Date Drilled:	5/3/2005	
Drilling Method:	Direct Push	Hole Diameter:	3"	
Sampling Method:	GeoProbe	Hole Depth:	28 ft	
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
Grout		damp			23			CL	**Lean CLAY with Sand** (Continued)
					24				
			153		25				
					26				
		dry			27			CL	**Lean CLAY**: dark gray; moderate to high plasticity; medium stiff
					28				Boring terminated at 28 feet below ground surface
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Boring No: GP-6
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 2 of 2
Driller:	Gregg	Date Drilled:	5/1/2005	
Drilling Method:	Direct Push	Hole Diameter:	8"	
Sampling Method:	GeoProbe	Hole Depth:	28 ft	
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
Grout		damp			23			CL	**Lean CLAY with Sand** (Continued)
					24				
					25			GM	**GRAVEL with Silt**: same as above, product staining
			133						
					26			CL	**Lean CLAY**: medium brown; moderate plasticity; stiff
		dry			27				
					28				Boring terminated at 28 feet below ground surface
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Boring No: GP-7
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 2 of 2
Driller:	Gregg	Date Drilled:	5/2/2005	
Drilling Method:	Direct Push	Hole Diameter:	8"	
Sampling Method:	GeoProbe	Hole Depth:	28 ft	
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
Grout								ML	**SILT with sand** (Continued)
		dry			23			CL	**Lean CLAY**: same as above
			102		24				
					25				
					26				
					27				
					28				Boring terminated at 28 feet below ground surface
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Boring No: GP-8
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 1 of 2
Driller:	Gregg	Date Drilled:	5/2/2005	
Drilling Method:	Direct Push	Hole Diameter:	3"	
Sampling Method:	GeoProbe	Hole Depth:	28 ft	
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
Grout / Casing		wet		air knifed & hand augered	0			AF	Asphalt 6", Base rock 4"
					1			SM	**Silty SAND**: light brown; 20-30% silt; fine to coarse grained sand, well graded; product staining
					2				
					3				
		damp			4				
					5				
			13		6			CL	**Lean CLAY with Sand**: medium brown with orange mottling; 85-90% fines; 10-15% fine grained sands in tan sand pockets 0.5 cm in diameter; 1-2% gravels up to 0.5" in diameter; moderate plasticity; soft
					7				
					8				
					9				
			20.3		10				
		wet			11				
					12			CL	**Sandy Lean CLAY**: medium brown; 65-75% fines; 25-35% very fine grained sand, poorly graded; moderate to high plasticity; soft
		damp			13				
					14			CL	**Lean CLAY with Sand**: medium brown with orange mottling; 10-20% fine grained sand in tan sand pockets 0.5 cm in diameter; moderate to high plasticity; soft; bottom 3" to 5" poorly graded fine grained sand; tan; trace gravels 0.5" in diameter; loose
			3.5		15				
					16				
					17				
		damp			18				
					19				
			2.5		20				
					21				
					22			CL	**Lean CLAY**: dark gray; 90-95% fines; trace coarse grained sand; moderate plasticity; stiff

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Boring No: GP-9	
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 2 of 2	
Driller:	Gregg	Date Drilled:	5/4/2005	Location Map	
Drilling Method:	Direct Push	Hole Diameter:	3"	Please see site map	
Sampling Method:	GeoProbe	Hole Depth:	28 ft		
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
Grout			125		23			ML	**SILT with Sand** (Continued)
					24				
					25				
					26			CL	**Lean CLAY with Sand**: medium brown mottled with greenish gray; 10-15% very fine grained sand; moderate to high plasticity; very stiff
					27				
					28				Boring terminated at 28 feet below ground surface
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Boring No: GP-10
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 2 of 2
Driller:	Gregg	Date Drilled:	5/4/2005	
Drilling Method:	Direct Push	Hole Diameter:	3"	
Sampling Method:	GeoProbe	Hole Depth:	28 ft	
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
Grout					23			CL	**Lean CLAY**: continued
								SC	**Clayey SAND**: gray; 60-75% very fine to coarse grained sand; 35-40% fines; traces of gravels 2-3 mm in length
		dry			24			CL	**Lean CLAY**: light to medium brown; trace fine grained sand; soft; moderate plasticity
		wet	119		25			SC	**Clayey SAND**: same as above
					26				
		dry			27			CL	**Lean CLAY with sand**: gray; 80-90% fines; 10-20% very fine grained sand; moderate to high plasticity; stiff
					28				Boring terminated at 28 feet below ground surface
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				

Delta
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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Boring No: GP-11	
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 2 of 2	
Driller:	Gregg	Date Drilled:	5/4/2005	Location Map	
Drilling Method:	Direct Push	Hole Diameter:	3"	Please see site map	
Sampling Method:	GeoProbe	Hole Depth:	28 ft		
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
Grout					23			CL	**Lean CLAY with Sand**: continued
					24				
			53.6		25				
					26				
		wet						CL	**Sandy Lean CLAY**: gray; 70-80% fines; 20-30% medium grained sand; moderate plasticity; soft
					27				
		moist			28				Boring terminated at 28 feet below ground surface
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				

Delta
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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Boring No: GP-12	
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 1 of 2	
Driller:	Gregg	Date Drilled:	5/4/2005	Location Map	
Drilling Method:	Direct Push	Hole Diameter:	3"	Please see site map	
Sampling Method:	GeoProbe	Hole Depth:	28 ft		
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
Grout				air knifed & hand augered	1			AF	Asphalt 6", Base rock 4"
					2			CL	**Lean CLAY with Sand**: very dark brown with medium brown mottling; 90-95% fines; 10-15% fine grained sand in tan sand pockets ~0.5 cm in diameter; moderate plasticity; soft
					3				
					4				
					5				
		dry			6				(Same as above, traces of coarse grained sand)
					7				
					8				
		dry			9			SP	**Poorly Graded Sand**: tan; 90-95% fine grained sand; traces of gravels up to 0.5" in length
					10			CL	**Lean CLAY with Sand**: same as above, less orange mottling; stiff
			0.9		11				
					12				
					13			SP	**Clayey SAND**: orangish tan; 60-70% fine grained poorly graded sand; 30-40% fines; traces of coarse grained sand
					14				
					15				
			3.7		16			CL	**Sandy Lean CLAY**: medium brown mottled with orange; 70-75% fines; 25-30% fine grained sand; moderate plasticity; stiff
					17				
					18				
					19			CL	**Sandy Lean CLAY**: medium gray; 55-65% fines; 35-45% fine grained poorly graded sand; traces of gravels ~3 mm in diameter; low plasticity
	▼		0.9		20				
					21				
		wet			22				

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Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Boring No: GP-13	
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 2 of 2	
Driller:	Gregg	Date Drilled:	5/3/2005	Location Map	
Drilling Method:	Direct Push	Hole Diameter:	3"	Please see site map	
Sampling Method:	GeoProbe	Hole Depth:	28 ft		
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
Grout		wet			23			CL	**Lean CLAY with Sand**: continued
		dry			24				
					25				(same as above, very stiff)
		wet	2.6		26				
					27				
		dry			28				Boring terminated at 28 feet below ground surface
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				

Delta
Environmental Consultants, Inc.

Project No:	SJ89-99S-1	Client:	Shell Oil Products US	Boring No: GP-14
Logged By:	Heather Buckingham	Location:	8999 San Ramon Rd., Dublin	Page 1 of 2
Driller:	Gregg	Date Drilled:	5/1/2005	
Drilling Method:	Direct Push	Hole Diameter:	3"	
Sampling Method:	GeoProbe	Hole Depth:	27 ft	
Casing Type:		Well Diameter:		
Slot Size:		Well Depth:		
Gravel Pack:		Casing Stickup:		
Elevation		Northing		Easting

Location Map

Please see site map

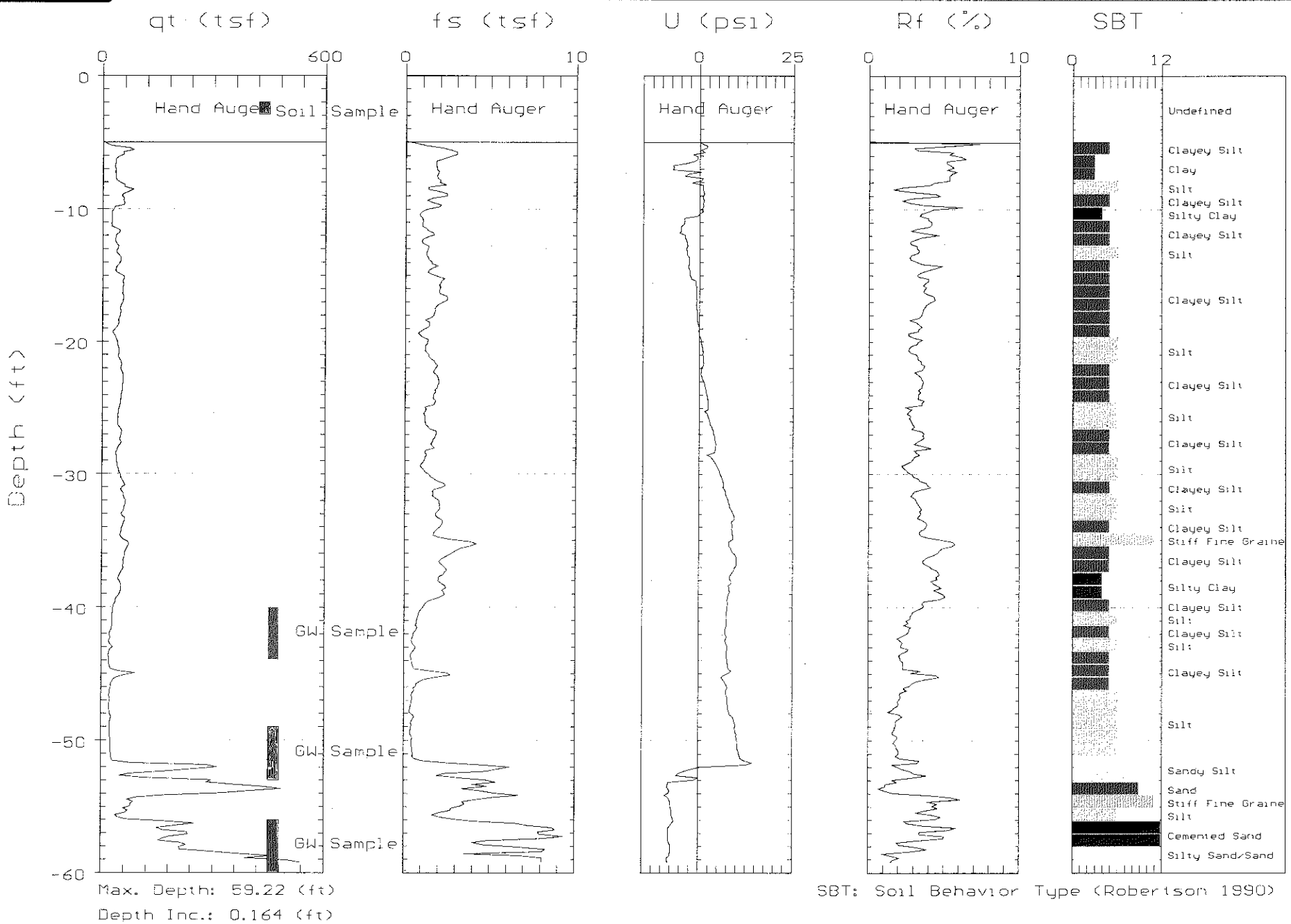
Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
Grout								AF	Asphalt 6", Base rock 4"
		dry		air knifed & hand augered	1			SM	**Silty SAND**: light brown; 20-30% silt; fine to coarse grained sand, well graded
					2				
					3				
					4				
					5				
		dry			6			CL	**Sandy Lean CLAY**: medium brown mottled with orange; 70-75% fines; 25-30% fine grained sand in tan sand pockets; moderate to high plasticity; stiff
					7				
					8				
					9				
			49.9		10				
		moist			11				
					12				
					13				
					14				
			53.5		15				(Same as above, medium brown with orange mottling)
					16				
					17				(Same as above, product staining)
					18				
		moist			19				
			22.6		20				(Same as above, trace gravels 2 mm in length)
		damp			21				
					22				(Same as above, no sand pockets, hard)

GREGG

DELTA ENVIRONMENTAL

Site: SHELL STATION 8999
Location: CPT-01

Engineer: H.BUCKINGHAM
Date: 05:26:05 09:00



Max. Depth: 59.22 (ft)
Depth Inc.: 0.164 (ft)

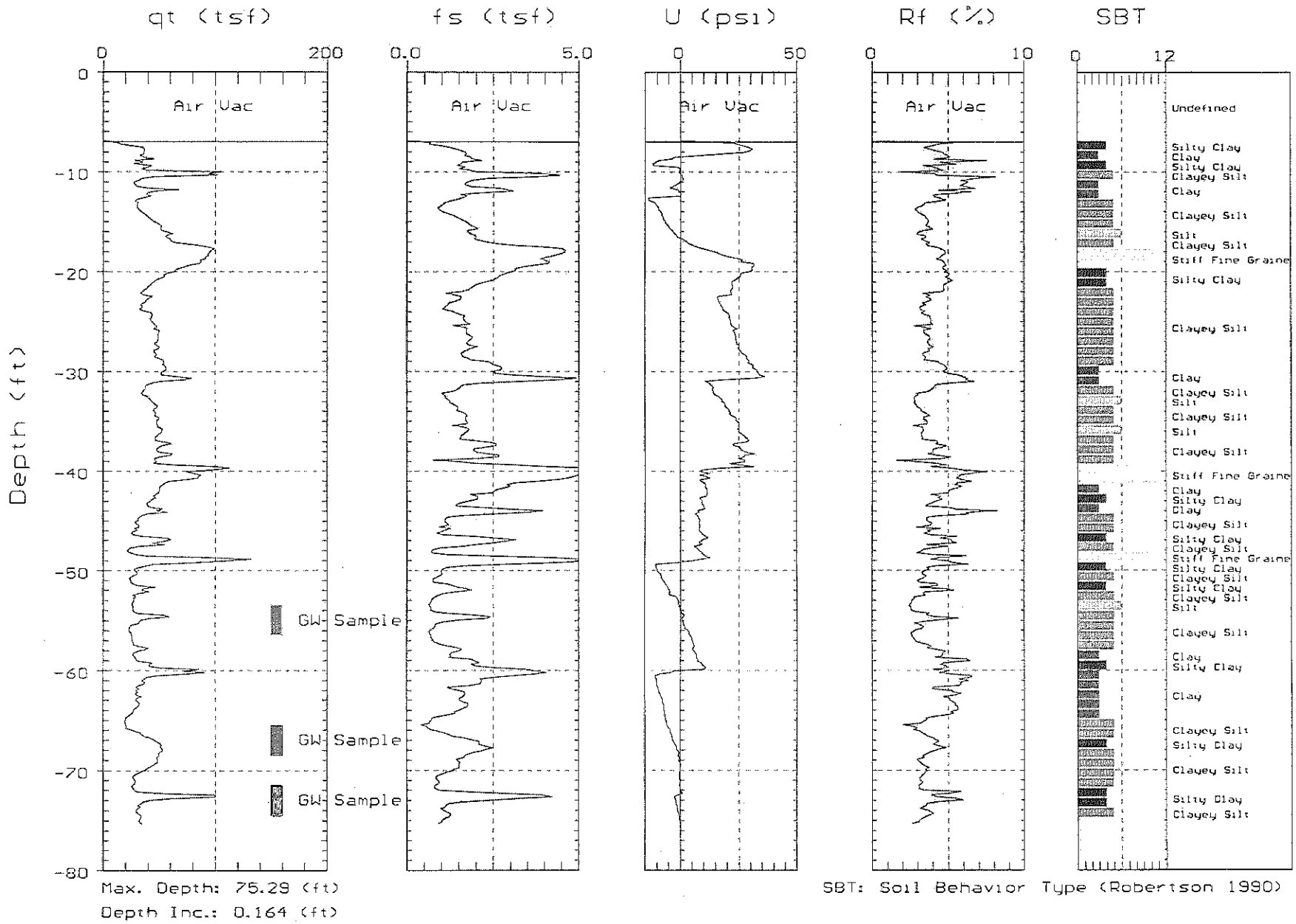
SBT: Soil Behavior Type (Robertson 1990)

GREGG

DELTA

Site: SHELL STATION 8999
Location: CPT-02

Engineer: A.PERSIO
Date: 02:22:06 03:13



Max. Depth: 75.29 (ft)
Depth Inc.: 0.164 (ft)

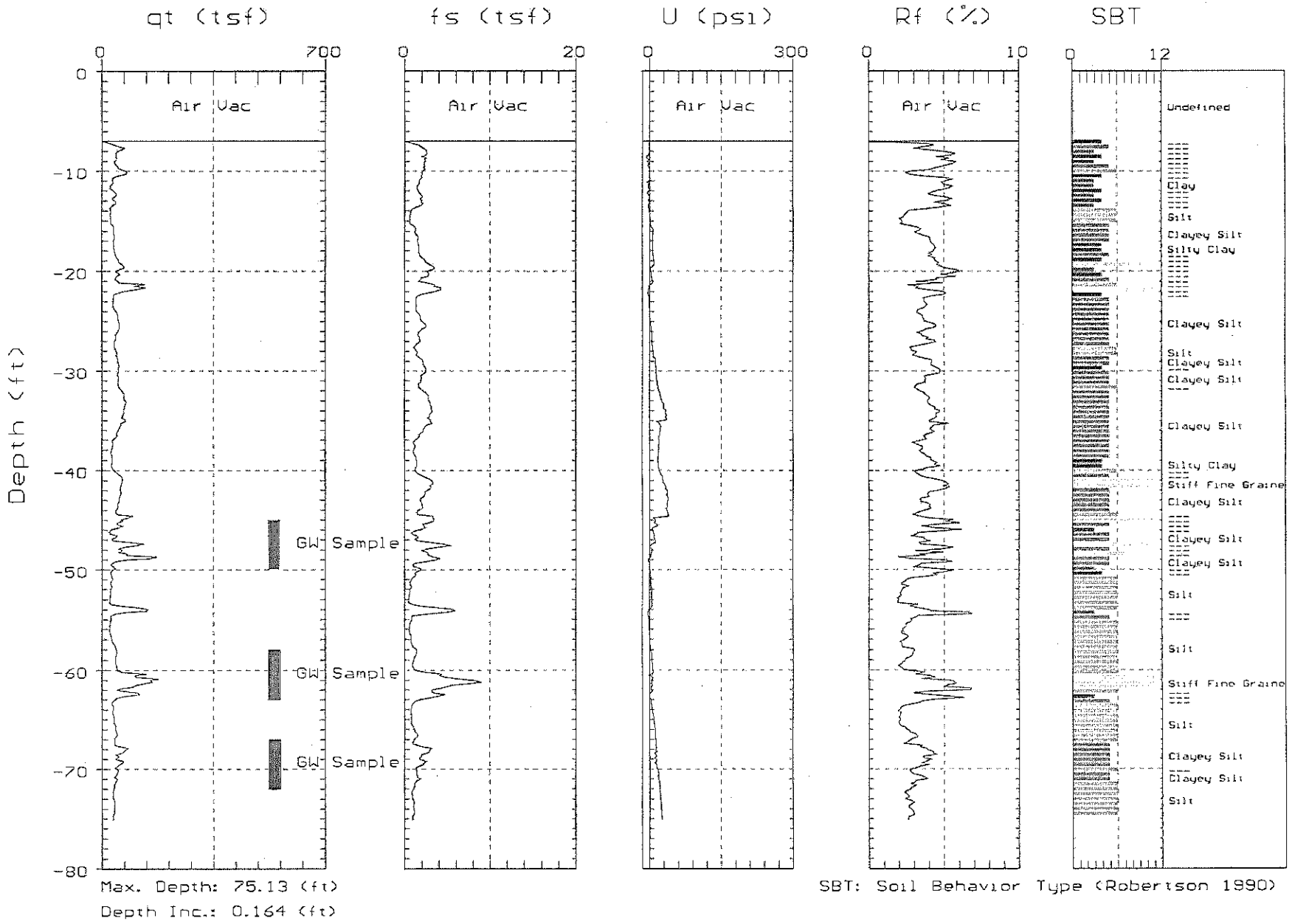
SBT: Soil Behavior Type (Robertson 1990)

GREGG

DELTA ENVIRONMENTAL

Site: Shell Sta. 8999
Location: CPT-3

Geologist: L. Dooley
Date: 07:26:06 13:27



Max. Depth: 75.13 (ft)
Depth Inc.: 0.164 (ft)

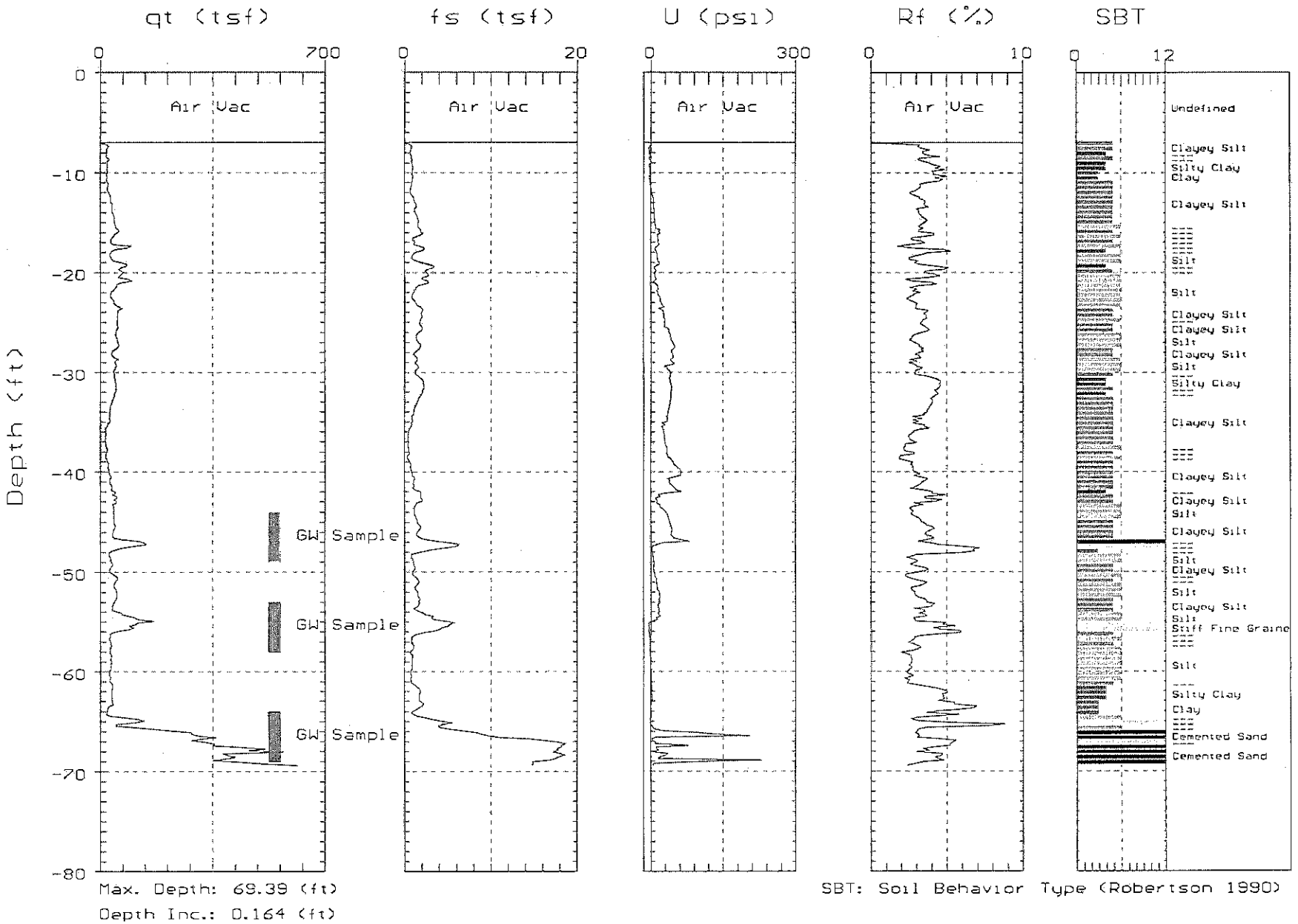
SBT: Soil Behavior Type (Robertson 1990)

GREGG

DELTA ENVIRONMENTAL

Site: Shell Station 89
Location: CPT-4

Geologist: L. Dooley
Date: 07:26:06 08:30



Max. Depth: 69.39 (ft)
Depth Inc.: 0.164 (ft)

SBT: Soil Behavior Type (Robertson 1990)