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

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| 7 questions regarding the content (510) 420-3319 or the Shell n  | ents of this docu   | ment, please call the CRA project manager   |
| <u>(010) 120 0017 01 the orien p</u> .   | iogram manager  |   |
| Perry Pineda, Shell Oil Proc<br>Colleen Winey, Zone 7 Wat  | lucts US (electro<br>er Agency (elect   | nic copy)   |
| Carl Cox, C and J Cox Corp<br>CA 94588   | oration (propert  | y owner), 4431 Stoneridge Drive, Pleasanton,  |
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Mr. Jerry Wickham Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577 Shell Oil Products US Soil and Groundwater Focus Delivery Group 20945 S. Wilmington Avenue Carson, CA 90810 Tel (425) 413 1164 Fax (425) 413 0988 Email perry.pineda@shell.com Internet http://www.shell.com

Re: 8999 San Ramon Road Dublin, California SAP Code 135244 Incident No. 97565995 Agency No. RO0002744

Dear Mr. Wickham:

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

As always, please feel free to contact me directly at (425) 413-1164 with any questions or concerns.

Sincerely, Shell Oil Products US

BPN

Perry Pineda Senior Environmental Program Manager



# **UPDATED SITE CONCEPTUAL MODEL**

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

| SAP CODE     | 135244    |
|--------------|-----------|
| INCIDENT NO. | 97565995  |
| AGENCY NO.   | RO0002744 |

# Prepared by: Conestoga-Rovers & Associates

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

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

web: http://www.CRAworld.com

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#### **EXECUTIVE SUMMARY**

- BTEX, MTBE, and TBA in soil at concentrations exceeding ESLs are adequately defined both vertically and horizontally down gradient.
- As of the most recent groundwater sampling event in January 2013, TPHd, TPHg, toluene, ethylbenzene, and total xylenes in groundwater are below drinking water ESLs. Benzene in groundwater is below ESLs, with the exception of up to 7.7 μg/L detected in wells MW-1R, MW-8, MW-11B, and MW-12.
- During the groundwater sampling event in January 2013, MTBE in groundwater (up to  $140 \mu g/L$ ) exceeded ESLs in six wells. The highest MTBE concentration was in well MW-13C.
- The nearest water-producing well is 2,500 feet down gradient south of the site. No other receptors have been identified.
- CRA recommends conducting an updated well survey and completing a groundwater model to characterize the potential for site groundwater impacts to reach the down-gradient well prior to proposing additional investigation.

i.

## 1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this site conceptual model (SCM) on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell). Alameda County Environmental Health's (ACEH's) June 17, 2013 letter requested an SCM and work plan for additional groundwater investigation. CRA presents the SCM in Section 2.0, and as discussed below, we do not recommend a groundwater investigation at this time. ACEH's August 14, 2013 electronic correspondence extended the due date for an SCM to September 27, 2013.

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

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

| ITEM  | EVALUATION<br>CRITERIA                                    | COMMENTS/DISCUSSION  |
|-------|---|--|
| 2.1   | Hydrocarbon Source  |  |
| 2.1.1 | Identify/Describe Release<br>Source and Volume (if known) | Unknown. During the 2004 dispenser and piping<br>replacement, separate-phase hydrocarbons (SPHs)<br>were observed beneath geo-textile fabric near sample<br>location P-6-5.0, at the northeastern-most corner of<br>the original fuel piping layout. |
| 2.1.2 | Discuss Steps Taken to Stop<br>Release                    | In 2004, dispensers and product lines were replaced,<br>and over excavation was performed in the vicinity of<br>the dispensers and piping.   |
| 2.2   | Site<br>Characterization                                  |  |
| 2.2.1 | Current Site Use/Status                                   | The site is currently an active Shell-branded service station.   |
| 2.2.2 | Soil Definition Status                                    | No total petroleum hydrocarbons as diesel (TPHd),<br>total petroleum hydrocarbons as gasoline (TPHg) or<br>benzene, toluene, ethylbenzene, and total xylenes<br>(BTEX) were detected in soil above San Francisco Bay                                 |

# 2.0 <u>UPDATED SCM</u>

| ITEM | EVALUATION<br>CRITERIA | COMMENTS/DISCUSSION  |
|------|------------------------|--|
|      |                        | Regional Water Quality Control Board (RWQCB)<br>environmental screening levels (ESLs) <sup>1</sup> , with the<br>following exceptions:   |
|      |                        | • Six soil samples collected during the 2004 dispenser and product line replacement contained up to 16,000 milligrams per kilogram (mg/kg) TPHd, 8,500 mg/kg TPHg, 130 mg/kg toluene, 57 mg/kg ethylbenzene, and 440 mg/kg total xylenes;  |
|      |                        | • GP-5@4.5′ (1,000 mg/kg TPHg, 3.3 mg/kg toluene, 10 mg/kg ethylbenzene, and 76 mg/kg total xylenes at 4.5 feet below grade [fbg]); and  |
|      |                        | • MW-13C-5.5 (3,600 mg/kg TPHd at 5.5 fbg).  |
|      |                        | It should be noted that the ESL document states that "TPH ESLs must be used in conjunction with ESLs for related chemicals", in this case BTEX, methyl tertiary-butyl ether (MTBE), and tertiary-butyl alcohol (TBA). No benzene was detected above ESLs, and toluene, ethylbenzene, and total xylenes detections are vertically and horizontally delineated by adjacent well borings and Geoprobe <sup>®</sup> borings. |
|      |                        | MTBE and/or TBA were detected above ESLs in 107 of 178 soil samples. MTBE and TBA in soils are horizontally defined below ESLs by borings GP-12 and GP-13 and well borings MW-2R, MW-3, MW-4, MW-13C, and MW-14C.  |
|      |                        | The constituent detections in soil at depths below<br>groundwater in some of these wells and borings are<br>most likely due to impacted groundwater.   |
|      |                        | Soil samples D-1-2.5, D-2-2.5, D-3-2.5, D-4-2.5, D-5-2.5, D-6-2.5, D-7-2.5, P-6-5.0, and T-1-4' are not considered since these locations were subsequently over excavated.   |

Screening for Environmental Concerns at Site With Contaminated Soil and Groundwater, California Regional Water Quality Control Board, Interim Final – November 2007 [Revised May 2008] – Updated May 2013

1

| ITEM  | EVALUATION<br>CRITERIA                            | COMMENTS/DISCUSSION   |
|-------|---|---|
|       | CATLAN  | Table 1 presents historical soil analytical data, and<br>sample locations are shown on Figure 2 and in<br>Appendix B.   |
| 2.2.3 | SPH Definition Status                             | SPHs have not been observed in wells at the site.<br>During the 2004 dispenser and piping replacement,<br>SPHs were observed beneath geo-textile fabric near<br>sample location P-6-5.0, at the northeastern-most<br>corner of the original fuel piping layout.   |
| 2.2.4 | Groundwater Definition Status<br>(TPHd/TPHg/BTEX) | As of the January 2013 groundwater sampling event, TPHd in groundwater is below drinking water ESLs, with the exception of up to 470 micrograms per liter ( $\mu$ g/L) in wells MW-2R, MW-2RB, MW-2RC, MW-5B, MW-8, MW-13B, MW-14B, and MW-14C. TPHg in groundwater is below drinking water ESLs, with the exception of up to 300 $\mu$ g/L in wells MW-2RB, MW-5C, MW-8, and MW-13C. As noted above, "TPH ESLs must be used in conjunction with ESLs for related chemicals", in this case BTEX. Toluene, ethylbenzene, and total xylenes in groundwater is below ESLs. Benzene in groundwater is below ESLs, with the exception of up to 7.7 $\mu$ g/L detected in wells MW-1R, MW-8, MW-11B, and MW-12. |
|       |   | Groundwater contour and chemical concentration<br>maps are included as Figures 3 through 5. Historical<br>groundwater analytical results are presented in<br>Table 2, and historical grab groundwater data are<br>presented in Table 3.   |
| 2.2.5 | BTEX Plume Stability and<br>Concentration Trends  | As discussed above, during the most recent groundwater sampling event in January 2013, no toluene, ethylbenzene, and total xylenes exceeded ESLs. Since groundwater monitoring began in May 2005, benzene has only been detected 12 times, with the maximum (7.7 $\mu$ g/L in well MW-8) during the January 2013 groundwater sampling event. Additional groundwater monitoring will establish whether benzene is a chemical of concern (COC) at the site.   |
| 2.2.6 | Groundwater Definition Status<br>(MTBE)           | Shallow grab groundwater samples collected from<br>borings drilled in 2005 contained up to $89,000 \ \mu g/L$<br>MTBE. MTBE was not detected in shallow wells at<br>concentrations above ESLs during the January 2013<br>groundwater monitoring event.  |

| ITEM  | EVALUATION<br>CRITERIA                           | COMMENTS/DISCUSSION  |
|-------|--|--|
|       |  | MTBE in intermediate groundwater is currently defined horizontally to the east and southeast to below applicable ESLs by wells MW-11B and MW-14B. MTBE is not defined down gradient from MW-13B, which contains $63 \mu g/L$ MTBE.   |
|       |  | The horizontal extent of MTBE in deep groundwater<br>is not currently defined down gradient from wells<br>MW-13C or MW-14C, which contain up to 140 $\mu$ g/L<br>MTBE.   |
|       |  | Groundwater contour and chemical concentration<br>maps are included as Figures 3 through 5. Historical<br>groundwater analytical results are presented in<br>Table 2, and historical grab groundwater data are<br>presented in Table 3.  |
| 2.2.7 | MTBE Plume Stability and<br>Concentration Trends | Shallow groundwater samples did not contain MTBE<br>at concentrations exceeding ESLs during the<br>January 2013 groundwater monitoring.  |
|       |  | MTBE concentration trends for intermediate and deep wells are presented in Figures 6 through 11.   |
|       |  | As discussed above, MTBE in intermediate<br>groundwater is not defined down gradient from<br>MW-13B; however, concentrations in MW-13B are<br>relatively stable and concentrations in well MW-5B,<br>located between the source and MW-13B, are steadily<br>declining and will reach ESLs by September 2030,<br>which indicates a shrinking plume. |
|       |  | Also, as stated above, the horizontal extent of MTBE<br>in deep groundwater is not currently defined down<br>gradient from wells MW-13C or MW-14C; however,<br>concentrations in wells MW-2RC, MW-13C, and<br>MW-14C appear to be stable and concentrations in<br>well MW-5C, which has the longest history of<br>monitoring data, are stable.     |
| 2.2.8 | Groundwater Flow Direction,                      | Since May 2005, depth to water in the groundwater  |
|       | Depth Trends and Gradient                        | monitoring wells has ranged from 18.31 to 43.24 fbg.   |
|       |  | The groundwater flow direction is typically easterly   |
|       |  | to southeasterly with a variable gradient at all   |

| ITEM   | EVALUATION<br>CRITERIA                | COMMENTS/DISCUSSION  |
|--------|---------------------------------------|--|
|        |                                       | groundwater depths. Groundwater contour and<br>chemical concentration maps are included as<br>Figures 3 through 5.   |
| 2.2.9  | Stratigraphy and<br>Hydrogeology      | According to the California Department of Water<br>Resources (DWR) Bulletin 118-2, shallow sediments<br>are semi-consolidated alluvial deposits of gravel,<br>sand, silt and clay (generally fine-grained in the<br>northeastern portion of the Livermore Valley where<br>the site is located). The regional groundwater flow<br>direction is southeasterly. |
|        |                                       | Soils beneath the site consist primarily of silts and clays with thin, discontinuous, interbedded layers of sands and gravel to the maximum explored depth of 111.5 fbg.   |
|        |                                       | The boring logs are included in Appendix C. Geologic cross-sections are included as Figures 12 and 13.   |
| 2.2.10 | Preferential Pathways<br>Analysis     | Depth to water is sufficiently deep (greater than 18 fbg) that underground utility corridors would not likely act as preferential pathways.  |
| 2.2.11 | Other Pertinent Issues                | None.  |
| 2.3    | <b>Remediation Status</b>             |  |
| 2.3.1  | Remedial Actions Taken                | During dispenser and piping replacement in 2004,<br>approximately 4 gallons of SPHs were removed for<br>recycling, and 225 tons of soil were over excavated<br>for off-site disposal.  |
| 2.3.2  | Area Remediated                       | SPH removal and over excavation were conducted<br>on site in the area of the dispenser islands and<br>piping.  |
| 2.3.3  | Remediation Effectiveness             | Unknown.   |
| 2.4    | Well and Sensitive Receptor<br>Survey |  |
| 2.4.1  | Groundwater Water Use                 | The site located on the northwestern edge of the<br>Dublin sub-basin of the Livermore Valley<br>Groundwater Basin. According to the RWQCB Basin<br>Plan, groundwater in the Livermore Valley<br>Groundwater Basin is used for domestic and<br>municipal/irrigation purposes.   |
| 2.4.2  | Well Survey Results                   | In 2004 and 2005, DWR and Zone 7 Water Agency<br>records were reviewed for water-producing wells<br>within one-half mile of the site. The nearest water  |

| ITEM  | EVALUATION<br>CRITERIA   | COMMENTS/DISCUSSION  |
|-------|--|--|
|       |  | supply well identified was approximately 2,500 feet south of the site.   |
| 2.4.3 | Likelihood of Impact to Wells                                  | Due to the distance to the water supply well and the magnitude of COC concentrations in groundwater monitoring wells, it is unlikely that any impacts from the site will reach the well.   |
| 2.4.4 | Likelihood of Impact to<br>Surface Water                       | The closest surface water body, Big Canyon Creek, is<br>approximately 500 feet west (cross-gradient) from<br>the site. Due to the depth to groundwater and its<br>cross-gradient location, it is not likely that<br>groundwater impacts from the site will impact Big<br>Canyon Creek.   |
| 2.5   | Risk Assessment  |  |
| 2.5.1 | Site Conceptual Exposure<br>Model (current and future<br>uses) | The subject site is currently an active Shell-branded<br>service station. The area surrounding the site is<br>mixed commercial and residential. Future use of the<br>parcel is assumed to be similar to previous use.  |
| 2.5.2 | Exposure Pathways  | Potential complete exposure pathways include<br>dermal contact of impacted soil by on-site<br>construction workers. Ingestion of impacted<br>groundwater off site as an exposure pathway is not<br>likely complete based on the conditions discussed in<br>Section 2.4.3. Because the site is an active service<br>station, there is no reasonable concern that<br>subsurface contamination poses unacceptable indoor<br>inhalation health risk. Since shallow soil impacts are<br>limited to the area of the site and off-site shallow<br>groundwater concentrations are all below RWQCB<br>groundwater screening levels for evaluation of<br>potential vapor intrusion, there is no reasonable<br>concern that subsurface contamination poses<br>unacceptable indoor inhalation health risk at<br>adjacent properties. |
| 2.5.3 | Risk Assessment Status   | No formal risk assessment has been performed for the site.   |
| 2.5.4 | Identified Human<br>Exceedances                                | Not applicable.  |
| 2.5.5 | Identified Ecological<br>Exceedances                           | Not applicable.  |

## 3.0 CONCLUSIONS AND RECOMMENDATIONS

MTBE concentrations in the deeper down-gradient wells are the primary remaining concern. The nearest water-producing well is 2,500 feet south of the site. No other receptors have been identified. CRA recommends conducting an updated well survey and completing a groundwater model to characterize the potential for site groundwater impacts to reach the water supply well prior to proposing additional investigation.

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

Peter Schaf Peter Schaefer, CEG, CHG

r K

Aubrey K. Cool, PG



FIGURES



Dublin, California



I:\Shell\6-chars\2407--\240724-Dublin 8999 San Ramon Rd\240724-FIGURES\240724 SITE PLAN.DWG (09/19/2013)



I:\Shell\6-chars\2407--\240724-Dublin 8999 San Ramon Rd\240724-REPORTS\240724-RPT11-1Q13\240724 1QM13-GW (A ZONE).DWG (09/19/2013)



I:\Shell\6-chars\2407--\240724-Dublin 8999 San Ramon Rd\240724-REPORTS\240724-RPT11-1Q13\240724 1QM13-GW (B ZONE).DWG (09/19/2013)



I:\Shell\6-chars\2407--\240724-Dublin 8999 San Ramon Rd\240724-REPORTS\240724-RPT11-1Q13\240724 1QM13-GW (C ZONE).DWG (09/19/2013)

# Predicted Time to Water Quality Objectives in Well MW-2RC

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



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

CONESTOGA-ROVERS & ASSOCIATES MW-2RC: MTBE CONCENTRATIONS AND GROUNDWATER ELEVATIONS VERSUS TMIE

# Predicted Time to Water Quality Objectives in Well MW-5B

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

| $y = b e^{ax}$  | ===>                 | $x = \ln(y/b) / a$                         |            |  |
|---|----------------------|--|------------|--|
| where: $y = \text{concentration in } \mu g/L$<br>b = concentration at time  (x) |                      | a = decay constant<br>x = time (x) in days |            |  |
| Given   | Consituent           | Methyl tertiary-<br>Butyl Ether            |            |  |
| Water Quality Objective (WQO):  | y<br>Iz              | 5.0  |            |  |
| Constant:<br>Constant:  | a                    | -2.00E-03                                  | -          |  |
| Starting date for current trend:  |                      | 2/15/2008                                  | ]          |  |
| Calculate   |                      |  | _          |  |
| Attenuation Half Life (years):  | (-ln(2)/a)/365.25    | 0.95                                       | ]          |  |
| Estimated Date to Reach WQO:  | $(x = \ln(y/b) / a)$ | Sep 2030                                   | ]          |  |
|   |                      |  |            |  |
| 100,000   |                      | ———Groundwater Elev                        | vation 398 |  |



# Predicted Time to Water Quality Objectives in Well MW-5C

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



# Predicted Time to Water Quality Objectives in Well MW-13B

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



CONESTOGA-ROVERS & ASSOCIATES

GROUNDWATER ELEVATIONS VERSUS TIME

# Predicted Time to Water Quality Objectives in Well MW-13C

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

===>

 $y = b e^{ax}$ 



 $x = \ln(y/b) / a$ 

CONESTOGA-ROVERS & ASSOCIATES

VERSUS TIME

# Predicted Time to Water Quality Objectives in Well MW-14C

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

DUBLIN, CALIFORNIA



CONESTOGA-ROVERS & ASSOCIATES CONCENTRATIONS AND GROUNDWATER ELEVATIONS VERSUS TIME



240724-2013(012)GN-EM012 SEP 19/2013



240724-2013(012)GN-EM012 SEP 19/2013

## HISTORICAL SOIL ANALYTICAL DATA SHELL-BRANDED SERVICE STATION 8999 SAN RAMON ROAD, DUBLIN, CALIFORNIA

| Sample ID | Date      | Depth<br>(fbg) | TPHd<br>(mg/kg)  | TPHg<br>(mg/kg) | B<br>(mg/kg) | T<br>(mg/kg) | E<br>(mg/kg) | X<br>(mg/kg) | MTBE<br>(mg/kg) | TBA<br>(mg/kg) | DIPE<br>(mg/kg) | ETBE<br>(mg/kg) | TAME<br>(mg/kg) | 1,2 <b>-</b> DCA<br>(mg/kg) | EDB<br>(mg/kg) | Ethanol<br>(mg/kg)    | Lead<br>(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         | ar an an              | 4.7             |
| D-2-2.5   | 7/30/2004 | 2.5            | 170 <sup>a</sup> | <u></u>         | <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          | مىلىكى<br>ئەربىيەتلەر | 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 <sup>a</sup>  | <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 <sup>c</sup> | 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 <sup>b</sup> | <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                  |                 |

## HISTORICAL SOIL ANALYTICAL DATA SHELL-BRANDED SERVICE STATION 8999 SAN RAMON ROAD, DUBLIN, CALIFORNIA

| Sample ID  | Date      | Depth<br>(fbg) | TPHd<br>(mg/kg)    | TPHg<br>(mg/kg) | B<br>(mg/kg) | T<br>(mg/kg) | E<br>(mg/kg) | X<br>(mg/kg) | MTBE<br>(mg/kg) | TBA<br>(mg/kg) | DIPE<br>(mg/kg) | ETBE<br>(mg/kg) | TAME<br>(mg/kg) | 1,2-DCA<br>(mg/kg) | EDB<br>(mg/kg) | Ethanol<br>(mg/kg) | Lead<br>(mg/kg) |
|------------|-----------|----------------|--------------------|-----------------|--------------|--------------|--------------|--------------|-----------------|----------------|-----------------|-----------------|-----------------|--------------------|----------------|--------------------|-----------------|
| 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               |                 |
| 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 <sup>c</sup> | 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 <sup>a</sup>   | <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 <sup>a</sup>   | <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 <sup>a</sup>    | 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 <sup>a</sup>   | <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 <sup>a</sup> | <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 <sup>a</sup>   | <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 <sup>b</sup>    | <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 <sup>a</sup>   | <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               |                 |

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## HISTORICAL SOIL ANALYTICAL DATA SHELL-BRANDED SERVICE STATION 8999 SAN RAMON ROAD, DUBLIN, CALIFORNIA

| Sample ID  | . Date   | Depth | TPHd                | TPHg               | B<br>(   | T                | E<br>(          | X        | MTBE             | TBA              | DIPE             | ETBE             | TAME             | 1,2-DCA         | EDB              | Ethanol         | Lead    |
|------------|----------|-------|---------------------|--------------------|----------|------------------|-----------------|----------|------------------|------------------|------------------|------------------|------------------|-----------------|------------------|-----------------|---------|
|            |          | (108) | (mg/kg)             | (mg/kg)            | (mg/kg)  | ( <i>mg</i> /kg) | ( <i>my</i> kg) | (mg/kg)  | ( <i>mg</i> /kg) | ( <i>mg</i> /kg) | ( <i>mg</i> /kg) | ( <i>mg</i> /kg) | ( <i>mgy</i> kg) | ( <i>my</i> ky) | ( <i>mg</i> /kg) | ( <i>mg/kg)</i> | (mg/kg) |
| 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 <sup>a</sup>    | <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            |         |
| TX-6-1a'   | 9/2/2004 | 1     | 30 <sup>d</sup>     | <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 <sup>c</sup>    | <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 <sup>c</sup>    | 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 <sup>a</sup> | 8,500 <sup>e</sup> | <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 <sup>c</sup>     | $440^{e}$          | < 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 <sup>c</sup>    | $8.1^{\rm e}$      | <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 <sup>a</sup>    | <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 <sup>a</sup>    | <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     | $14^{\mathrm{b}}$   | <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 <sup>a</sup>    | <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               |                  |                  |                  |                 |                  |                 |         |

## HISTORICAL SOIL ANALYTICAL DATA SHELL-BRANDED SERVICE STATION 8999 SAN RAMON ROAD, DUBLIN, CALIFORNIA

| Sample ID | Date      | Depth<br>(fbg) | TPHd<br>(mg/kg) | TPHg<br>(mg/kg) | B<br>(mg/kg) | T<br>(mg/kg) | E<br>(mg/kg) | X<br>(mg/kg) | MTBE<br>(mg/kg) | TBA<br>(mg/kg) | DIPE<br>(mg/kg) | ETBE<br>(mg/kg) | TAME<br>(mg/kg) | 1,2-DCA<br>(mg/kg) | EDB<br>(mg/kg) | Ethanol<br>(mg/kg) | Lead<br>(mg/kg) |
|-----------|-----------|----------------|-----------------|-----------------|--------------|--------------|--------------|--------------|-----------------|----------------|-----------------|-----------------|-----------------|--------------------|----------------|--------------------|-----------------|
| 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              |                 |                 |                 |                    |                |                    |                 |
| 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          |                 |                 |                 |                    |                |                    |                 |
| 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         | 0.01            | < 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            | 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           |                 |                 |                 |                    |                |                    |                 |

### HISTORICAL SOIL ANALYTICAL DATA SHELL-BRANDED SERVICE STATION 8999 SAN RAMON ROAD, DUBLIN, CALIFORNIA

| Sample ID | Date      | Depth<br>(fbg) | TPHd<br>(mg/kg) | TPHg<br>(mg/kg) | B<br>(mg/kg) | T<br>(mg/kg) | E<br>(mg/kg) | X<br>(mg/kg) | MTBE<br>(mg/kg) | TBA<br>(mg/kg) | DIPE<br>(mg/kg) | ETBE<br>(mg/kg) | TAME<br>(mg/kg) | 1,2-DCA<br>(mg/kg) | EDB<br>(mg/kg) | Ethanol<br>(mg/kg) | Lead<br>(mg/kg) |
|-----------|-----------|----------------|-----------------|-----------------|--------------|--------------|--------------|--------------|-----------------|----------------|-----------------|-----------------|-----------------|--------------------|----------------|--------------------|-----------------|
| GP-7@20'  | 5/2/2005  | 20             | 2.1             | <50             | <0.5         | <0.5         | <0.5         | <0.5         | 3               | <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            |                 |                 |                 |                    |                |                    | <sub>1</sub>    |
| 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           |                 |                 |                 | an an an           |                |                    |                 |
| 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          |                 |                 |                 |                    |                |                    |                 |
| 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              |                 |                 |                 |                    |                |                    |                 |

## HISTORICAL SOIL ANALYTICAL DATA SHELL-BRANDED SERVICE STATION 8999 SAN RAMON ROAD, DUBLIN, CALIFORNIA

| Sample ID  | Date   | Depth | TPHd    | TPHg    | B       | T       | E               | X       | MTBE    | TBA<br>(malka) | DIPE<br>(malka) | ETBE<br>(malka)  | TAME<br>(malka) | 1,2-DCA | EDB     | Ethanol         | Lead<br>(ma/ka) |
|------------|--|-------|---------|---------|---------|---------|-----------------|---------|---------|----------------|-----------------|------------------|-----------------|---------|---------|-----------------|-----------------|
|            |  | (108) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | ( <i>my</i> kg) | (mg/kg) | (mg/kg) | (myrky)        | (mg/kg)         | ( <i>mg</i> /kg) | (mg/kg)         | (mg/kg) | (mg/kg) | ( <i>my</i> ky) | ( <i>my</i> ky) |
| 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         |                 |                  |                 |         |         |                 |                 |
| 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          |                 |                  |                 |         | <u></u> |                 |                 |
| GP-13@25'  | 5/3/2005   | 25    | <1.0    | <1.0    | < 0.005 | < 0.005 | <0.005          | < 0.005 | 0.021   | 0.016          |                 |                  |                 |         |         |                 |                 |
| CP-14@5'   | 4/29/2005  | 5     | 21      | <5.0    | <0.025  | <0.025  | <0.025          | <0 025  | 0.6     | 0.47           |                 |                  |                 |         |         |                 |                 |
| GP-14@11'  | $\frac{1}{2}$ $\frac{1}$ | 11    | 1.1     | <4.0    | <0.02   | <0.02   | <0.02           | <0.02   | 0.72    | 0.39           |                 |                  |                 |         |         |                 |                 |
| GP-14@15'  | 5/2/2005   | 15    | 1.0     | <1.0    | <0.005  | <0.005  | <0.005          | <0.005  | 0.0068  | 0.3            |                 |                  |                 |         |         |                 |                 |
| 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              |                 |                  |                 |         |         | <b></b>         |                 |
| 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 | 0.04    | 5.9            |                 |                  |                 |         |         |                 |                 |
| MW-2@5'    | 5/2/2005   | 5     | <1 0    | <50     | <0.5    | <0.5    | < 0.5           | <0.5    | 1.2     | <2.5           |                 |                  |                 |         |         |                 |                 |
| 11111 200  | 5/ 2/ 2000   | 0     | 1.0     |         | 0.0     | 0.0     |                 |         |         |                |                 |                  |                 |         |         |                 |                 |
### HISTORICAL SOIL ANALYTICAL DATA SHELL-BRANDED SERVICE STATION 8999 SAN RAMON ROAD, DUBLIN, CALIFORNIA

| Sample ID     | Date      | Depth<br>(fbg) | TPHd<br>(mg/kg) | TPHg<br>(mg/kg) | B<br>(mg/kg) | T<br>(mg/kg) | E<br>(mg/kg) | X<br>(mg/kg) | MTBE<br>(mg/kg) | TBA<br>(mg/kg) | DIPE<br>(mg/kg) | ETBE<br>(mg/kg) | TAME<br>(mg/kg) | 1,2 <b>-</b> DCA<br>(mg/kg) | EDB<br>(mg/kg) | Ethanol<br>(mg/kg) | Lead<br>(mg/kg) |
|---------------|-----------|----------------|-----------------|-----------------|--------------|--------------|--------------|--------------|-----------------|----------------|-----------------|-----------------|-----------------|-----------------------------|----------------|--------------------|-----------------|
| 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           | 0.01           |                 |                 |                 |                             |                |                    |                 |
| 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        |                 |                 |                 |                             |                |                    |                 |
| 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           |                 |                 |                 |                             |                |                    |                 |

### HISTORICAL SOIL ANALYTICAL DATA SHELL-BRANDED SERVICE STATION 8999 SAN RAMON ROAD, DUBLIN, CALIFORNIA

| Sample ID   | Date      | Depth<br>(fbg) | TPHd<br>(mg/kg) | TPHg<br>(mg/kg) | B<br>(mg/kg) | T<br>(mg/kg) | E<br>(mg/kg) | X<br>(mg/kg) | MTBE<br>(mg/kg) | TBA<br>(mg/kg) | DIPE<br>(mg/kg) | ETBE<br>(mg/kg) | TAME<br>(mg/kg) | 1,2 <b>-</b> DCA<br>(mg/kg) | EDB<br>(mg/kg) | Ethanol<br>(mg/kg) | Lead<br>(mg/kg) |
|-------------|-----------|----------------|-----------------|-----------------|--------------|--------------|--------------|--------------|-----------------|----------------|-----------------|-----------------|-----------------|-----------------------------|----------------|--------------------|-----------------|
| 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           |                             |                |                    |                 |
| MW-2RC-5.5  | 2/22/2011 | 5.5            | 170             | < 0.20          | <0.00099     | <0.00099     | <0.00099     | < 0.0020     | < 0.0020        | <0.020         |                 |                 |                 |                             |                |                    |                 |
| MW-2RC-15.5 | 2/22/2011 | 15.5           | <5.0            | <0.19           | <0.00099     | <0.00099     | <0.00099     | < 0.0020     | < 0.0020        | < 0.020        |                 |                 |                 |                             |                |                    |                 |
| MW-2RC-25.5 | 2/22/2011 | 25.5           | <5.0            | <0.20           | <0.00099     | <0.00099     | <0.00099     | < 0.0020     | < 0.0020        | <0.020         |                 |                 |                 |                             |                |                    |                 |
| MW-2RC-35.5 | 2/22/2011 | 35.5           | <5.0            | <0.19           | <0.00099     | <0.00099     | <0.00099     | <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     | <0.00099     | <0.00099     | < 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     | <0.00099     | <0.00099     | <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     | <0.00099     | <0.00099     | < 0.0020     | < 0.0020        | <0.099         |                 |                 |                 |                             |                |                    |                 |

#### HISTORICAL SOIL ANALYTICAL DATA SHELL-BRANDED SERVICE STATION 8999 SAN RAMON ROAD, DUBLIN, CALIFORNIA

| Sample ID                        | Date                                       | Depth<br>(fbg) | TPHd<br>(mg/kg) | TPHg<br>(mg/kg) | B<br>(mg/kg)   | T<br>(mg/kg) | E<br>(mg/kg) | X<br>(mg/kg) | MTBE<br>(mg/kg) | TBA<br>(mg/kg) | DIPE<br>(mg/kg) | ETBE<br>(mg/kg) | TAME<br>(mg/kg) | 1,2 <b>-</b> DCA<br>(mg/kg) | EDB<br>(mg/kg)     | Ethanol<br>(mg/kg) | Lead<br>(mg/kg) |
|----------------------------------|--|----------------|-----------------|-----------------|----------------|--------------|--------------|--------------|-----------------|----------------|-----------------|-----------------|-----------------|-----------------------------|--------------------|--------------------|-----------------|
| 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          |                 |                 |                 |                             |                    |                    |                 |
| Shallow Soil (<br>Deep Soil (>10 | i≤10 fbg) ESL<br>) fbg) ESL <sup>f</sup> : | f.             | 500<br>530      | 500<br>580      | 0.044<br>0.044 | 2.9<br>2.9   | 3.3<br>3.3   | 2.3<br>2.3   | 0.023<br>0.023  | 0.075<br>0.075 | NA<br>NA        | NA<br>NA        | NA<br>NA        | 0.0045<br>0.0045            | 0.00033<br>0.00033 | NA<br>NA           | 320<br>320      |

<u>Notes:</u>

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

< 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.

#### HISTORICAL SOIL ANALYTICAL DATA SHELL-BRANDED SERVICE STATION 8999 SAN RAMON ROAD, DUBLIN, CALIFORNIA

TPHg В Τ X MTBE TBA DIPE ETBE Sample ID Depth TPHd Ε TAME 1,2-DCA EDB Ethanol Lead Date (mg/kg) (fbg)

f = San Francisco Bay Regional Water Quality Control Board commercial/industrial ESL for soil where groundwater is a potential source of drinking water (Tables A and C of *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008] - Updated May 2013).

|         |            |             |          |         |         |         |         |           |         |         |         |         |          | Devth to | GW        |
|---------|------------|-------------|----------|---------|---------|---------|---------|-----------|---------|---------|---------|---------|----------|----------|-----------|
| Well ID | Date       | TPHd        | TPHg     | В       | Т       | Ε       | X       | MTBE      | TBA     | DIPE    | ETBE    | TAME    | ТОС      | Water    | Elevation |
|         |            | (µg/L)      | (μg/L)   | (µg/L)  | (µg/L)  | (µg/L)  | (µg/L)  | (µg/L)    | (µg/L)  | (µg/L)  | (µg/L)  | (µg/L)  | (ft MSL) | (ft TOC) | (ft MSL)  |
|         |            |             | .0       |         |         |         | U       | U         | U       |         |         |         |          |          |           |
| 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    |          |         | <u></u> |         |         |           |         |         |         |         | 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    |          |         |         |         |         | , <b></b> |         |         |         |         | 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 | Insufficien | ıt water |         |         |         |         |           |         |         |         |         | 420.06   | 26.45    | 393.61    |
| MW-1    | 05/22/2008 | Well destr  | oyed     |         |         |         |         |           |         |         |         |         |          |          |           |
|         |            |             |          |         |         |         |         |           |         |         |         |         |          |          |           |
| 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    |
| 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    |

| Well ID | Date       | TPHA        | ТРНо    | В       | Т         | Е           | X       | MTBE        | ТВА    | DIPE    | ETBE    | TAME    | тос      | Depth to<br>Water | GW<br>Elevation |
|---------|------------|-------------|---------|---------|-----------|-------------|---------|-------------|--------|---------|---------|---------|----------|-------------------|-----------------|
| wen ID  | Duit       | (μg/L)      | (μg/L)  | (μg/L)  | (μg/L)    | L<br>(µg/L) | (µg/L)  | (µg/L)      | (µg/L) | (µg/L)  | (µg/L)  | (µg/L)  | (ft MSL) | (ft TOC)          | (ft MSL)        |
| 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    |         |         |           |             |         |             |        | <u></u> |         |         | 418.88   |                   |                 |
| MW-2    | 06/05/2007 | Insufficien | t water |         |           |             |         |             |        |         |         |         | 418.88   | 26.54             | 392.34          |
| MW-2    | 08/27/2007 | Well dry    |         |         |           |             |         |             |        |         |         |         | 418.88   |                   |                 |
| MW-2    | 11/30/2007 | Well dry    |         |         |           |             |         | <del></del> |        |         |         |         | 418.88   |                   |                 |
| MW-2    | 02/15/2008 | Insufficien | t water |         | <b></b> ' |             |         |             |        |         |         |         | 418.88   | 26.15             | 392.73          |
| MW-2    | 05/15/2008 | Well destr  | oyed    |         |           |             |         |             |        |         |         |         |          |                   |                 |
| 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          |
| 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-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          |

| Well ID | Date       | TPHd<br>(µg/L) | TPHg<br>(µg/L) | B<br>(µg/L) | Т<br>(µg/L) | E<br>(µg/L) | X<br>(µg/L) | MTBE<br>(µg/L) | TBA<br>(µg/L) | DIPE<br>(µg/L) | ETBE<br>(µg/L) | TAME<br>(µg/L) | TOC<br>(ft MSL) | Depth to<br>Water<br>(ft TOC) | GW<br>Elevation<br>(ft MSL) |
|---------|------------|----------------|----------------|-------------|-------------|-------------|-------------|----------------|---------------|----------------|----------------|----------------|-----------------|-------------------------------|-----------------------------|
| 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 | <b>18</b> 0 e  | 300 e          | <0.50       | <0.50       | <0.50       | <1.0        | 0.50           | <10           | <0.50          | <0.50          | <0.50          | 415.66          | <b>29.8</b> 0                 | 385.86                      |
| 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 | <b>29</b> 0 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-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       | - 100          |             |             |             | ·           |                |               |                |                |                | 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          |                               |                             |
| 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 | Insufficien    | nt water       |             |             |             |             |                |               |                |                |                | 417.24          | 23.60                         | 393.64                      |
| MW-3    | 05/15/2008 | Well destr     | oyed           |             |             |             |             |                |               |                |                |                |                 |                               |                             |

|         |                          |            |            |              |              |         | ,                |         |        |         |         |         |          | Depth to | GW        |
|---------|--------------------------|------------|------------|--------------|--------------|---------|------------------|---------|--------|---------|---------|---------|----------|----------|-----------|
| Well ID | Date                     | TPHd       | TPHg       | В            | Т            | Ε       | $\boldsymbol{X}$ | MTBE    | TBA    | DIPE    | ETBE    | TAME    | TOC      | Water    | Elevation |
|         |                          | (µg/L)     | (µg/L)     | (µg/L)       | (µg/L)       | (µg/L)  | (µg/L)           | (µg/L)  | (µg/L) | (µg/L)  | (µg/L)  | (µg/L)  | (ft MSL) | (ft TOC) | (ft MSL)  |
| MW/3R   | 03/11/2010               |            |            |              |              |         |                  |         |        |         |         |         |          | 22.60    |           |
| MM 2D   | 03/11/2010<br>03/10/2010 | <50        | <50        | <0.50        | <10          | <10     | <10              | <1.0    | <10    | <2.0    | <2.0    | <2.0    |          | 22.30    |           |
| MM 2D   | 05/19/2010               | <50        | <50        | <0.50        | <1.0<br><1.0 | <1.0    | <1.0             | <1.0    | <10    | <2.0    | <2.0    | <2.0    |          | 21.14    |           |
| MM/_3R  | 03/07/2010<br>08/09/2010 | <50        | <50<br><50 | <0.50<br>4 7 | <1.0         | <1.0    | 1.2              | <1.0    | <10    | <2.0    | <2.0    | <2.0    |          | 24.20    |           |
| MM/_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   | $\frac{11}{00}$          | <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-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 destr | oyed       |              |              |         |                  |         |        |         |         |         |          | `        |           |

|         |            |             |          |         |         |         |         |        |        |         |         |        |          | Denth to | GW        |
|---------|------------|-------------|----------|---------|---------|---------|---------|--------|--------|---------|---------|--------|----------|----------|-----------|
| Well ID | Date       | TPHd        | TPHg     | В       | Т       | E       | X       | MTBE   | TBA    | DIPE    | ETBE    | TAME   | TOC      | Water    | Elevation |
|         |            | (µg/L)      | (µg/L)   | (µg/L)  | (µg/L)  | (µg/L)  | (µg/L)  | (µg/L) | (µg/L) | (µg/L)  | (µg/L)  | (µg/L) | (ft MSL) | (ft TOC) | (ft MSL)  |
| 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 | Insufficien | t water  |         |         |         |         |        |        |         |         |        | 416.88   | 28.39    | 388.49    |
| MW-5    | 02/15/2008 | Insufficien | t 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 | Insufficien | it water |         |         |         |         |        |        |         |         |        | 416.88   | 28.48    | 388.40    |
| MW-5    | 02/05/2009 | Well dry    |          |         |         |         |         |        |        |         |         |        | 416.88   |          |           |
| MW-5    | 05/07/2009 | Insufficien | it water |         |         |         |         |        |        |         |         |        | 416.88   | 27.78    | 389.10    |
| 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 | Insufficien | ıt 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 | Insufficien | t 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-5B   | 02/07/2008 |             |          |         |         |         |         |        |        |         |         |        | 417.66   | 29.74    | 387.92    |

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

| Well ID | Date       | TPHd   | TPHg    | В      | Т      | E      | X      | MTBE   | TBA    | DIPE   | ETBE   | TAME   | ТОС      | Depth to<br>Water | GW<br>Elevation |
|---------|------------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|-------------------|-----------------|
|         |            | (µg/L) | (µg/L)  | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (ft MSL) | (ft TOC)          | (ft MSL)        |
| 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          |
| 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-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          |
| 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          |

CRA 240724 (12)

| Well ID | Date        | TPHd<br>(ug/I) | TPHg<br>(ug/L) | В<br>(ца/Г) | Т<br>(ца/Т.) | Е<br>(ца/Т.) | Х<br>(цаД.) | MTBE   | TBA<br>(ug/L) | DIPE<br>(ug/L) | ЕТВЕ<br>(119/1.) | TAME<br>(ug/L) | TOC<br>(ft MSL) | Depth to<br>Water<br>(ft TOC) | GW<br>Elevation<br>(ft MSL) |
|---------|-------------|----------------|----------------|-------------|--------------|--------------|-------------|--------|---------------|----------------|------------------|----------------|-----------------|-------------------------------|-----------------------------|
|         |             | (μχ) L)        | (µg/L)         | (µg L)      | (µg L)       | (µg L)       | (µg L)      | (48,2) | (48/2)        | (4.8/2)        | (                | (-8-2)         | yr 1102,        | yr,                           | y,                          |
| 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          | <b>417.1</b> 0  | 35.31                         | 381.79                      |
|         |             |                |                |             |              |              |             |        |               |                |                  |                |                 |                               |                             |
| MW-6    | 02/28/2006  |                |                |             |              |              |             |        |               |                |                  |                | 422.50          | 23.55                         | 398.95                      |
| 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 destro    | oyed           |             |              |              |             |        |               |                | <u>م</u> مند     |                |                 |                               |                             |
| MW-7    | 08/21/2006  |                |                |             |              |              |             |        |               |                |                  |                | 414.35          | 25.84                         | 388.51                      |

| Well ID | Date       | TPHd<br>(µg/L) | TPHg<br>(µg/L) | В<br>(µg/L) | Т<br>(µg/L) | E<br>(µg/L) | X<br>(µg/L) | MTBE<br>(µg/L) | TBA<br>(µg/L) | DIPE<br>(µg/L) | ETBE<br>(µg/L) | TAME<br>(µg/L) | TOC<br>(ft MSL) | Depth to<br>Water<br>(ft TOC) | GW<br>Elevation<br>(ft MSL) |
|---------|------------|----------------|----------------|-------------|-------------|-------------|-------------|----------------|---------------|----------------|----------------|----------------|-----------------|-------------------------------|-----------------------------|
| 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 | Insufficien    | nt 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 | Insufficien    | it 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                      |
| 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 destr     | oyed           |             |             |             |             |                |               |                |                |                |                 |                               |                             |
| 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                      |

| Well ID | Date       | TPHd<br>(µg/L) | TPHg<br>(µg/L) | В<br>(µg/L) | Τ<br>(μg/L) | Ε<br>(μg/L) | X<br>(µg/L) | MTBE<br>(µg/L) | TBA<br>(µg/L) | DIPE<br>(µg/L) | ETBE<br>(µg/L) | TAME<br>(µg/L) | TOC<br>(ft MSL) | Depth to<br>Water<br>(ft TOC) | GW<br>Elevation<br>(ft MSL) |
|---------|------------|----------------|----------------|-------------|-------------|-------------|-------------|----------------|---------------|----------------|----------------|----------------|-----------------|-------------------------------|-----------------------------|
| 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 | Insufficier    | t 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 | Insufficier    | ıt water       |             |             |             |             |                |               |                |                |                | 414.54          | 28.31                         | 386.23                      |
| MW-8    | 11/10/2009 | Insufficier    | it 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                      |
| 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-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                      |

| Well ID | Date       | TPHd<br>(µg/L) | TPHg<br>(µg/L) | В<br>(µg/L) | Τ<br>(μg/L) | Е<br>(µg/L) | X<br>(µg/L) | MTBE<br>(µg/L) | TBA<br>(µg/L) | DIPE<br>(µg/L) | ETBE<br>(µg/L) | TAME<br>(µg/L) | TOC<br>(ft MSL) | Depth to<br>Water<br>(ft TOC) | GW<br>Elevation<br>(ft MSL) |
|---------|------------|----------------|----------------|-------------|-------------|-------------|-------------|----------------|---------------|----------------|----------------|----------------|-----------------|-------------------------------|-----------------------------|
| 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                      |
| 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-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 | Insufficien    | t 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 | Insufficien    | ıt 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 | Insufficien    | ıt water       |             |             |             |             |                |               |                |                |                | 412.69          | 28.40                         | 384.29                      |
| MW-9    | 11/17/2008 | Well dry       |                |             |             |             |             |                |               |                |                |                | 412.69          |                               |                             |
| MW-9    | 02/05/2009 | Insufficien    | nt water       |             |             |             |             |                |               |                |                |                | 412.69          | 28.54                         | 384.15                      |
| MW-9    | 05/07/2009 | Insufficien    | nt water       |             |             |             |             |                |               |                |                |                | 412.69          | 28.41                         | 384.28                      |
| MW-9    | 08/20/2009 | Well dry       |                |             |             |             |             |                |               |                |                |                | 412.69          |                               |                             |
| MW-9    | 11/10/2009 | Well dry       |                |             |             |             |             |                |               |                |                |                | 412.69          |                               |                             |

|         |            |                |                |             |             |             |             |                | -             |                |                |                |                 | Denth to           | GW                    |
|---------|------------|----------------|----------------|-------------|-------------|-------------|-------------|----------------|---------------|----------------|----------------|----------------|-----------------|--------------------|-----------------------|
| Well ID | Date       | TPHd<br>(µg/L) | TPHg<br>(µg/L) | В<br>(µg/L) | Τ<br>(μg/L) | E<br>(µg/L) | X<br>(µg/L) | MTBE<br>(µg/L) | TBA<br>(µg/L) | DIPE<br>(µg/L) | ETBE<br>(µg/L) | TAME<br>(µg/L) | TOC<br>(ft MSL) | Water<br>(ft TOC)  | Elevation<br>(ft MSL) |
| 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 | Insufficien    | ıt 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 destr     | oyed           |             |             |             |             |                |               |                |                |                |                 | - 20- 20- 20-<br>- |                       |
| 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-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          |                    |                       |
| 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          |                    |                       |

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

|         | Data       |                | TDII-  | 'n          | т           | г           | v           | MTDE           | ΤΡΛ           | סות            | TTDE           | Таме   | тос      | Depth to<br>Water | GW<br>Elemation |
|---------|------------|----------------|--------|-------------|-------------|-------------|-------------|----------------|---------------|----------------|----------------|--------|----------|-------------------|-----------------|
| well ID | Date       | 1РНа<br>(µg/L) | (µg/L) | ь<br>(µg/L) | ι<br>(μg/L) | Е<br>(µg/L) | л<br>(µg/L) | MTBE<br>(μg/L) | TBA<br>(μg/L) | DIFE<br>(µg/L) | LIBE<br>(μg/L) | (µg/L) | (ft MSL) | (ft TOC)          | (ft MSL)        |
| 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 destr     | oyed   |             |             |             |             |                |               |                |                |        |          |                   |                 |
| 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          |
| 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          |

CRA 240724 (12)

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

| Well ID                 | Date                     | TPHd<br>(µg/L)   | TPHg<br>(µg/L) | В<br>(µg/L)         | Т<br>(µg/L)         | E<br>(µg/L)  | X<br>(µg/L) | MTBE<br>(µg/L) | TBA<br>(µg/L) | DIPE<br>(µg/L)           | ETBE<br>(µg/L) | TAME<br>(µg/L)           | TOC <sup>.</sup><br>(ft MSL) | Depth to<br>Water<br>(ft TOC) | GW<br>Elevation<br>(ft MSL) |
|-------------------------|--------------------------|------------------|----------------|---------------------|---------------------|--------------|-------------|----------------|---------------|--------------------------|----------------|--------------------------|------------------------------|-------------------------------|-----------------------------|
| MW-11B<br><b>MW-11B</b> | 08/02/2012<br>01/17/2013 | <48<br><b>49</b> | <50<br>67      | <0.50<br><b>3.3</b> | <0.50<br><b>2.6</b> | <0.50<br>1.7 | <1.0<br>13  | <0.50<br><0.50 | <10<br><10    | <0.50<br><b>&lt;0.50</b> | <0.50<br><0.50 | <0.50<br><b>&lt;0.50</b> | 409.03<br><b>409.03</b>      | 33.20<br><b>33.30</b>         | 375.83<br><b>375.73</b>     |
| MW-12                   | 02/07/2008               |                  |                | ·                   |                     |              |             |                | ·             |                          | <b></b> 1      |                          | 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                      |
| 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-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                      |

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| Well ID | Date                                | TPHd<br>(µg/L) | TPHg<br>(µg/L) | B<br>(µg/L) | Т<br>(µg/L) | E<br>(µg/L) | X<br>(µg/L) | MTBE<br>(µg/L) | TBA<br>(µg/L) | DIPE<br>(µg/L) | ETBE<br>(µg/L) | TAME<br>(µg/L) | TOC<br>(ft MSL) | Depth to<br>Water<br>(ft TOC) | GW<br>Elevation<br>(ft MSL) |
|---------|-------------------------------------|----------------|----------------|-------------|-------------|-------------|-------------|----------------|---------------|----------------|----------------|----------------|-----------------|-------------------------------|-----------------------------|
| 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-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 12C  | 05/13/2011                          |                | ·              |             |             |             |             |                |               |                |                |                | 415.73          | 26.55                         | 389.18                      |
| MW 12C  | 05/13/2011<br>05/22/2011            | 52             | 9/             | <0.50       | <0.50       | <0.50       | <10         | 140            | 44            | <10            | <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  | $\frac{07}{20}$                     | <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  | $\frac{11}{36}$ $\frac{2011}{2012}$ | 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                      |
|         |                                     |                |                |             |             |             |             |                |               |                |                |                | 410.00          | 00.07                         | 202.07                      |
| 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          | <b>28.1</b> 0                 | 385.23                      |

OTIT

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

| Well ID | Date       | TPHd<br>(µg/L) | TPHg<br>(µg/L) | В<br>(µg/L) | Т<br>(µg/L) | E<br>(µg/L) | X<br>(µg/L) | MTBE<br>(µg/L) | TBA<br>(µg/L) | DIPE<br>(µg/L) | ETBE<br>(µg/L) | TAME<br>(µg/L) | TOC<br>(ft MSL) | Water<br>(ft TOC) | GW<br>Elevation<br>(ft MSL) |
|---------|------------|----------------|----------------|-------------|-------------|-------------|-------------|----------------|---------------|----------------|----------------|----------------|-----------------|-------------------|-----------------------------|
| MW-14C  | 05/11/2011 | Well com       | promised       | during ins  | stallation  |             |             | ·              |               |                |                |                | 413.48          |                   |                             |
| MW-14C  | 05/23/2011 | Well com       | promised       | during ins  | stallation  |             |             |                |               |                |                |                | 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                      |
| 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                      |

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

 $\mu g/L = Micrograms per liter$ 

ft = Feet

MSL = Mean sea level

<x = Not detected at reporting limit x

--- = Not analyzed or available

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)

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

|         |      |        |        |        |        |        |                  |        |        |        |        |        |          | Deptn to | GW        |
|---------|------|--------|--------|--------|--------|--------|------------------|--------|--------|--------|--------|--------|----------|----------|-----------|
| Well ID | Date | TPHd   | TPHg   | B      | T      | Ε      | $\boldsymbol{X}$ | MTBE   | TBA    | DIPE   | ETBE   | TAME   | TOC      | Water    | Elevation |
|         |      | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L)           | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (µg/L) | (ft MSL) | (ft TOC) | (ft MSL)  |

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.

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

### HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA SHELL-BRANDED SERVICE STATION 8999 SAN RAMON ROAD, DUBLIN, CALIFORNIA

| Sample ID   | Date               | Depth<br>(fbg) | TPHd<br>(µg/L) | TPHg<br>(µg/L) | <b>Β</b><br>(μg/L) | T<br>(µg/L) | E<br>(µg/L) | X<br>(µg/L) | MTBE<br>(µg/L) | TBA<br>(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 | ESL <sup>a</sup> : |                | 100            | 100            | 1.0                | 40          | 30          | 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 unknown.

fbg = Feet below grade

 $\mu g/L = Micrograms per liter$ 

< x = Not detected at reporting limit x

--- = Not analyzed

ESL = Environmental screening level

Results in **bold** equal or exceed applicable ESL

# HISTORICAL GRAB GROUNDWATER ANALYTICAL DATA SHELL-BRANDED SERVICE STATION 8999 SAN RAMON ROAD, DUBLIN, CALIFORNIA

a = San Francisco Bay Regional Water Quality Control Board ESL for groundwater where groundwater is a potentail source of drinking water (Tables A and C of *Screening for Environmental Concerns at Sites With Contaminated Soil and Groundwater*, California Regional Water Quality Control Board, Interim Final - November 2007 [Revised May 2008] - Updated May 2013).

# 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<sup>®</sup> 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<sup>®</sup> 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.

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

# APPENDIX B

# CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC. – SITE PLAN



# **Shell-branded Service Station**

8999 San Ramon Road

Dublin, California



CAMBRIA

Site Plan

# APPENDIX C

# BORING LOGS

| _        |              |          |          |  |                 | <u> </u>                                |      |          |          |                                       |   |                                       |   |
|----------|--------------|----------|----------|--|-----------------|---|------|----------|----------|---------------------------------------|---|---------------------------------------|---|
| 1        |              |          | Project  | No:  | SJ89-9          | 9S-1                                    |      | Clier    | nt:      |                                       | Shell Oil Products  | US                                    | Well No: MW-1                                     |
| _        |              |          | Logged   | Ву:  | Heather         | r Buckingha                             | ım   | Loce     | ition:   |                                       | 8999 San Ramon F  | ld., Dublin                           | Page 1 of 2                                       |
| [        | っし           | to       | Driller: |  | Gregg           |   |      | Date     | Drilled: |                                       | 6/5/2005  | Location Map                          |   |
| [        | ノビ           | ιd       | Drilling | Method:                                      | HSA             |   |      | Hole     | Diamete  | er:                                   | 10 inch   |                                       |   |
| [ ]      |              |          | Samplir  | ng Method:                                   | CA Mod          | l. Split Sho                            | е    | Hole     | Depth:   |                                       | 27 fl   | Please se                             | ee site map                                       |
|          | nvironm      | ental    | Casing   | Туре:  | PVC             |   |      | Well     | Diamete  | er:                                   | 4 inch  |                                       |   |
| C        | onsultant    | ts, Inc. | Slot Siz | e;   | 0.01            |   |      | Well     | Depth:   |                                       | 27 feet   |                                       |   |
|          |              |          | Gravel   | Pack;  | #2/12           | - <u>1</u>                              |      | Casl     | ng Stick | up:                                   | NA  |                                       |   |
|          |              |          |          | Elevation                                    |                 |   | Nort | hing     |          |                                       | Easting   |                                       |   |
|          |              | <u> </u> |          | <u>т                                    </u> | 1               | . <u> </u>                              | T    |          | · · ·    |                                       | ·····   |                                       |   |
| We       | I Completion | Statio   | e te     | l Si   | 50              | (j                                      | Sa   | mpte     | 2        |                                       |   |                                       |   |
|          | Ø            | Water    | Inter    | pm)  | NS (            | ۲.<br>۲                                 | Ę.   | 5        | ۲<br>۲   |                                       | LIT   | HOLOGY                                | / DESCRIPTION                                     |
| ž        | asir         | Level    | မှိုးမိ  | l d e  | pla bla         | ebđ                                     | - Š  | ferv     | Sol      |                                       | , <b>– – – –</b>  |                                       |   |
| ď        | <u></u> 0    |          |          | <u> </u>                                     | L               | <u> </u>                                | R.   | 5        |          |                                       |   |                                       |   |
|          | ▩ㅣ_          |          |          |  |                 |   |      |          | AF       | Aspha                                 | alt 6", Base rock   | 4"                                    |   |
| 888      | ▓ !          |          |          |  |                 | 1                                       |      |          | <u> </u> | -                                     |   |                                       |   |
|          | 8            |          |          |  |                 |   |      |          | SM       | Silty                                 | SAND: light brow  | vn; 20-30%                            | 6 silt; fine to coarse grained                    |
| 888      | &            |          |          |  |                 | 2                                       |      |          | ]        | sand,                                 | well graded   |                                       | ······································            |
| ***      | 8 _          |          |          |  |                 |   |      |          | ]        |                                       |   |                                       |   |
| ***      | 8            |          |          | 1  | l & l           | 3                                       |      |          |          |                                       |   |                                       |   |
| ***      | 8 _          |          |          |  | 196             |   |      |          |          | 1                                     |   |                                       |   |
| 888      | ×            |          |          |  | kni<br>Lau      |   |      |          | CL       | Lean                                  | <b>CLAY</b> with San  | d: medium                             | h brown mottled with                              |
|          | 8            |          | 1        |  | lin D           | 4                                       |      |          |          | orang                                 | e; 85-90% fines;  | 10-15% fi                             | ne grained sand in tan                            |
| ***      | ×            |          |          |  | <sup>ع</sup> ر" | 5                                       |      |          |          | sand                                  | pockets; modera   | te to high                            | plasticity; soft                                  |
| Et 1     |              | •        | dry      | 11.3   |                 | 5                                       |      |          |          | []                                    |   |                                       |   |
| 5        |              |          |          |  |                 |   |      |          |          | [                                     | ·····   |                                       |   |
|          |              |          |          |  |                 | 0                                       |      |          |          |                                       |   |                                       | · · · · · ·                                       |
| ***      | \$ L         |          |          |  | ↓               | 7                                       |      |          |          |                                       |   |                                       |   |
| 222      | 8 _          |          |          |  |                 | /                                       |      |          |          |                                       |   |                                       | ······································            |
| ***      | × .          |          |          |  | [ .             | •                                       |      |          | :        | -                                     |   |                                       | · · · · · · · · · · · · · · · · · · ·             |
| ***      | × _          |          |          |  |                 | 0                                       |      |          |          |                                       |   |                                       | · · · · · · · · · · · · · · · · · · ·             |
| ****     | 8            |          |          |  |                 | n                                       |      |          | 1        |                                       |   |                                       |   |
| ***      | 8 _          |          |          |  |                 | 9                                       |      |          |          |                                       |   |                                       |   |
| 88       |              |          |          |  | 12              | 10                                      |      |          |          |                                       | ··· ···   |                                       |   |
| ***      | 8 _          |          |          | 335  | 13              | 10                                      |      |          |          |                                       |   |                                       |   |
| ***      | 8            |          |          |  | 19              | 11                                      |      |          |          |                                       |   |                                       |   |
|          | 8 _          |          |          |  |                 | · · · — – – – – – – – – – – – – – – – – |      |          |          |                                       |   |                                       |   |
| ***      |              |          |          |  |                 | 12                                      |      |          | Í        |                                       |   |                                       |   |
| ××       |              |          |          |  |                 | 12                                      |      |          |          |                                       |   | · · · · · · · · · · · · · · · · · · · |   |
| 888      | 8            |          |          |  |                 | 4.2                                     |      |          |          |                                       |   |                                       |   |
| ***      |              |          |          |  |                 | 10                                      |      |          | ļ        |                                       |   |                                       |   |
| ***      |              |          |          |  |                 | 14                                      |      |          | ľ        | · · · · · · · · · · · · · · · · · · · | and the second se |                                       | νομη ( μάλι · · · · · · · · · · · · · · · · · · · |
| ***      | 8            |          |          |  |                 | ·                                       |      |          | ľ        |                                       |   |                                       |   |
| **       |              | ļ        |          |  | 12              | 15                                      |      |          | Γ        |                                       |   |                                       |   |
|          | L.   K       | [        |          | 328  | 26              |   |      |          | CL       | Sandy                                 | Lean CLAY: m  | edium brov                            | wn with very dark brown                           |
|          |              |          |          |  | 25              | 16                                      |      |          |          | mottlin                               | ıg; 70-80% fines  | ; 20-30% f                            | ine grained sands; low to                         |
| ***      |              | · · ·    |          |  |                 |   |      |          |          | moder                                 | ate plasticity; sti   | ff                                    |   |
| ***      |              |          |          | ĺ  | İ               | 17                                      |      |          | , [      |                                       |   |                                       |   |
| ***      |              |          | Í        |  |                 | ., _                                    |      |          |          | _                                     |   |                                       |   |
| **       |              |          |          |  |                 | 18                                      |      |          |          |                                       |   |                                       |   |
| ***      |              |          |          |  |                 |   |      |          |          |                                       |   |                                       |   |
| ***      |              |          | _        |  |                 | 19                                      |      |          |          |                                       |   |                                       |   |
| ***      |              |          | moist    |  |                 | ,                                       |      | timere a |          |                                       |   |                                       |   |
| 888      |              |          |          | 22.6   | 50              | 20                                      |      |          |          |                                       |   |                                       |   |
| 888      |              |          |          |  | for             |   |      |          | L        |                                       |   |                                       |   |
| 影        |              |          | . [      | 1  | 6"              | 21                                      |      |          |          |                                       |   |                                       |   |
| nto<br>I |              |          | damp     |  |                 |   |      |          |          |                                       |   | <u>,</u>                              |   |
| å        |              |          |          |  | [               | 22                                      |      |          |          |                                       |   |                                       |   |
|          |              |          |          |  |                 |   |      |          |          |                                       |   | ·                                     |   |

| De<br>Enviro<br>Consult      |      | ta<br>ental<br>s, Inc.   | Project f<br>Logged I<br>Driller:<br>Dritling A<br>Sampling<br>Casing 1<br>Slot Size<br>Gravel P | No:<br>By:<br>Method;<br>g Method:<br>Type:<br>e:<br>ack:<br>Elevation | SJ89-99<br>Heather<br>Gregg<br>HSA<br>CA Mod<br>PVC<br>0,01<br>#2/12 | S-1<br>Buckingf<br>. Split Sh  | nam<br>Óe<br>Nort | Clien<br>Loca<br>Date<br>Hole<br>Well<br>Well<br>Casir<br>hing | t;<br>tion:<br>Drilled;<br>Diamete<br>Depth;<br>Dg Stlcku | r:<br>r:<br>ip:       | Shell Oll Products<br>8999 San Ramon<br>5/5/2005<br>10 Inch<br>27 ft<br>4 Inch<br>27 ft<br>NA<br>Easting | US<br>Rd., Dubiln<br>Location Map<br>Please se | Boring No: MW-1<br>Page 2 of 2<br>ee site map |
|------------------------------|------|--------------------------|--|--|--|--|-------------------|--|---|-----------------------|--|--|---|
| Backfill<br>Casing<br>Casing | eaon | Static<br>Water<br>Level | Moisture<br>Content  | PID Reading<br>(ppm)   | Penetration<br>(blows/6")  | Depth (feet)   | Recovery &        | Interval eldu  | Soil Type   |                       | LIT  | THOLOGY  | / DESCRIPTION                                 |
| Sand<br>[                    |      |                          | damp   | 9.4  |  | 23 —<br>24 —<br>25 —<br>26 —<br>27 —   |                   |  | CL  | Sand<br>Lean<br>Borin | y Lean CLAY:<br>CLAY with Sa<br>g terminated at  | continued<br>nd: same a<br>27 feet beid        | s above, stiff<br>ow ground surface           |
|                              |      |                          |  |  |  | 28 —<br>29 —<br>30 —<br>31 —<br>32 —<br>33 —<br>33 —<br>34 —<br>35 —<br>36 —<br>37 —<br>38 —<br>39 —<br>40 —<br>41 — |                   |  |   |                       |  |  |   |
|                              |      |                          |  |  |  | 43<br>   |                   |  |   |                       |  |  |   |



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| D<br>Envi<br>Const | el'<br>ironme<br>ultants | ta<br>ental<br>s, Inc.   | Project I<br>Logged<br>Driller:<br>Drilling I<br>Samplin<br>Casing <sup>-</sup><br>Slot Size<br>Gravel P | No:<br>By:<br>Method:<br>g Method:<br>Type:<br>e:<br>Pack:<br>Elevation | SJ89-99<br>Heather<br>Gregg<br>HSA<br>CA Mod<br>PVC<br>0.01<br>#2/12 | 9S-1<br>Buckingham<br>I. Spilt Shoe<br>No | Clier<br>Loca<br>Date<br>Hole<br>Hole<br>Well<br>Well<br>Casi | nt:<br>tition:<br>Diamete<br>Depth:<br>Diamete<br>Depth:<br>ng Sticks | Shel<br>8999<br>5/5/2<br>: 10 Ir<br>27 ft<br>: 4 Inc<br>27 fe<br>b: NA<br>Eas | II Oil Products<br>9 San Ramon<br>2005<br>1ch<br>5ch<br>9ct<br>sting           | US<br>Rd., Dublin<br>Location Map<br>Please se                                   | Well No: MW-2<br>Page 1 of 2   |
|--------------------|--------------------------|--------------------------|--|---|--|---|---|---|---|--|--|--------------------------------|
| Casing Casing      | npietion                 | Static<br>Water<br>Level | Moisture<br>Content  | PID Reading<br>(ppm)  | Penetration<br>(blows/6")  | Depth (feet)                              | Patricial Interval  | Soil Type   |   | LI   | [HOLOGY  | / DESCRIPTION                  |
| Grout              |                          |                          | đry  | 11.3<br>335<br>328  | air knifed & air knifed &  |   |   | AF<br>SM<br>CL  | Asphalt 6" Silty SAN sand, well Lean CLA orange; 85 sand pock (Sar (Sar       | , Base rock<br>graded<br>Y with San<br>3-90% fines<br>ets; moder<br>me as abov | < 4"<br>wn; 20-30%<br>nd: medium<br>s; 10-15% fi<br>ate to high<br>/o, less oran | 6 silt; fine to coarse grained |
| Bentonite          |                          | <b>.</b>                 | moist<br>damp  | 22.6  | 50<br>for<br>6"  | 18  |   | CL  | Sandy Lea<br>and; low p   | an CLAY; g<br>plasticity; so   | gray; 55 to 6<br>oft   | 35% fines; 35 to 45%           |

| i               |          | Broket     | May                | Q 180 00       | 0.0.4             | AL.              |                         | Aball All Durates  |                              |
|-----------------|----------|------------|--------------------|----------------|-------------------|------------------|-------------------------|--|------------------------------|
|                 |          |            | NO:<br>Rv:         | OU09-95        | 70∼1<br>Buokiews- | Cliei<br>m Loor  | nt:<br>ation:           | Shell Oil Products   | US  Boring No: MW-2          |
|                 |          | Driliar    |                    | Gread          | DUDKINGNA         | ini Luca<br>Data | allon;<br>Drillodr      |  | Ra., Dubin Page 2 of 2       |
|                 | ta.      | Drilling   | Vethod             | Glegg          |                   |                  | Diamata                 | 0/0/2000<br>** 10 keek   | Location Map                 |
|                 | ια       | Samplin    | a Mathod:          | CA Mod         | Colit Cho         | nuit<br>a Unio   | Danth                   | 6 10 Inch<br>97.6  | Blanca coo sito mon          |
| Environm        | ental    | Casina 1   | y Mothou.<br>Tuno: | DV/C           | , opiit onui      |                  | i Depin.<br>I Diamata   | Z/ I(<br>" dinah   | riedse see site map          |
| Consultant      | e Inc    | Slot Size  | a,<br>1 Aber       | 0.01           |                   | VVCI<br>Moli     | Depthy                  | 1. 41000<br>27.0   |                              |
| oonsinding.     | 3, 1110. | Gravel P   | ack:               | #2/12          |                   | · Casi           | i Deptit.<br>Ind Sticki | ∠/11<br>10* NA   |                              |
|                 |          |            | Elevation          |                | [                 | Northing         | ang outra               | Easting  |                              |
|                 |          |            |                    |                |                   |                  |                         |  |                              |
| Well Completion | Claila   | 0          | <b>B</b>           | 50             | ef)               | Sample           | U                       |  |                              |
|                 | Water    | nten 1     | Ead<br>DE G        | ktrati<br>ws/6 | (fe               | ਹੀ ਕ             | q                       | 5 17   | HOLOGY / DESCRIPTION         |
| ackt<br>asir    | Level    | Noi<br>Noi | ц <u>Б</u>         | ele<br>blo     | t de la           | Le Co            | io.                     | 11-11  | HOLOGI I DEGGRIPHON          |
| ά U             |          |            | <u>a</u>           | <u>п</u> (     |                   | en E             |                         |  |                              |
|                 |          |            |                    |                |                   |                  | CL                      | Sandy Lean CLAY: (   | continued                    |
|                 |          |            |                    |                | 23                |                  | 1                       |  |                              |
| = _             |          |            |                    |                |                   |                  |                         |  |                              |
| =               |          |            |                    |                | 24                |                  | r i                     |  |                              |
|                 |          |            |                    |                |                   |                  |                         | \/# <b>***</b>   |                              |
|                 |          | domn       | 0.4                |                | 25                |                  |                         |  |                              |
|                 |          | uamp       | 9.4                |                |                   |                  | CL                      | Lean CLAY with Sar   | nd: same as above, stiff     |
|                 |          |            |                    |                | 26                |                  |                         |  |                              |
|                 | -        |            |                    |                |                   |                  |                         | Roring terminated at /   | 27 fact below around surface |
|                 |          |            |                    |                | 27                |                  |                         | Donny terminated at a  | 27 reet below ground surface |
| ·               |          |            |                    |                |                   |                  |                         | ······································   |                              |
| · ·             |          |            |                    |                | 28                |                  | · ·                     | The second s |                              |
|                 |          |            |                    |                | ~ -               |                  |                         |  |                              |
|                 |          |            |                    |                | 29                |                  |                         | ••••••••••••••••••••••••••••••••••••••   | ·                            |
|                 |          |            |                    |                | 30                |                  |                         |  |                              |
| _               |          |            |                    |                |                   |                  |                         |  |                              |
| ,               |          |            |                    |                | 31                |                  |                         | · · · · · · · · · · · · · · · · · · ·  |                              |
|                 |          |            |                    | .              |                   |                  |                         | ·····  |                              |
|                 | -        |            |                    | •              | 32                |                  | -                       |  |                              |
| •               | 1        |            |                    |                |                   |                  | -                       |  |                              |
|                 | •        |            |                    |                | 33                |                  | ·                       |  |                              |
|                 |          |            |                    | ·              | ~ <del>-</del>    |                  | ŀ                       |  |                              |
|                 | •        |            |                    |                | 34                |                  | ĺ                       |  |                              |
|                 |          |            |                    |                | 25                |                  | -                       |  |                              |
| _               |          |            |                    |                | °5                |                  | ſ                       |  |                              |
|                 | :        | .          |                    |                | 36                | _                | ſ                       |  |                              |
| _               |          |            |                    |                |                   |                  |                         |  |                              |
|                 |          |            |                    |                | 37                |                  | -                       |  | a bol fargin                 |
|                 |          |            |                    |                |                   |                  | -                       | ······································   |                              |
|                 |          |            | ·                  |                | 38                | _                | .  -                    |  |                              |
|                 |          |            |                    |                |                   |                  | -                       | ······································   |                              |
|                 |          |            |                    |                | 39                |                  | ŀ                       | · · · · · · · · · · · · · · · · · · ·  |                              |
| _               |          |            |                    |                | . +               | <u> </u>         | -                       |  |                              |
|                 |          |            |                    |                | 40                |                  |                         | PTTN   | ······                       |
| Sectors.        |          |            |                    |                | A1                |                  | F                       |  |                              |
|                 |          |            |                    |                |                   |                  |                         | ·····  |                              |
|                 |          |            |                    |                | 42                |                  |                         |  |                              |
| _               |          |            | , [                |                | ·- ↓              |                  |                         |  |                              |
|                 |          |            | Ì                  |                | 43                |                  |                         |  |                              |
| _               |          |            |                    |                |                   | _ <u> </u>       | $\vdash$                |  |                              |
|                 |          |            |                    |                | <b>4</b> 4        |                  | Ļ                       |  |                              |
| I               | 1        |            |                    |                | L                 |                  |                         |  |                              |

|                 |                  | -<br>-<br>-<br>- | Con<br>5900                                  | estoga<br><u>) Hollis</u> | Rove             | ers & A<br>et, Suit | ssociates<br>te A   | BORING / WELL LOG                            |  |                                     |  |
|-----------------|------------------|------------------|--|---------------------------|------------------|---------------------|---------------------|--|--|-------------------------------------|--|
|                 |                  |                  | Telephone: 510-420-0700<br>Fax: 510-420-9170 |                           |                  |                     |                     |  | ,                                      |                                     |  |
| CLIENT          | 'NAME<br>Fe name |                  | <u>Shel</u><br>Shel                          | <u>  Oil Pro</u>          | oducts<br>ded Se | US<br>tvice S       | tation              | BORING/WELL NAME                             | MW-2R17-Feb-11                         |                                     | ······   |
|                 |                  |                  | 8999 San Ramon Road, Dublin, CA              |                           |                  |                     |                     | DRILLING COMPLETED                           | 23-Feb-11                              |                                     |  |
| PROJECT NUMBER  |                  |                  | 240724                                       |                           |                  |                     |                     | WELL DEVELOPMENT D                           | ATE (YIELD)                            | 11- <b>M</b> a                      | y-11 (39.0 gallons)                            |
| DRILLER         |                  |                  | Cascade Dnilling, L.P.                       |                           |                  |                     |                     | GROUND SURFACE ELE                           | VATION _                               | 416.21                              | ft above msl                                   |
| DRILLING METHOD |                  |                  | Hollow-stem auger                            |                           |                  |                     |                     | TOP OF CASING ELEVATION _ SCREENED INTERVALS |  | 415.82 ft above msl<br>30 to 45 fbg |  |
| BORING DIAMETER |                  |                  | 8"   |                           |                  |                     |                     |  |  |                                     |  |
|                 |                  |                  | VV. Martinez                                 |                           |                  |                     |                     | DEPTH TO WATER (First                        | Encountered)                           | 40.                                 | <u>00 fbg</u> <u>-</u><br>87 fbg (11 Moy∈11) ▼ |
| REVIEWED DI     |                  |                  | Airknifed to 5 fbg                           |                           |                  |                     |                     | DEPTH TO WATER (Stati                        | ()                                     | 20.                                 | 0/ lbg (11-iviay-11) <u>+</u>                  |
|                 | +                |                  | 7 46151                                      | ,                         |                  | i                   |                     | ·····  |  |                                     |  |
| PID (ppm)       | BLOW<br>COUNTS   | SAMPLE ID        | EXTENT                                       | DEPTH<br>(fbg)            | U.S.C.S.         | GRAPHIC<br>LOG      | ЦТНС                | DLOGIC DESCRIPTION                           |  | CONTACT<br>DEPTH (fbg)              | WELL DIAGRAM                                   |
|                 |                  |                  |  |                           |                  | <b> </b>            | See boring log MW-2 | 2RC for lithology.                           | ······································ |                                     |  |
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WELL LOG (PID) #\SHELL\6-CHARS\2407-\240724~1244DE5-1\240724.GPJ DEFAULT.GDT 5/25/11
| ALCON T             |  |
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**BORING / WELL LOG** 

CLIENT NAME JOB/SITE NAME LOCATION

WELL LOG (PID) INSHELLIG-CHARS12407--240724-11244DE5-11240724.GPJ DEFAULT.GDT 5/25/11

| Shell | Oil Produc | cts US  |         |
|-------|------------|---------|---------|
| Shell | branded    | Service | Station |

8999 San Ramon Road, Dublin, CA

BORING/WELL NAME DRILLING STARTED

Continued from Previous Page

ME <u>MW-2R</u> ED <u>17-Feb-11</u>

DRILLING COMPLETED 23-

D 23-Feb-11

| , (mqq) Olq | BLOW<br>COUNTS | SAMPLE ID | EXTENT | DEPTH<br>(fbg) | U.S.C.S. | GRAPHIC<br>LOG | LITHOLOGIC DESCRIPTION | CONTACT<br>DEPTH (fbg) | WELL DIAGRAM   |
|-------------|----------------|-----------|--------|----------------|----------|----------------|------------------------|------------------------|--|
|             |                |           |        |                |          |                |                        |                        | <ul> <li>2" diam., Schedule<br/>40 PVC</li> <li>Bentonite Seal</li> <li>Monterey Sand<br/>#2/12</li> </ul> |
|             |                |           |        | -35            |          |                | Δ.                     |                        | ✓ 2°-diam. 0.010°<br>Slotted Schedule 40<br>PVC  |

| al <sup>din</sup> |
|-------------------|
|                   |

8999 San Ramon Road, Dublin, CA

BORING / WELL LOG

CLIENT NAME JOB/SITE NAME LOCATION

| Shell Oil Products US           |
|---------------------------------|
| Shell - branded Service Station |

BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED

Continued from Previous Page

MW-2R 17-Feb-11

TED 23-Fr

23-Feb-11

|                              | (mqq) Olq | BLOW<br>COUNTS | SAMPLE ID | EXTENT | DEPTH<br>(fbg)                        | U.S.C.S. | GRAPHIC<br>LOG | LITHOLOGIC DESCRIPTION | CONTACT<br>DEPTH (fbg) | . WEL | L DIAGRAM                    |
|------------------------------|-----------|----------------|-----------|--------|---------------------------------------|----------|----------------|------------------------|------------------------|-------|------------------------------|
|                              |           |                |           |        |                                       |          |                |                        | 45.0                   |       | Bottom of Boring<br>@ 45 fbg |
|                              |           |                |           |        |                                       |          | r ·            |                        |                        |       |                              |
| 5/25/11                      |           |                | •         |        |                                       |          |                |                        |                        |       |                              |
| DE5-1/240724.GPJ DEFAULT.GDT |           |                |           |        |                                       |          |                |                        |                        |       |                              |
| ELLIB-CHARS/2407/2407241/244 |           |                |           |        | · · · · · · · · · · · · · · · · · · · |          |                |                        |                        |       |                              |
| WELL LOG (PID) INSH          |           |                |           |        |                                       |          |                |                        |                        |       |                              |

| ر ا<br>رو آ <sup>نو</sup> ن  |                | -          | Con<br>590(         | estoga<br><u>) Ho</u> llis    | Rove<br>Stree         | rs & A<br><u>et, S</u> uil | ssociates<br>te A  |                                       | BORI         | NG                     | / WELL LOG                                      |
|--|----------------|------------|---------------------|-------------------------------|-----------------------|----------------------------|--------------------|---------------------------------------|--------------|------------------------|---|
| and the second s |                | - <u>(</u> | Eme<br>Tele<br>Fax: | eryville,<br>ephone:<br>510-4 | CA 9<br>510-<br>20-91 | 94608<br>-420-0<br>70      | 700                |                                       |              |                        |   |
| CLIENT   | NAME           | _          | Shei                | l Oil Pro                     | ducts                 | US                         |                    | BORING/WELL NAME                      | MW-2RB       |                        |   |
| JOB/SIT  | IE NAME        | _          | Shel                | I - branc                     | led Se                | rvice S                    | tation             | DRILLING STARTED                      | 17-Feb-11    |                        |   |
| LOCATI   | ON             | -          | 8999                | San R                         | amon I                | Road, I                    | Dublin, CA         | DRILLING COMPLETED                    | 22-Feb-11    |                        |   |
| PROJE  | CT NUME        | BER _      | 2407                | 724                           |                       |                            | <b>-</b>           | WELL DEVELOPMENT DA                   | ATE (YIELD)  | 11-Ma                  | y-11 (72.0 gallons)                             |
| DRILLE   | R              |            | Case                | cade Dri                      | illing, L             | P.                         |                    | GROUND SURFACE ELE                    | ATION _      | 415.97                 | / ft above ms!                                  |
| DRILLIN  | IG METH        | OD -       | Hollo               | ow-stem                       | auger                 | •                          |                    | TOP OF CASING ELEVAT                  | ION _        | 415.66                 | 5 ft above msl                                  |
| BORING   |                | FER -      |                     | Aarti                         |                       |                            |                    | SCREENED INTERVALS                    |              | 58 to 6                | 58 fbg  |
| REVIEW   | VEDBY          |            | P S                 | <u>narunez</u><br>chaefer     | PG#56                 | <br>612                    |                    | DEPTH TO WATER (FIRST                 | Encountered) | <br>22                 | <u>00 lbg</u> <u>-⊻</u><br>28 fbg (11-May-11) ▼ |
| REMAR  | KS             |            | Airkr               | nifed to :                    | 5 fba                 |                            |                    | DEPTH TO WATER (State                 | -1           |                        | 2010g (114/18/2-11) <u> </u>                    |
|  | •<br>• •       |            |                     |                               |                       | · · · · - · -              |                    | · · · · · · · · · · · · · · · · · · · |              | +                      |   |
| (mqq) CI'A   | BLOW<br>COUNTS | SAMPLE ID  | EXTENT              | DEPTH<br>(fbg)                | U.S.C.S.              | GRAPHIC<br>LOG             | LITHO              | DLOGIC DESCRIPTION                    |              | CONTACT<br>DEPTH (fbg) | WELL DIAGRAM                                    |
|  |                |            |                     |                               |                       |                            | See boring log MW- | 2RC for lithology.                    |              | 1                      |   |
|  |                |            |                     |                               |                       |                            |                    |                                       |              |                        |   |
| i  |                |            |                     |                               |                       |                            |                    |                                       |              |                        |   |
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|  |                |            |                     | <u>-</u> -                    |                       |                            |                    |                                       |              |                        |   |
|  |                |            |                     | L -                           |                       |                            |                    |                                       |              |                        |   |
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|  |                |            |                     | L .                           |                       |                            |                    |                                       |              |                        |   |
|  |                |            |                     |                               |                       |                            |                    |                                       |              |                        |   |
|  |                |            |                     | -15-                          |                       |                            |                    |                                       |              | 1                      |   |
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|  |                |            |                     | 20-                           |                       |                            |                    |                                       | ,            |                        |   |

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

|          | Conestoga Rovers & Associates |
|----------|-------------------------------|
| 1.9      | 5900 Hollis Street Suite A    |
|          |                               |
|          | Emeryville, CA 94608          |
|          | Telephone: 510-420-0700       |
| <i>x</i> | Fax: 510-420-9170             |

BORING / WELL LOG

CLIENT NAME JOB/SITE NAME LOCATION

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

Shell Oil Products US Shell - branded Service Station

8999 San Ramon Road, Dublin, CA

BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED

MW-2RB 17-Feb-11

D \_\_\_\_22-Feb-11

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| PID (ppm) | BLOW<br>BLOW | SAMPLE ID | EXTENT | DEPTH<br>(fbg) | U.S.C.S. | GRAPHIC<br>LOG | LITHOLOGIC DESCRIPTION | CONTACT<br>DEPTH (fbg) | WELL DIAGRAM         |
|-----------|--------------|-----------|--------|----------------|----------|----------------|------------------------|------------------------|----------------------|
|           |              |           |        |                |          |                | Ţ.                     |                        | ✓ Portland Type  /II |
|           |              |           |        | <br><br>       |          |                |                        |                        |                      |
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**BORING / WELL LOG** 

CLIENT NAME JOB/SITE NAME LOCATION

| Shell Oil Products US           |   |
|---------------------------------|---|
| Shell - branded Service Station |   |
| 8999 San Ramon Road, Dublin, C  | A |

BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED

Continued from Previous Page

MW-2RB 17-Feb-11

22-Feb-11

| 1000 100 100 100 100 100 100 100 100 10   | (mqq) Olq                             | BLOW<br>COUNTS | SAMPLE ID | EXTENT | DEPTH<br>(fbg) | U.S.C.S. | GRAPHIC<br>LOG | LITHOLOGIC DESCRIPTION | CONTACT<br>DEPTH (fbg) | WELL DIAGRAM   |
|---|---------------------------------------|----------------|-----------|--------|----------------|----------|----------------|------------------------|------------------------|--|
|   |                                       |                |           |        |                |          |                |                        |                        |  |
| 1990         -  |                                       |                | •         |        | 50             |          |                |                        |                        | ✓ 2" diam., Schedule   |
| 100         -         -         Monterey Send           200701-50000         -         -         -         -           -         -         -         -         -         -           -         -         -         -         -         -         -           -<   | CDT \$/25/11                          |                |           |        |                |          |                |                        |                        | Bentonite Seal   |
| Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>Coro-<br>C | -1244DE5-1240724.GPJ DEFAULT          |                |           |        |                |          |                |                        |                        | Monterey Sand<br>#2/12   |
|   | LOG (PID) INSHELLIG-CHARS/2407-240724 |                |           |        |                |          |                |                        |                        | <ul> <li>✓ 2"-diam., 0.010"<br/>Slotted Schedule 40<br/>PVC</li> </ul> |

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# **BORING / WELL LOG**

CLIENT NAME JOB/SITE NAME LOCATION

WELL LOG (PID) 1:1SHELLIS-CHARS/2407--1240724-1/244DES-1/240724.GPJ DEFAULT.GDT 5/25/11

Shell Oil Products US Shell - branded Service Station

8999 San Ramon Road, Dublin, CA

BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED

MW-2RB 17-Feb-11

22-Feb-11

Continued from Previous Page

| PID (ppm)                             | BLOW<br>COUNTS | SAMPLE ID | EXTENT | DEPTH<br>(fbg) | U.S.C.S. | GRAPHIC<br>LOG | LITHOLOGIC DESCRIPTION                | CONTACT<br>DEPTH (fbg) | WEL | L DIAGRAM                    |
|---------------------------------------|----------------|-----------|--------|----------------|----------|----------------|---------------------------------------|------------------------|-----|------------------------------|
|                                       |                |           |        |                |          |                |                                       | 68.0                   |     | Bottom of Boring<br>@ 68 fbg |
|                                       |                |           |        |                |          |                |                                       |                        |     |                              |
| · · · · · · · · · · · · · · · · · · · |                |           |        |                |          |                |                                       |                        |     |                              |
|                                       |                | -<br>-    |        |                |          |                |                                       |                        |     |                              |
|                                       |                |           |        | -              |          |                |                                       |                        |     |                              |
|                                       |                |           |        |                |          |                | · · · · · · · · · · · · · · · · · · · |                        |     |                              |

PAGE 4 OF 4



DEFAULT GDT WELL LOG (PID) I:\SHELL\6-CHARS\2407--\240724--1\240E5--1\240724.GPJ



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

| 2<br>2<br>2               |                        |           | Cor<br>590<br>Em<br>Tele | iestoga<br><del>0 Hollis</del><br>eryville<br>ephone | Rove<br>Stree<br>CA 9<br>510- | rs & A<br>et, Sui<br>94608<br>-420-0 | Associates<br>te A<br>1700 |  | BORI                             | NG                     | / WELL LOG   |
|---------------------------|------------------------|-----------|--------------------------|--|-------------------------------|--------------------------------------|----------------------------|--|----------------------------------|------------------------|--------------|
| CLIENT<br>JOB/SI<br>LOCAT | NAME<br>FE NAME<br>ION | -         | She<br>She<br>899        | ll Oil Pro<br>Il - bran<br>9 San R                   | ded Se                        | US<br>rvice S<br>Road,               | Station<br>Dublin, CA      | BORING/WELL NAME<br>DRILLING STARTED<br>DRILLING COMPLETED | MW-2RC<br>18-Feb-11<br>21-Feb-11 |                        |              |
| PID (ppm)                 | BLOW<br>COUNTS         | SAMPLE ID | CVTENIT                  | DEPTH<br>(fbg)                                       | U.S.C.S.                      | GRAPHIC<br>LOG                       | L                          | ITHOLOGIC DESCRIPTION                                      |                                  | CONTACT<br>DEPTH (fbg) | WELL DIAGRAM |
|                           |                        |           |                          |  |                               |                                      |                            |  |                                  | 43.3                   |              |

CLAY (CL): greenish black (10Y 2.5/1), moist, 60% clay, 40% silt, medium plasticity.

Sandy SILT (ML): dark grayish brown (10YR 4/2), moist, 10% clay, 60% silt, 25% fine sand, 5% fine gravel, low plasticity.

@ 55 fbg; <u>SILT with sand (ML):</u> brown (10YR 4/3), 25% clay, 60% silt, 15% fine sand.

<u>CLAY with sand (CH):</u> brown (10YR 4/3); moist, 75% clay, 10% silt, 15% fine sand, high plasticity.

48.3

58.3

63.3

----

# WELL LOG (PID) INSHELLIS-CHARS/2407-240724-1/2440E5-1/240724.GPJ DEFAULT.GDT 5/25/11

0.1

0.0

5/5/10

8/9/12

0*1*0/10

7/9/14

10/10/10

2.6

0.1

0,7

MW-2R C -45.5

MW-2R C -50.5

MW-2R C -55.5

MW-2R C -60.5

MW-2R C

ÇĿ

ML

50

-55-

-60

-65

CH

<u>SILT (ML):</u> light olive brown (2.5Y 5/4), moist, 25% clay, 70% silt, 5% fine sand, low plasticity. *Continued Next Page* 

**BORING / WELL LOG** 

CLIENT NAME JOB/SITE NAME LOCATION

Shell Oil Products US Shell - branded Service Station 8999 San Ramon Road, Dublin, CA

BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED

MW-2RC 18-Feb-11

21-Feb-11

Continued from Previous Page



|               | Coпestoga Rovers & Associates<br>5900 Hollis Street, Suite A         |                    | BORING    |
|---------------|--|--------------------|-----------|
|               | Emeryville, CA 94608<br>Telephone: 510-420-0700<br>Fax: 510-420-9170 |                    |           |
| 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 |

G / WELL LOG

Continued from Previous Page

CONTACT DEPTH (fbg) SAMPLE ID (mqq) BLOW GRAPHIC LOG EXTENT DEPTH (fbg) U.S.C.S. LITHOLOGIC DESCRIPTION WELL DIAGRAM ЦЦ 90 9/13/12 0.0 MW-2R C <u>SILT with sand (ML):</u> light olive brown (2.5Y 5/4), moist, 10% clay, 70% silt, 20% fine sand, low plasticity. -90.5 Bentonite Seal ML Monterey Sand #2/12 95 @ 95 fbg;Sandy SILT (ML): wet, 10% clay, 55% silt, 35% fine sand, 0/12/16 0.0 MW-2R C -95.5 98.3 SC Clavey SAND (SC): light olive gray (2.5YR 5/4), wet, 20% clay, 10% silt, 70% fine sand. 14/60 for 6' MW-2R C -100.5 0.0 2"-diam., 0.010" 101.4 Clavey GRAVEL with sand (GC): light olive gray (2.5YR 5/4), wet. Slotted Schedule 40 PVC GC 103.3 SAND with silt (SP-SM): weak red (2.5YR 4/2), wet, 10% silt, 90% coarse sand. SP SM 05 Clayey SAND (SC): light olive gray (2.5YR 5/4), wet, 20% clay, 10% silt, 70% fine sand. 12/50 for 6\* MW-2R C -105,5 0.3 106.0 Sandy CLAY with gravel (CL): weak red (2.5YR 4/2), moist, 50% clay, 30% coarse sand, 20% gravel, low plasticity. CL 108.3 ۰Q° Beckfilled with  $\mathcal{O}_{\mathcal{O}}^{\mathcal{O}}$ Bentonite,  $[\circ 0 \circ]$ GΡ bo d GRAVEL with sand (GP): weak red (2.5YR 4/2), wet, 5% clay, 15% coarse sand, 80% fine gravel. 3/3/4 MW-2R C -110.5 0:0 0 111.5 Continued Next Page

**BORING / WELL LOG** 

/

Bottom of Boring @ 111.5 fbg

WELL DIAGRAM

CONTACT DEPTH (fbg)

CLIENT NAME JOB/SITE NAME LOCATION

BLOW COUNTS

PID (ppm)

SAMPLE ID

EXTENT DEPTH (fbg)

Shell Oil Products US Shell - branded Service Station

U.S.C.S.

8999 San Ramon Road, Dublin, CA

GRAPHIC LOG

BORING/WELL NAME DRILLING STARTED

LITHOLOGIC DESCRIPTION

MW-2RC

DRILLING COMPLETED

Continued from Previous Page

| 18-Feb-11 |
|-----------|
| 21-Feb-11 |

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

|             |             |         |         |            |           |                  | 009.1 Client |           |        |           | Shell Oll Products US Well No: MW-3   |  |                                       |  |
|-------------|-------------|---------|---------|------------|-----------|------------------|--------------|-----------|--------|-----------|---------------------------------------|--|---------------------------------------|--|
|             |             |         |         | Project N  | lo:       | SJ89-99          | 5-1          |           | Cllen  | t:        | Shell OII Products                    |  | Pere 1 of 7                           |  |
|             |             | •       |         | Logged E   | By:       | Heather          | Buckinghe    | m         | Local  |           | 8999 San Ramon h                      | (a., Dublin                            | 1-age 1 01 2                          |  |
|             | \/          | ~ [·    | to      | Driller:   |           | Gregg            |              |           | Date   | Driffed:  | 5/6/2005                              | Location Map                           |                                       |  |
| IL          | 八           | 21      | ld      | Drilling M | lethod:   | HSA              |              |           | Hole   | Diamete   | r; 10 inch                            |  | e cite man                            |  |
|             |             |         |         | Sampling   | Method:   | CA Mod           | . Split Sho  | e         | Hole   | Depth:    | 26 ft                                 | Please se                              | e site map                            |  |
| Er Er       | ovir        | onme    | ental   | Casing T   | 'ype:     | PVC              |              |           | Weli   | Diamete   | r: 4 inch                             |  |                                       |  |
| Col         | ารน         | Itants  | s, Inc. | Slot Size  | ;         | 0.01             |              |           | Well   | Depth:    | 26 feet                               |  |                                       |  |
|             |             |         |         | Gravel P   | ack:      | #2/12            | r            | A1        | Casir  | ng stickt | ρ; ΝΑ<br>Ε <sup>μ</sup>               |  |                                       |  |
|             |             |         |         | •          | Elevation |                  |              | Norti     | ning   |           | easung                                |  |                                       |  |
| 44.0        |             |         |         |            |           | Τ                |              | T         | 0      |           |                                       |  |                                       |  |
| vveit       | Joint       | lietion | Static  | 3 H        | ă<br>ă    | (°.)             | eet          | Sa        | mple   | 置         |                                       |  |                                       |  |
| 픹           | ទីជ         |         | Water   | tsi di     | Rea       | ietra<br>wws.    | 5            | Ver       | val    | а<br>Т    | LIT                                   | HOLOGY                                 | / DESCRIPTION                         |  |
| act.        | (as)        |         | Level   | ğΰ         | ë,        | Б <sup>Р</sup> е |              | 8         | nter   | ŝ         |                                       |  |                                       |  |
| щ<br>ХХХХХХ | <del></del> |         |         | ļ          | U.        | <u> </u>         |              | <u>n</u>  |        | A 177     | A sub all Oll Dana wash               | 411                                    |                                       |  |
|             |             | _       |         |            |           |                  |              |           |        | Ar        | Asphalt 6", Base rock                 | . 4                                    | · · · · · · · · · · · · · · · · · · · |  |
|             | B           | · · · · |         | wei        |           |                  | 1            | <u>  </u> |        | SM        | Silty SAND: light bro                 | wn: 20-309                             | 6 silt: fine to coarse grained        |  |
|             | 8           | ******  |         |            |           |                  | -            |           |        | Olvi      | sand well graded                      | 1111 20 007                            |                                       |  |
|             |             |         |         |            |           |                  | 2            | <u> </u>  |        |           | bund, Hon gradou                      |  | · · · · · · · · · · · · · · · · · · · |  |
|             | 8           | _       |         |            |           | & Ped            |              |           |        |           |                                       | · · · · · · · · · · · · · · · · · · ·  |                                       |  |
|             | B           |         | •       |            |           | ger<br>Ger       | 3            | 1         |        | ····      |                                       |  | <u>,</u>                              |  |
| ***         |             |         |         |            |           | au               |              | 1         |        | CL        | Sandy Lean CLAY:                      | nedium bro                             | own mottled with                      |  |
|             |             |         |         | damp       |           | h tr             | 4            | 1         |        |           | orange; 70-80% fines                  | ; 20-30% f                             | ine grained sand in tan               |  |
|             |             |         |         |            |           | ع ه              |              |           |        |           | sand pockets; trace g                 | ravels up t                            | o 0.5" in diameter;                   |  |
| τ           | 81          |         |         |            | 1.8       |                  | 5            |           |        |           | moderate to high plas                 | sticity; soft                          |                                       |  |
| 68          |             |         |         |            |           |                  | 6.           |           |        |           |                                       |  |                                       |  |
| 2000        |             |         |         |            |           |                  | 0            |           |        |           |                                       |  |                                       |  |
|             | 8           |         |         |            |           | ↓                | 7            |           |        |           |                                       |  |                                       |  |
|             |             |         |         | dry        |           |                  | ,            |           |        |           |                                       | ······································ |                                       |  |
|             |             |         |         |            |           |                  | 8            |           |        |           |                                       |  |                                       |  |
| ***         |             |         |         |            |           |                  |              | <u> </u>  |        |           |                                       |  |                                       |  |
|             |             |         |         |            |           |                  | 9            | <b> </b>  |        |           |                                       |  | ·                                     |  |
|             |             |         |         |            |           |                  | -            |           | 20.000 |           |                                       |  |                                       |  |
|             |             |         |         | دسلم       | 0.5       | 8                | 10           |           |        |           |                                       |  |                                       |  |
| ****        |             |         |         | ary        | 0,5       | 10               | i            |           |        | ~         | Loop CLAV with Co.                    | adu madiun                             | a brown with orange                   |  |
|             |             |         |         |            |           | 10               | 11           |           |        | UL.       | mottling: 85 00% fine                 | 10, 11001011                           | fine drained sand in tan              |  |
|             |             | _       |         |            |           |                  |              |           |        |           | sand nackets: moder                   | ate nfacticit                          | v: soft                               |  |
|             |             | ·····   |         |            |           |                  | 12           |           |        |           | Balla pooreto, modere                 | ato plastion                           | y, 501(                               |  |
|             |             | ·       |         |            |           |                  | -            |           |        |           | ,                                     |  | 0)                                    |  |
|             |             |         |         | •          |           |                  | 13           |           |        |           | · · · · · · · · · · · · · · · · · · · |  |                                       |  |
|             | 8           | —       |         |            |           |                  | ·            | 1         |        |           |                                       |  | · · · · · · · · · · · · · · · · · · · |  |
|             |             |         |         |            |           |                  | 14           |           |        |           |                                       |  |                                       |  |
|             |             |         |         |            |           | 14               |              |           |        |           |                                       |  |                                       |  |
|             |             |         |         | dry        | 0.6       | 24               | 15           |           |        | CL        | Sandy Lean CLAY: I                    | nedium bro                             | own; 70-80% fines; 20-30%             |  |
|             |             |         |         |            |           | 36               | 16           |           |        |           | fine grained poorly gr                | aded sand                              | in tan sand pockets; slight           |  |
| ****        |             |         |         |            |           |                  | 10           |           |        |           | product odor; modera                  | te to high p                           | plasticity; stiff                     |  |
|             |             |         |         |            |           |                  | 17           |           |        |           |                                       |  | ·                                     |  |
|             |             |         |         |            |           | <u> </u>         |              |           |        |           |                                       |  |                                       |  |
|             |             |         |         |            |           |                  | 18           |           |        |           |                                       | "., "                                  |                                       |  |
|             |             |         |         |            |           |                  |              |           |        |           |                                       |  |                                       |  |
| БЩ,         |             |         | ·       |            |           |                  | 19—          | L         |        |           |                                       |  | · · · · · · · · · · · · · · · · · · · |  |
| ĘĘź         | 11          |         |         |            |           | 4.6              |              |           |        |           |                                       |  |                                       |  |
| K B Z       |             |         | <b></b> | الما       | 0.0       | 15               | 20           |           |        | <u></u>   | Loop OL AV with O                     | di nomo o                              | a abayou madium brown                 |  |
|             |             |         |         | ary        | 0,2       | 21               |              |           |        | UL        | Lean GLAT WITH Sar                    | iu, saiile a                           | s above, medium prown                 |  |
|             |             |         |         |            |           | 25               | 21           |           |        |           | with that to brown moth               | ແດ້ ຊາຍ                                |                                       |  |
|             | E           |         |         |            |           |                  |              |           |        |           |                                       |  |                                       |  |
|             | E           |         |         |            |           |                  | 22 —         |           |        |           |                                       |  |                                       |  |
|             |             |         |         | <u> </u>   |           | L                |              | Ι         |        |           |                                       |  |                                       |  |

|                   |                 |             |                 |                | رانا الالدمار مناسبته |              |           |          |                         |  |  |  |  |
|-------------------|-----------------|-------------|-----------------|----------------|-----------------------|--------------|-----------|----------|-------------------------|--|--|--|--|
|                   |                 | Project I   | No:             | SJ89-99        | 9S-1                  |              | Clien     | ıt;      | Shell Oil Products      | US Boring No: MW-3   |  |  |  |
|                   |                 | Logged      | Ву:             | Heather        | Buckingha             | m            | Loca      | tion:    | 6999 San Ramon F        | Rd., Dublin   Page 2 of 2  |  |  |  |
|                   | 10              | Driller:    |                 | Gregg          |                       |              | Date      | Drilled: | 5/6/2005                | Location Map   |  |  |  |
|                   | ld              | Drilling N  | Viethod:        | HSA            | 0                     | _            | Hole      | Diamete  | r: 10 Inch              | Blassa sas site man  |  |  |  |
|                   |                 | Samplin     | g Method:       | CA Mod         | l, Split Sho          | e            | Hole      | Depth:   | 25 ft                   | Please see site map  |  |  |  |
| Environm          | entai           | Casing      | Type:           | PVC            |                       |              | VVell     | Diameté  | r: 4)nch                | -  |  |  |  |
| Consultant        | s, Inc.         | Slot Size   | 9;<br>De el v   | 0,01           |                       |              | Well      | Depth:   | 26 R                    |  |  |  |  |
|                   |                 | Graver      | Flavation       | #2/12          | 1                     | Nort         | bing      | ių sucki | p. NA<br>Fastino        |  |  |  |  |
|                   |                 | ¦ .         |                 |                |                       | 140(4        | шâ        |          | Lasing                  |  |  |  |  |
| Well Completion   |                 | 1           | 2               | 6.0            | 6                     | 0.0          | u n l n   |          |                         | and and a second s |  |  |  |
|                   | Static          | tert        | n in the second | solution<br>19 | (fee                  |              | npie<br>- | ,<br>Ур  | LITHOLOGY / DESCRIPTION |  |  |  |  |
| Sin Si            | vvater<br>Level | sion<br>Con | L A B           | shet<br>Slow   | b                     | ove<br>ove   | ena       | lio      |                         | HOLOGY / DESCRIPTION   |  |  |  |
| မီးပီ             |                 |             | Ē               | a e            | ŏ                     | Rec          | Ē         | 67       |                         |  |  |  |  |
|                   |                 |             | _               |                | [                     |              |           | CL       | Lean CLAY with Sa       | nd: continued  |  |  |  |
|                   |                 |             |                 |                | 23                    |              |           |          |                         |  |  |  |  |
|                   |                 |             |                 |                |                       | <u> </u>     |           |          |                         |  |  |  |  |
| S =               |                 |             | 1               |                | 24                    |              |           |          |                         |  |  |  |  |
| - 12              |                 |             |                 |                | _                     |              |           |          |                         | ·  |  |  |  |
| Ξ                 |                 | day         | 0.7             | 9              | 25                    |              |           |          | Sandy Loop CLAV:        | grov: 60 70% fings: 20 40% cand:   |  |  |  |
|                   |                 |             | 0.7             | 27             | -                     | heity: stiff |           |          |                         |  |  |  |  |
|                   |                 |             |                 | 1 - 1          | 26                    |              |           |          | Boring terminated at    | 26 feet below ground surface   |  |  |  |
|                   |                 |             |                 |                |                       |              |           |          |                         |  |  |  |  |
|                   |                 |             |                 |                | 27                    |              |           | •        | 1                       | · · · · · · · · · · · · · · · · · · ·  |  |  |  |
|                   |                 |             |                 |                | 28                    |              |           |          |                         | -  |  |  |  |
|                   |                 |             |                 |                | 20                    |              |           |          |                         |  |  |  |  |
|                   |                 |             |                 | ·              | 29                    | L            |           |          |                         |  |  |  |  |
| _                 |                 |             |                 |                |                       | <b> </b>     |           |          |                         |  |  |  |  |
|                   |                 |             |                 |                | 30                    |              |           |          |                         |  |  |  |  |
|                   |                 |             |                 |                | · <u> </u>            |              |           |          |                         |  |  |  |  |
|                   | • .             |             | ·               |                | 31                    |              |           |          |                         |  |  |  |  |
|                   | •               |             |                 |                |                       |              |           |          |                         |  |  |  |  |
| - 17-54-91 (***** |                 |             |                 |                | 32                    |              |           |          |                         |  |  |  |  |
|                   |                 |             | ·               |                | 33                    |              |           |          |                         |  |  |  |  |
|                   |                 |             |                 |                |                       |              |           |          |                         |  |  |  |  |
|                   |                 |             |                 |                | 34                    |              |           |          |                         |  |  |  |  |
|                   |                 |             |                 |                |                       |              |           |          |                         |  |  |  |  |
|                   |                 |             |                 |                | 35                    |              |           |          |                         |  |  |  |  |
|                   |                 |             |                 |                | —<br>—                |              |           |          | <u></u>                 |  |  |  |  |
| l — [             |                 |             | ,               |                | 36                    |              | {         |          |                         |  |  |  |  |
| —                 |                 |             |                 |                |                       |              |           |          |                         |  |  |  |  |
|                   |                 |             |                 |                | 3/                    |              |           |          |                         |  |  |  |  |
|                   |                 |             |                 |                | 38                    |              |           |          |                         |  |  |  |  |
|                   |                 |             |                 |                |                       |              |           |          |                         |  |  |  |  |
|                   |                 |             |                 |                | 39                    |              |           |          |                         | ·  |  |  |  |
|                   |                 |             |                 |                |                       |              |           |          |                         | ······································   |  |  |  |
|                   |                 |             |                 |                | 40                    |              |           |          |                         |  |  |  |  |
|                   |                 |             |                 |                |                       |              |           |          |                         | · · · · · · · · · · · · · · · · · · ·  |  |  |  |
|                   |                 |             |                 |                | 41                    |              |           |          | <u> </u>                |  |  |  |  |
| -                 |                 |             |                 |                | 42                    |              |           |          |                         | · · · · · · · · · · · · · · · · · · ·  |  |  |  |
|                   |                 |             |                 |                | 42                    |              |           | ĺ        |                         |  |  |  |  |
|                   |                 |             |                 |                | 43 —                  |              |           |          |                         |  |  |  |  |
|                   |                 |             |                 |                |                       |              |           |          |                         |  |  |  |  |
|                   |                 | ĺ           |                 |                | 44                    |              |           | ŀ        |                         |  |  |  |  |
|                   |                 |             |                 |                |                       |              |           |          |                         |  |  |  |  |



| Er<br>Cor<br>Well C | )el<br>nvironmo<br>nsultant | ta<br>ental<br>s, Inc. | Project I<br>Logged<br>Driller:<br>Drilling N<br>Samplin<br>Casing T<br>Slot Size<br>Gravel P | No:<br>By:<br>Method:<br>g Method:<br>Type:<br>e:<br>e:<br>Pack:<br>Elevation | SJ89-99<br>Heather<br>Gregg<br>HSA<br>CA Mod<br>PVC<br>0.01<br>#2/12 | 98-1<br>Buckingham<br>I. Spilt Shoe<br>No<br>B | Clien<br>Loca<br>Date<br>Hole<br>Hole<br>Well<br>Cash | at;<br>Drilled;<br>Diamete<br>Depth;<br>Diamete<br>Depth;<br>ng Sticku | Shell Oil Products L<br>8999 San Ramon R<br>5/6/2005<br>r: 10 inch<br>27 ft<br>r: 4 inch<br>27 feet<br>p: NA<br>Easting | Shell Oil Products US     Well No: MW-4       8999 San Ramon Rd., Dublin     Page 1 of 2       5/6/2005     Location Map       10 inch     Please see site map       4 inch     27 fet       27 feet     NA       Easting     Easting |   |  |  |
|---------------------|-----------------------------|------------------------|---|---|--|--|---|--|---|---|---|--|--|
| Backfill'           | Casing                      | Water<br>Level         | Moistur<br>Conter   | PID Read<br>(ppm)   | Penetrat<br>(blows/f   | Depth (fe                                      | Interval  | Soil Typ   | LIT   | HOLOGY  | / DESCRIPTION   |  |  |
|                     |                             |                        | wet   |   | ir knifed &  |  |   | AF<br>SM<br>CL   | Asphalt 6", Base rock<br>Silty SAND: light brow<br>sand, well graded<br>Sandy Lean CLAY: n<br>orange: 70-80% fines:     | 4"<br>wn; 20-30%<br>nedium bro<br>: 20-30% f  | % silt; fine to coarse grained<br>own mottled with<br>ine grained sand in tan |  |  |
| Grout               |                             |                        | dry   | 3   | •<br>■<br>■<br>■   |  |   |  | sand pockets; trace gi<br>moderate to high plas   | ravels up t<br>ticity; soft   | o 0,5" in diameter;   |  |  |
|                     |                             |                        | dry   | 1.3   | 8<br>10<br>16  | 9  |   | CL   | Lean CLAY with San<br>mottling; 85-90% fines<br>sand pockets; modera  | id: medium<br>s; 10-15%<br>ite plasticit  | n brown with orange<br>fine grained sand in tan<br>ty; soft                   |  |  |
|                     |                             |                        | dry   | 0.7   | 14<br>24<br>36   | 13<br>14<br>15<br>16<br>17<br>18               |   | CL   | Sandy Lean CLAY: g<br>75-80% fines; 25-30%<br>tan sand pockets; moc   | rey mottlee<br>fine grain<br>derate to h  | d with medium brown;<br>ed poorly graded sand in<br>igh plasticity; stiff     |  |  |
| Bentonite           |                             | ¥                      | moist   | 0.7   | 15<br>21<br>25   | 19   |   |  | (Same as above<br>diameter)   | e, trace gra  | avels up to 0.5 cm in   |  |  |

|                 |         | In the second second | 1          | 0.100.00   | S-4 Cilent        |              |  |                      | Shall Oil Products                     | 119                                    | Boring No: MW-4                        |  |  |
|-----------------|---------|----------------------|------------|------------|-------------------|--------------|--|----------------------|--|--|--|--|--|
|                 |         | Project N            | 10:<br>7   | SJ89-99    | 15-1<br>Ruckioght | 104          | Clien  | tion:                | Siteli Oli Producis<br>8000 San Ramon  | 03<br>Rd Dublia                        | Page 2 of 2                            |  |  |
| I               |         | Drillor              | Эγ.        | Grenn      | Duckinging        |              | Date   | Drilled <sup>,</sup> | 5/6/2005                               | f coation Map                          | 1.4902 01 2                            |  |  |
|                 | ta      | Drilling N           | lethod:    | HSA        |                   |              | Hole   | Diamete              | r: 10 inch                             | Loballon map                           |  |  |  |
|                 | a       | Samplin              | Method:    | CA Mod     | . Split Sho       | 9            | Hole   | Depth:               | 27 ft                                  | Please s                               | ee site map                            |  |  |
| Environm        | ental   | Casing 1             | voa:       | PVC        | 1- 11 - 11 - 11 - | -            | Well   | Dlamete              | r; 4 inch                              |  | ·                                      |  |  |
| Consultant      | s. inc. | Siot Size            | 2F         | 0.01       |                   |              | Well   | Depth:               | 27 ft                                  |  |  |  |  |
|                 | -,      | Gravel P             | ack:       | #2/12      |                   |              | Caslı  | ng Stioki            | ip: NA                                 |  |  |  |  |
|                 |         |                      | Elevation  |            |                   | Nort         | hing   |                      | Easting                                |  |  |  |  |
|                 |         |                      |            | <u></u>    |                   | 1            |  |                      |  | ļ                                      |  |  |  |
| Well Completion | Static  | e t                  | eding<br>( | (je        | (teet)            | Sa           | mple   | ype                  |  |  |  |  |  |
| ELL De la       | Water   | oistu                | Rea        | netra      | )<br>fe           | Ver          | Raj  | 110                  | Lſ                                     | THOLOGY                                | / DESCRIPTION                          |  |  |
| Cas             | Levei   | ΣŬ                   | 014<br>014 | <u>e</u> E | Del               | N N N        | Inte   | Ň                    |  |  |  |  |  |
|                 |         |                      |            |            |                   |              | 1  |                      | Sandy Lean CLAY:                       | continued                              |  |  |  |
|                 |         |                      |            |            |                   |              |  | CL                   |  |  |  |  |  |
|                 |         |                      |            |            | 23                |              |  | ]                    |  |  |  |  |  |
|                 |         |                      |            |            | 24                |              |  |                      |  |  |  |  |  |
|                 |         |                      |            |            |                   |              |  |                      |  |  |  |  |  |
|                 |         |                      |            | 9          | 25                |              |  |                      |  |  |  |  |  |
|                 |         | wet                  | 0,4        | 27         | ·                 |              |  |                      | Lean CLAY with Sa                      | nd: mediu                              | m brown with arey mottling:            |  |  |
|                 |         |                      |            | 21         | 26 —              |              |  | CI                   | grev: 85-90% fines:                    | 10-15% sar                             | nd: moderate plasticity: stiff         |  |  |
| —<br>—          |         |                      |            |            |                   |              |  |                      | Boring terminated at                   | 27 feet be                             | low ground surface                     |  |  |
|                 |         |                      |            |            | 27                |              |  |                      |  |  |  |  |  |
|                 |         |                      |            |            |                   |              |  | 1                    | ······                                 |  |  |  |  |
|                 |         |                      |            |            | 20                |              |  | ]                    |  |  |  |  |  |
|                 |         |                      |            |            | 29                |              |  |                      |  |  |  |  |  |
|                 |         |                      |            |            |                   | <b>_</b>     |  |                      |  |  |  |  |  |
| ·               |         |                      | •          | -          | 30                | -            |  |                      |  |  |  |  |  |
|                 |         |                      |            |            |                   |              |  |                      |  |  |  |  |  |
|                 |         |                      |            |            | 31                | +            |  |                      |  |  |  |  |  |
|                 |         |                      |            |            | -                 |              |  |                      |  |  |  |  |  |
|                 |         |                      |            |            | 32                |              |  |                      | ****                                   |  |  |  |  |
| _               |         |                      |            |            | 22                |              |  |                      |  |  |  |  |  |
|                 |         |                      |            |            |                   |              |  |                      |  |  |  |  |  |
| ·               | •       |                      |            |            | 34                |              |  |                      |  | ·                                      | •<br>                                  |  |  |
|                 |         |                      |            |            | -                 |              |  |                      |  | محمده مستجمعه فالمناب وسنواحه ومستواحه |  |  |  |
|                 |         |                      | ,          |            | 35                | +            |  |                      | ······································ |  |  |  |  |
|                 |         |                      |            |            |                   | +            |  |                      |  |  |  |  |  |
|                 |         |                      |            |            | 36                | ╎──          | <u> </u>                                     |                      |  |  |  |  |  |
|                 |         |                      |            |            |                   |              |  |                      |  |  |  |  |  |
|                 |         |                      |            |            | 3/                |              |  |                      | . *                                    |  |  |  |  |
|                 |         |                      |            |            | 38                |              |  |                      | ······································ |  | <u> </u>                               |  |  |
|                 |         |                      |            |            | <sup>00</sup> _   | <u> </u>     |  |                      |  |  |  |  |  |
|                 |         |                      |            |            | 39                |              |  |                      | <u> </u>                               |  |  |  |  |
| _               |         |                      |            |            |                   |              |  |                      |  |  |  |  |  |
| ·               |         |                      |            |            | 40                |              |  |                      |  |  | ······································ |  |  |
|                 |         |                      |            |            |                   | $\vdash$     |  |                      | · · · · · · · · · · · · · · · · · · ·  |  |  |  |  |
|                 |         |                      |            |            | 41                | <u>† – –</u> | <b> </b>                                     |                      |  |  |  |  |  |
|                 |         |                      |            |            | 12                |              |  |                      |  |  |  |  |  |
|                 |         |                      |            |            | 74                |              |  |                      |  |  | <u></u>                                |  |  |
|                 |         |                      |            |            | 43                | ļ            |  |                      |  |  |  |  |  |
| ] _             |         |                      |            |            |                   |              | <u>                                     </u> |                      |  |  |  |  |  |
|                 |         |                      |            |            | 44                |              |  |                      |  | ·                                      |  |  |  |
|                 |         |                      |            |            |                   | <u> </u>     | [  | L                    | ·                                      |  |  |  |  |

|        |       |             |         | Project N    | No:       | SJ89-99S-1    |                  |                  | Clien       | t:       | Shell Oil Products US Well No: MW-5 |                 |   |  |  |  |
|--------|-------|-------------|---------|--------------|-----------|---------------|------------------|------------------|-------------|----------|-------------------------------------|-----------------|---|--|--|--|
|        |       |             |         | Logged       | By:       | Andy Pe       | ersio            |                  | Loca        | tion:    | 8999 San Ramon                      | F               | Page 1 of 2   |  |  |  |
|        |       | <b>.</b>  . | 1-      | Driller:     |           | Gregg         |                  |                  | Date        | Drilled: | 7/26&28/06                          | Location Map    |   |  |  |  |
|        | JE    | - I         | I.      | Drilling N   | /lethod:  | HSA/ AF       | <b>&lt;</b> (7') |                  | Hole        | Diamete  | er: 12"/10"                         |                 |   |  |  |  |
|        |       |             |         | Samplin      | g Method: | SS            |                  |                  | Hole        | Depth:   | 28'                                 | Please see      | site map  |  |  |  |
| En     | vir   | onme        | ental   | Casing 1     | Гуре:     | Sch 40 I      | PVC              |                  | Well        | Diamete  | er: 4"                              |                 |   |  |  |  |
| Cor    | nsul  | ltant       | s, Inc. | Slot Size    | ə:        | 0.01          |                  |                  | Well        | Depth:   | 28'                                 |                 |   |  |  |  |
|        |       |             |         | Gravel F     | ack:      | #2/12 sa      | and              | Casing Sticku    |             |          | up: NA                              |                 |   |  |  |  |
|        |       |             |         |              | Elevation |               |                  | North            | ning        |          | Easting                             |                 |   |  |  |  |
| ļ,     | Well  |             |         |              |           |               |                  |                  |             | <u>.</u> |                                     |                 |   |  |  |  |
| Cor    | nplet | tion        | Static  | e te         | ding      | ē 💭           | et)              | Sample <u>e</u>  |             |          |                                     |                 |   |  |  |  |
|        | p     |             | Water   | istu<br>ntei | Rea(      | etrat<br>ws/i | ц<br>ц           | ery              | al          | Ţ        | LI1                                 | HOLOGY / D      | ESCRIPTION  |  |  |  |
| ack    | asil  |             | Level   | မီဂ          | d d       | (blo          | )ept             | S<br>S           | ter         | Soil     |                                     |                 |   |  |  |  |
|        |       |             |         |              | <u>م</u>  | <u> </u>      |                  | Re               | 5           |          |                                     |                 |   |  |  |  |
|        |       |             |         |              |           |               | -                |                  |             | AF       | ~3" asphalt, and ~3" I              | baserock        |   |  |  |  |
|        |       |             |         |              |           |               | 1—               | _                |             |          | ····                                |                 |   |  |  |  |
|        |       |             |         |              |           |               | -                |                  |             |          |                                     |                 |   |  |  |  |
|        |       |             |         |              |           |               | 2                |                  |             |          |                                     |                 |   |  |  |  |
|        |       | _           |         |              |           | ज छ           | -                |                  | · · · · · · |          |                                     |                 |   |  |  |  |
|        |       |             |         |              |           | je je         | 3—               | -                |             |          |                                     |                 |   |  |  |  |
|        |       |             |         |              |           | au            | -                |                  |             |          |                                     |                 | ·   |  |  |  |
|        |       |             |         |              |           | ъ Б           | 4                |                  |             |          |                                     |                 |   |  |  |  |
|        |       | _           |         | moist        | 0.5       | _ه_ه_         |                  |                  | •           | CL       | sandy lean CLAY: da                 | ark brown, stil | ff. 20-30% fine to  |  |  |  |
| nt     |       |             |         |              |           |               | 5-               |                  |             |          | medium grained sand                 | s, low plastic  | ity   |  |  |  |
| 20     |       |             |         |              |           |               | 6                |                  |             |          |                                     | · · · ·         | ,   |  |  |  |
|        |       |             |         |              |           |               | 0-               |                  |             |          |                                     |                 | · · · · · · · · · · · · · · · · · · ·   |  |  |  |
|        |       |             |         |              |           | ↓             | 7                |                  |             |          |                                     |                 |   |  |  |  |
|        |       |             |         |              |           |               | ' _              |                  |             |          | · ·····                             |                 |   |  |  |  |
|        |       |             |         |              |           |               | 8—               |                  |             | · ``.    |                                     |                 |   |  |  |  |
|        |       |             |         |              |           |               | -                | (THE SAME STORE) |             |          |                                     | ·               | and the data and the |  |  |  |
|        |       |             |         | moint        | 0.2       | 4             | 9—               |                  | -T-         | SC       | clayey SAND: dark b                 | rown, mediun    | n dense, 30-40% fines,  |  |  |  |
|        |       |             |         | moist        | 0.5       | 10            | -                |                  |             |          | 5-15% gravels up to t               | 0.5° D-axis dia | meter, no plasticity  |  |  |  |
|        |       |             |         |              |           |               | 10—              |                  |             |          |                                     |                 | 97. #197. www.base  |  |  |  |
|        |       |             |         |              |           |               | -                |                  |             |          |                                     |                 |   |  |  |  |
|        |       |             |         |              |           |               | 11               |                  |             |          |                                     |                 | 14 / A - 1  |  |  |  |
|        |       |             |         |              |           |               | 4.0              |                  |             |          | hi i na                             |                 | 1   |  |  |  |
|        |       |             |         |              |           |               | 12               |                  |             |          | ·                                   |                 | · · · · · · · · · · · · · · · · · · ·   |  |  |  |
|        |       |             |         |              |           |               | 12               |                  |             |          |                                     |                 | · · · · · · · · · · · · · · · · · · ·   |  |  |  |
|        |       |             |         |              |           |               | 13-              |                  |             | · ``、    |                                     |                 | · · · · · · · · · · · · · · · · · · ·   |  |  |  |
|        |       |             |         |              | •         | 4             | 14               |                  |             | CL       | sandy lean CLAY: da                 | ark brown, ve   | ry stiff, 25-35% fine   |  |  |  |
|        |       |             |         | moist        | 11.2      | 7             | <u>-</u>         | - 15             |             |          | grained sands, low pl               | asticity        |   |  |  |  |
|        |       |             |         |              |           | 10            | 15               |                  |             |          |                                     |                 |   |  |  |  |
|        |       | _           |         |              |           |               |                  |                  |             |          |                                     |                 | nn  |  |  |  |
|        |       |             |         |              |           |               | 16—              |                  |             |          |                                     |                 |   |  |  |  |
| Jite   |       |             |         |              |           |               | -                |                  |             |          |                                     |                 | • • • • • • • • • • • • • • • • • • •   |  |  |  |
|        |       | ·····       |         |              |           |               | 17 —             |                  |             |          |                                     |                 |   |  |  |  |
| Be     |       |             |         |              |           |               | -                |                  |             |          |                                     |                 |   |  |  |  |
| ananta |       |             |         |              |           |               | 18               |                  |             |          | ······                              |                 |   |  |  |  |
|        |       |             | ,       |              |           | 9             | -                |                  |             |          | 30-40% fine ar                      | ained sands     | hard  |  |  |  |
|        |       |             |         | moist        | 11.6      | 13            | 19               |                  |             |          |                                     |                 | · · - · , 🕶   |  |  |  |
|        |       |             |         |              |           | 16            | 20               |                  | <b>V</b>    |          |                                     |                 | 10 las 11   |  |  |  |
|        |       |             | -       | _            |           |               |                  |                  |             |          |                                     |                 |   |  |  |  |

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|           |        |         | Project N  | NO.                        | S.189-99  | IS-1               |      | Clien    | ut-               | Shell Oil Products  | US Well No: MW-5                        |
|-----------|--------|---------|------------|----------------------------|-----------|--------------------|------|----------|-------------------|---|---|
|           |        |         | Logged     | Bv:                        | Andy Pe   | ersio              |      | Loca     | tion <sup>.</sup> | 8999 San Ramon  | Page 2 of 2                             |
|           |        | 4       | Driller:   | -,,                        | Grega     |                    |      | Date     | Drilled           | 7/26&28/06  |   |
| )/        | ٦l     | ta      | Drilling N | lethod:                    | HSA/AR    | ( <b>7</b> '\      |      | Hole     | Diamete           | 1720020/00  | Location Map                            |
|           |        | la      | Samplin    | a Method:                  |           | <b>(</b> <i>()</i> |      | Hole     | Donth             | 2010<br>201   | Please see site man                     |
| Envir     |        | ntol    |            | g Methou.                  | 0-1 401   |                    |      | - HUIE   | Deptil.           | 20  | riease see site map                     |
|           | Unme   | ental   | Casing I   | ype:                       | Sch 401   | -00                |      | vven     | Diamete           | ir: 4"  |   |
| Consu     | itants | s, inc. | SIDE SIZE  | ).<br>Na alvi              | 0.01      |                    |      | vveii    | Deptn:            | 28  |   |
|           |        |         | Graver     | ack:                       | #2/12 \$8 | ina<br>T           | N1   | Casi     | ng Sticki         | up; NA  |   |
|           |        |         |            | Elevation                  |           |                    | NOR  | ning     |                   | Easting   |   |
| We        | 1      |         |            |                            | -         |                    |      |          | r                 |   | [                                       |
| Comple    | tion   | Static  | e te       | ling                       | ي<br>آو   | et)                | Sa   | mple     | e a               |   |   |
| .≣ თ      |        | Water   | stur       | eac<br>om)                 | vs/6      | ) (fe              | ≿    | <u>_</u> | 1 Å               | <br>  | HOLOGY / DESCRIPTION                    |
| asin ackf |        | Level   | Col Moi    | ы<br>В<br>С<br>В<br>С<br>В | plov      | apt                | Š    | Ë        | soi l             |   |   |
| မိုပ်မို  |        |         | _          | Ы                          | l ₫ ⇒     | ď                  | Rec  | Int      |                   |   |   |
|           |        |         |            |                            |           |                    |      |          | CL                | sandy lean CLAY (co   | ont.)                                   |
|           |        |         |            |                            |           | 04                 |      |          | 1                 | ·   | · · · ·                                 |
|           |        |         |            |                            |           | 21-                |      | †        | 1                 | PAL STRUCTURE STRUCTURE   | ······                                  |
|           |        |         |            |                            |           | 00                 | _    |          | 1                 |   |   |
|           |        |         |            |                            |           | 22 -               |      |          | 1                 |   |   |
|           |        | •       |            |                            |           | 0.0                |      |          | 1                 | 107 at an income on a   |   |
|           |        |         |            |                            |           | 23-                |      | 1        | 1                 |   | · · · · · · · · · · · · · · · · · · ·   |
|           | 24.1   | ' 🔻     | 1:45p      |                            | 6         |                    | - 16 | •        | 1                 | very stiff  |   |
|           |        | V       |            |                            | 10        | 24                 |      |          | 1                 |   |   |
|           |        |         | moist      | 2.3                        | 10        | 0.5                |      |          | 1                 | ~~~   |   |
| 2         |        |         |            |                            |           | 25-                |      | <u> </u> | 1.                |   |   |
| Sar       |        |         |            |                            |           | 26-                | +    |          |                   |   |   |
|           |        |         |            |                            |           | 26 -               |      |          | sc`               | clayey SAND: brown  | medium dense, 30-40% fines, trace       |
|           |        |         |            |                            | 10        | 07                 | P    | •        | 1                 | gravels up to 0.5" b-a  | xis diameter, no plasticity             |
|           |        |         | moist      | 8.8                        | 15        | 27 -               |      |          | 1                 |   |   |
|           |        |         |            |                            | 15        |                    |      | ╡╁╴      | 1                 | 99 * 10 * 1 d da  |   |
| ********* |        |         |            |                            |           | 28-                |      | <u> </u> |                   | Bottom of borir   | ng terminated at 28 feet bg             |
|           |        |         |            |                            |           | 00                 |      |          | 1                 | **************************************  | <u> </u>                                |
|           |        |         |            |                            |           | 29 -               |      |          |                   | ······································  |   |
|           |        |         |            |                            |           | 20                 |      | 1        | 1                 | Wardan  |   |
|           |        | -       |            |                            |           | 30                 |      |          | 1                 |   |   |
|           |        |         |            |                            |           | 24                 |      |          | 1                 |   | 11 - 14 - 14 - 14 - 14 - 14 - 14 - 14 - |
|           |        |         |            |                            |           | 31-                |      |          | 1                 | ·····   |   |
|           |        |         |            |                            |           | 20                 |      |          | 1                 |   |   |
|           |        |         |            |                            |           | 32 -               |      |          | 1                 |   |   |
|           |        |         |            |                            |           | 22                 |      |          | ]                 |   |   |
|           |        |         |            |                            |           | 33-                |      |          | ]                 |   | · · · · · · · · · · · · · · · · · · ·   |
|           |        |         |            |                            |           | 24                 |      |          |                   |   |   |
|           |        |         |            |                            |           | 34 -               |      |          |                   |   |   |
| 1         |        |         |            |                            |           | 25-                |      |          |                   |   |   |
|           |        |         |            |                            |           | 30 -               |      |          | 1                 |   |   |
|           |        |         |            |                            |           | 26                 |      |          | ]                 |   |   |
|           |        |         |            |                            |           | 30 -               |      |          | ]                 | in the the second se | · · · · · · · · · · · · · · · · · · ·   |
|           |        |         |            |                            |           | 27                 |      |          | ]                 |   |   |
|           |        |         |            |                            | [         | 37 -               |      |          | ]                 | - · · ·   |   |
|           |        |         |            |                            |           | 20                 |      |          | ]                 |   |   |
|           |        |         |            |                            |           | 30 -               |      |          | ]                 |   |   |
|           |        |         |            |                            |           | 20                 |      |          | ]                 |   |   |
|           |        |         |            |                            |           | 39 -               |      |          | ]                 |   |   |
|           |        |         |            |                            |           | 40                 |      |          |                   |   |   |
|           |        |         | ·          |                            |           |                    |      | ×        |                   | · · · · · · · · · · · · · · · · · · ·   |   |

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|                          |                                       |         | Drojo ot N | Lev C 100 00 | 1                  |                 |   | Client'   |            |  | 110                | ANT-U MAL AMALO            |  |
|--------------------------|---------------------------------------|---------|------------|--------------|--------------------|-----------------|---|-----------|------------|--|--------------------|----------------------------|--|
|                          |                                       |         |            | 10.2308-88   |                    |                 |   | Clien     | 1.<br>     | Shell Oil Products                     | 05                 |                            |  |
|                          | _                                     |         |            | зу: Апау Р   | ersio              |                 |   | Loca      | uon:       | 8999 San Ramon, Dublin,CA              |                    | Page 1 of 2                |  |
|                          |                                       | ta      | Driller: G | regg         |                    | _               |   | Date      | Drilled:   | 2/21/2006                              | Location Map       |                            |  |
| L                        | <b>U</b>                              | la      | Drilling N | lethod: WK   | to 77HS            | A               |   | Hole      | Diamete    | er: 12" - 10"                          |                    |                            |  |
|                          |                                       |         | Sampling   | 3 Method: I  | HA/SS              |                 |   | Hole      | Depth:     | 7'/30'                                 | Please se          | e site map                 |  |
| Env                      | ironme                                | ental   | Casing T   | 'ype: SCh⊿   | 40 PVC             |                 |   | Well      | Diamete    | ₽4"                                    |                    |                            |  |
| Cons                     | ultants                               | s, Inc. | Slot Size  | : 0.01       |                    |                 |   | Well      | Depth:     | 30'                                    |                    |                            |  |
|                          |                                       |         | Gravel P   | ack: 2/12/ : | sand               |                 |   | Casir     | ng Stick   | up: 0                                  |                    |                            |  |
|                          |                                       |         |            | Elevation    |                    |                 | Nortl                                   | ning      |            | Easting                                |                    |                            |  |
|                          |                                       | ·····   |            |              |                    |                 |   |           |            |  |                    |                            |  |
| vv<br>Comn               | ell<br>Jetion                         |         |            | бu           | 50                 | E               | Sa                                      | mole      | a)         |  |                    |                            |  |
| – –                      |                                       | Static  | tent       | m) sadi      | ratic<br>s/6'      | (fe             | 2                                       |           | ,<br>Ā     |  |                    |                            |  |
| Kfil 2                   |                                       | vvater  | io Ii      | Pp<br>Pp     | low.               | EF              |   | Z<br>a    | L lic      | LI                                     | HOLOGY             | DESCRIPTION                |  |
| S Ba                     | ά<br>Σ                                | Level   | ≥ 0        |              | De<br>De           |                 | ec                                      | Inte      | Ň          |  |                    |                            |  |
|                          | 1                                     |         |            |              |                    |                 |   |           |            | ~6" asphalt and basaroo                | k                  |                            |  |
|                          |                                       |         |            |              | ΙŢ                 | -               | _                                       |           |            |  | ĸ                  |                            |  |
|                          |                                       |         |            |              |                    | 1—              | _                                       |           |            | andy lean CLAY: dark                   | arou 40 El         | 00/ fine to med arrained   |  |
|                          |                                       |         | domn       | 20 F         |                    | -               | and the second second                   |           | UL.        | sandy lean CLAT: dark                  | grey, 40-5         | 0% fine to med. grained    |  |
|                          | ——                                    |         | uamp       | 32.5         |                    | 2               |   |           |            | sands, med.plasticity                  |                    |                            |  |
|                          |                                       |         |            |              | 7                  | -               | _                                       |           |            |  | · <u> </u>         |                            |  |
|                          |                                       |         |            |              | d 8<br>ere         | 3               |   |           |            |  |                    |                            |  |
|                          |                                       |         |            |              | rg<br>ife          |                 | 200000000000                            |           |            |  |                    |                            |  |
|                          |                                       |         | damp       | 18.5         | 20                 | 4               | 190                                     | <b>\$</b> |            | dark brown, 35                         | <u>-45% fine t</u> | o med. grained sands       |  |
|                          |                                       |         |            |              | a i                |                 |   |           |            |  |                    |                            |  |
|                          |                                       |         |            |              | ق <sub>ا</sub> ت ا | 5_              |   |           |            |  |                    |                            |  |
| ng 🛛                     |                                       |         |            |              |                    |                 |   |           |            |  |                    |                            |  |
| 5                        |                                       |         | damp       | 50.6         |                    | 6               |   | •         |            | orangish browr                         | ı, 40-50% <b>f</b> | ine to med. grained sands  |  |
|                          |                                       |         |            |              |                    | 0-              |   |           |            |  |                    |                            |  |
|                          |                                       |         |            |              | ↓                  |                 |   |           |            | ······································ |                    |                            |  |
|                          |                                       |         |            |              | , ,                | /               |   |           |            |  | 97 %4 h.c.s.       |                            |  |
|                          |                                       |         |            |              |                    |                 |   |           | <b>`</b>   |  |                    |                            |  |
|                          |                                       |         |            |              |                    | 8—              | -                                       |           |            |  |                    |                            |  |
|                          |                                       |         |            |              |                    |                 |   |           | CL         | lean CLAY w/sand: dar                  | k brown 1          | -20% fine grained sands    |  |
|                          |                                       |         | •          |              |                    | 9               | 150 246                                 |           | 02         | trace gravels up to 1" dis             | trace cal          | liche med Plasticity       |  |
|                          |                                       |         | damp       | 86.1         |                    | -               |   |           |            | ridde gravels up to 1 die              |                    | inche, med. I lasticity    |  |
|                          | · · · · · · · · · · · · · · · · · · · |         | uump       | 00,1         |                    | 10—             |   |           |            |  |                    |                            |  |
|                          |                                       |         |            |              |                    | -               |   |           |            | ····                                   |                    |                            |  |
|                          | ——                                    |         |            |              |                    | 11              | _                                       |           |            |  |                    |                            |  |
|                          |                                       |         |            |              |                    | -               | _                                       |           |            |  | <b></b>            |                            |  |
|                          |                                       |         |            |              |                    | 12 —            | _                                       |           |            |  |                    |                            |  |
|                          | _                                     |         |            |              |                    | -               | _                                       |           |            |  | ·····              |                            |  |
|                          |                                       |         |            |              |                    | 13—             |   |           | · ``.      |  |                    |                            |  |
| 1991239998<br>1995239958 |                                       |         |            |              |                    |                 | 200000000000000000000000000000000000000 |           | ``,        |  |                    |                            |  |
|                          |                                       |         |            |              |                    | 14_             |   |           | CL         | lean CLAY: dark brown,                 | 5-15% fine         | e grained sands, med.      |  |
|                          |                                       |         |            |              |                    |                 |   |           |            | plasticity                             |                    |                            |  |
|                          |                                       |         | damp       | 11.8         |                    | 15              |   | ┥         |            |  |                    |                            |  |
|                          |                                       |         |            |              |                    |                 |   |           |            |  |                    |                            |  |
|                          |                                       |         |            |              |                    | 16              |   |           |            |  |                    |                            |  |
|                          |                                       |         |            |              |                    |                 |   |           |            |  |                    |                            |  |
|                          |                                       |         |            |              |                    | <sub>17</sub> - |   | <u> </u>  |            |  |                    |                            |  |
|                          |                                       |         |            |              |                    | 17 —            |   |           | ``         | · · · · · · · · · · · · · · · · · · ·  |                    |                            |  |
|                          |                                       |         |            |              |                    |                 |   |           | <u>```</u> |  |                    |                            |  |
|                          |                                       |         |            |              |                    | 18              |   |           | sc         | clavey SAND: greenish                  | brown to a         | rev (discoloration) 40-50% |  |
| nite<br>2002             |                                       |         |            |              |                    | -               |   | <b>A</b>  |            | fines med to fine graine               | d sands lo         | w plasticity               |  |
| Jto<br>M                 |                                       |         |            |              |                    | 19—             |   |           |            | initio, nico, to nine grane            |                    |                            |  |
| Be                       |                                       |         | damn       | 62           |                    | 20 -            |   |           |            | · · · · · · · · · · · · · · · · · · ·  |                    |                            |  |
|                          | 1                                     |         | uamp       | 0,2          |                    | 1 20            | 1000                                    | Ý         |            |  |                    |                            |  |

| Delta<br>Environmental<br>Consultants, Inc.                                 | Project I<br>Logged<br>Driller: G<br>Drilling I<br>Samplin<br>Casing 1<br>Slot Size<br>Gravel F | No:SJ89-99<br>By: Andy Pe<br>Gregg<br>Method: WK<br>g Method: WK<br>g Method: WK<br>g Method: VK<br>action<br>Sregge<br>SCA<br>Pack: 2/12/ s<br>Elevation | -1<br>ersio<br>to 7'/HS<br>IA/SS<br>IO PVC<br>Sand | A            | North           | Clier<br>Loca<br>Date<br>Hole<br>Well<br>Well<br>Casin | nt:<br>tion:<br>Drilled;<br>Diamete<br>Depth;<br>Diamete<br>Depth;<br>ng Stick | 8999 San  <br>2/21/2006<br>er: 12" - 10"<br>7'/30'<br>24"<br>30'<br>up: 0 | Shell Oil Products<br>Ramon, Dublin,CA<br>S<br>Easting   | US<br>Location Map<br>Please se   | Well No: MW-6<br>Page 2 of 2<br>ee site map   |
|---|---|---|--|--------------|-----------------|--|--|---|--|---|---|
| Well<br>Completion<br>E D<br>Water<br>Vater<br>Completion<br>Water<br>Level | Moisture<br>Content   | PID Reading<br>(ppm)  | Penetration<br>(blows/6")                          | Depth (feet) | Sar<br>Kecovery | Interval<br>eldu                                       | Soil Type  |   | LIT  | [HOLOGY   | DESCRIPTION   |
|   | damp  | 11.3  |  |              |                 |  | SC<br>CL<br>SC   | clayey S lean CL 15-25% clayey S med. De no plasti                        | SAND (cont.)<br>AY w/sand: bro<br>fine grained san<br>SAND w/gravel:<br>nse, 30-40% fin<br>city<br>Bottom of borir | wn w/orang<br>ids, trace gr<br>greyish brc<br>es, 5-15% g<br>ng terminate | e mottling, med. stiff,<br>'avels up to 1/4" dia.<br>'''''''''''''''''''''''''''''''''''' |

|   | 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 Location Map   |
| Della                                     | Drilling Method:           | HSA / AK (7')      | Hole Diamete                | er: 12"/10"  |
|   | Sampling Method            | SS                 | Hole Depth:                 | 28' Please see site map  |
| Environmental                             | Casing Type:               | Sch 40 PVC         | Well Diamete                | r: 4"  |
| Consultants, Inc.                         | Stot Size:<br>Gravel Pack: | U.U1<br>#2/12 sand | vven Deptn:<br>Casing Stick | 28'<br>NA  |
|   | Elevatio                   | m                  | Northing                    | Easting  |
|   |                            |                    |                             |  |
| Completion                                | ing te                     | ef) 🗊 o            | Sample og                   |  |
| ≣ on Water                                | stur<br>iten<br>ead        | vs/6<br>vs/6       | Typ al                      | LITHOLOGY / DESCRIPTION  |
| Level                                     |                            | blov<br>epti       | Soil Soil                   |  |
|   |                            |                    | La Re                       |  |
|   | -                          |                    |                             | ~5" asphalt  |
|   |                            | 1.                 |                             | clayey SAND: brown, medium dense, 15-25% fines, fine to  |
|   |                            |                    | - <b>-------------</b>      | * @ around 18-24" bd a broken laver of conholt wee   |
|   |                            | 2.                 |                             |  |
|   |                            | l ∞ b              |                             | lean CLAY: dark brown, stiff, <10% fine grained sands.   |
|   |                            | le de 3.           |                             | low plasticity, trace gravels up to 0.5" diameter  |
|   |                            |                    |                             |  |
|   |                            |                    |                             |  |
|   | moist 0.6                  |                    |                             |  |
| ont –                                     |                            |                    |                             | Non-   |
| ษั 📃                                      |                            | 6                  |                             |  |
|   |                            |                    |                             |  |
|   |                            | ▼   7.             |                             | 100-100 / Washed of the base of the second |
|   |                            |                    |                             |  |
|   |                            | 8.                 |                             |  |
|   |                            | 4 o.               | CL                          | sandy lean CLAY: dark brown, very stiff, 30-40% fine to  |
|   | moist 0.6                  | 7                  |                             | medium grained sands, 5-15% gravels up to 0.75" b-axis   |
|   |                            | 10 10.             |                             | diameter, low plasticity   |
|   |                            |                    |                             | · · · · · · · · · · · · · · · · · · ·  |
|   |                            | 11.                |                             |  |
|   |                            |                    |                             |  |
|   |                            | 12                 |                             |  |
|   |                            |                    |                             |  |
|   |                            | 13.                | · · · · ·                   |  |
|   |                            | 4 14               | CL                          | lean CLAY w/sand: dark brown, stiff, 15-25% fine grained   |
|   | moist 1.2                  | 6                  |                             | sands, low plasticity  |
|   |                            | 8 15               |                             |  |
| - And |                            |                    |                             |  |
|   |                            | 16                 |                             | ······   |
| - lite                                    |                            |                    |                             |  |
| ento                                      |                            | 17-                |                             |  |
| ă —                                       |                            |                    |                             |  |
|   |                            | 1 18.              | <u> </u>                    | · · · · · · · · · · · · · · · · · · ·  |
| au  |                            | 10 <sub>19</sub>   | CL                          | sandy lean CLAY: brown, hard, 30-40% fine to medium  |
|   | moist 0.8                  |                    |                             | grained sands, trace gravels up to 0.5" diameter,  |
|   |                            | 13   20            |                             | low plasticity   |
|   |                            |                    |                             |  |

|          |        |         | Project N | lo:             | 5.189-99          | S-1           |          | Clien | ŧ.                |          | Shell Oil Product | s US                                   | Well No: MW-7                           |
|----------|--------|---------|-----------|-----------------|-------------------|---------------|----------|-------|-------------------|----------|-------------------|--|---|
|          |        |         |           | Rv <sup>.</sup> | Andy Pe           | ersio         |          | Locat | tion <sup>.</sup> |          | 8999 San Ramon    |  | Page 2 of 2                             |
| -        |        |         | Drillor   |                 | Crogo             | 1310          |          | Data  | Drillod:          |          |                   | <u> </u>                               |   |
|          | ٦ŀ     | to      |           | Anthoni,        | Gregg<br>LICA (AI | <b>V</b> (71) |          | Date  | Dimeu.<br>Diamata |          | 1720/2000         | Location Map                           |   |
| フロ       | 71     | ια      |           | Method:         |                   | <b>K</b> (7)  |          | Hoje  |                   | er:      | 12710             |  |   |
|          |        |         | Sampling  | g Method:       | SS                |               |          | Hole  | Depth:            |          | 28'               | Please s                               | ee site map                             |
| =nvir    | onme   | ental   | Casing T  | ype:            | Sch 40 I          | PVC           |          | Well  | Diamete           | er:      | 4"                |  |   |
| onsu     | Itants | s, Inc. | Slot Size |                 | 0.01              |               |          | Well  | Depth:            |          | 28'               |  |   |
|          |        |         | Gravel P  | ack:            | #2/12 sa          | and           |          | Casir | ng Sticku         | up:      | NA                |  |   |
|          |        |         |           | Elevation       |                   |               | North    | ning  |                   |          | Easting           |  | · ·                                     |
| 146.11   |        |         |           |                 | _                 |               |          |       |                   | ļ        |                   |  |   |
| vveii    | tion   |         |           | 6u              | 5 ~               | ÷             | Sar      | nnia  |                   |          |                   |  |   |
| ompie    | uon    | Static  | ent       | n)<br>adi       | s/6"              | (fee          |          |       | уре               |          | _                 |  |   |
| <u>b</u> |        | Water   | ont       | Ppr             | ow                | Ę             | Ker      | val   |                   |          | L                 | ITHOLOGY                               | / DESCRIPTION                           |
| Cas      |        | Level   | ΣO        | Ê.,             | Per E             | Der           | Se l     | ntei  | ы<br>М            |          |                   |  |   |
|          |        |         |           |                 |                   |               | μΩ.      | _     |                   | <u> </u> |                   |  |   |
|          | _      |         |           |                 |                   | _             |          |       | CL                | sandy    | lean CLAY (       | cont.)                                 |   |
|          |        |         |           |                 |                   | 21 —          |          |       |                   |          |                   |  |   |
|          |        |         |           |                 |                   |               |          |       |                   |          | 7876 1011         |  | n n an |
|          |        |         |           |                 |                   | 22            | <b>_</b> |       |                   |          |                   |  |   |
|          |        |         |           |                 |                   |               |          |       |                   |          | ·                 |  |   |
|          |        |         |           |                 |                   | 23—           |          |       |                   |          |                   |  | · · · · · · · · · · · · · · · · · · ·   |
|          |        |         |           |                 | _                 |               | maanaa   |       |                   |          |                   |  |   |
|          |        |         |           |                 | 6                 | 24 —          |          | 1     |                   |          | same as abov      | /e                                     |   |
|          | 25.0   | )'      |           | 0.8             | 12                |               |          |       |                   |          |                   |  |   |
|          | 8:15   | a 🗸     | moist     |                 | 13                | 25            |          | +     |                   |          |                   |  | · · · · · · · · · · · · · · · · · · ·   |
|          |        |         |           |                 |                   |               |          |       |                   |          |                   |  |   |
|          |        |         |           |                 |                   | 26 —          |          |       |                   |          |                   |  |   |
|          |        |         |           |                 |                   |               |          |       |                   |          |                   |  |   |
|          |        |         |           |                 | 6                 | 27            |          | 1     |                   |          | light brown, n    | o gravels                              |   |
|          |        |         | moist     | 0.6             | 12                |               |          |       |                   |          |                   |  |   |
|          |        |         |           |                 | 13                | 28 —          |          | *     |                   |          |                   |  |   |
|          |        |         |           |                 |                   |               |          |       |                   |          | Bottom of bor     | ing terminal                           | ted at 28 feet bg                       |
|          |        |         |           |                 |                   | 29—           | <b></b>  |       |                   |          |                   |  |   |
|          |        |         |           |                 |                   |               |          |       |                   |          |                   |  |   |
|          |        |         |           |                 |                   | 30            |          |       |                   |          |                   | w                                      |   |
|          |        |         |           |                 |                   | _             |          |       |                   |          |                   |  |   |
|          |        |         |           |                 |                   | 31 —          |          |       |                   |          | <b>.</b>          |  |   |
|          |        |         |           |                 |                   |               |          |       |                   |          | <del>.</del>      |  |   |
|          |        |         |           |                 |                   | 32 —          |          |       |                   |          |                   |  |   |
|          |        |         |           |                 |                   |               |          |       |                   |          |                   |  |   |
|          |        |         |           |                 |                   | 33—           |          |       |                   |          |                   |  |   |
|          |        |         |           |                 |                   |               |          |       |                   |          |                   |  |   |
|          |        |         |           |                 |                   | 34            | <u> </u> |       |                   |          |                   |  |   |
|          |        |         |           |                 |                   | _             |          |       |                   |          |                   |  | ······································  |
|          |        |         |           |                 |                   | 35 —          |          |       |                   | I        |                   |  |   |
|          |        |         |           |                 |                   | _             |          |       |                   |          |                   |  | · · · · · · · · · · · · · · · · · · ·   |
|          | ·      |         |           |                 |                   | 36 —          |          |       |                   | L        |                   |  |   |
|          | _      |         |           |                 |                   |               | <b> </b> |       |                   | ļ        |                   |  |   |
|          |        |         |           |                 |                   | 37            |          |       |                   |          |                   |  |   |
|          | _      |         |           |                 |                   | _             |          |       |                   | <u> </u> |                   |  |   |
|          |        |         |           |                 |                   | 38 —          |          |       |                   |          |                   |  |   |
|          | _      |         |           |                 |                   |               | <b> </b> |       |                   |          |                   | ······································ |   |
|          |        |         |           |                 |                   | 39            | Ļ        |       |                   |          |                   |  |   |
|          |        |         |           |                 |                   |               |          |       |                   |          |                   |  |   |
|          |        |         |           |                 |                   | 40            |          |       |                   |          |                   |  |   |

|                   |            | Project No: S     Logged By: A     Driller: G |            | SJ89-99S-1<br>Andy Persio |                  | S-1 Client:<br>rsio Location; |                                       | Shell Oil Products  | US Well No: MW-8        |   |
|-------------------|------------|---|------------|---------------------------|------------------|-------------------------------|---------------------------------------|---|-------------------------|---|
|                   |            |   | Logged I   | By:                       | Andy Pe          | ersio                         | Loca                                  | ation:  | 8999 San Ramon          | Page 1 of 2                             |
|                   |            | 1 - 1   | Driller:   |                           | Gregg            |                               | Date                                  | Drilled:  | 7/25 & 27/06            | Location Map                            |
|                   | <u>e</u> r | IA.   | Drilling N | /lethod:                  | HSA / A          | K (7')                        | Hole                                  | Diamete   | er: 12"/10"             |   |
|                   |            | u   | Sampling   | g Method:                 | SS               |                               | Hole                                  | Depth:  | 28'                     | Please see site map                     |
| En                | /ironm     | ental   | Casing T   | -<br>ype:                 | Sch 40 I         | PVC                           | Well                                  | Diamete   | er: 4"                  | •                                       |
| Cons              | sultant    | s, Inc.                                       | Slot Size  | );                        | 0.01             |                               | Well                                  | Depth:  | 28'                     |   |
|                   |            | ,   | Gravel P   | 'ack:                     | #2/12 sa         | and                           | Cas                                   | ing Stick   | up: NA                  |   |
|                   |            |   |            | Elevation                 |                  |                               | Northing                              |   | Easting                 |   |
| 1.8               | 7-11       |   |            |                           | <b>T</b>         |                               | · · · · · · · · · · · · · · · · · · · | ·····   |                         |   |
| Com               | nletion    |   | <u>е</u> т | ing                       | 5                | <del>G</del>                  | Sample                                | υ   |                         |   |
| =                 | ත          | Static  | stur       | ead<br>m)                 | /s/6             | (fe                           | _ چ                                   | <u>م</u>  | , n                     |   |
| . <mark>šk</mark> | asin       | Level   | Cor        | ц<br>Ц<br>Ц               | blov             | ept                           |                                       | , in the second |                         |   |
| Ba                | ö          |   |            | Ы                         | l a e            | ă                             | Int Rec                               | "   |                         |   |
|                   |            |   |            |                           | <b>I ↑</b>       |                               |                                       | AE_   | ~4" asphalt             | ,                                       |
|                   |            |   |            |                           |                  | 1                             |                                       |   |                         |   |
|                   |            |   |            |                           |                  |                               |                                       |   | No samples or           | observations above 5' bg because I      |
|                   |            |   |            |                           |                  | 2                             |                                       |   | was with driller        | s setting another well                  |
|                   |            |   |            |                           | 0                | <u>۔</u> ا                    |                                       | _   |                         |   |
|                   |            |   |            |                           | a e e            | 3—                            |                                       | _   |                         |   |
|                   | _          |   |            |                           | ifec             | - L                           | <u></u>                               | 4   |                         |   |
|                   |            |   |            |                           | 126              | 4                             | ┉┟──┤──                               | 4   |                         |   |
|                   |            |   |            |                           | air              |                               |                                       |   |                         |   |
|                   |            |   | moist      | 0.8                       | ے <sub>ا</sub> ا | 5—                            | ₹                                     |   | sandy lean CLAY: bi     | rown, medium stiff, 35-45% fine grained |
|                   |            |   |            |                           |                  | -                             |                                       | 4   | to medium grained s     | ands, trace gravels up to 0.5"          |
| Ē                 | —          |   |            |                           |                  | 6                             |                                       | -   | diameter, low plasticit | Ŋ                                       |
| U U               | _          |   |            |                           |                  | · _                           |                                       | -   |                         |   |
|                   |            |   |            |                           | ♥-               | 7—                            |                                       | 4   |                         |   |
|                   |            |   |            |                           |                  | -                             |                                       | ┥、  |                         |   |
|                   |            |   |            |                           |                  | 8                             |                                       | 1   |                         |   |
|                   |            |   |            |                           | 12               |                               |                                       |   | clavey SAND: brown      | dense 30-40% fines fine to coarse       |
| 41317KU.317A      |            |   | moist      | 05                        | 20               | 9                             |                                       | 1 00  | grained sands 5-15%     | aravels up to 1" h-axis no plasticity   |
|                   |            |   |            |                           | 17               |                               |                                       | 1   | granica canac, o 107    |   |
|                   |            |   |            |                           |                  | 10                            |                                       | <b>1</b> .  |                         |   |
|                   |            |   |            |                           |                  |                               |                                       | 1   |                         |   |
|                   |            |   |            |                           |                  | 11                            |                                       | 1   |                         |   |
|                   |            |   |            |                           |                  | 40 -                          |                                       | 1   |                         |   |
|                   |            |   |            |                           |                  | 12                            |                                       | 1   |                         |   |
|                   |            |   |            |                           |                  | 13_                           |                                       | ]`.   |                         |   |
|                   |            |   |            |                           |                  | <u> </u>                      |                                       | _ ``  |                         |   |
|                   |            |   |            |                           | 10               | 14                            |                                       | L CL  | lean CLAY w/sand: o     | dark brown, hard, 15-25% fine grained   |
|                   |            | 1   | moist      | 65.2                      | 12               |                               |                                       | 4   | sands, 5-15% gravels    | s up to 0.75" diameter, low plasticity  |
|                   |            |   |            |                           | 17               | 15                            |                                       | 1   |                         |   |
|                   |            |   |            |                           |                  |                               |                                       | 4   | ····                    |   |
|                   |            |   |            |                           |                  | 16 —                          | <u> </u>                              | 4   |                         |   |
| Lit .             | _          |   |            |                           |                  | _                             |                                       | 4   |                         |   |
|                   |            | -   |            |                           |                  | 17 —                          |                                       | -   |                         |   |
| Be                |            |   |            |                           |                  | -                             | <u> </u>                              | -   |                         |   |
| HANNIN            |            | 1   |            |                           |                  | 18                            | <del>  </del>                         | -   |                         |   |
| P                 |            | -   |            |                           | 6                |                               |                                       | 1   | Very stiff trace        | gravels up to 0.5" diameter             |
| Sa                | =          | 1   | moist      | 146                       |                  | 19                            |                                       | 1   |                         | gravels up to 0.5 didifieter            |
|                   |            |   |            | 10                        |                  | 20 -                          |                                       | 1   |                         |   |
|                   |            | I   | L          |                           | 1                |                               |                                       | 1   |                         |   |
|                   |            |   |            |                           |                  |                               |                                       |   |                         |   |

| Del<br>Environme<br>onsultant | ta<br>ental<br>s, Inc.   | Project N<br>Logged I<br>Driller:<br>Drilling N<br>Sampling<br>Casing T<br>Slot Size<br>Gravel P | lo:<br>3y:<br>Method:<br>g Method:<br>'ype:<br>e:<br>eack:<br>Elevation | SJ89-99<br>Andy Pe<br>Gregg<br>HSA / A<br>SS<br>Sch 40 I<br>0.01<br>#2/12 sa | PS-1<br>ersio<br>K (7')<br>⊃VC<br>and | Cli<br>Lou<br>Da<br>Ho<br>Ho<br>We<br>Ca<br>Northing   | ent:<br>cation:<br>te Drilled:<br>le Diamet<br>le Depth:<br>ell Diameto<br>ell Depth:<br>sing Stick | er:<br>er:<br>up: | Shell Oil Products<br>8999 San Ramon<br>7/25 & 27/06<br>12"/10"<br>28'<br>4"<br>28'<br>NA<br>Easting | US<br>Location Map<br>Please S | Well No: MW-8<br>Page 2 of 2<br>ee site map |
|-------------------------------|--------------------------|--|---|--|---------------------------------------|--|---|-------------------|--|--------------------------------|---|
| ompletion                     | Static<br>Water<br>Level | Moisture<br>Content  | PID Reading<br>(ppm)  | Penetration<br>(blows/6")  | Depth (feet)                          | Sample<br>Sample<br>Sample<br>Sample<br>Sample<br>Sample<br>Sample<br>Sample<br>Sample<br>Sample<br>Sample<br>Sample | Soil Type   |                   | Lľ   | THOLOGY                        | / DESCRIPTION                               |
|                               | by<br>DOa                | moist  | 12.3  | 5<br>9<br>11<br>8<br>11<br>15  | 21                                    |  |   |                   | CLAY w/sand (<br>no gravels<br>dark grey, med<br>Bottom of bori<br>28' bg= bottom                    | cont.)                         | city<br>ted at 28 feet bg                   |

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|                                       |                |  | Project N     | No:       | SJ89-99    | S-1            |          | Clien  | t:             | Shell Oil Products                | US                                    | Well No: MW-9                           |  |
|---------------------------------------|----------------|--|---------------|-----------|------------|----------------|----------|--|----------------|-----------------------------------|---------------------------------------|---|--|
|                                       |                | Logged By:       Andy Persio         Driller:       Gregg         Drilling Method:       HAS/ AK (7")         Sampling Method:       SS         Casing Type:       Sch 40 PVC         Slot Size:       0.01         Cravel Back:       #2(12 sand) |               |           | rsio       |                | Locat    | tion:  | 8999 San Ramon |                                   | Page 1 of 2                           |   |  |
|                                       |                | 1  | Driller:      |           | Gregg      |                |          | Date   | Drilled:       | 7/26 & 27/06                      | Location Map                          |   |  |
|                                       | $ \mathbf{O} $ | Dilling Method:HAS/Jnmental<br>ants, Inc.Drilling Method:SSCasing Type:Sch 40Slot Size:0.01Gravel Pack:#2/12Elevation  |               |           | HAS/ A     | < (7')         |          | Hole   | Diamete        | r: 12"/10"                        |                                       |   |  |
|                                       |                | Sampling Method: SS<br>Casing Type: Sch 40 PVC<br>Slot Size: 0.01<br>Gravel Pack: #2/12 sand<br>Elevation  |               |           |            |                | Hole     | Depth:                                       | 29.4'          | Please s                          | see site map                          |   |  |
| En En                                 | vironn         | ental  | Casing T      | vpe:      | Sch 40 I   | PVC            |          | Well   | Diamete        | r: 4"                             |                                       | · · · ·                                 |  |
| Con                                   | sultan         | ts Inc   | Slot Size     | 5.<br>21  | 0.01       |                |          | Well   | Depth:         | 29.4'                             |                                       |   |  |
|                                       | ountain        | ,  | Gravel P      | ack:      | #2/12 sa   | and            |          | Casir  | na Sticku      | ID: NA                            |                                       |   |  |
|                                       |                |  |               | Elevation |            | l              | Nort     | nina   | . <u>.</u>     | Easting                           |                                       |   |  |
|                                       |                |  |               |           |            |                |          |  |                |                                   |                                       |   |  |
| Com                                   | Vell           |  |               | Би        | ч (        | st)            | Sample e |  |                |                                   |                                       |   |  |
|                                       |                | Static   | ture<br>te ut | m) adi    | s/6        | (fee           |          |  | Ŋ              |                                   |                                       |   |  |
| Ē                                     | sing           | Vvater   | Son           | an da     | low lo     | bth            | See      | eva  | Oil            | LI                                | HULUGT                                | DESCRIPTION                             |  |
| Bac                                   | ö              |  | 20            | ЫС        | ਿਤਰ        | De<br>De       | Sec      | Inte   | Ś              |                                   |                                       |   |  |
|                                       |                |  |               |           | <b></b>    |                | <u> </u> |  | AF             | $\sim$ 3" asphalt and $\sim$ 3" I | oaserock                              |   |  |
|                                       |                | -  |               |           |            |                | 1        | <b> </b>                                     |                |                                   |                                       |   |  |
|                                       |                |  | · ·           |           |            |                |          |  | CL             | sandy lean CLAY: da               | rk brown,                             | stiff, 30-40% fine to medium            |  |
|                                       |                |  |               |           |            |                |          |  |                | grained sands. low pl             | asticity, tra                         | ace gravels up to 1" b-axis             |  |
|                                       |                |  |               |           | '          | 2              |          | 1  |                | diameter                          |                                       |   |  |
|                                       | 1 -            | 1  |               |           | ∞ <u>6</u> |                | 1        | <u>†                                    </u> |                |                                   |                                       | · · · · ·                               |  |
|                                       |                |  |               |           | ige<br>Ge  | 3-             | 1        |  |                |                                   |                                       |   |  |
|                                       |                | ~~   |               |           | au         |                | 1        |  |                | · · · · ·                         |                                       |   |  |
|                                       |                | -  |               |           |            | 4—             |          |  |                |                                   |                                       |   |  |
|                                       |                |  | moist         | 2.6       | ڪر "       | 5              |          | \$   |                | 40-50% fine to                    | 0% fine to medium grained sand, brown |   |  |
| out                                   |                |  |               |           |            | <u> </u>       |          |  |                |                                   |                                       |   |  |
| Ŭ                                     |                | _  |               |           |            | 6—             |          |  |                |                                   |                                       |   |  |
|                                       | _              | _  |               |           |            |                | _        |  |                |                                   |                                       |   |  |
|                                       |                | _  |               |           | +          | 7              |          | ļ  |                |                                   |                                       | 2                                       |  |
| 5774 A 19 57 4<br>N 19 7 4 4 19 57 4  | -              | _  |               |           |            | -              |          |  |                |                                   |                                       |   |  |
|                                       |                |  |               |           | ļ          | 8—             | +        |  |                |                                   |                                       |   |  |
| 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |                | _  |               |           | 4          | -              | Ū.       | •  |                | 5-15% gravels                     | up to 0.5"                            | ' diameter                              |  |
|                                       |                | _  | moist         | 11        | 4          | 9              |          |  |                | 0-1070 graveis                    | up to 0.0                             | didifficies                             |  |
|                                       |                | -  |               |           | 6          | -              |          |  |                |                                   |                                       | *************************************** |  |
|                                       |                | -  |               |           | ľ          | 10             |          |  |                |                                   |                                       |   |  |
|                                       |                | ~  |               |           |            | -              | +        |  |                |                                   |                                       |   |  |
|                                       |                | 1  |               |           |            | 1 <b>1</b>     | 1        |  |                |                                   |                                       |   |  |
|                                       | ~              | 1  |               |           |            | -              | 1        |  |                |                                   |                                       |   |  |
|                                       |                | 1  |               |           |            | 12             | 1        | 1  | N              |                                   |                                       |   |  |
|                                       | -              | 1  |               |           |            | -              |          |  | · ``、          |                                   | ··                                    |   |  |
|                                       |                | 1  |               |           |            | 13             | 1        | 1  | CL Ù           | lean CLAY w/sand: b               | rown, verv                            | / stiff, 15-25% fine grained            |  |
|                                       |                |  |               |           | 5          |                | and a    | 1  |                | sands, low plasticity             |                                       |   |  |
|                                       | 1              | 1  | moist         | 0.9       | 8          | 14             |          |  |                |                                   |                                       |   |  |
|                                       | -              | 1  |               |           | 10         | 15             |          | •  |                |                                   |                                       |   |  |
|                                       |                |  |               |           |            | ''             |          |  |                |                                   |                                       |   |  |
|                                       |                | _  |               |           |            | 16             |          | ļ  |                |                                   |                                       |   |  |
|                                       | _              | 4  |               |           |            | <sup>•</sup> - |          |  |                |                                   | ·····                                 |   |  |
|                                       |                | 4  |               |           |            | 17 —           |          | <u> </u>                                     |                |                                   |                                       |   |  |
|                                       | - 1            | -1   |               |           |            |                | _        |  |                |                                   |                                       |   |  |
| ite                                   |                |  |               |           |            | 18-            | _        |  |                |                                   |                                       |   |  |
| ton                                   | -              | -  |               |           | -          | -              |          |  |                |                                   | fine                                  | ad aanda                                |  |
| Ber                                   |                |  | moist         | 07        | 1 11       | 19             |          | ┢╌╀──  | · ·            | nard, 10-20%1                     | iine graine                           | eu sanos                                |  |
|                                       | -              | -  |               | 0.7       | 17         | 20 -           |          | ╞╁╌  | 1              |                                   |                                       |   |  |
| 19.000                                |                | 1  | 1             |           | 1 17       | 140            |          |  | 1              |                                   |                                       |   |  |

|         |          |             | Project N  | lo:        | SJ89-99        | S-1  |      | Clien    | t:       | Shell Oil Products   | US Well No; MW-9   |     |
|---------|----------|-------------|------------|------------|----------------|--|------|----------|----------|--|--|-----|
|         |          |             | Logged E   | Зу:        | Andy Pe        | ersio Location:<br>Date Drilled:<br>K (7') Hole Diameter:<br>Hole Depth: |      |          |          | 8999 San Ramon   | Page 2 of 2  |     |
| 7       | . 11     |             | Driller:   |            | Gregg          |  |      | Date     | Drilled: | 7/26 & 27/06   | Location Map   |     |
| JE      | נוב      | าล          | Drilling N | lethod:    | HAS/ A         | < (7')   |      | Hole     | Diamete  | ər: 12"/10"  |  |     |
|         |          |             | Sampling   | g Method:  | SS             |  |      | Hole     | Depth:   | 29.4'  | Please see site map  |     |
| Ξηνίτο  | nme      | ntal        | Casing T   | ype:       | Sch 40 I       | PVC  |      | Well     | Diamete  | er: 4"   |  |     |
| onsult  | tants    | , Inc.      | Slot Size  | :          | 0.01           |  |      | Well     | Depth:   | 29.4'  |  |     |
|         |          |             | Gravel P   | ack:       | #2/12 sa       | and  |      | Casir    | ng Stick | up: NA   |  |     |
|         |          |             |            | Elevation  |                |  | Nort | hing     |          | Easting  |  |     |
|         |          |             |            |            |                |  |      |          |          |  |  |     |
| ompleti | on       |             | 0          | Ð          | 5              | (j)  | Sa   | elam     | e        |  |  |     |
|         |          | Static      | tent       | eadi<br>m) | rati<br>/s/6   | (fe  | 2    |          | Typ      |  |  |     |
| sinc    |          | Level       | Con        | ъд         | Slow           | pth  | eVe  | er.      | , lio    |  |  |     |
| රී      |          |             | 2 -        | Ы          | <sup>2</sup> = | Ľ۵   | Rec  | Int      | 0)       |  |  |     |
|         |          |             |            |            |                |  |      |          | CL       | lean CLAY w/sand (c  | cont.)   |     |
|         |          |             |            |            |                |  | -    |          |          |  | *  |     |
|         |          |             |            |            |                | 21   |      |          |          |  |  |     |
|         |          |             |            |            |                | 22_  |      |          |          |  |  |     |
|         |          |             |            |            |                |  |      |          |          |  |  |     |
|         |          |             |            |            |                | 23-  |      |          |          |  |  |     |
|         |          |             |            |            | _              |  |      |          |          |  |  |     |
|         |          |             |            | <u> </u>   |                | 24 —   |      |          |          | hard, 15-25%   | fine grained sands   |     |
|         |          |             |            | 0.5        | 13             |  |      | ┨        |          |  | •  |     |
|         |          |             |            |            | 15             | 25 —   |      | ♥        |          |  |  |     |
|         |          |             |            |            |                | .  | -    |          |          |  |  |     |
|         |          |             |            |            |                | 26—  |      |          |          | ·····  | ·····  |     |
|         |          |             |            |            | 7              |  |      | <b>I</b> |          | same as abov   | 8  |     |
|         |          |             |            | 1          | 12             | 27-  |      |          |          |  |  |     |
|         |          |             |            |            | 16             | 1 20   |      | T T      |          |  |  |     |
|         | 28.9     | 'b <u>g</u> |            |            |                | 20-  | 1    |          | ]        |  |  |     |
|         | 10:0     | 0a          |            |            |                | 29_  |      |          |          |  |  |     |
|         |          |             |            |            |                |  |      |          |          |  |  |     |
|         |          |             |            |            |                | 30-  |      |          |          | 29.4'bg = botto  | om of boring/well  |     |
|         |          |             |            |            |                | · · ·  | _    | <b> </b> |          |  |  |     |
|         |          |             |            |            |                | 31   |      | <u> </u> |          |  |  |     |
|         |          |             |            |            |                |  | —    | -        | -        | ,  |  |     |
|         |          |             |            |            |                | 32 —   | +    | +        |          |  |  |     |
|         |          |             |            |            |                |  | +    | -        | 1        |  |  |     |
|         | <i>.</i> |             |            |            |                | 33 —   |      | ┼        | 1        |  |  |     |
|         |          |             |            |            |                |  |      | 1        | 1        |  |  |     |
|         |          |             |            |            |                | 34 -   |      |          | 1        |  |  |     |
|         |          |             |            |            |                | 25   |      |          | 1        |  | 1. 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1992 - 1993 - 1993 - 1993 - 1994 - 1994 - 1994 - 1994 - 199<br>- |     |
|         |          |             |            |            |                | 30-  |      | ·        |          |  |  |     |
|         |          |             |            |            |                | 36   |      | <u> </u> |          | Na Tata a Pe a N Dian TAY at a addision and addise a success and addise at a |  |     |
|         |          |             |            |            |                |  |      |          |          |  |  |     |
|         |          |             |            |            |                | 37 -   |      | ·        | 4        |  |  |     |
|         | _        |             |            |            |                |  |      |          | 4        |  |  |     |
|         |          |             |            |            |                | 38-  | _    |          | 4        |  |  | ]   |
|         |          |             | ļ          |            |                |  | +    |          | -        |  |  |     |
|         |          |             |            |            |                | 39-  |      | +        | 1        |  |  | —–] |
|         |          |             |            |            |                | 40   | +    | 1        |          |  |  |     |
|         |          |             | 1          |            |                | 1 70   |      | 1        | 1 ·      | 1  |  |     |

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|        |      |                 |        | Project N  | lo:        | SJ89-99          | )S-1   |          |          | Clien       | t:                  | Sheil Oil Products      | US Well No: MW-10                     |
|--------|------|-----------------|--------|------------|------------|------------------|--------|----------|----------|-------------|---------------------|-------------------------|---------------------------------------|
|        |      |                 |        | Logged E   | By:        | Andy Pe          | ersio  |          |          | Locat       | tion:               | 8999 San Ramon          | Page 1 of 2                           |
|        |      |                 | 4      | Driller:   |            | Greaa            |        |          |          | Date        | Drilled:            | 7/25-26/06              | Location Map                          |
|        | )/   | יוב             | ta     | Drilling N | lethod:    | HSA / A          | K (7') |          |          | Hole        | Diamete             | er: 12"/10"             |                                       |
|        |      |                 | ια     | Sampling   | 1 Method   | \$5              |        |          |          | Hole        | Denth               | 29'                     | Please see site map                   |
| E.,    | vie  | 0000            | ntal   | Caeipa T   | vne:       | Sch 40           |        |          |          | Mall        | Diamete             | т Л"                    |                                       |
|        |      | Unite<br>Manufa |        | Casing i   | ype.       | 0.01             | 1 10   |          |          | Mall        | Dopthy              | 20/                     |                                       |
|        | işü  | ittante         | s, mc. | Gravel B   | ook:       | V.UI<br>#2/12 cr | and    |          |          | Coeir       | vepin.<br>va Sticki | 29<br>In: NA            |                                       |
|        |      |                 |        | GlaverF    | Elevation  | #2/12 50         |        |          | North    | ving        | IS SUCKU            | ip. INA<br>Easting      |                                       |
|        |      |                 |        |            | Lievation  |                  |        |          | Norti    | iing        |                     | Lasting                 |                                       |
|        | Well |                 |        | ·          | <br>D      |                  |        |          | _        |             |                     |                         |                                       |
| Сог    | nple | tion            | Static | ente       | adin<br>E  | /e")             | feel   |          | Sar      | nple        | ype                 |                         |                                       |
| ili j  | ĝ    |                 | Water  | oisti      | Ррп<br>Ррп | ows              | Ę      |          | ver      | val         | E I                 | LÍT                     | HOLOGY / DESCRIPTION                  |
| Baci   | Casi |                 | Level  | ĭ≚ŭ        | ð _        | E P              | ) ep   |          | 00       | nter        | လိ                  |                         |                                       |
|        | Ē    |                 |        |            | <u> </u>   |                  |        |          | ř        |             |                     | Oll seebalt and Oll h   |                                       |
|        |      | ·               |        |            |            | I T              |        |          |          |             | AF                  | ~9 asphalt and ~3 b     | aserock                               |
|        |      |                 |        |            |            |                  | 1.     |          |          |             | SC                  | clavey SAND: light or   | rev medium dense 10-20% fines         |
|        |      |                 |        |            |            |                  |        |          |          |             | 50                  | fine to medium graine   | d sande no plasticity                 |
|        |      |                 |        |            |            |                  | 2.     |          |          |             |                     | nne to medium grame     |                                       |
|        |      |                 |        |            |            | S S              |        | _        |          |             |                     |                         |                                       |
|        |      |                 |        |            |            | je g             | 3.     | <u> </u> |          |             |                     |                         |                                       |
|        |      | _               |        |            |            | aug              |        | _        |          |             |                     |                         |                                       |
|        |      | ·····           |        |            |            | Υ<br>Σ<br>Έ      | 4      |          | <u> </u> |             | <u>``</u> .         |                         |                                       |
|        |      |                 |        |            | 2.0        | air              |        |          |          |             |                     |                         | all brown stiff 20 400/ fine areined  |
|        |      |                 |        | moist      | 3,0        |                  | 5.     |          |          |             |                     | sandy lean CLAY: da     | ark brown, still, 30-40% line grained |
| no     |      |                 |        |            |            |                  |        | _        |          |             |                     | sands, trace gravels a  | and cobbles up to 3" p-axis diameter, |
| ں<br>آ |      |                 |        |            |            |                  | 6      |          |          |             |                     | low plasticity          |                                       |
|        |      |                 |        |            |            |                  | -      | _        |          |             |                     |                         |                                       |
|        |      |                 |        |            |            | ★                | 7.     |          | ļ        | ļ           |                     |                         |                                       |
|        |      | _               |        |            |            |                  |        |          |          |             |                     |                         |                                       |
|        |      |                 |        |            |            |                  | 8      |          | <u> </u> | <u> </u>    |                     |                         | · · · ·                               |
|        |      |                 |        |            |            |                  |        |          |          |             |                     |                         |                                       |
|        |      |                 |        |            | 00 F       | 4                | 9      |          |          | <b>↓</b> ,, |                     |                         |                                       |
|        |      |                 |        | moist      | 29.5       | 8                |        |          |          |             | CL                  | lean CLAY w/sand: da    | ark brown, 20-30% fine to medium      |
|        |      | ·····           |        |            |            | 14               | 10     |          |          | •           |                     | grained sands, very s   | tiff, trace gravels up to 2" b-axis   |
|        |      |                 |        |            |            |                  |        |          |          |             |                     | diameter, low plasticit | У                                     |
|        |      |                 |        |            |            | 1.               | 11     |          | ·        |             |                     |                         |                                       |
|        |      |                 |        |            |            |                  |        |          |          |             |                     |                         |                                       |
|        |      |                 |        |            |            | 1                | 12     |          | <b> </b> | <u> </u>    |                     |                         |                                       |
|        |      |                 |        |            |            | 1                | 1      |          |          |             |                     |                         |                                       |
|        |      |                 |        |            |            | 1                | 13     |          | <u> </u> |             |                     |                         |                                       |
|        |      |                 |        |            |            |                  |        |          | -        |             |                     |                         |                                       |
|        |      |                 |        |            |            | 7                | 14     | ·        |          |             |                     | 10-20% fine to          | medium grained sands, trace gravels   |
|        |      |                 |        | moist      | 5.1        | 8                |        |          |          |             |                     | up to 1" b-axis         | diameter                              |
|        |      |                 |        |            |            | 10               | 15     |          |          | ↓ ★         | 1                   |                         |                                       |
|        |      |                 |        |            |            |                  | ``     |          |          | <b> </b>    |                     |                         |                                       |
|        |      |                 |        |            |            |                  | 16     |          |          | <b> </b>    | l                   |                         |                                       |
| te     |      |                 |        | ļ          |            |                  | ``     |          | <u> </u> | <u> </u>    |                     |                         |                                       |
| ton    |      |                 |        |            |            |                  | 17     |          |          |             | ļ                   |                         |                                       |
| 3en    |      |                 |        |            |            |                  | 1      |          |          |             | ļ                   |                         |                                       |
|        |      |                 |        |            |            |                  | 18     |          |          | <u> </u>    | <b>``</b>           |                         |                                       |
|        |      |                 |        |            |            |                  |        |          |          |             | <u>``</u>           |                         |                                       |
| ۲<br>۲ |      |                 |        |            |            | 5                | 10     |          |          |             | CL                  | sandy lean CLAY: da     | rk grwy w/greenish discoloration,     |
| S      |      |                 |        | moist      | 3.5        | 1                | 1.9    | _        |          |             | l                   | hard, 30-40% fine to    | medium grained sands, low plasticity  |
|        |      |                 |        |            |            | 16               | 20     |          |          | ¶ ↓         |                     |                         |                                       |

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| <u></u>    |   | D          |           | 0 100 00       | 0.4      | 01   | . 1.       |  |              | 14/-11 NI #884/ 40                    |
|------------|---|------------|-----------|----------------|----------|--|------------|--|--------------|---------------------------------------|
|            | Ita Project No:<br>Logged By:<br>Driller:<br>Drilling Method<br>Sampling Meth |            |           | 2188-88        | 5-1      | Clier  | NC:        | Shell Oil Produc                           | as US        | vvell No: MVV- 10                     |
|            |   | Logged I   | Зу:       | Andy Pe        | rsio     | Loca   | tion:      | 8999 San Ramon                             |              | Page 2 of 2                           |
|            | 1-  | Driller:   |           | Gregg          |          | Date   | Drilled:   | 7/25-26/06                                 | Location Map |                                       |
| Jei        | 12  | Drilling N | lethod:   | HAS/ AK        | < (7')   | Hole   | Diamete    | er: 12"/10"                                |              |                                       |
|            |   | Sampling   | g Method: | SS             |          | Hole   | Depth:     | 29'  | Please       | see site map                          |
| Environme  | ental   | Casing T   | vpe:      | Sch 40 F       | PVC      | Well   | Diamete    | er: 4"                                     |              |                                       |
| onsultante | s Inc   | Slot Size  | :         | 0.01           |          | Well   | Depth:     | 29'  |              |                                       |
| Jioditaila | ,   | Gravel P   | ack:      | #2/12 sa       | nd       | Casi   | na Sticki  | ID: NA                                     |              |                                       |
|            |   |            | Elevation |                |          | Northing   |            | Fasting                                    |              |                                       |
|            |   |            | Liovation |                |          | Northing   |            | Easting                                    |              |                                       |
| Well       |   |            |           | T              |          | 1  | Т          | ······                                     |              |                                       |
| ompletion  | Ctatia  | e +        | gui       | 5              | et)      | Sample   | e e        |  |              |                                       |
| m          | Water   | ten        | m) eac    | /s/6           | (fe      | 2  | Ž          |  |              |                                       |
| sin        | Level   | S di       | ਲੁੱਧੂ     | lov            | pth      | No ove   | 10         | •  |              |                                       |
| Cä         | 1010  | 20         | Ц         | а <del>с</del> | De<br>De | Inte Ce  | l v        |  |              |                                       |
|            |   |            |           |                |          |  |            | sandy loan CLAV (                          | oont ):      |                                       |
|            |   |            |           |                |          |  |            |  |              | hove no dissolaration                 |
|            |   |            |           |                | 21 —     |  | 4          |  | same as a    |                                       |
|            |   |            |           |                |          |  | -          |  |              |                                       |
|            |   |            |           |                | 22       |  | -          |  |              |                                       |
|            | T   |            |           |                |          |  | <b>.</b> . |  |              |                                       |
|            | ¥   | 1          |           |                | 23 —     |  | 1×.        |  |              |                                       |
| 22.8       | 55°   |            |           |                |          |  | ↓ ``       |  |              |                                       |
| 4:00       | p   |            |           | 4              | 24 —     |  | 4          | lean CLAY w/sand                           | dark brow    | n, very stiff, 15-25% fine            |
|            |   | moist      | 1.3       | 8              |          |  |            | grained sands, low                         | plasticity   |                                       |
|            |   |            |           | 12             | 25       | •  | 1          |  |              |                                       |
|            |   |            |           |                |          |  |            |  |              |                                       |
|            |   |            |           |                | 26       |  |            | a - provi Marcia I. Visionali I. Visionali |              |                                       |
|            |   |            |           |                | 20       |  |            |  |              |                                       |
|            |   |            |           | 7              | 27       |  |            | same as abo                                | ove          |                                       |
|            |   | moist      | 1.2       | 10             |          |  |            |  |              |                                       |
|            |   |            |           | 14             |          | •  |            |  |              |                                       |
|            |   |            |           |                | 20       |  | 1          |  |              |                                       |
|            |   |            |           |                |          |  | 1          |  |              |                                       |
|            |   |            |           |                | 29       |  |            | 29'bg = botte                              | om of borin  | a/well                                |
|            |   |            |           |                |          |  | 1          | Ŭ  |              | <u> </u>                              |
|            |   |            |           |                | 30       |  | 1          |  |              |                                       |
|            |   |            |           |                |          |  | 1          |  |              |                                       |
|            |   |            |           |                | 31 —     |  | 1          | ·//• ·····                                 |              |                                       |
|            |   |            |           |                |          | <u>                                      </u>            | 1          |  |              |                                       |
|            |   |            |           |                | 32       | <del>  </del>  | <b>1</b> . |  |              |                                       |
|            |   |            |           |                | -        |  | 4          |  |              | · · · · · · · · · · · · · · · · · · · |
|            |   |            |           |                | 33 —     | · ·  | 1          |  |              |                                       |
|            |   |            |           |                | -        |  | 4          |  |              |                                       |
|            |   |            |           |                | 34 —     |  | 4          |  |              |                                       |
| _          |   |            |           |                |          | ╂╍┉╍┨╍╍╍╍  | -          | · · · ·                                    |              |                                       |
|            |   |            |           |                | 35       | $\left  \right $   | 4          |  |              |                                       |
|            |   |            |           |                |          |  | -          | · _ · · · -                                |              |                                       |
|            |   |            |           |                | 36 —     | $\left\{ \begin{array}{c} \cdot \\ \end{array} \right\}$ | -          |  |              |                                       |
|            |   |            |           |                | -        |  | -          |  |              |                                       |
|            |   |            |           |                | 37 —     | ┥ ┥  | 4          |  |              |                                       |
|            |   |            |           |                |          | <u>↓                                      </u>           | 4          | L  |              |                                       |
|            |   |            |           |                | 38       | ┝──┝──   | 4          |  |              |                                       |
|            |   |            |           |                |          | ┢━━━-┣━━━  | 4          |  |              |                                       |
|            |   |            |           |                | 39       | ┟──┟──   | 4          |  |              |                                       |
|            |   |            |           |                |          |  | 4          |  |              |                                       |
| -          |   |            |           |                | 40       |  |            |  |              |                                       |

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| <b></b> |             |         |  | Project N   | lo:  | SJ89-99 | 9S-1      |           | Clien                 | t:               | Shell Oil Products   | US  | Well No: MW-11                          |
|---------|-------------|---------|--|---|--|---------|-----------|-----------|-----------------------|------------------|----------------------|---|---|
|         |             |         |  | Logged By:     Ar       Driller:     Griphing Method:       Drilling Method:     Hi       Sampling Method:     State Size:       I     Casing Type:     State Size: |  | Andy Pi | ersio     |           | Loca                  | tion             | 8999 San Ramon       | 00.   | Page 1 of 2                             |
|         |             |         |  | Driller: Gregg<br>Drilling Method: HSA / AK (7'<br>Sampling Method: SS<br>Casing Type: Sch 40 PVC<br>Slot Size: 0.01<br>Gravel Pack: #2/12 sand<br>Elevation        |  |         |           |           | Date                  | Drilled          | 7/25 & 28/06         | Location Man                                    |   |
|         | )/          | ٦ŀ      | ta   | Drilling M  | lethod <sup>,</sup>  | HSA / A | K (7')    |           | Hole                  | Diamete          | er: 10"/6"           | Location map                                    |   |
|         | 7           |         | ια   | Drilling Method: HSA / AK<br>Sampling Method: SS<br>Casing Type: Sch 40 PV<br>Slot Size: 0.01<br>Gravel Pack: #2/12 sand<br>Elevation                               |  |         | us (7 7   |           | Hole                  | Denth:           | 20'                  | Please se                                       | ee site man                             |
| I Е,    | avir        | onmo    | ontal  | Casino T  | bling Method: SS<br>ng Type: Sch 40 PVC<br>Size: 0.01<br>el Pack: #2/12 sand<br>Elevation No |         |           |           | Well                  | Diamete          | 20<br>er: 2"         |   |   |
|         | neu         | ltant   | e inc  | Slot Size   | ,<br>Abe:  | 0.01    | 1 40      |           | Well                  | Denth:           | 29'                  |   |   |
|         | nau         | IIIanii | s, mç.   | Gravel P  | ack:   | #2/12 s | and       |           | Casi                  | na Sticki        | in: NA               |   |   |
|         |             |         |  |   | Flevation  | 112,120 | T         | Nor       | thing                 |                  | Easting              |   |   |
|         |             |         |  |   |  |         |           |           |                       |                  |                      |   |   |
| Co      | Wel         | tion    |  | рарание<br>loisture<br>content<br>(рртт)<br>(рртт)<br>netration<br>lows/6")<br>pth (feet)   |  |         | Se        | minle     | <u>م</u>              |                  |                      |   |   |
|         | inipie<br>– |         | D Read<br>Moisture State<br>Mater Ponter<br>Plows/6  |   |  | (fe     | 2         |           | Ž.                    |                  |                      |   |   |
| ΥĘ      | sing        |         | Penet Para Control Con |   |  | Ъђ.     | Se        | eva       | oi                    |                  | HULUGT               | DESCRIPTION                                     |   |
| Bac     | Cas         |         | Level  |   |  | ec.     | Inte      | Ŭ,        |                       |                  |                      |   |   |
|         |             |         |  |   |  |         | AF ~3" as |           | ~3" asphalt and ~6" b | aserock          |                      |   |   |
|         |             |         |  |   |  |         | 1_1_      |           |                       | ┣───             |                      |   |   |
|         |             |         |  | 1   |  |         |           |           |                       | CL               | lean CLAY w/sand: o  | dark brown                                      | , medium stiff, 15-25% fine             |
|         |             |         |  |   |  |         | 2-        |           |                       |                  | to medium grained sa | ands, low p                                     | lasticity                               |
|         |             |         |  |   |  | 5       | -         |           |                       |                  |                      |   |   |
|         |             |         |  |   |  | l ∞ ⊕   | 3-        |           |                       |                  |                      |   |   |
|         |             |         |  |   |  | lg fe   | Ŭ         |           |                       |                  |                      |   |   |
|         |             |         |  |   |  | a Ž     | 4-        |           |                       | ]                |                      |   |   |
|         |             |         |  |   |  | ai.     | -         |           |                       |                  |                      |   |   |
|         |             |         |  | moist   | 275  | ع ٦     | 5-        |           | <b>1</b>              |                  |                      |   |   |
| ort     | 2           |         |  |   |  |         | Ŭ         |           |                       | ļ                |                      | 1777 mar 1996 mar 1996 have 1996 have 1996 have | . • • • • • • • • • • • • • • • • • • • |
| Ū       |             |         |  |   |  |         | 6-        |           | -                     | <b>`</b> \.      |                      | ×   |   |
|         | 2           |         |  |   |  |         |           |           | _                     | <u>``</u>        |                      |   |   |
| 8,808   |             |         |  |   |  | ★       | 7 -       |           | _                     |                  | sandy lean CLAY: II  | gnt brown,                                      | medium stiπ, 35-45% fine                |
|         |             |         |  |   |  |         |           |           |                       | -                | to medium grained sa | ands, low p                                     | nasticity                               |
|         |             |         |  | :   |  |         | 8-        |           |                       | 4                |                      |   |   |
|         |             |         |  |   |  |         |           |           |                       | -                | ······               |   |   |
|         |             |         |  | moist   | 0.8  | 2       | 9-        |           |                       | -                | 30.40% fine to       | medium a  | rained cands 5 15%                      |
|         | ¢.          | _       |  | moise   | 0.0  |         |           |           |                       | 1                | aravels up to 1      | neulun y<br>0 5" h-avie                         | diameter                                |
|         |             |         |  |   |  | 1       | 10-       |           | ·   •                 |                  | gravels up to t      | 0.0 D-axis                                      | ulameter                                |
|         |             |         |  |   |  |         |           |           |                       | 1                |                      |   |   |
|         |             | 1       |  |   |  |         | 11 -      |           |                       |                  |                      |   |   |
|         | 1           | -       |  |   |  |         |           | +         |                       | 1                |                      |   |   |
|         |             |         |  |   |  |         | 12-       |           |                       | 1                |                      |   |   |
|         | 2           |         |  |   |  |         | 40        | +         | 1                     | 1                |                      |   |   |
|         | 44 A        |         |  |   |  |         | 13-       |           | 1                     | 1                |                      |   |   |
|         |             |         |  |   |  | 6       | 11        |           | 1                     | 1                | vert stiff, 25-35    | 5% fine to r                                    | nedium grained sands                    |
|         |             |         |  | moist   | 0.8  | 8       | 14-       |           |                       | ]                |                      |   |   |
|         |             |         |  |   |  | 11      | 15        | 200       | ₹                     | ]                |                      |   |   |
|         |             |         |  |   |  | 1       | 10-       |           |                       | ]                |                      |   |   |
|         |             |         |  |   |  |         | 16-       |           |                       | ]                |                      |   |   |
|         |             | · · _   |  |   |  |         |           |           |                       |                  |                      |   |   |
|         |             |         |  |   |  |         | 17-       |           |                       | 4.               |                      |   |   |
| ii i    | 11111       |         |  | 1   |  | 1       | ''        |           |                       | $\sum_{i=1}^{n}$ |                      |   |   |
| ntor    |             |         | 1  |   |  | 1       | 18-       |           |                       | ``               | l                    |   |   |
| Bei     |             | _       |  |   |  | _       | .         | Artic To- |                       |                  |                      |   |   |
|         |             |         |  |   |  |         | 19-       |           | ₿Ţ_                   |                  | ciayey SAND: light b | rown, med                                       | ium dense, 25-35% fines,                |
|         |             | _       |  | moist   | 2.4  | 8       |           |           |                       | -                | no plasticity        |   |   |
|         | 6           |         |  |   |  | 15      | <u> </u>  |           | <u> </u>              | 1                |                      |   |   |

|        |          |              | Project N  | lo:       | SJ89-99      | S-1            |        | Clien    | t:                 |                               | Shell Oil Products | US           | Well No: MW-11                         |
|--------|----------|--------------|------------|-----------|--------------|----------------|--------|----------|--------------------|-------------------------------|--------------------|--------------|--|
|        |          |              | Logged E   | Зу:       | Andy Pe      | rsio           |        | Locat    | tion:              |                               | 8999 San Ramon     |              | Page 2 of 2                            |
|        |          | L _          | Driller:   |           | Gregg        |                |        | Date     | Drilled:           |                               | 7/25 & 28/06       | Location Map |  |
| )6     | ר.       | $\mathbf{R}$ | Drilling N | lethod:   | HSA / A      | K (7')         |        | Hole     | Diamete            | er:                           | 10"/6"             |              |  |
|        | <b>/</b> | LU I         | Sampling   | Method:   | SS           |                |        | Hole     | Depth:             |                               | 29'                | Please s     | ee site map                            |
| Invir  | onme     | ental        | Casing T   | vne:      | Sch 40 F     | ٧c             |        | Well     | ,<br>Diamete       | er:                           | 2"                 | 1            | ·                                      |
| oneul  | tante    | lnc          | Slot Size  | , .       | 0.01         |                |        | \\/ell   | Denth <sup>.</sup> |                               | 29'                |              |  |
| Unadi  | Lante    | », mo.       | Graval P   | ack:      | #7/12 cs     | nd             |        | Casir    | a Sticki           | un:                           | NA                 |              |  |
|        |          |              |            | Elevation | #2/12 3C     |                | North  | ina      | ig ollola          | T                             | Easting            | -            |  |
|        |          |              |            | Lievation |              |                | North  | mg       |                    |                               | Lasting            |              |  |
| Well   | ion      |              | moist 1.6  |           |              | Ç.             | San    | anle     | a                  |                               |                    | -            | <u> </u>                               |
| unpier |          | Static       | ent        | m) (m     | atic<br>s/6" | (fec           |        |          | , d×               |                               |                    |              |  |
| ing    |          | Water        | Sont       | (ppi      | low lo       | 뮲              | Nel 1  | Na       | i l                |                               | LI                 | THOLOGY      | DESCRIPTION                            |
| Cae    |          | Level        | ΣO         |           | Pel (g)      | Del            | l de C | Inte     | Ň                  |                               |                    |              |  |
|        |          |              |            |           |              |                |        |          | sc                 | clay                          | ey SAND (cont.)    |              |  |
|        |          |              |            |           |              | 21             |        |          |                    |                               |                    |              | ······································ |
|        |          |              |            |           |              |                |        |          |                    |                               |                    |              |  |
|        |          |              |            |           |              | 22 —           |        |          |                    |                               |                    |              |  |
|        |          |              |            |           |              | 23             |        |          |                    |                               |                    |              |  |
|        |          |              |            |           | 8            |                |        | •        |                    |                               | 30-40% fines,      | medium de    | ense, trace gravels up to              |
|        |          |              | moist      | 1.6       | 11           | 24             |        |          |                    |                               | 0.5" diameter      |              |  |
|        | <u> </u> |              |            |           | 16           | 25 —           |        | ¥        |                    |                               |                    |              |  |
|        |          |              |            |           |              | 26             |        |          |                    |                               |                    |              |  |
|        |          |              |            |           | 5            |                |        | •        |                    |                               | 40-50% fines.      | no gravels   | · · · · · · · · · · · · · · · · · · ·  |
|        |          |              | moist      | 1,2       | 7            | 27 —           |        |          |                    |                               |                    |              | · · · · ·                              |
|        | 28.3     |              |            |           | 11           | 28             |        | <b>.</b> |                    |                               |                    |              |  |
|        | 2:20     | )p           |            |           |              | 29 —           |        |          |                    |                               |                    |              |  |
|        |          |              |            |           |              | - 30           |        |          |                    |                               | 29  bg = bottor    | n or boring/ | weii                                   |
|        |          |              |            |           |              | 1              |        |          |                    |                               |                    |              |  |
|        |          |              |            |           |              | 31             |        |          |                    |                               | ·                  |              |  |
|        |          |              |            |           |              | 32 —           |        |          | -                  |                               |                    |              |  |
|        |          |              |            |           |              | 33 —           |        |          |                    |                               |                    |              |  |
|        |          |              |            |           | 1            | -              |        |          |                    |                               |                    |              |  |
|        |          |              |            |           |              | - <sup>-</sup> |        |          | -                  |                               |                    |              |  |
|        |          |              |            |           |              | 35             |        |          | 1                  |                               | ·                  |              |  |
|        |          |              |            |           |              | 36 —           |        |          | -                  | <b> </b>                      |                    |              |  |
|        |          |              |            |           |              | 37             | 1      |          | 1                  | 17 19 1 day 1 day 1 day 1 day |                    |              |  |
|        |          |              |            |           |              | -              | +      |          | ł                  |                               |                    |              |  |
|        |          |              |            |           | 1            | 38—            |        |          |                    |                               |                    |              |  |
|        |          |              |            |           |              | 39             |        |          | ]                  |                               |                    |              |  |
|        |          |              |            |           |              | 40 -           | +      | <u> </u> | 1                  | <u> </u>                      |                    |              |  |

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| DELTA   | Client Shell Oil Products<br>Project Number SJ899SA   | BORING LOG   | Well No.<br>MW-12   |
|---|---|--|---|
| Address:<br>899 San Ramon Road<br>Dublin, CA.<br>Logged By: M. Lambert  | Drilling Date(s): 12/19/2007<br>Drilling Company: Test America<br>Drilling Method: HSA<br>Boring Depth (ft): 38 | Boring diameter (in.): <b>10''</b><br>Sampling Method: <b>Split Spoon</b><br>Well Depth (ft.): <b>38'</b><br>Casing Diameter (in.): <b>4''</b> | Casing Material: SCH 40 PVC<br>Screen Interval: 28'-38'<br>Screen slot size: 0.010''<br>Sand Pack: <b>#2/12</b> |
| Depth (ft.)<br>Water Level<br>Soil/Rock<br>Graphic<br>Sampled<br>Interval<br>Blow Counts<br>(blows/ft)  | (%)<br>A<br>Soil/Rock \<br>Soil/Rock \  | Visual Description   | PID Reading<br>(ppm)<br>Well<br>Completion<br>Depth (ft.)   |
| 0<br><br><br>5<br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br><br>- | ASPHALT: 6"<br>GW: GRAVEL with clay, brown,<br>Airknifed to 8' bgs. on 12/17/2007                               | low plasticity, dense, moist.  |   |
|   | CL: Gravelly CLAY with sand, br   | own, 70% fines, low plasticity, dens<br>dense, low plasticity, trace gravel,   | e, moist. 6.3 - 10<br>moist. 2.2 - 15   |
| 20  | )0% (same as above.)  |  | 5.8   |
| 25 - 39 10  | 00% Sandy CLAY, brown, 65% fines, lo  | ow plasticity, dense, moist, trace gra   | avel. 0.4   |
| 30 - 35 10<br>  | 90% SC: Clayey SAND, dark brown, 5  | 0% fines, low plasticity, dense, moi   | st. 0.1   |
|   | CL: Sandy CLAY, brown, 55% fir<br>End of boring: 38' bgs.   | nes, low plasticity, dense, wet.   | 0.1   |
| 40  |   |  |   |
| Page 1 of 1   |   |  | 45  |

| c   |           | NAME           | 1<br>2<br>0<br>2<br>2<br>1<br>2 | Con<br>5900<br>Eme<br>Tele<br>Fax:<br>Shell | estoga<br>) Hollis<br>ryville,<br>phone<br>510-4<br>i <u>Oil Pro</u> | Rove<br>Stree<br>CA 9<br>510-<br>120-91 | rs & A<br>et, Sui<br>94608<br>9420-0<br>70<br><u>US</u> | Associates<br>te A<br>1700 | BORING/WELL NAME  | BORI  | NG                     | / WELL LO                                       | G        |
|---|-----------|----------------|---------------------------------|---|--|---|---|----------------------------|---|---|------------------------|---|----------|
| JOB/SITE NAME<br>LOCATION<br>PROJECT NUMBER<br>DRILLER<br>DRILLING METHOD<br>BORING DIAMETER<br>LOGGED BY |           |                | ER                              | Sheli<br>8999<br>2407<br>Case               | <u>  - branc</u><br>  <u>San R</u><br> 24<br> ade Dri                | <u>led Se</u><br>amon I<br>illing, L    | rvice S<br>Road, I<br>P.                                | itation<br>Dublin, CA      | DRILLING STARTED DRILLING COMPLETED WELL DEVELOPMENT DA GROUND SURFACE ELEY |   |                        | 13-May-11 (33.0 gallons)<br>416.31 ft above msl |          |
|   |           |                | G                               | Holic                                       | w-stem   | auger                                   |   |                            | TOP OF CASING ELEVAT  | 415.77 ft above msl<br>30 to 45 fbg<br>)40.00 fbg |                        |   |          |
|   |           |                | ER                              | 8″<br>W. N                                  | lartinez   |   | · · · · ·   |                            | SCREENED INTERVALS<br>DEPTH TO WATER (First Encountered)                    |   |                        |   |          |
| REVIEWED BY   |           |                | <u>P. Sc</u>                    | <u>haefer</u>                               | PG#56  | 512                                     |   | DEPTH TO WATER (Static     | ;)  | 24  | 24.60 fbg (13-May-11)  |   |          |
| R   | REMAR     | KS .           | ·<br>                           | Airkn                                       | ifed to  | 5 fbg                                   |   |                            |   | ,   | +                      | · · · · · · · · · · · · · · · · · · ·           |          |
|   | PID (ppm) | BLOW<br>COUNTS | SAMPLE ID                       | EXTENT                                      | DEPTH<br>(fbg)   | U.S.C.S.                                | GRAPHIC<br>LOG  | LITHO                      | DLOGIC DESCRIPTION  |   | CONTACT<br>DEPTH (fbg) | WELL DIAGRAM                                    | I        |
|   |           |                |                                 |   |  |   |   | See boring log MW-         | 13C for lithology.  | ····  | 1                      |   | <u> </u> |
| MELL LOG (PID) 1:SHELLIG-CHARSV407V240724-1/244DE5-1/240724.GPJ DEFAULT.GDT 5/25/11                       |           |                |                                 |   |  |   |   |                            |   |   |                        | Portland Type                                   | e //!    |

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**BORING / WELL LOG** 

CLIENT NAME JOB/SITE NAME LOCATION

WELL LOG (PID) INSHELLIG-CHARSI2407-1/240724-1/244DE5-1/240724.GPJ DEFAULT.GDT 5/25/11

|   | Shell Oil Products US           |
|---|---------------------------------|
|   | Shell - branded Service Station |
|   | 8999 San Ramon Road, Dublin, CA |
| - |                                 |

BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED

Continued from Previous Page

MW-13 18-Feb-11

02-Mar-11

|           |      |           | _      |                |          | ***            |                        |                        |  |
|-----------|------|-----------|--------|----------------|----------|----------------|------------------------|------------------------|--|
| PID (ppm) | BLOW | SAMPLE ID | EXTENT | DEPTH<br>(fbg) | U.S.C.S. | GRAPHIC<br>LOG | LITHOLOGIC DESCRIPTION | CONTACT<br>DEPTH (fbg) | WELL DIAGRAM                                   |
|           |      |           |        |                |          |                |                        |                        | ✓ 2" diam., Schedule<br>40 PVC                 |
|           |      |           |        |                |          |                |                        |                        | M Bentonite Seal                               |
|           |      |           |        |                |          |                |                        | -                      | Monterey Sand<br>#2/12                         |
|           |      |           |        | ·              |          | ·<br>·         |                        |                        |  |
|           |      |           |        |                |          |                |                        |                        |  |
|           |      |           |        | 35             |          |                |                        |                        |  |
|           |      |           |        |                |          |                |                        | -                      | 2"-diam., 0.010"<br>slotted Schedule 40<br>PVC |
|           |      |           |        |                |          |                |                        |                        |  |

| Conestoga Rovers & Associates |
|-------------------------------|
| 5900 Hollis Street, Suite A   |
| Emeryville, CA 94608          |
| Telephone: 510-420-0700       |
| Fax: 510-420-9170             |

# **BORING / WELL LOG**

CLIENT NAME JOB/SITE NAME LOCATION

| Shell Oil Products US           |
|---------------------------------|
| Shell - branded Service Station |

8999 San Ramon Road, Dublin, CA

BORING/WELL NAME DRILLING STARTED DRILLING COMPLETE

Continued from Previous Page

MW-13 18-Feb-11

| D | 02-Mar-11 |
|---|-----------|
|   |           |

|                                     | PID (ppm) | BLOW<br>COUNTS | SAMPLE ID | EXTENT | DEPTH<br>(fbg) | U.S.C.S. | GRAPHIC<br>LOG | LITHOLOGIC DESCRIPTION | CONTACT<br>DEPTH (fbg) | WELL DIAGRAM                 |
|-------------------------------------|-----------|----------------|-----------|--------|----------------|----------|----------------|------------------------|------------------------|------------------------------|
|                                     |           |                |           |        | 45             |          |                |                        | 45.0                   | Bottom of Boring<br>@ 45 fbg |
|                                     |           |                |           |        |                |          |                |                        |                        |                              |
| PJ DEFAULT.GDT 5/25/11              |           |                |           |        |                |          |                |                        |                        |                              |
| RS\2407\240724~1\244DE5~1\240724.GF |           |                |           |        |                |          |                |                        |                        |                              |
| WELL LOG (PID) INSHELLING-CHA       |           |                |           |        |                |          |                |                        |                        |                              |
| A CONTRACT OF |                | · · · · · · · · · · · · · · · · · · · | Con<br>5900<br>Eme<br>Tele<br>Fax: | estoga<br><u>0 Holli</u><br>eryville<br>phone<br>510- | a Rove<br><u>s Stree</u><br>CA 9<br>2 510<br>420-91 | ers & A<br><u>et, Sui</u><br>94608<br>-420-0<br>170 | Associates<br>te A<br>1700            |                        | BORI         | NG                        | / WELL LOG           | 6 |  |  |
|---------------|----------------|---------------------------------------|------------------------------------|---|---|---|---------------------------------------|------------------------|--------------|---------------------------|----------------------|---|--|--|
| CLIENT        | NAME           | _                                     | Shel                               | I Oil Pr  | oducts  | US  | ······                                | BORING/WELL NAME       | MW-13B       |                           |                      |   |  |  |
| JOB/SIT       | TE NAME        |                                       | Shel                               | l - bran  | ded Se  | rvice S   | tation                                | DRILLING STARTED       | 18-Feb-11    |                           |                      | _ |  |  |
| LOCAT         | ION (          | -                                     | 8999                               | San F   | tamon I   | Road, I   | Dublin, CA                            | DRILLING COMPLETED     | 03-Mar-11    |                           | 1                    |   |  |  |
| PROJE         | CT NUME        | ER _                                  | 2407                               | 24  |   |   |                                       | WELL DEVELOPMENT DA    | ATE (YIELD)  | 13-May-11 (72.0 gallons). |                      |   |  |  |
| DRIĻLE        | R              |                                       | Case                               | ade D   | rilling, L  | P.  |                                       | GROUND SURFACE ELE     |              | 416.1                     | 0 ft above msi       |   |  |  |
| DRILLIN       | IG.METH        | OD                                    | Holic                              | w-sten  | n auger   | •   | · · · · · · · · · · · · · · · · · · · | TOP OF CASING ELEVAT   | 'ION _       | 415.3                     | 39 ft above msl      | _ |  |  |
| BORING        |                | FER                                   | 8"                                 |   |   |   |                                       | SCREENED INTERVALS     | _            | 58 to                     | 68 fbg               | _ |  |  |
| LOGGE         | DBY            |                                       | W.N                                | lartinez  | <u>z</u>  |   |                                       | DEPTH TO WATER (First  | Encountered) | 40                        | 0.00 fbg             | Z |  |  |
| REVIEW        | VED BY         | ·                                     | P. S(                              | chaefei   | PG#5  | 512   |                                       | DEPTH TO WATER (Static | >}           | 23                        | 3.40 fbg (13-May-11) | Ľ |  |  |
| REMAR         | KS             |                                       | Airkr                              | ifed to   | 5 fbg   |   |                                       |                        |              |                           |                      | _ |  |  |
| PID (ppm)     | BLOW<br>COUNTS | SAMPLE ID                             | EXTENT                             | DEPTH<br>(fbg)  | U.S.C.S.  | GRAPHIC<br>LOG                                      | LITHC                                 | DLOGIC DESCRIPTION     |              | CONTACT<br>DEPTH (fbg)    | WELL DIAGRAM         |   |  |  |
|               |                |                                       |                                    |   |   |   | See boring log MW-                    | I3C for lithology.     |              |                           |                      |   |  |  |
|               |                |                                       |                                    |   |   |   |                                       |                        |              |                           |                      |   |  |  |

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

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**BORING / WELL LOG** 

CLIENT NAME JOB/SITE NAME LOCATION Shell Oil Products US Shell - branded Service Station

8999 San Ramon Road, Dublin, CA

BORING/WELL NAME DRILLING STARTED

Continued from Previous Page

18-Feb-11

MW-13B

DRILLING COMPLETED 03-Mar-11

CONTACT DEPTH (fbg) SAMPLE ID PID (ppm) BLOW U.S.C.S. GRAPHIC LOG DEPTH (fbg) EXTENT LITHOLOGIC DESCRIPTION WELL DIAGRAM Portland Type I/II Ţ -25 •**3**0 Well LOG (PID) INSHELLIG-CHARS/2407-/240724-1/244DE5-1/240724.GPJ DEFAULT.GDT 5/25/11 -35 Ŷ 40

| and the second |  |
|--|--|
|  |  |

**BORING / WELL LOG** 

**CLIENT NAME** JOB/SITE NAME LOCATION

Shell Oil Products US Sheil - branded Service Station

8999 San Ramon Road, Dublin, CA

BORING/WELL NAME DRILLING STARTED

Continued from Previous Page

MW-13B 18-Feb-11

DRILLING COMPLETED

03-Mar-11

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

WELL LOG (PID) INSHELLIG-CHARSI2407-240724-11240E5-11240724.GPJ DEFAULT.GDT 5/25/11

|           | Conestoga Rovers & Associates<br>5900 Hollis Street, Suite A |           |                     |                            |                         |                      | Associates     |                    | BORING / WELL LOG |                        |     |                              |  |  |
|-----------|--|-----------|---------------------|----------------------------|-------------------------|----------------------|----------------|--------------------|-------------------|------------------------|-----|------------------------------|--|--|
|           |  |           | Eme<br>Tele<br>Fax: | eryville<br>phone<br>510-4 | , CA 9<br>510<br>420-91 | 94608<br>420-0<br>70 | 0700           |                    |                   |                        |     |                              |  |  |
| CLIENT    | NAME   |           | Shel                | l Oil Pr                   | nducts                  | us                   |                | BORING/WELL NAME   | MW-13B            |                        |     |                              |  |  |
| JOB/SI    |  | -         | Shel                | l - bran                   | ded Se                  | rvice S              | station        | DRILLING STARTED   | 18-Feb-11         |                        |     |                              |  |  |
| LOCAT     | ION  |           | 8999                | ) San R                    | amon                    | Road, I              | Dublin, CA     | DRILLING COMPLETED | 03-Mar-11         |                        |     |                              |  |  |
|           |  |           |                     |                            |                         |                      | Continued from | n Previous Page    |                   |                        |     |                              |  |  |
| PID (ppm) | BLOW<br>COUNTS   | SAMPLE ID | FXTENT              | DEPTH<br>(fbg)             | Ú.S.C.S.                | GRAPHIC<br>LOG       | LITHO          | LOGIC DESCRIPTION  |                   | CONTACT<br>DEPTH (fbg) | WEL | L DIAGRAM                    |  |  |
|           |  |           |                     |                            |                         |                      | -<br>-         |                    |                   | 68.0                   |     | Bottom of Boring<br>@ 68 fbg |  |  |
|           |  |           |                     |                            |                         |                      |                |                    |                   |                        |     |                              |  |  |
|           |  |           |                     |                            |                         |                      |                |                    |                   |                        |     |                              |  |  |
|           |  |           |                     |                            |                         |                      |                | ·<br>·<br>·        |                   |                        |     |                              |  |  |
|           |  |           |                     |                            |                         |                      |                |                    |                   |                        |     |                              |  |  |

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

|  |           |                 |                                   | Con<br>5900<br>Eme<br>Tele<br>Fax: | estoga<br>0 Hollis<br>eryville<br>ephone<br>510-4 | Rove<br>Stree<br>CA<br>510<br>20-9 | ers & A<br>et; Suit<br>94608<br>-420-0<br>170 | ssociates<br>te A<br>700  |  | BOR  | ING                      | 6 / WELL L                             | OG       |
|--|-----------|-----------------|-----------------------------------|------------------------------------|---|------------------------------------|---|---|--|--|--------------------------|--|----------|
|  | CLIEN     | TNAME           | _                                 | Shei                               | <u>l Oil</u> Pro                                  | ducts                              | US  |   | BORING/WELL NAME   | MW-13C   |                          |  |          |
|  | JOB/SI    |                 | =                                 | Shel                               | l - brand   | ded Se                             | rvice S                                       | tation  | DRILLING STARTED   | 18-Feb-11  |                          | ······································ |          |
|  | LOCAT     | ION             | -                                 | 8999                               | ) San R   | amon                               | Road, C                                       | Dublin, CA  | DRILLING COMPLETED   | 02-Mar-11  |                          |  |          |
|  | PROJE     |                 | BER                               | 2407                               | /24   |                                    |   | · · · · · · · · · · · · · · · · · · ·   | WELL DEVELOPMENT DA  | TE (YIELD)   | 13-M                     | lay-11 (101.0 gallons)                 | )`       |
|  | DRILLE    | ER<br>No MET    | -                                 | Case                               | cade Dr   | illing, l                          | P.  |   | GROUND SURFACE ELEN  | ATION  | 415.7                    | 73 ft above msi                        |          |
|  | BODIN     |                 | 100<br>TED -                      | Holic                              | w-stem  | auger                              | ,<br>   |   | TOP OF CASING ELEVAT   |  | 415.7                    | 73 ft above msl                        |          |
|  | LOGGE     | G DIAME         | -                                 | 8"<br>W N                          | lartinez  |                                    |   |   | SCREENED INTERVALS   |  | 85 to                    | 95 fbg                                 | <u></u>  |
|  | REVIE     | NED BY          |                                   | P. S                               | chaefer   | PG#5                               | 612   |   | DEPTH TO WATER (FIRST<br>DEPTH TO WATER (Statio  | Encountered)   |                          | 3.55 fbg (13 May 11)                   | <u>₹</u> |
|  | REMAR     | RKS             |                                   | Airkr                              | nifed to a  | 5 fbg                              |   |   |  | ·)   |                          | 1.55 lbg (15-lvlay-11)                 | <u> </u> |
|  |           | 1               |                                   |                                    |   |                                    |   |   |  |  |                          | ······································ |          |
|  | (mqq) DId | BLOW<br>COUNTS  | SAMPLE ID                         | EXTENT                             | DEPTH<br>(fbg)                                    | U.S.C.S.                           | GRAPHIC<br>LOG                                | LITHC   | DLOGIC DESCRIPTION   |  | CONTACT<br>DEPTH (fbg)   | WELL DIAGR                             | АМ       |
| 38/2407/2400241/2440E51/240724.GPJ_DEFAULT.GDT_5/25/11 | 0.0       | 4/5/5<br>7/12/6 | MW-13<br>-5.5<br>MW-13 (<br>-10.5 |                                    |   | CL<br>CH<br>ML                     |   | ASPHALT<br>Gravelly CLAY (CL):<br>40% clay, 30% silt, 3<br>CLAY (CH): very dark<br>15% silt, 5% fine grav<br>SILT with sand (ML):<br>30% clay, 55% silt, 11<br>medium plasticity, fill.<br>CLAY with sand (CL)<br>moist, 50% clay, 30%<br>plasticity, fill. | dark reddish gray (10R 4/1)<br>0% gravel, low plasticity, fill<br>(gray (5YR 3/1), moist, 80%<br>vel, high plasticity, fill<br>very dark gray (5YR 3/1), n<br>0% fine sand, 5% fine grave<br>(2 dark reddish brown (5YR 2<br>5 silt, 20% fine sand, mediur<br>it, 20% fine sand, mediur<br>(2.5YR 5/2), moist, 10%<br>nd, 10% fine gravel, low plast | , moist,<br>6 clay,<br>noist,<br>al,<br>2.5/2),<br>n | 0.3<br>3.0<br>4.0<br>5.0 |  |          |
| WELL LOG (PID) ANHELLIG-CHA                            |           |                 |                                   |                                    |   |                                    |   |   |  |  | 20.0                     |  |          |

Continued Next Page



Continued Next Page

**BORING / WELL LOG** Conestoga Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: 510-420-0700 Fax: 510-420-9170 CLIENT NAME Shell Oil Products US BORING/WELL NAME **MW-13C** JOB/SITE NAME 18-Feb-11 Shell - branded Service Station DRILLING STARTED LOCATION 8999 San Ramon Road, Dublin, CA DRILLING COMPLETED 02-Mar-11 Continued from Previous Page CONTACT DEPTH (fbg) SAMPLE ID PID (ppm) BLOW EXTENT DEPTH (fbg) GRAPHIC LOG U.S.C.S. LITHOLOGIC DESCRIPTION WELL DIAGRAM 43.3 45 CLAY with sand (CL): very dark grayish brown (2.5Y 3/2), wet, 60% clay, 20% silt, 15% fine sand, 5% fine 7/9/13 MW-13 C -45.5 0.1 CL gravel, medium plasticity. 48.3 -50 SILT (ML): very dark grayish brown (2.5Y 3/2), moist, 40% clay, 60% silt, medium plasticity. 5/10/10 MW-13 C -50.5 0.3 ML WELL LOG (PID) 1:ISHELLIG-CHARS/2407--/240724--1/244DE5--1/240724.GPJ DEFAULT.GDT 5/25/11 -55 @55 fbg; 20% clay, 70% silt, 10% sand, low plasticity. 7/9/13 MW-13 C -55.5 0,1 58.3 60 CLAY with sand (CL): dark grayish brown (2.5Y 4/2), moist, 60% clay, 20% silt, 15% fine sand, 5% fine gravel, 10/10/15 MW-13 C -60.5 0,8 CL low plasticity. 63.3 SILT (ML): light olive brown (2.5Y 5/3), moist, 40% clay, 0/10/12 60% silt, low plasticity. MW-13 C 0.6 Continued Next Page

PAGE 3 OF 5

|         | No. Constanting Property in | · · · ·           |
|---------|-----------------------------|-------------------|
| :35.442 | 18 P                        | 14                |
|         |                             | n yn<br>La gweith |

**BORING / WELL LOG** 

CLIENT NAME JOB/SITE NAME LOCATION

Ω

Shell Oil Products US Shell - branded Service Station 8999 San Ramon Road, Dublin, CA BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED

MW-13C 18-Feb-11

Continued from Previous Page

02-Mar-11

CONTACT DEPTH (fbg) PID (ppm) BLOW EXTENT GRAPHIC LOG DEPTH (fbg) ഗ് SAMPLE U.S.C.( LITHOLOGIC DESCRIPTION WELL DIAGRAM -60.5 ML @ 70 fbg: <u>Sandy SILT (ML):</u> 10% clay, 60% silt, 30% fine sand. 0/10/10 MW-13 C 0.8 -70.5 73.3 CLAY (CL); reddish gray (5YR 5/2), moist, 60% clay, 40% silt, medium plasticity. 10/14/18 MW-13 C 0.9 -75.5 CL DEFAULT.GDT 5/25/11 2" diam., Schedule 40 PVC 78.3 80 <u>Sandy SILT (ML):</u> reddish gray (5YR 5/2), moist, 10% clay, 60% silt, 30% fine sand, low plasticity. MELL LOG (PID) INSHELLIG-CHARS/2407--/240724-1/244DE5-1/240724 GPJ Bentonite Seal 0/11/10 MW-13 C 0,1 -80;5 ML 83,3 Monterey Sand #2/12 CL 85  $\underline{\text{CLAY}}$  with sand (CL): reddish gray (5YR 5/2), moist, 50% clay, 30% silt, 20% fine sand, medium plasticity. 7/19/24 0.5 MW-13 C 86.0 -85.5 Silty SAND (SM): reddish gray (5YR 5/2), moist, 20% silt, 80% fine to medium sand. SM 88.3 SAND (SP): brown (7.5YR 5/2), wet, 95% fine to coarse Continued Next Page PAGE 4 OF 5

**BORING / WELL LOG** 

CLIENT NAME JOB/SITE NAME LOCATION

5/25/11

WELL LOG (PID) INSHELLIG-CHARS/2407-/240724-1/2440E5-1/240724.GP3 DEFAULT.GDT

Shell Oil Products US Shell - branded Service Station

8999 San Ramon Road, Dublin, CA

DRILLING STARTED DRILLING COMPLETED

BORING/WELL NAME

Continued from Previous Page

18-Feb-11

02-Mar-11

MW-13C

CONTACT DEPTH (fbg) SAMPLE ID PID (ppm) BLOW GRAPHIC LOG EXTENT DEPTH (fbg) U.S.C.S. LITHOLOGIC DESCRIPTION WELL DIAGRAM sand, 5% fine gravel. SP 90 2"-diam., 0.010" Slotted Schedule 40 PVC MW-13 C -90.5 7/9/12 0.1 91.0 SILT with sand (ML): brown, (7.5YR 4/3), moist, 25% clay, 50% silt, 20% fine sand, 5% fine gravel, medium plasicity ML 93.3 \_\_\_\_\_ CLAY (CH): brown (7.5YR 4/3), moist, 95% clay, 5% 2/17/30 MW-13 C -95.5 coarse sand, high plasticity. 0,0 СН 98.3 Bentonite Seal 00 ML Sandy SILT (ML): brown (7.5YR 4/3), moist, 60% silt, 40% fine sand, low plasticity. 9/12/15 0.0 MW-13 C -100.5 101.5 Bottom of Boring @ 101.5 fbg

|   | CLIENT I<br>JOB/SITI<br>LOCATIO<br>PROJEC<br>DRILLEF<br>DRILLIN | NAME<br>E NAME<br>DN<br>ST NUMB<br>S<br>G METH | ER -      | Cone<br>5900<br>Eme<br>Telej<br>Fax:<br>Shell<br>8999<br>2407<br>Casc<br>Hollo | estoga<br>Hollis<br>ryville,<br>ohone:<br>510-4<br><u>Oil Pro</u><br>- brand<br>San Ra<br>24<br>ade Dri<br>w-stem | Rove<br>Stree<br>CA 9<br>510-<br>20-91<br>ducts<br>led Se<br>amon F | rs & A<br>et, Suit<br>4608<br>420-0<br>70<br><u>US</u><br><u>rvice S</u><br>Road, I | ssociates<br>e A<br>700<br>tation<br>Dublin, CA | BORING/WELL NAME<br>DRILLING STARTED<br>DRILLING COMPLETED<br>WELL DEVELOPMENT D/<br>GROUND SURFACE ELE<br>TOP OF CASING ELEVAT | MW-14B<br>17-Feb-11<br>01-Mar-11<br>ATE (YIELD)<br>VATION | 13-May-11 (76.0 gallons)<br>413.33 ft above msl<br>413.33 ft above msl |  |  |  |
|---|---|--|-----------|--|---|---|---|---|---|---|--|--|--|--|
|   | BORING  | DIAME  | ER _      | 8"   |   |   |   |   | SCREENED INTERVALS  |   | 58 to 6  | 68 fbg                                 |  |  |
|   | LOGGE   | D BY   |           | W. M   | lartinez  | 0040  | ~ ~ ~   |   | DEPTH TO WATER (First   | Encountered)  | 40.  | .00 fbg                                |  |  |
|   | REVIEW  | ED BY  |           | <u>P. 50</u>   | ifed to f   | <u>PG#50</u> 5  | 512   |   | DEPTH TO WATER (Stati   | с)  | 20.  | .57 lbg (11-may-11) <u>-</u>           |  |  |
|   | REMAR   | 15   |           | AIIKI  | neu to :  | gui c   |   |   |   |   | +  | ······································ |  |  |
|   | PID (ppm)   | BLOW<br>COUNTS                                 | SAMPLE ID | EXTENT   | DEPTH<br>(fbg)  | U.S.C.S.  | GRAPHIC<br>LOG  | LITHC   | DLOGIC DESCRIPTION  | -   | CONTACT<br>DEPTH (fbg)   | WELL DIAGRAM                           |  |  |
|   |   |  |           |  |   |   |   | See boring log MW-                              | 14C for lithology.  |   |  |  |  |  |
| WELL LOG (PID) INSHELLIG-CHARS/2407240724-1/244DE5-1/240724.GPJ DEFAULT.GDT 5/25/14 |   |  |           |  |   |   |   |   |   |   |  |  |  |  |

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Continued Next Page

| CLIENT<br>JOB/SI<br>LOCAT   | NAME<br>TE NAME<br>ION |           | Cond<br>5900<br>Eme<br>Tele<br>Fax:<br>Shell<br>Shell<br>8999 | estoga<br>) Hollis<br>ryville,<br>phone:<br>510-4<br><u>0il Pro</u><br><u>- branc<br/>San Ra</u> | Rove<br>Stree<br>CA S<br>510<br>20-91<br>ducts<br>led Se<br>amon I | ers & A<br><del>et, Sui<br/>94608</del><br>420-0<br>170<br>US<br>rvice S<br>Road, I | Associates<br>te A<br>9700<br>Station<br>Dublin, CA | BORING/WELL NAME<br>DRILLING STARTED<br>DRILLING COMPLETED | MW-14B<br>17-Feb-11<br>01-Mar-11 |                        |                    |  |  |
|---|------------------------|-----------|---|--|--|---|---|--|----------------------------------|------------------------|--------------------|--|--|
| PID (ppm)   | BLOW<br>COUNTS         | SAMPLE ID | EXTENT  | DEPTH<br>(fbg)   | U.S.C.S.   | GRAPHIC<br>LOG  | Continued fro.                                      | m Previous Page  |                                  | CONTACT<br>DEPTH (fbg) | WELL DIAGRAM       |  |  |
| WELL LOG (PID) 1:NBHELLIG-CHARSV2407V2407241/240F24.GPJ DEFAULT.GDT 5/25/11 |                        |           |   |  |  |   |   |  |                                  |                        | Portland Type I/II |  |  |

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|--|-------|----------|
| 1<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 | , A   | e.       |

**BORING / WELL LOG** 

JOB/SITE NAME LOCATION

WELL LOG (PID) INSHELLIG-CHARSI2407---240724--1/240E5--1/240724.GPJ DEFAULT.GDT 5/25/11

CLIENT NAME

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

Continued from Previous Page

01-Mar-11

| (mqq) Olq | BLOW<br>COUNTS | SAMPLE ID | EXTENT | DEPTH<br>(fbg)   | U.S.C.S.                   | GRAPHIC<br>LOG | LITHOLOGIC DESCRIPTION | CONTACT<br>DEPTH (fbg) | WELL DIAGRAM                                     |  |
|-----------|----------------|-----------|--------|------------------|----------------------------|----------------|------------------------|------------------------|--|--|
|           |                |           |        | <br><br><br><br> |                            |                |                        |                        | ✓ 2" diam., Schedule<br>40 PVC                   |  |
|           |                |           |        |                  | . 1                        |                |                        |                        | -≪ Bentonite Seal                                |  |
|           |                |           |        | <br><br>60       |                            |                |                        |                        | Monterey Sand<br>#2/12                           |  |
|           |                |           |        |                  | -<br>-<br>-<br>-<br>-<br>- |                |                        |                        | ✓ 2"-diam., 0.020"<br>Slotted Schedule 40<br>PVC |  |

Continued Next Page

|                                  | 22<br>22                    | · · · · · · · · · · · · · · · · · · · |                                       | Cor<br>590<br>Em<br>Tel<br>Fax | nest<br>1 <del>0  </del><br>ery<br>eph<br>(; 5 | toga l<br>Iollis<br>ville,<br>ione:<br>i10-42 | Rover<br>Stree<br>CA 9<br>510-4<br>20-91 | rs & A<br><del>t, Suit</del><br>4608<br>420-0<br>70 | ssociates<br>a A<br>700 |  | BORI                             | NG                     | / WEI | LL LOG                       |
|----------------------------------|-----------------------------|---------------------------------------|---------------------------------------|--------------------------------|--|---|--|---|-------------------------|--|----------------------------------|------------------------|-------|------------------------------|
| •                                | CLIENT<br>JOB/SIT<br>LOCATI | NAME<br>E NAME<br>ON                  |                                       | She<br>She<br>899              | 9 S  | il Proc<br>brande<br>an Ra                    | ducts (<br>ed Ser<br>mon R               | <u>JS</u><br>vice Si<br>toad, E                     | ation<br>Jublin, CA     | BORING/WELL NAME<br>DRILLING STARTED<br>DRILLING COMPLETED | MW-14B<br>17-Feb-11<br>01-Mar-11 |                        |       |                              |
| _                                |                             |                                       |                                       |                                |  |   |  | · · · ·   | Continued fro           | om Previous Page   |                                  |                        |       |                              |
|                                  | PID (ppm)                   | BLOW<br>COUNTS                        | SAMPLE ID                             |                                |  | UEPTH<br>(fbg)                                | U.S.C.S.                                 | GRAPHIC<br>LOG                                      | ЦТН                     | OLOGIC DESCRIPTION   |                                  | CONTACT<br>DEPTH (fbg) | WEL   | L DIAGRAM                    |
|                                  |                             |                                       |                                       |                                |  | -   |  |   |                         |  |                                  | 68.0                   |       | Bottom of Boring<br>@ 68 fbg |
|                                  |                             |                                       |                                       | · · · · ·                      |  | r<br>r  |  |   |                         |  |                                  |                        |       |                              |
| 11                               |                             |                                       |                                       |                                |  | -   |  |   |                         |  |                                  |                        |       |                              |
| 724.GPJ DEFAULT.GDT 5/25/        |                             |                                       |                                       | -                              |  |   |  |   |                         |  |                                  |                        |       |                              |
| 407\240724-1\244DE5-1\240        |                             |                                       |                                       |                                |  |   |  |   |                         |  |                                  |                        |       |                              |
| JELL LOG (PID) INSHELLIG-CHARSV2 |                             |                                       | · · · · · · · · · · · · · · · · · · · |                                |  | •   |  |   |                         |  |                                  |                        |       |                              |

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5/25/11

DEFAULT.GDT

INSHELLNG-CHARS/2407--/240724-1/244DE5-1/240724.GPJ

LOG (PID)

WELL

PAGE 1 OF 5

**BORING / WELL LOG** Conestoga Rovers & Associates 5900 Hollis Street, Suite A Emeryville, CA 94608 Telephone: 510-420-0700 Fax: 510-420-9170 MW-14C Shell Oil Products US BORING/WELL NAME CLIENT NAME 18-Feb-11 JOB/SITE NAME DRILLING STARTED Shell - branded Service Station DRILLING COMPLETED 02-Mar-11 LOCATION 8999 San Ramon Road, Dublin, CA Continued from Previous Page CONTACT DEPTH (fbg) ⊵ PID (ppm) BLOW GRAPHIC LOG EXTENT ഗ് DEPTH (fbg) SAMPLE U.S.C. LITHOLOGIC DESCRIPTION WELL DIAGRAM

<u>SILT with sand (ML):</u> dark yellowish brown (10YR 4/4), moist, 25% clay, 60% silt, 15% fine sand, medium 5/5/5 MW-14 C-20.5 0.3 ML plasticity. 23.3 CLAY with sand (CL): brown (10YR 4/3), moist, 70% 4/9/10 clay, 10% silt, 20% fine sand, medium plasticity. MW-14 C-25,5 0.2 СL 28.3 30 SAND with silt (SP-SM): dark yellowish brown (10YR 8/10/10 SP-4/4), moist, 10% silt, 90% coarse sandl. MW-14 C-30.5 0.0 SM 33.3 Sandy CLAY (CL): dark yellowish brown (10YR 4/4), 7/9/12 moist, 50% clay, 20% silt, 30% fine sand, medium MW-14 C-35.5 0.0 plasticity. CL Portland Type I/II 38.3 SP X 40 SAND (SP): dark yellowish brown (10YR 4/4), moist, 5% 9/7/10 silt, 90% coarse sand, 5% gravel. 0.0 MW-14 C-40,5 41.0 CLAY with sand (CL): dark yellowish brown (10YR 4/4), moist, 80% clay, 5% silt, 15% fine sand, medium plasticity.

INSHELLIG-CHARS/2407--/240724~1/2440E5~1/240724.GPJ DEFAULT.GDT 5/25/11

WELL LOG (PID)

CLIENT NAME JOB/SITE NAME LOCATION

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Shell Oil Products US Shell - branded Service Station

DRILLING STARTED DRILLING COMPLETED 02-Mar-11

MW-14C 18-Feb-11

**BORING / WELL LOG** 

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BORING/WELL NAME 8999 San Ramon Road, Dublin, CA Continued from Previous Page 1 Т

|                                      | PID (ppm) | BLOW<br>COUNTS | SAMPLE ID       | EXTENT | DEPTH<br>(fbg) | U.S.C.S.  | GRAPHIC<br>LOG | LITHOLOGIC DESCRIPTION   | CONTACT<br>DEPTH (fbg) | WELL DIAGRAM |
|--------------------------------------|-----------|----------------|-----------------|--------|----------------|-----------|----------------|--|------------------------|--------------|
|                                      | 0.6       | 95/6           | MW-14<br>C-45.5 |        |                | CĿ        |                | @ 45 fbg; wet, 85% clay, 10% sand, 5% gravel, high plasticity.   |                        |              |
|                                      | 4.3       | 9/5/8          | MW-14<br>C-50.5 |        |                | ML        |                | <u>SILT with sand (ML):</u> dark yellowish brown, moist, 10%<br>clay, 70% silt, 20% fine sand, medium plasticity.  | 48.3                   |              |
| PJ DEFAULT.GDT 5/25/11               | 0.0       | 11/7/8         | MW-14<br>C-56.5 |        |                |           |                | <u>CLAY with sand (CL):</u> dark grayish brown (2.5Y 4/2),<br>moist, 60% clay, 20% silt, 20% fine sand, medium<br>plasticity.  | 53.3                   |              |
| ARS\2407\240724-1\244DE5~1\240724.GI | 0.0       | 9/12/15        | MW-14<br>C-80.5 |        |                | CL        |                | @ 60 fbg; <u>Sandy CLAY with gravel (CL):</u> dark yellowish<br>brown (10YR 4/4), wet, 65% clay, 20% fine sand, 15% fine<br>gravel, low plasticity.                    |                        |              |
| WELL LOG (PID) INSHELLNG-CH.         | 0.0       | 10/10/10       | MW-14           |        | 65             | SP-<br>SM |                | SAND with silt and gravel (SP-SM): yellowish brown<br>(10YR 5/3), wet, 10% silt, 70% fine sand, 20% fine gravel.<br>Sandy CLAY with gravel (CL): yellowish brown (10YR | 63.3                   |              |

CLIENT NAME JOB/SITE NAME LOCATION

Shell Oil Products US BORING/WELL NAME Shell - branded Service Station DRILLING STARTED 8999 San Ramon Road, Dublin, CA

DRILLING COMPLETED

MW-14C 18-Feb-11

02-Mar-11

Continued from Previous Page

|                                   | PID (ppm) | BLOW<br>COUNTS | SAMPLE ID       | EXTENT | DEPTH<br>(fbg) | U.S.C.S.  | GRAPHIC<br>LOG | LITHOLOGIC DESCRIPTION   | CONTACT<br>DEPTH (fbg) | WELL DIAGRAM                 |
|-----------------------------------|-----------|----------------|-----------------|--------|----------------|-----------|----------------|--|------------------------|------------------------------|
|                                   |           |                | C-60.5          |        |                | CL        |                | 5/6), moist, 50% clay, 30% sand, 20% gravel, low<br>plasticity.  | 68.3                   |                              |
|                                   | 0.1       | 4:4]4          | MW-14<br>C-70.5 |        | —70—<br>       | SP-<br>SM |                | <u>SAND with silt and gravel (SP-SM):</u> yellowish brown<br>(10YR 5/6), wet, 10% silt, 70% fine sand, 20%fine gravel.       | .71.0                  |                              |
| 5/25/11.                          | 0.0       | 445/5          | MW-14<br>C-75.5 |        |                | CL        |                | <u>Sandy CLAY with gravel (CL):</u> yellowish brown (10YR<br>5/6), moist, 50% clay, 30% sand, 20% gravel, low<br>plasticity. | 78.3                   |                              |
| 244DE5-1/240724.GPJ DEFAULT.GDT   | 0.0       | <b>6/8/10</b>  | MW-14<br>C-80.5 |        |                |           |                | <u>CLAY (CH):</u> yellowish brown (10YR 5/6), moist, 90%<br>clay, 5% fine sand, 5% fine gravel, high plasticity.             |                        | 2" diam., Schedule<br>40 PVC |
| ) I:\SHELL\6-CHARS\2407-\240724-1 | 0.0       | 6/15/20        | MW-14<br>C-85,5 |        | <br>85<br>     | СН        |                |  |                        | ✓ Bentonite Seal             |
| WELL LOG (PID                     |           |                |                 |        | <br>           |           |                | Continued Next Page  |                        | ✓ Monterey Sand<br>#2/12     |

**BORING / WELL LOG** 

**BORING / WELL LOG** 

CLIENT NAME JOB/SITE NAME LOCATION

Shell Oil Products US Shell - branded Service Station

8999 San Ramon Road, Dublin, CA

BORING/WELL NAME DRILLING STARTED DRILLING COMPLETED

MW-14C 18-Feb-11

02-Mar-11

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|   | PID (ppm) | BLOW<br>COUNTS | SAMPLE ID        | EXTENT | DEPTH<br>(fbg) | U.S.C.S.                              | GRAPHIC<br>LOG | LITHOLOGIC DESCRIPTION   | CONTACT<br>DEPTH (fbg) | WELL DIAGRAM                                      |
|---|-----------|----------------|------------------|--------|----------------|---------------------------------------|----------------|--|------------------------|---|
|   | 0.0       | 9/9/16         | MW-14<br>C-90,5  |        | - 90           | · · · · · · · · · · · · · · · · · · · |                | <u>Sandy CLAY (CL):</u> dark yellowish brown (10YR 3/6),<br>moist, 50% clay, 20% silt, 20% fine sand, 10% fine gravel,<br>medium plasicity.  | 90.5                   |   |
|   | 0.0       | 9/12/18        | MW-14<br>C-95.5  |        |                | CL                                    |                | @ 95 fbg; yellowish brown ( 10YR 5/6 ), 60% clay, 40%<br>sand, low plasticity.   |                        | ✓ 2"-diam., 0.010"<br>Slotted Schedule 40<br>PVC  |
| PJ DEFAULT.GDT 5/25/11                                      | 0.0       | 779/14         | MW-14<br>C-100.5 |        |                |                                       |                | @ 100 fbg; <u>CLAY (CL):</u> yellowish brown (10YR 5/6),<br>90% clay, 5% silt, 5% fine gravel, medium plasticity.<br>@ 100.5 fbg; <u>Gravelly CLAY (CL):</u> wet, low plasticity.<br>@ 101 fbg; <u>Sandy CLAY (CL)</u> . | _101.5                 | Bentonite Seat<br>Bottom of Boring<br>@ 101.5 fbg |
| LL LOG (PID) INSHELLV6-CHARS/2407/2407241/244DE51/240724.GF |           |                |                  |        |                |                                       |                |  |                        |   |

|       |   |         | Project    | No:        | SJ89-99        | -1<br>S-1 | (  | Clien | it:       | Shell Oil Products U                  | JS           | Boring No: GP-1                       |
|-------|---|---------|------------|------------|----------------|-----------|--|-------|-----------|---------------------------------------|--------------|---------------------------------------|
|       |   |         | Logged     | By:        | Heather        | Buckingh  | am l   | Loca  | tion:     | 8999 San Ramon R                      | d., Dublin   | Page 1 of 2                           |
|       |   | +       | Driller:   |            | Gregg          |           | [  | Date  | Drilled:  | 5/2/2005                              | Location Map |                                       |
|       | Jei   | la      | Drilling 1 | Method:    | Direct P       | ush       | H  | Hole  | Diamete   | er: 3″                                |              |                                       |
|       | •••   |         | Samplin    | ng Method: | GeoPro         | be        | ł  | Hole  | Depth:    | 28 ft                                 | Please se    | e site map                            |
| Er Er | vironm                                      | ental   | Casing '   | Туре:      |                |           | ١  | Well  | Diamete   | er:                                   |              |                                       |
| င၀၊   | nsultant                                    | s, Inc. | Slot Siz   | e:         |                |           | ١  | Well  | Depth:    |                                       |              |                                       |
|       |   |         | Gravel F   | Pack:      |                | <u>.</u>  | (  | Casir | ng Sticki | up:                                   |              |                                       |
|       |   |         |            | Elevation  |                |           | North  | ng    |           | Easting                               |              |                                       |
|       | Well  |         |            | 5          | T              | ~         |  |       |           | I                                     |              | · · · · · · · · · · · · · · · · · · · |
| Cor   | moletion                                    | Static  | ent        | adin 🖯     | ation<br>(/6") | feet      | Sam  | ple   | ype       |                                       |              | ·                                     |
| ¥fil  | gnia  | Water   | ont        | Ppr<br>Bpr | ows            | ţ.        | Ne.  | val   |           | LITI                                  | HOLOGY /     | DESCRIPTION                           |
| Bac   | Ca  | Level   | 20         | DIA        | 8 <del>0</del> | Del       | l Sec  | Inte  | Ň         |                                       |              |                                       |
|       | 8   |         |            |            | •              |           | ┼╨┬  |       | AF        | Asphalt 6", Base rock                 | 4"           |                                       |
|       |   |         |            |            |                |           |  |       |           |                                       | ·            |                                       |
|       | × _   |         |            |            |                |           |  |       | SM        | Silty SAND: light brow                | 'n; 20-30%   | silt; fine to coarse grained          |
|       |   |         |            |            |                | 2         |  |       |           | sand, well graded                     |              |                                       |
|       | ×   |         |            |            | 20             |           |  |       |           |                                       | · ·          |                                       |
|       | §   |         |            |            | jere           | 3         | - <b> </b>   |       |           |                                       |              |                                       |
|       |   |         |            |            | auç            |           | + +  |       |           |                                       |              |                                       |
|       | ·   |         |            |            | nd H           | 4         | ╉┈╴┨   |       |           | . <u></u>                             |              |                                       |
|       |   |         |            |            | ha             |           |  |       |           |                                       |              |                                       |
| e H   |   |         | drv        |            |                | 5         |  |       | · · · · · | Lean CLAY with Sand                   | l verv darl  | c brown: light brown                  |
|       |   |         |            |            |                |           |  |       | CL        | fine grained sand pock                | ets 0.5 cm   | in diameter: ~85% fines:              |
|       |   |         |            |            |                | 6         |  |       |           | ~15% sand; moderate                   | plasticity:s | oft                                   |
|       | ×   |         |            |            | ↓              |           |  |       |           |                                       | <u> </u>     |                                       |
|       |   |         |            |            | ·              | ·         |  |       |           |                                       |              |                                       |
|       |   |         |            |            |                | 8         |  |       |           |                                       |              |                                       |
|       |   |         |            |            |                |           |  |       |           |                                       |              |                                       |
|       |   |         |            |            |                | 9—        |  |       |           |                                       |              |                                       |
|       |   |         |            |            |                |           |  |       | GW        | Well Graded GRAVEL                    | with San     | <b>d</b> : light tan; 70-80%          |
|       |   |         | day        | 12.2       |                | 10        |  |       |           | gravel 0.5 to 1" in lengt             | th; rounded  | 1; 20-30% coarse grained              |
|       |   |         | ury        | 12.2       |                |           |  |       | CI        | Lean CLAV: very dark                  | draw no r    | ottling: 00.05% fines                 |
|       |   |         |            |            |                | 11        |  |       |           | traces of fine grained s              | and (~5%)    | moderate plasticity: stiff            |
|       | . —   |         |            |            |                |           |  |       |           | adood of fine grained a               |              | , moderate plasticity, still          |
|       |   |         |            |            |                | 12        |  |       |           | ,,,                                   |              |                                       |
|       |   |         |            |            |                | 40 -      |  |       |           |                                       | · <u>-</u>   |                                       |
|       |   |         |            |            |                |           |  |       |           |                                       |              |                                       |
|       |   |         |            |            |                | 14        | And Control of the second seco |       |           |                                       |              |                                       |
|       |   |         |            | ]          |                |           |  |       |           | (same as above                        | , dark brow  | vn)                                   |
|       | <b></b>                                     |         | . جالم     |            |                | 15 —      |  |       |           |                                       |              |                                       |
|       |   |         | ary        | 21.8       |                |           |  |       |           | (same as above                        | , medium l   | prown mottling)                       |
|       |   |         |            |            |                | 16 —      |  |       |           |                                       |              | ······                                |
|       |   |         |            |            |                |           |  |       |           | (same as above                        | no mottlie   |                                       |
|       | { ···                                       |         |            |            |                | 17        |  |       |           |                                       | , no motuli  | <u>'</u>                              |
|       |   |         |            |            |                | 40 -      |  |       |           | · · · · · · · · · · · · · · · · · · · |              |                                       |
|       |   |         |            |            |                | 10        |  |       |           |                                       |              |                                       |
|       | <u>ــــــــــــــــــــــــــــــــــــ</u> |         |            |            |                | 10        |  |       |           | •·····                                | ·            |                                       |
|       |   |         |            |            |                |           |  |       |           |                                       |              |                                       |
|       |   |         | _          | _          |                | 20        |  |       |           |                                       |              |                                       |
|       |   |         | dry        | 9          |                |           |  |       |           |                                       |              |                                       |
|       |   |         |            |            |                | 21        |  |       |           | (same as above                        | , product s  | taining)                              |
|       |   |         |            |            |                |           |  |       |           |                                       |              |                                       |
|       |   |         |            |            |                | 22        |  |       |           |                                       |              |                                       |
| ~~~~~ | ٩   |         |            |            | L              |           |  |       |           | ·                                     |              |                                       |

|             |   | Project I  | No:       | SJ89-99     | S-1    | Clien        | it:      | Shell Oil Products US Boring No: GP-2                       |
|-------------|---|------------|-----------|-------------|--------|--------------|----------|---|
|             | Logged By: Heather Bucki<br>Driller: Gregg<br>Drilling Method: Direct Push<br>Sampling Method: GeoProbe   |            |           |             |        | ım Loca      | tion:    | 8999 San Ramon Rd., Dublin Page 2 of 2                      |
|             | Logged By:       Heather Buckin         Driller:       Gregg         Drilling Method:       Direct Push         Sampling Method:       GeoProbe         Casing Type:       Slot Size:   |            |           |             |        | Date         | Drilled: | 5/1/2005 Location Map                                       |
| l)ei        | IA.   | Drilling N | Method:   | Direct P    | ush    | Hole         | Diamete  | er: 3"  |
|             | LCA   | Samplin    | g Method: | GeoPro      | be     | Hole         | Depth:   | 28 ft Please see site map                                   |
| Environm    | ental   | Casing 1   | Гуре:     |             |        | Well         | Diamete  | er.   |
| Consultant  | s, Inc.   | Slot Size  | э:        |             |        | Well         | Depth:   |   |
|             |   | Gravel F   | Pack:     |             |        | Casi         | ng Stick | ıp:   |
|             | Elevation No<br>Static Patric Static Sta |            |           |             |        | Northing     |          | Easting   |
| Well        | <b>I</b>  |            | _         | 1           |        |              | <u> </u> |   |
| Completion  | Static  | 9 년        | ding (    | 6")         | eet)   | Sample       | e e      |   |
| lit E       | Water   | istu       | рш        | etra<br>ws/ | th (fi | ery<br>/ai   | Ē        | LITHOLOGY / DESCRIPTION                                     |
| Casi        | Level   | lĕŏ        | <u> </u>  | [plo        | Dept   | ecov<br>iten | Soi      |   |
|             |   |            | <u>ц</u>  |             |        | <u>~</u> ≃   |          |   |
| - المحقق    |   |            |           |             |        |              |          | Lean CLAY with Sand (Continued)                             |
| XXXX —      | -   |            |           |             | 23     |              | CIN      | Wall Graded CDAVEL with Candy light targe 70,000(           |
|             |   |            |           |             | —      |              | 000      | gravel 0.5 to 1" in longth; rounded; 20, 20% ecores grained |
|             |   |            |           |             | 24 —   |              |          | sand  |
| ont so      |   |            |           |             |        |              | CL       | Lean CLAY with Sand: same as above                          |
| <u>ច្រ</u>  |   | moist      | 29.1      |             | 25     |              |          |   |
|             |   |            |           |             | 26     |              |          |   |
| - IXXX      |   |            |           |             | 20     |              |          |   |
|             |   |            |           |             | 27 —   |              |          |   |
|             |   |            |           |             |        |              |          |   |
| ××××× —     |   |            |           |             | 28 —   | 것은 같은 것      |          | Boring terminated at 28 feet below ground surface           |
|             |   |            |           |             |        |              |          |   |
| · .         |   |            |           |             | 29     |              |          |   |
|             |   |            |           |             |        | -            |          | · · · · · · · · · · · · · · · · · · ·                       |
|             |   |            |           |             | 30     |              |          |   |
|             |   |            |           |             | 31     |              |          |   |
|             |   |            |           |             | J -    |              |          |   |
|             |   |            |           |             | 32     |              |          |   |
|             |   |            |           |             |        |              |          |   |
|             |   |            |           |             | 33 —   |              |          |   |
|             |   |            |           |             |        |              |          |   |
| · · · · · · |   |            |           |             | 34     |              |          | · · · · · · · · · · · · · · · · · · ·                       |
| —           |   |            |           |             |        |              |          |   |
|             |   |            |           |             | 35 —   |              |          |   |
|             |   |            |           |             | 26     |              |          |   |
|             |   |            |           |             | 30     |              |          |   |
|             |   |            |           |             | 37     |              |          |   |
| · -         |   |            |           |             |        |              |          |   |
| ····        |   |            |           |             | 38     |              |          | · · · · · · · · · · · · · · · · · · ·                       |
| —           |   |            | ·         |             |        |              |          |   |
|             |   |            |           |             | 39     |              |          |   |
|             |   |            |           |             | -+     |              |          | · · · · · · · · · · · · · · · · · · ·                       |
|             |   |            |           |             | 40     |              |          | · · · · · · · · · · · · · · · · · · ·                       |
|             |   |            |           |             | 41.    |              |          | ······································                      |
|             |   |            |           |             | 4 I    |              |          |   |
|             |   |            |           |             | 42     |              |          | · · · · · · · · · · · · · · · · · · ·                       |
|             |   |            |           |             | ·      |              |          |   |
| <u> </u>    |   |            |           |             | 43     |              |          |   |
| _           |   |            |           |             |        |              |          |   |
|             |   |            |           |             | 44     |              |          | - · · · · · · · · · · · · · · · · · · ·                     |
|             |   |            |           | L           |        |              |          |   |

|               |         | Draiget    | le:            | S 100 00            | NC 4      | Clin                  |                   | Chall Oil Draduata                    | LIC                                    | Desing Net CD 2                         |
|---------------|---------|------------|----------------|---------------------|-----------|-----------------------|-------------------|---------------------------------------|--|---|
|               |         |            | NU.<br>Byr     | -3J09-95<br>Heather | Buckingh: | am Loc                | ni.<br>ation:     | Shell Oli Products                    | 05<br>Rd Dublin                        | Boring No. GP-3                         |
| <u> </u>      |         | Drillor    | by.            | Gread               | Duckingne | ani Loo<br>Date       | auon.<br>Drilled: | 5/1/2005                              |  | rage 2 01 2                             |
|               | to      | Drilling N | lothod:        | Direct D            | uch       | Date                  | Diamat            | 0/1/2000                              | Location Map                           |   |
|               | la      |            | nethod.        |                     | usn       | HOIE                  |                   | er: 3                                 | <b>D</b>                               |   |
|               |         | Samplin    | g Method:<br>- | GeoPro              | be        | Hole                  | Depth:            | 28 ft                                 | Please se                              | e site map                              |
| Environm      | ental   | Casing 1   | ype;           |                     |           | Wel                   | l Diamete         | er:                                   |  |   |
| Consultant    | s, Inc. | Slot Size  | ):             |                     |           | Wel                   | I Depth:          |                                       |  |   |
|               |         | Gravel P   | ack:           |                     | 1         | Cas                   | ing Stick         | up:                                   | -                                      |   |
|               |         |            | Elevation      |                     |           | Northing              |                   | Easting                               |  |   |
| Well          | 1       |            | _              | T                   |           |                       | T                 |                                       |  |   |
| Completion    | Static  | e t        | ding           | io 💭                | et)       | Sample                | e e               |                                       |  |   |
| j             | Water   | stur       | lea(<br>рт)    | vs/(                | ۳.        | a ⊰                   | Ā                 | l I I I                               |  | / DESCRIPTION                           |
| ackt<br>asir  | Level   | Moi        | 비              | plo,                | ept       | lo 20                 | Soil              |                                       |  |   |
| шÖ            |         |            | d .            | ۲ <u>م</u>          | Ó         | La Re                 |                   |                                       |  |   |
|               |         |            |                |                     |           |                       | SM                | Silty SAND (continue                  | ed)                                    |   |
|               |         |            |                |                     |           |                       |                   | · · · · · · · · · · · · · · · · · · · |  |   |
|               |         |            |                |                     | 23        |                       |                   |                                       |  |   |
|               |         |            |                |                     |           |                       | 7                 |                                       |  |   |
| ××××          |         |            |                |                     | 24        |                       | CL                | Lean CLAY: medium                     | brown to v                             | erv dark brown: ~85-90%                 |
| [ 5 8 –       |         |            |                |                     |           |                       |                   | fines; ~10% sand; tra                 | ce gravels                             | up to 1" in length:                     |
| <u>ات</u> 🖁 — |         | moist      | 29.1           |                     | 25        |                       |                   | moderate plasticity: s                | tiff                                   | -p <u>,,</u>                            |
|               | -       |            |                |                     | -         |                       | CL                | Lean CLAY with sar                    | id: verv dar                           | k brown: 10-20% very fine               |
|               |         |            |                |                     | 26        |                       | 2                 | grained sand: modera                  | ate to high i                          | plasticity: stiff                       |
| <br>*****     | -       |            |                |                     |           |                       |                   | ,                                     |  |   |
|               | -       |            |                |                     | 27        |                       |                   |                                       |  |   |
|               | -       |            |                |                     |           |                       |                   | Boring terminated at '                | 28 feet held                           | w around surface                        |
| ×××××××       |         |            |                |                     | 28 —      | energiade en traction | 5                 | Doning torniniated at 7               |  | w ground sundee                         |
| -             |         |            |                |                     |           |                       | 1                 | Borehole dry upon co                  | mnletion                               | ······                                  |
|               |         |            |                |                     | 29        |                       | 1                 | Water level after ann                 | rovimately t                           | welve hours                             |
|               |         |            |                |                     |           |                       | -                 | Trater lever alter appl               | oxiniatory t                           |   |
|               |         |            |                |                     | 30        |                       | -                 |                                       |  |   |
|               |         |            |                |                     | –         |                       | 1                 |                                       |  | · · · · · · · · · · · · · · · · · · ·   |
|               |         |            |                |                     | 31 —      |                       | 1                 |                                       |  | ·                                       |
| ·             |         |            |                |                     |           |                       | 1                 |                                       |  |   |
|               |         |            |                |                     | 32        |                       | 1                 |                                       |  | · · · · · · · · · · · · · · · · · · ·   |
|               |         |            |                |                     |           |                       | 1                 |                                       |  |   |
|               |         |            |                |                     | 33 —      | <u>†</u>              | -                 |                                       |  |   |
| -             | 1       |            |                |                     |           |                       | 1                 | · · · · · · · · · · · · · · · · · · · |  | ······································  |
|               | -       |            |                |                     | 34        |                       | 1                 |                                       |  |   |
|               |         |            |                |                     |           |                       | -                 |                                       |  | •••• •••••••••••••••••••••••••••••••••• |
|               | -       |            |                |                     | 35        |                       | 1                 | ·                                     | •                                      |   |
| _             | Ì       |            |                |                     |           |                       | -                 | ····· ··· ····· · ·····               |  | ··                                      |
|               | 1       |            |                |                     | 36        | <u> </u>              | 1                 | ······                                |  |   |
|               | 1       |            |                |                     |           |                       | 1                 | ·····                                 |  |   |
|               | 1       |            |                |                     | 3/        |                       | 1                 |                                       |  |   |
|               |         |            |                |                     | -         |                       | 1                 |                                       |  |   |
|               |         |            |                |                     | 38        | <u> </u>              | 1                 | ·. ·                                  |  |   |
| _             |         |            |                |                     |           | † <b> </b>            | 1                 | · · · · · · · · · · · · · · · · · · · | ······································ |   |
|               |         |            |                |                     | 39        |                       | 1                 | ····-                                 |  |   |
| -             |         |            |                |                     |           |                       | 1                 |                                       |  |   |
|               |         |            |                |                     | 40        |                       | 1                 |                                       |  |   |
|               |         |            |                |                     |           |                       | 1                 |                                       |  | <u>·</u>                                |
|               | 1       |            |                |                     | 41        |                       | 1                 |                                       |  |   |
| · —           | 1       |            |                |                     | -         | <u>├──</u> ┤·····     | 1                 | · · · · · · · · · · · · · · · · · · · |  | · · · · · · · · · · · · · · · · · · ·   |
|               | 1       |            |                |                     | 42 —      | <u>├</u>              | 1                 | <u> </u>                              |  | ······                                  |
|               |         |            |                |                     |           |                       | -                 |                                       |  |   |
|               |         |            |                |                     | 43        | <b> </b>              | -                 |                                       |  |   |
|               | -       |            |                |                     | . —       | ┠                     | 4                 | · · · · · · · · · · · · · · · · · · · |  |   |
|               |         |            |                |                     | 44        |                       | 4                 |                                       |  |   |
| L             |         |            |                | ]                   |           |                       |                   |                                       |  |   |

|  |          | Project N  | No:         | SJ89-99        | IS-1      |             | Clien | t:       | Shell Oil Products                    | US                                      | Boring No; GP-5                        |
|--|----------|------------|-------------|----------------|-----------|-------------|-------|----------|---------------------------------------|---|--|
|  |          | Logged     | By:         | Heather        | Buckingha | am          | Locat | tion:    | 8999 San Ramon I                      | Rd., Dublin                             | Page 2 of 2                            |
| <b>n</b> -1                            | 1-       | Driller:   |             | Gregg          |           |             | Date  | Drilled: | 5/3/2005                              | Location Map                            |  |
| l Jel                                  | TA.      | Drilling N | /lethod:    | Direct P       | ush       |             | Hole  | Diamete  | er: 3"                                |   |  |
|  | CC I     | Samplin    | g Method:   | GeoProl        | be        |             | Hole  | Depth:   | 28 ft                                 | Please se                               | e site map                             |
| Environm                               | ental    | Casing 1   | Гуре:       |                |           |             | Well  | Diamete  | भ:                                    | · ·                                     |  |
| Consultant                             | s, Inc.  | Slot Size  | 9:          |                |           |             | Well  | Depth:   |                                       |   |  |
|  |          | Gravel F   | ack:        |                | 1         | N           | Casir | ng Stick | up:                                   | •                                       |  |
|  |          |            | Elevation   |                |           | NOT         | iing  |          | tasting                               |   |  |
| Well                                   |          |            | <b>D</b>    |                |           | _           |       |          |                                       | I                                       |  |
| Completion                             | Static   | ure        | adir<br>n)  | ation<br>s/6") | (feel     | Sai         | mple  | ype      |                                       |   |  |
| sing                                   | Water    | Cont       | rRe<br>(ppr | iows           | bt        |             | rval  | oil T    |                                       | HOLOGY                                  | / DESCRIPTION                          |
| C B                                    | 2010.    | 20         | ЫГ          | l a a          | å         | С<br>С<br>С | Inte  | Ś        |                                       |   |  |
|  |          | damp       | ······      |                |           |             |       | CL       | Lean CLAY with San                    | nd (Continu                             | led)                                   |
|  |          |            |             |                | 23        |             |       |          |                                       | · · · · ·                               |  |
|  |          |            |             |                | 23        |             |       |          |                                       |   |  |
| XXXX                                   |          |            |             |                | 24        |             |       |          |                                       |   | · · · · · · · · · · · · · · · · · · ·  |
| ÷÷************************************ |          |            |             |                |           |             |       |          |                                       |   | ······································ |
|  | -        |            | 150         |                | 25 —      |             |       |          |                                       |   |  |
| ××××× –                                | -        |            | 153         |                |           |             |       |          |                                       |   |  |
|  | -        | drv        |             |                | 26        |             |       | CL       | Lean CLAV: dark gra                   | w moderat                               | e to high plasticity                   |
| - المحقق                               |          |            |             |                |           |             |       | ΨL       | medium stiff                          | ly, moderat                             | e to high plasticity,                  |
|  |          |            |             |                | 27        |             |       |          |                                       |   |  |
|  |          |            |             |                |           |             |       |          | Boring terminated at 2                | 28 feet belo                            | ow ground surface                      |
|  |          |            |             |                | 20        |             |       |          |                                       |   | ×                                      |
|  | 4        |            |             |                | 29        |             |       |          |                                       |   |  |
|  |          |            |             |                |           | ļ           |       |          |                                       |   |  |
|  |          |            |             |                | 30 ——     |             |       |          |                                       |   |  |
|  | -        |            |             |                |           |             | -     |          |                                       | - · · · · · · · · · · · · · · · · · · · |  |
|  |          |            |             |                | 31 ——     |             |       |          | :                                     |   |  |
|  |          |            |             |                |           |             |       |          |                                       |   |  |
|  |          |            |             |                | 32        |             |       |          | • • • • • • • • • • • •               |   |  |
|  | _        |            |             |                | 33        |             |       |          |                                       |   |  |
|  | -        |            |             |                |           |             |       |          |                                       |   |  |
| ····· <u></u>                          |          |            |             |                | 34        |             |       |          |                                       |   |  |
|  |          |            |             |                |           | <b>.</b>    |       |          |                                       |   |  |
|  | -        |            |             |                | 35        |             |       |          | ·                                     | · .                                     | · ·                                    |
|  |          |            |             |                |           |             |       |          |                                       |   |  |
|  |          |            |             |                | 36        |             |       |          |                                       |   |  |
|  | ]        |            |             |                | 27        |             |       |          |                                       |   | · · · · · · · · · · · · · · · · · · ·  |
|  |          |            |             |                | 37        |             |       |          |                                       |   |  |
|  |          |            |             |                | 38        |             |       |          | · · · · · · · · · · · ·               |   |  |
| . –                                    | -        |            |             |                |           |             |       |          |                                       |   |  |
|  | -        |            |             |                | 39 —      |             |       |          |                                       |   |  |
|  |          |            |             |                |           |             |       |          |                                       |   | ·                                      |
|  |          |            |             |                | 40        |             |       |          | ·····                                 |   | ·····                                  |
| -                                      | ]        |            |             |                |           |             |       |          |                                       | · · · -                                 |  |
|  |          |            |             |                | 41        |             |       |          |                                       | ·······                                 |  |
|  |          |            |             |                | 42        |             |       |          | · · · · · · · · · · · · · · · · · · · |   |  |
| ·                                      |          |            |             |                | '~        |             |       |          |                                       |   |  |
| [                                      |          |            |             |                | 43        |             |       |          | ·····                                 |   | . <u></u>                              |
|  | 1        |            |             |                | _         |             |       |          |                                       |   |  |
|  | -        |            |             |                | 44 —      | <u> </u>    | ╞┈╌╴┥ |          |                                       |   |  |
| L                                      | <u> </u> |            |             | L              | L         | 1           |       |          | 1                                     |   |  |

|            |  | Project N   | No:                   | S.189-99       | S-1       | Clien  | t.                | Shell Oil Products                      | US  | Boring No: GP-6                        |
|------------|--|-------------|-----------------------|----------------|-----------|--|-------------------|---|---|--|
|            |  |             | Rv <sup>.</sup>       | Heather        | Buckingha | am Loca  | tion <sup>,</sup> | 8999 San Ramon I                        | Rd Dublin   | Page 2 of 2                            |
|            |  | Driller     | Uy,                   | Green          | Duckingha | Doto   | Drillod:          | 5/1/2005                                | Lesstion Men                                      |  |
|            | to   |             | <b>R</b> - 11 - 1     | Greyy          | - 1-      | Date   | Diffied:          | 5/ 1/2005                               | Location Map                                      |  |
|            | la   |             | Alethod:              | Direct P       | ush       | Hole   | Diamete           | er: 8"                                  | D   |  |
|            |  | Samplin     | g Method:             | GeoProl        | be        | Hole   | Depth:            | 28 ft                                   | Please se   | e site map                             |
| Environm   | ental  | Casing 7    | Гуре:                 |                |           | Well   | Diamete           | er:                                     |   |  |
| Consultant | s, Inc.  | Slot Size   | 9:                    |                |           | Well   | Depth:            |   |   |  |
|            |  | Gravel F    | ack:                  |                |           | Casi   | ng Stick          | up:                                     |   |  |
|            |  |             | Elevation             |                |           | Northing   |                   | Easting                                 | ł   |  |
| 10(-1)     |  |             |                       | 1              |           | 1  | r <u> </u>        |   |   |  |
| Completion | 04-4-  | a +-        | ing                   | 5              | ef)       | Sample   | U                 |   |   |  |
|            | Static   | ten         | ead<br>E              | rati<br>/s/6   | (fe       | 2  | 2                 |   |   |  |
| sing sing  | Level  | Nois<br>Can | а<br>В<br>С<br>С<br>С | low lot        | pt        |  |                   | L11                                     | HOLOGI  | DESCRIPTION                            |
| Ca Ba      |  | 20          | ЫС                    | <sup>4</sup> 1 | Ď         | Inte Cec   | s l               |   |   |  |
| *****      | <u>  · · · · · · · · · · · · · · · · · · ·</u> | damp        |                       |                |           |  | CL                | Lean CLAY with Sar                      | d (Continu  | ed)                                    |
|            |  | P           |                       |                |           |  | 0-                |   |   |  |
| ·····      |  |             |                       |                | 23        |  |                   | · · · ·                                 | • • •   |  |
| - ****     |  |             |                       |                |           |  |                   |   |   |  |
| XXXX —     | -  |             |                       |                | 24 ——     | And Andrew States of State |                   |   |   |  |
| t 🐰 🖳      |  |             |                       |                |           |  | GM                | GRAVEL with Silt s                      | ame as abr  | we product staining                    |
| E &        |  |             | 133                   |                | 25 —      |  |                   |   |   |  |
| ××××× –    | 1  |             | ,00                   |                |           |  | CL                | Lean CLAY: medium                       | brown' mo   | derate plasticity: stiff               |
|            |  | dry         |                       |                | 26        |  |                   |   | biowii, mo  | derate plasticity, still               |
| ·          |  |             |                       |                |           |  |                   |   |   |  |
|            | -  |             |                       |                | 27 —      |  |                   |   |   |  |
|            | ł  |             |                       |                |           | Service Street   |                   | Boring terminated at (                  | 28 foot hold                                      | w around surface                       |
|            | ł  |             |                       |                | 28 —      |  |                   | boning terminated at 2                  |   | w ground surface                       |
|            | 1  |             |                       |                |           |  |                   |   |   |  |
|            | -  |             |                       |                | 29        |  |                   | ··· ·· ···                              |   |  |
| ] —        | -  |             |                       |                |           |  |                   |   |   |  |
| I —        | -  |             |                       |                | 30 —      |  |                   |   |   |  |
| -          |  |             |                       |                |           |  |                   |   |   |  |
| I —        |  |             |                       |                | 31        |  |                   |   |   |  |
| · ·        | 1  |             |                       |                |           |  |                   |   |   |  |
|            |  |             |                       |                | 32        |  |                   |   |   |  |
|            |  |             |                       |                | -         |  |                   |   |   | · · · · · · · · · · · · · · · · · · ·  |
|            |  |             |                       |                | 33        |  |                   | · · · · · · · · · · · · · · · · · · ·   |   | ······                                 |
|            |  |             |                       |                |           |  |                   |   | · · · · ·   | · · · · · · · · · · · · · · · · · · ·  |
|            |  |             |                       |                | 34        |  |                   |   |   |  |
|            |  |             |                       |                |           |  |                   |   |   | · · · · · · · · · · · · · · · · · · ·  |
|            |  |             |                       |                | 35        |  |                   |   | · · · · <del>· · · · · · · · · · · · · · · </del> |  |
| -          | 1  |             |                       |                |           |  |                   | ·····                                   |   | · · · · · · · · · · · · · · · · · · ·  |
|            |  |             |                       |                | 36        | <b> </b>   |                   |   |   |  |
|            |  |             |                       |                |           |  |                   | • ····· · ··· ··· ··· ··· ··· ··· ··· · |   |  |
|            | 1  |             |                       |                | 3/        |  |                   | ·····                                   |   | · · · · · · · · · · · · · · · · · · ·  |
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|            | 1  |             |                       |                | 38        |  |                   |   |   | ·····                                  |
| -          | 1  |             |                       |                |           |  |                   |   |   |  |
|            | 1  | · ·         |                       |                | 39        |  | 1                 |   |   |  |
|            |  |             |                       |                |           |  | 1                 |   |   |  |
|            | 1  |             |                       |                | 40        | [····  |                   |   |   | · ····· · · · · · · · · · · · · · · ·  |
|            |  |             |                       |                |           |  |                   | ·····                                   |   | · · · ·····                            |
|            | 1  |             |                       |                | 41        |  |                   |   |   |  |
|            | 1  |             |                       |                | -         |  |                   |   |   |  |
|            |  |             |                       |                | 42        | <b> </b>   |                   | F                                       |   |  |
| ×          |  |             |                       |                |           |  |                   | ·····                                   |   |  |
|            |  |             |                       |                | 43        |  |                   |   |   |  |
|            | 1  |             |                       |                |           |  | t i               |   |   | ····· · · ··· ··· ··· ··· ··· ··· ···  |
|            | 1  |             |                       |                | 44        |  | 1                 |   |   | ······································ |
| C          | -  | •           |                       | •              |           | · · · · · · · · · · · · · · · · · · ·  |                   |   |   |  |

|  |           |         | Project N  | No:          | SJ89-99  | 9S-1         |          | Client | i:       | Shell Oil Products US Boring No: GP-7             |
|--|-----------|---------|------------|--------------|----------|--------------|----------|--------|----------|---|
|  |           |         | Loaged     | Bv:          | Heather  | Buckingha    | am ·     | Locat  | ion      | 8999 San Ramon Rd., Dublin Page 2 of 2            |
|  | <b>`</b>  |         | Driller    | -,,          | Grego    |              |          | Date   | Drilled  | 1: 5/2/2005 Location Man                          |
|  |           | to.     | Drilling N | Jethod:      | Direct P | ueb          |          | Hole   | Diamete  | ater: 8"  |
| L  | ノ し       | la      | Complia    | a Mathad     | CaeDra   | u311         |          |        | Danth    | Blease see site man                               |
|  | <b>.</b>  |         | Sampiin    | g ivietrioa: | GeoPro   | be           |          |        | Deptn:   |   |
|  | nvironmo  | ental   | Casing     | lype:        |          |              |          | vvelli | Diamete  | iter:   |
|  | nsultants | s, Inc. | Slot Size  | ∋:           |          | ÷            |          | Well   | Depth:   |   |
|  |           |         | Gravel F   | ack:         |          | r            |          | Casin  | ig Stick | xkup:   |
|  |           |         |            | Elevation    |          |              | North    | ing    |          | Easting   |
|  | Mall      |         |            | <b>I</b>     | T        |              | 1        | 1      |          |   |
| Co                                       | moletion  | Statio  |            | ling         | 5        | (j           | San      | npie   | e        |   |
|  | 57        | Water   | ter I      | ju) eac      | vs/6     | l €          | 2        |        | Ϋ́       | LITHOLOGY / DESCRIPTION                           |
| S S                                      | asin      | Level   | Cordi      | ਿੱਦੇ         | e e      | 1<br>E       | Š        | ŝ      | )io      |   |
| ñ  | Ö         |         | _          | Ē            | م ج      | ă            | Red      | Ĕ      | 0)       |   |
|  | 8         |         |            |              |          |              |          |        | ML       | SILT with sand (Continued)                        |
|  | ×         |         |            |              |          |              |          |        |          | · · · · · · · · · · · · · · · · · · ·             |
|  | ×         |         | drv        |              |          | 23           |          |        | CL.      | Lean CLAY: same as above                          |
|  | × –       |         |            |              |          | -            |          |        |          |   |
|  | 8         |         |            |              |          | 24 —         |          |        |          |   |
| <b>i</b> 🗄 🕴                             | 8         |         |            |              |          | -            |          |        |          |   |
| 5  | 8         |         |            | 102          |          | 25 —         |          |        |          |   |
| i ka | X         |         |            |              |          |              | Section  |        |          |   |
|  | ×         |         |            |              |          | 26           |          |        |          |   |
|  | × –       |         |            |              |          | -            |          |        |          |   |
|  | ×         |         |            |              |          | 27           |          |        |          |   |
|  | 8         |         |            |              |          | -            |          |        |          | Boring terminated at 29 fact below ground surface |
| *****                                    | Si        |         |            |              |          | 28 —         |          | 1      |          | bonng terminated at 26 reet below ground surface  |
|  |           |         |            |              |          | _            |          |        |          | · · · · · · · · · · · · · · · · · · ·             |
|  |           |         |            |              |          | 29 —         |          |        |          |   |
|  |           |         |            |              |          |              | ┝──┤     |        |          | ······································            |
|  |           |         |            |              |          | 30           | -        |        |          |   |
|  |           |         |            |              |          |              |          |        |          |   |
|  |           |         |            |              |          | 31 —         |          |        |          | · · · · · · · · · · · · · · · · · · ·             |
|  |           |         |            |              |          | _            |          |        |          |   |
|  |           |         |            |              |          | 32           |          |        |          |   |
|  |           |         |            |              |          |              | ┢        |        |          |   |
|  |           |         |            |              |          | 33 —         |          |        |          |   |
|  |           |         |            |              |          |              |          |        |          |   |
|  |           |         |            |              |          | 34           | ┝──┥     |        |          |   |
|  |           |         |            |              |          | ·            |          |        |          | · · · · · · · · · · · · · · · · · · ·             |
|  |           |         |            |              |          | 35 —         |          |        |          |   |
|  |           |         |            |              |          |              |          |        |          |   |
|  |           |         |            |              |          | 36           | <b> </b> |        |          |   |
|  |           |         |            |              |          | ·            |          |        |          |   |
|  |           |         |            |              |          | 37           |          |        |          |   |
|  |           |         |            |              |          |              | <b>.</b> |        |          |   |
|  |           |         |            |              |          | 38           |          |        |          |   |
|  |           |         |            |              |          |              |          |        |          | · · · · · · · · · · · · · · · · · · ·             |
|  |           |         |            |              |          | 39           |          |        |          |   |
|  |           |         |            |              |          |              |          |        |          |   |
|  |           |         |            |              |          | 40           |          |        |          |   |
|  |           |         |            |              |          |              |          |        |          |   |
|  |           |         |            |              |          | 41           |          |        |          |   |
|  |           |         |            |              |          | <del>-</del> |          |        |          |   |
|  |           |         |            |              |          | 12_          |          |        |          |   |
|  |           |         |            |              |          | +2           |          |        |          |   |
|  |           |         |            |              |          | 12           |          |        |          |   |
|  |           |         |            |              |          | 43           |          |        |          |   |
|  |           |         |            |              |          | -            |          |        |          |   |
|  |           |         |            |              |          | 44           |          |        |          |   |
| _  |           |         |            |              |          |              |          |        |          |   |

|        |                |              | Proiect N  | No:        | SJ89-99                             | S-1            |          | Clien   | t:                 | Sheil Oil Products US Boring No: GP-8                        |
|--------|----------------|--------------|------------|------------|-------------------------------------|----------------|----------|---|--------------------|--|
|        |                |              | Logged I   | By:        | Heather                             | Buckingha      | am       | Loca  | tion:              | 8999 San Ramon Rd., Dublin Page 1 of 2                       |
|        |                | 1            | Driller:   | -          | Gregg<br>Direct Push<br>d: GeoProbe |                |          | Date  | Drilled:           | 5/2/2005 Location Map  |
|        | ) <b>)</b>   ' | ta           | Drilling N | Aethod:    | Direct P                            | ush            |          | Hole  | Diamete            | er; 3"   |
|        |                | <sup>l</sup> | Samplin    | a Method:  | GeoProt                             | be             |          | Hole  | Depth:             | 28 ft Please see site map                                    |
| Fr     | vironme        | ental        | Casino T   | fvne:      | 0001 101                            |                |          | Well  | Diamete            | er'  |
| Cor    | neultante      |              | Slot Size  |            |                                     |                |          | Well  | Denth <sup>.</sup> |  |
| 00     | Iountanta      | 5, 110.      | Gravel P   | n<br>Pack: |                                     |                |          | Casi  | na Sticki          | up.  |
|        |                |              |            | Elevation  |                                     |                | Nort     | hina  | ig otion           | Fasting  |
|        |                |              |            | Diotalion  |                                     |                | ,        |   |                    |  |
|        | Well           |              |            | Ð          |                                     | Ð              |          |   |                    |  |
| Cor    | noletion       | Static       | arte       | dir (۱     | /6")                                | fee            | Sa       | mpie  | be                 |  |
| Ē      | buj            | Water        | oist       | Ppn<br>Ppn | ows                                 | t <del>,</del> | Le,      | val   |                    | LITHOLOGY / DESCRIPTION                                      |
| Bac    | Cas            | Level        | ΣŌ         | ē,         | le la                               |                | 000      | nter  | ပိ                 |  |
| ~~~~~~ | 3              |              |            |            |                                     |                | <u> </u> | -   |                    | Apphalt Cli Daga saalt 4"                                    |
|        |                |              | wot        |            | l T                                 |                |          | +   | AF                 | Asphait 6 , Base rock 4                                      |
|        |                |              | WEL        |            |                                     | 1 —            |          |   | SM                 | Silty SAND: light brown: 20-30% silt: fine to coarse grained |
|        |                |              |            |            |                                     |                | +        |   |                    | sand well graded: product staining                           |
|        |                |              |            |            | '                                   | 2              |          |   |                    |  |
|        |                |              |            |            | ~ ed                                | -              |          |   |                    |  |
|        |                |              |            |            | gei                                 | 3—             | +        |   |                    |  |
|        |                |              |            |            | au                                  | -              |          | <b> </b>  |                    |  |
|        |                |              | damn       |            | g T                                 | 4              |          |   |                    | · · · · · · · · · · · · · · · · · · ·                        |
|        |                |              | uamp       |            | hai                                 | - 1            | -        |   |                    |  |
| ****   |                |              |            | 10         |                                     | 5 —            |          |   |                    |  |
|        | - 1            |              |            | 13         |                                     |                | <b> </b> |   |                    |  |
| Ō      |                |              |            |            |                                     | 6              |          |   |                    | Lean CLAY with Sand: medium brown with orange                |
|        |                |              |            |            |                                     | _              |          |   |                    | mottling; 85-90% fines; 10-15% fine grained sands in tan     |
|        |                |              |            |            | +                                   | 7 —            | <u> </u> | 2000 march  |                    | sand pockets 0.5 cm in diameter; 1-2% gravels up to 0.5"     |
|        |                |              |            |            |                                     | _              |          |   |                    | in diameter; moderate plasticity; soft                       |
|        |                |              |            |            |                                     | 8              |          |   |                    |  |
|        | . –            |              |            |            |                                     |                | <b> </b> |   |                    | · · · · · · · · · · · · · · · · · · ·                        |
|        | š              |              |            |            |                                     | 9              | +        |   |                    | · · · · · · · · · · · · · · · · · · ·                        |
|        | <b>-</b>       |              |            |            |                                     |                |          |   |                    |  |
|        |                |              |            |            |                                     | 10             |          |   |                    | · · · · · · · · · · · · · · · · · · ·                        |
|        |                |              |            | 20.3       |                                     |                |          |   |                    | · · · · · · · · · · · · · · · · · · ·                        |
|        |                |              |            |            |                                     | 11             |          | and the second se |                    | ·  |
|        |                |              | wet        |            |                                     |                |          |   |                    |  |
|        |                |              |            |            |                                     | 12             |          |   |                    | -  |
|        | _              |              |            |            | :                                   |                |          |   |                    | Sandy Lean CLAY: medium brown; 65-75% fines; 25-35%          |
|        |                |              |            |            |                                     | 13             |          |   | CL                 | very fine grained sand, poorly graded; moderate to high      |
|        | 4 _            |              |            |            |                                     |                |          |   |                    | plasticity; soft   |
|        | g              |              | damp       |            |                                     | 14             | 10000    |   |                    |  |
| ****   | g              |              |            |            |                                     |                |          |   | CL                 | Lean CLAY with Sand: medium brown with orange                |
| ****   |                |              |            |            |                                     | 15             |          |   |                    | mottling; 10-20% fine grained sand in tan sand pockets       |
| ****   |                |              |            | 3.5        |                                     |                |          |   |                    | 0.5 cm in diameter; moderate to high plasticity; soft;       |
|        |                |              |            |            |                                     | 16             |          |   |                    | bottom 3" to 5" poorly graded fine grained sand; tan; trace  |
|        | { _            |              |            |            |                                     |                |          |   |                    | gravels 0.5" in diameter; loose                              |
|        |                |              |            |            |                                     | 17             |          |   |                    |  |
|        |                |              |            |            |                                     |                |          |   |                    |  |
|        |                |              |            |            |                                     | 18             |          |   |                    |  |
|        | ·              |              | damp       |            |                                     |                |          |   |                    |  |
|        |                |              |            |            |                                     | 19             |          |   |                    |  |
|        | g              |              |            |            |                                     | 10             |          |   |                    |  |
|        |                |              |            |            |                                     | 20             |          |   |                    |  |
| ****   |                |              | 1          | 2.5        |                                     |                |          |   |                    |  |
|        |                |              |            |            |                                     | 21_            |          |   |                    |  |
|        |                |              |            |            |                                     |                |          |   |                    |  |
|        |                |              |            |            |                                     | 22             |          |   |                    | Lean CLAY: dark gray; 90-95% fines; trace coarse grained     |
|        | d d            |              |            |            |                                     | 22             |          |   | CL                 | sand; moderate plasticity; stiff                             |

| Delta<br>Environmental<br>Consultants, Inc.                      | Project No:<br>Logged By:<br>Driller:<br>Drilling Method:<br>Sampling Method:<br>Casing Type:<br>Slot Size:<br>Gravel Pack:<br>Elevatior | SJ89-99<br>Heather<br>Gregg<br>Direct P<br>GeoProl | 9S-1<br>· Buckingham<br>·ush<br>be<br>No | Client<br>Locat<br>Date<br>Hole<br>Well I<br>Well I<br>Casin | ::<br>Drilled:<br>Diamete<br>Depth:<br>Diamete<br>Depth:<br>ng Sticki | Shell Oil Products<br>8999 San Ramon<br>5/4/2005<br>er: 3"<br>28 ft<br>er:<br>up:<br>Easting                             | US<br>Rd., Dublin<br>Location Map<br>Please se  | Boring No: GP-9<br>Page 2 of 2<br>ee site map                          |
|--|--|--|--|--|---|--|---|--|
| Well<br>Completion Static<br>E 5 Water<br>S se<br>E Level<br>E 2 | Moisture<br>Content<br>PID Reading<br>(ppm)  | Penetration<br>(blows/6")                          | Depth (feet)                             | Sample<br>Juterval   | Soil Type   | L11  | THOLOGY   | / DESCRIPTION  |
|  | 125  |  | 23                                       |  | CL  | SILT with Sand (Cor<br>Lean CLAY with Sar<br>greenish gray; 10-159<br>high plasticity; very st<br>Boring terminated at 2 | ntinued) nd: medium % very fine iff 28 feet bek | n brown mottled with<br>grained sand; moderate to<br>ow ground surface |

| Weath<br>Bar Bar Bar Bar Bar Bar Bar Bar Bar Bar  | En<br>Con   | )e<br>vironmo<br>sultant        | ta<br>ental<br>s, Inc.   | Logged By:<br>Driller:<br>Drilling Method:<br>Sampling Method:<br>Casing Type:<br>Slot Size:<br>Gravel Pack:<br>Elevation |                      | SJ89-99<br>Heather<br>Gregg<br>Direct P<br>GeoProl | 9S-1<br>Buckingha<br>ush<br>be  | Clier<br>Date<br>Date<br>Hole<br>Hole<br>Well<br>Cas<br>Northing | nt:<br>Drilled:<br>Diamete<br>Depth:<br>Diamete<br>Depth:<br>ng Stick | Shell Oil Products<br>8999 San Ramon<br>5/4/2005<br>er: 3"<br>28 ft<br>er:<br>up:<br>Easting  | US<br>Rd., Dublin<br>Location Map<br>Please se   | Boring No: GP-10<br>Page 2 of 2<br>ee site map   |
|---|---|---------------------------------|--------------------------|---|----------------------|--|---|--|---|---|--|--|
| dry       dry       23       CL       Lean CLAY: continued         24       SC       Clayey SAND; gray; 60-75% very fine to coarse grained sand; 354-40% fines; traces of gravels; 2-3 mm in length         dry       wet       119       25       SC       Clayey SAND; gray; 60-75% very fine to coarse grained sand; 354-40% fines; traces of gravels; 2-3 mm in length         dry       wet       119       25       SC       Clayey SAND; same as above         26       SC       Clayey SAND; same as above       26       27         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         34       35       36         37       38       39         40       41       42 | Backfill A  | Vell<br>Indetion<br>Gasing<br>O | Static<br>Water<br>Level | Moisture<br>Content   | PID Reading<br>(ррт) | Penetration<br>(blows/6")                          | Depth (feet)  | Recovery<br>Interval   | Soil Type   | LIT   | THOLOGY  | / DESCRIPTION  |
|   | Grout Contraction |                                 |                          | dry<br>wet<br>dry   | 119                  |  | - $23$ $ 23$ $ 23$ $ 24$ $ 25$ $ 26$ $ 27$ $ 28$ $ 29$ $ 30$ $ 31$ $ 32$ $ 33$ $ 33$ $ 33$ $ 34$ $ 35$ $ 36$ $ 37$ $ 38$ $ 39$ $ 40$ $ 41$ $ 42$ $ 43$ $  43$ $  43$ $   43$ $         -$ |  | CL<br>SC<br>CL<br>CL  | Lean CLAY: continue<br>Clayey SAND: gray; (<br>sand; 35-40% fines; t<br>Lean CLAY: light to r<br>sand; soft; moderate<br>Clayey SAND: same<br>Lean CLAY with sar<br>fine grained sand; mc<br>Boring terminated at 2<br> | ed<br>60-75% ver<br>races of gra<br>nedium bro<br>plasticity<br>as above<br>nd: gray; 80<br>oderate to h<br>28 feet belc | y fine to coarse grained<br>avels 2-3 mm in length<br>wn; trace fine grained<br>90% fines; 10-20% very<br>igh plasticity; stiff<br>ow ground surface |

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| Delta<br>Environment<br>Consultants, I  | Proje<br>Logg<br>Drille<br>Drillir<br>Samp<br>tal<br>Casir<br>Inc. Slot S<br>Grave | ct No:<br>ed By:<br>g Method:<br>ling Method:<br>g Type:<br>g Type:<br>l Pack:<br>Elevation | SJ89-99<br>Heather<br>Gregg<br>Direct P<br>GeoProl | PS-1<br>Buckingha<br>ush<br>be  | Clien<br>am Loca<br>Date<br>Hole<br>Hole<br>Well<br>Well<br>Casin<br>Northing | t:<br>Drilled:<br>Diamete<br>Depth:<br>Diamete<br>Depth:<br>ng Stick | Shell Oil Products US     Boring No: GP-11       8999 San Ramon Rd., Dublin     Page 2 of 2       5/4/2005     Location Map       er:     3"       28 ft     Please see site map       er:     Easting |
|---|--|---|--|---|---|--|--|
| Well<br>Completion S<br>W<br>Sasing<br>L<br>Case<br>C<br>B<br>C<br>B<br>C<br>B<br>C<br>B<br>C | itatic<br>Vater<br>evel W  | PID Reading (ppm)   | Penetration<br>(blows/6")                          | Depth (feet)  | Recovery S<br>Interval ald  | Soil Type  | LITHOLOGY / DESCRIPTION  |
|   | we   | 53.6<br>t<br>st   |  | 23         24         25         26         27         28         29         30         31         32         33         34         35         36         37         38         39         40         41         42         43         44 |   | CL   | Lean CLAY with Sand: continued  Sandy Lean CLAY: gray; 70-80% fines; 20-30% medium grained sand; moderate plasticity; soft Boring terminated at 28 feet below ground surface                           |

|       |             |                 | Project N  | No:       | SJ89-99    | )S-1         |  | Clien               | t:        | Shell Oil Products                     | US                                      | Boring No: GP-12                       |
|-------|-------------|-----------------|------------|-----------|------------|--------------|--|---------------------|-----------|--|---|--|
|       |             |                 | Logged I   | By:       | Heather    | Bucking      | gham   | Locat               | tion:     | 8999 San Ramon F                       | Rd., Dublin                             | Page 1 of 2                            |
|       |             | 1_              | Driller:   |           | Gregg      |              |  | Date                | Drilled:  | 5/4/2005                               | 05 Location Map<br>Please see site map  |  |
|       | <u>Je</u> r | IA.             | Drilling N | Nethod:   | Direct P   | ush          |  | Hole                | Diamete   | er: 3"                                 |   |  |
|       |             | C               | Samplin    | g Method: | GeoProl    | be           |  | Hole                | Depth:    | 28 ft                                  | Please se                               | ee site map                            |
| Er    | nvironme    | ental           | Casing 1   | Гуре;     |            |              |  | Well                | Diamete   | er:                                    |   |  |
| Co    | nsultants   | s, Inc.         | Slot Size  | e:        |            |              |  | Weil                | Depth:    |  |   |  |
|       |             | ,               | Gravel P   | ack:      |            |              |  | Casir               | ng Sticku | up:                                    |   |  |
|       |             |                 |            | Elevation |            |              | Nort   | hing                |           | Easting                                |   |  |
|       |             | ····            |            |           |            |              |  |                     |           |  |   |  |
| Co    | Well        | Otatia          | t e        | D         | 5 😭        | <del>G</del> | Sa   | mpie                | ψ         |  |   |  |
|       | ការ ចា      | Static<br>Water | stur       | E G       | /s/6       | fe (         | ≥  |                     | μ, μ      | Г I Т                                  |   |  |
| ckt   | asin        | Level           | Cor        | ਨ ਦੇ      | Slow 1     | pth          | No.  | ers                 | lioi      |  | HOLOGI                                  | Deserti Hon                            |
| Ва    | õ           |                 |            | IId       | 1 ª =      | ۱ă           | Rec  | Int                 | 0,        |  |   |  |
|       | . –         |                 |            |           | <b>I</b> ↑ |              |  |                     | AF        | Asphalt 6", Base rock                  | 4"                                      |  |
|       |             |                 |            |           |            | 1-           |  |                     |           | Lean CLAV with Son                     | d: very de                              | rk brown with medium                   |
| ****  |             |                 |            |           |            |              |  |                     |           | brown mottling: 00.05                  | % finder 1                              | 0_15% fine argined cond in             |
|       | ×           |                 |            |           |            | 2-           | _  |                     |           | tan sand pockets ~0.5                  | 5 cm in die                             | meter: moderate plasticity             |
|       | 8           |                 |            |           | a po       |              |  | $\left  \right $    |           | enft                                   |   | moter, moderate plasticity,            |
| ****  | 8 —         |                 |            |           | gel        | 3-           |  |                     |           | <u> </u>                               |   |  |
| ****  |             |                 |            |           | au         |              |  |                     |           | · · · · · · · · · · · · · · · · · · ·  |   |  |
|       | . —         |                 |            |           | n t t      | 4            |  |                     |           |  |   |  |
|       | ×           |                 |            |           | ha         |              |  |                     |           |  |   |  |
| ××××× | š           |                 | dry        |           |            | 5-           |  |                     |           | (Same as abov                          | o traces (                              | of coarso grained sand)                |
| i D   | 8 .         |                 |            |           |            |              |  |                     |           |  | e, llaces l                             | or coarse grained sand)                |
|       |             |                 |            |           |            | 6-           |  |                     |           |  |   |  |
|       | × -         |                 |            |           |            |              | -  |                     |           |  |   |  |
| ****  | ×           |                 |            |           | . ▼        | 7-           |  |                     |           |  |   |  |
|       | 8           |                 |            |           |            |              |  |                     |           |  |   |  |
| ****  | 8 —         |                 | dny        |           |            | 8-           |  |                     |           |  |   |  |
|       |             |                 |            |           |            |              |  |                     | SP        | Poorly Graded Sand                     | : tan: 00_0                             | 5% fine grained cand                   |
|       | ×           |                 |            |           |            | 9-           |  |                     |           | traces of gravels up to                | 0.5" in lo                              | o // mile grained sand,                |
| ****  |             |                 |            |           |            |              |  |                     | CL        | Lean CLAV with San                     |   |  |
| ****  | 8           |                 |            | ng        |            | 10 —         | 6  |                     |           | mottling: stiff                        | u. same a                               | is above, less orange                  |
| ****  |             |                 |            | 0.0       |            |              |  |                     |           | nouing, sun                            |   |  |
| ****  |             |                 |            |           |            | 11           |  |                     |           |  | • |  |
|       |             |                 |            |           |            |              | Called & Correspondence<br>Called & Corresponden |                     |           | ······································ |   |  |
| ****  |             |                 |            |           |            | 12 —         |  |                     |           |  |   |  |
| ****  |             |                 |            |           |            |              | San San  |                     | SP        | Clavey SAND: orangi                    | sh tan: 60                              | -70% fine grained poorly               |
|       |             |                 |            |           |            | 13           |  |                     |           | araded sand: 30_40%                    | fines: troc                             | ves of coarse grained poorly           |
|       | 8 8         |                 |            |           |            |              |  |                     |           | 19:0000 3010, 00-40 /0                 | nnes, udu                               | see or coarse grained sand             |
| ****  |             |                 |            |           |            | 14 —         |  | 127.088.4<br>197035 |           |  |   |  |
| ****  |             |                 |            |           |            |              |  |                     |           | <u></u>                                |   |  |
|       |             |                 |            | 3.7       |            | 15           |  |                     |           |  |   |  |
| ****  | 8           |                 |            | <u> </u>  |            |              |  |                     | CI        | Sandy Lean CLAY n                      | nedium bri                              | own mottled with orange                |
|       |             |                 |            |           |            | 16 —         | Gradina<br>Sectors   |                     |           | 70-75% fines: 25-30%                   | fine grain                              | ed sand: moderate                      |
|       | 8           |                 |            |           |            |              |  |                     |           | plasticity: stiff                      | - nie grun                              |  |
|       |             |                 |            |           |            | 17 —         |  |                     |           |  |   | · · · · · · · · · · · · · · · · · · ·  |
|       |             |                 |            |           |            | 4.2          |  | 19                  |           |  |   |  |
|       |             |                 |            |           |            | 18 —         |  |                     |           | · ····· · · · · ·                      |   | ······································ |
|       |             |                 |            |           |            | 40           |  |                     |           |  |   |  |
|       |             |                 |            |           |            | 19           |  |                     | CL        | Sandy Lean CLAY: n                     | nedium ar                               | av: 55-65% fines: 35-45%               |
| ****  |             | $\mathbf{V}$    |            | 0.9       |            | 0            | Contraction of the second seco   |                     |           | fine grained poorly gra                | aded sand                               | traces of gravels ~3 mm                |
| ***   |             |                 |            |           |            | 20           |  |                     |           | in diameter: low plasti                | city                                    |  |
|       |             |                 |            |           |            | 04           |  |                     |           |  |   |  |
|       |             |                 |            |           |            | 21           |  |                     |           | ·····                                  | · ···-                                  |  |
|       | 8 -         |                 |            |           |            |              |  |                     |           |  |   |  |
|       |             | -               | wet        |           |            | 22-          |  |                     |           | ······································ |   |  |
| 1000  |             |                 |            | L         |            | E            | 1000 100 100 100 100 100 100 100 100 10  |                     |           |  |   |  |

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| Delta       Driller:       Gregg       Date Drilled:       5/3/2005         Drilling Method:       Direct Push       Hole Diameter:       3"         Sampling Method:       GeoProbe       Hole Depth:       28 ft         Consultants, Inc.       Site:       Well Diameter:       Vell Depth:         Gravel Pack:       Casing Stickup:       Elevation       Northing  |  |
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| Completion Static Saturd Depth (fee static Saturd fee static Saturd Satu | ION                                    |
| wet CL Lean CLAY with Sand: continued  |  |
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| dry 24   |  |
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| wet 2.6 26 (same as above, very sum)   |  |
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| dry dry Boring terminated at 28 feet below ground su   | Inface                                 |
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| United by:     Heater burdlengtam     Location     Same Same Same Same Same Same Same Same   |  |              |         | Project N    | lo:                     | SJ89-99             | S-1          |  | Clien  | t                         | Shell Oil Products US Boring No: GP-14                       |
|--|--|--------------|---------|--------------|-------------------------|---------------------|--------------|--|--------|---------------------------|--|
| Delta       Drier       Creation       Drier       Creation       Drier       Creation       Drier       Drier <thdrier< th="">       Drier       Drier</thdrier<>   |  |              |         | Logged I     | By:                     | Heather             | Buckingh     | am   | Loca   | tion:                     | 8999 San Ramon Rd., Dublin Page 1 of 2                       |
| Uperiod       Direct Public       Direct Public <thdirect public<="" th=""></thdirect>   |  | <b>N</b> I   | 1       | Driller:     |                         | Gregg               | -            |  | Date   | Drilled:                  | 5/1/2005 Location Map  |
| Universe       Sampling Motion.       Generoptics<br>Casing year       Hole Docet:<br>Weil Casing year       27 ft<br>Weil Casing year       Please see site map         Consultants, Inc.       Casing year       Weil Casing year       Weil Casing year       Weil Casing year       Weil Casing year       Please see site map         Commotion<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>generation<br>gen  |  | ) <b>D</b> I |         |              |                         | Direct Push Hole Di |              |  | Hole   | Diamete                   | er: 3"   |
| Environmental<br>Consultants, Inc.     Caseng Type:<br>Stot Size:<br>Crevel Pack:     Well Consultant:<br>Caseng Strokup     Littlebergin       Well<br>Consultants, Inc.     Strok<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger<br>Barger  | ╽╹┏┓   |              | u       | Sampline     | noling Method: GeoProbe |                     |              | Hole   | Depth: | 27 ft Please see site map |  |
| Consultants, Inc.     Status Start     Well Cashs       Groue Parkt:     Cashs Status       Connolution     Status       Breed Parkt:     Status       Breed Parkt     Status       Breed Pa   | l Er   | vironme      | ental   | Casing Type: |                         |                     |              |  | Well   | Diamete                   | er:  |
| Casing Stokup       Basting       Commetion       Static     grad     grad <thgrad< th="">     grad     grad     <thgrad<< td=""><th>Cor</th><td>nsultant</td><td>s. Inc.</td><td>Slot Size</td><td>);<br/>;</td><td colspan="3">Well Depth:</td><td>Depth:</td><td></td></thgrad<<></thgrad<>   | Cor  | nsultant     | s. Inc. | Slot Size    | );<br>;                 | Well Depth:         |              |  | Depth: |                           |  |
| Weiling     Elevation     Northing     Easting       Connoletion<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>growth<br>grow |  |              | -,      | Gravel P     | ack:                    | Casi                |              |  |        | ng Stick                  | up:  |
| Weil<br>Connection<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B  |  |              |         |              | Elevation               |                     | <b> </b>     | Nort   | hing   | - <b>-</b>                | Easting  |
| Owner       Static<br>Water       Static<br>Big<br>Big<br>Big<br>Big<br>Big<br>Big<br>Big<br>Big<br>Big<br>Big   |  |              |         |              |                         |                     |              |  |        | -                         |  |
| Combination       Static       Static </th <th></th> <th>Well</th> <th></th> <th></th> <th>bu</th> <th>50</th> <th><del>,</del></th> <th>Sa</th> <th>mole</th> <th></th> <th></th>  |  | Well         |         |              | bu                      | 50                  | <del>,</del> | Sa   | mole   |                           |  |
| Instruction       Instruction       Instruction       Instruction       Instruction         Instruction       Instruction       Instruction       Instruction       Instruction       Instruction         Instruction       Instruction       Instruction       Instruction       Instruction       Instruction       Instruction       Instruction         Instruction <th>Cor</th> <td>noietion</td> <td>Static</td> <td>ture</td> <td>m)</td> <td>s/6"</td> <td>(fe</td> <td>2</td> <td></td> <td>Ž</td> <td></td>  | Cor  | noietion     | Static  | ture         | m)                      | s/6"                | (fe          | 2  |        | Ž                         |  |
| a       3       Image: S       Image: S       Image: S       Image: S       Image: S       AF       Asphalt 6", Base rock 4"         a       dry       Image: S       Image: S       SM       Sity SAND: light brown; 20:30% silt, fine to coarse grained sand, well graded.         Image: S       dry       Image: S       Image: S       SM       Sity SAND: light brown; 20:30% silt, fine to coarse grained sand, well graded.         Image: S       dry       Image: S       Image: S       SM       Sity SAND: light brown; 20:30% silt, fine to coarse grained sand, well graded.         Image: S       dry       Image: S       Image: S       SM       Sity SAND: light brown; 20:30% silt, fine to coarse grained sand, well graded.         Image: S       dry       Image: S       Image: S       SM       Sity SAND: light brown; 20:30% silt, fine to coarse grained sand, well graded.         Image: S       dry       Image: S       Image: S       SM       SM       SM         Image: S       Image: S       Image: S       Image: S       SM       SM       SM         Image: S       Image: S       Image: S       Image: S       Image: S       SM       SM       SM         Image: S       Image: S       Image: S       Image: S       Image: S       Image: S       SM   | - Kfi  | sing         | 1 evel  | Con          | Pp (pp                  | low                 | pt           | ove  | e718   | <u>-</u>                  | LITHOLOGY / DESCRIPTION                                      |
| dry       dry       AF       Asphalt 6". Base rock 4"         dry       a       a       SM       Sity SAND: light brown; 20-30% sit; fine to coarse grained sand, well graded         dry       a       a       a       a         a       a       a       a       a         a       a       a       a       a         a       b       a       a       a         a       a       b       a       a         a       a       a       a       a         a       a       a       a       a         b       a       a       a       a         b       a       a       a       a         b       a       a       a       a         b       a       a       a       a         b       a       a       a       a       a         b       a       a       a       a       a       a  | Ba   | Ca           | 2010,   | 20           | ЫЧ                      | P a a               | å            | Sec  | Inte   | ഗ                         | · · ·  |
| dny       1       SM       Silly SAND: light brown; 20-30% sill; fine to coarse grained sand, well graded         dny       3       4       5         4       5       6       CL         Sandy Lean CLAY: medium brown mottled with orange; 70-75% fine; 25-30% fine grained sand in tan sand pockets; moderate to high plasticity; stiff         49.9       10       11         11       12       13         12       13       14         13       14       15         14       15       (Same as above, medium brown with orange motting)         18       17       (Same as above, product staining)         18       19       11         20       21       21  | *****  | 8            |         |              |                         | •                   |              | ╧  | Γ      | AF                        | Asphalt 6", Base rock 4"                                     |
| dry       Image: state sta   |  |              |         |              |                         |                     | -            |  |        |                           |  |
| Image: Second  |  | ×××          |         | drv          |                         |                     | 1—           |  |        | SM                        | Silty SAND: light brown: 20-30% silt: fine to coarse grained |
| Image: State in the state   |  | X            |         | ,            |                         |                     |              |  |        |                           | sand well graded   |
| dry       a  |  |              |         |              |                         | '                   | 2            |  |        |                           | <u> </u>   |
| Image: Section of the section of t  |  |              |         |              |                         | ≪ <u>e</u>          |              | 1  |        |                           | ···  |
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| dry       Image: 1 model       Image: 1 model </td <th></th> <td></td> <td></td> <td></td> <td></td> <td>aí vi</td> <td></td> <td>1</td> <td></td> <td></td> <td></td>  |  |              |         |              |                         | aí vi               |              | 1  |        |                           |  |
| dry       dry       - <th></th> <td></td> <td></td> <td></td> <td></td> <td>air</td> <td>4</td> <td>-</td> <td></td> <td></td> <td></td>   |  |              |         |              |                         | air                 | 4            | -  |        |                           |  |
| dry       a       c       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         moist       49.9       10  |  |              |         |              |                         | ق ٦                 | _ ~          | -  |        |                           |  |
| 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         8       9         9       10         10       11         12       13         13       14         14       15         53.5       15         16       17         17       (Same as above, medium brown with orange mottling)         18       19         19       20         20       (Same as above, trace gravels 2 mm in length)   |  |              |         | dry          |                         |                     | з <u>—</u>   |  |        |                           | · · · · · · · · · · · · · · · · · · ·                        |
| 49.9       10       7       70-75% fines; 25-30% fine grained sand in tan sand pockets; moderate to high plasticity; stiff         49.9       10       11       12         11       12       13       14         13       14       15       (Same as above, medium brown with orange mottling)         16       17       (Same as above, product staining)       18         18       19       10       18       19         19       20       (Same as above, trace gravels 2 mm in length)       21  | 8<br>2<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 |              |         |              |                         |                     | 6            |  |        | CL                        | Sandy Lean CLAY: medium brown mottled with orange;           |
| 49.9     10     10     10     10     10     11     12     13     14     53.5     15        (Same as above, medium brown with orange mottling)     18     19     22.6     22.6     22.6     22.6     22.6     22.6     21     13     14     15   (Same as above, product staining)     18   19   20   (Same as above, trace gravels 2 mm in length)   |  |              |         |              |                         |                     | .0—          |  | 1      |                           | 70-75% fines; 25-30% fine grained sand in tan sand           |
| 49.9       10  |  |              |         |              |                         | ↓                   | 7            |  |        |                           | pockets; moderate to high plasticity; stiff                  |
| 49.9       8       9         10       11       12         11       12       13         12       13       14         13       14       15         14       15       (Same as above, medium brown with orange mottling)         16       17       (Same as above, product staining)         18       19       20         20       (Same as above, trace gravels 2 mm in length)         21       21  |  |              |         |              |                         |                     |              |  |        |                           |  |
| 49.9       10  |  |              |         |              |                         |                     | 8            |  |        |                           |  |
| 49.9       9       10       11         12       12       13       14         13       14       15       (Same as above, medium brown with orange mottling)         16       17       (Same as above, product staining)         18       19       19         19       21       (Same as above, trace gravels 2 mm in length)  |  |              |         |              |                         |                     | 0            |  |        |                           |  |
| 49.9       10       11         11       12       11         12       13       14         13       14       15         14       15       (Same as above, medium brown with orange mottling)         16       17       (Same as above, product staining)         18       19       19         19       22.6       20         21       21       (Same as above, trace gravels 2 mm in length)   |  |              |         |              |                         |                     | ٥ <u></u>    |  |        |                           |  |
| 49.9       10       11         11       12       12         13       14       13         14       15       (Same as above, medium brown with orange mottling)         16       17       (Same as above, product staining)         18       19       19         20       (Same as above, trace gravels 2 mm in length)         21       11       11   |  |              |         |              |                         |                     | _            |  |        |                           |  |
| 49.9       10       11         moist       11       12         12       13       14         13       14       15         14       15       (Same as above, medium brown with orange mottling)         16       17       (Same as above, product staining)         18       19       19         20       (Same as above, trace gravels 2 mm in length)         21       21  |  |              |         |              |                         |                     | 10           |  |        |                           |  |
| moist       11       12       12         12       13       13       14         13       14       15       (Same as above, medium brown with orange mottling)         16       17       (Same as above, medium brown with orange mottling)         18       19       18         19       20       (Same as above, trace gravels 2 mm in length)         21       21       14  |  | š _          |         |              | 49.9                    |                     |              |  |        |                           |  |
| moist       12         13       13         14       14         53.5       15         15       (Same as above, medium brown with orange mottling)         16       17         17       (Same as above, product staining)         18       19         20       (Same as above, trace gravels 2 mm in length)         21       14   |  |              |         |              |                         |                     | 11           |  |        |                           |  |
| 12       13         13       14         14       15         15       15         16       17         17       (Same as above, medium brown with orange mottling)         18       19         19       20         20       (Same as above, trace gravels 2 mm in length)         21       14   |  | <b>*</b> –   |         | moist        |                         |                     | _            |  |        |                           |  |
| 53.5     13       53.5     14       15     15       16     17       17     (Same as above, medium brown with orange mottling)       18     19       19     20       20     (Same as above, trace gravels 2 mm in length)       21     21   |  |              |         |              |                         |                     | 12           |  |        |                           | · · · · · · · · · · · · · · · · · · ·                        |
| 53.5       13       14       14       14       15       (Same as above, medium brown with orange mottling)         53.5       16       17       (Same as above, product staining)       18       19       18       19       19       19       19       19       19       19       110  |  |              |         |              |                         |                     | -            | _  |        |                           |  |
| 53.5       14         53.5       15         15       (Same as above, medium brown with orange mottling)         16       17         17       (Same as above, product staining)         18       19         20       (Same as above, trace gravels 2 mm in length)         21       11  |  | s            |         |              |                         |                     | 13           |  |        |                           |  |
| 53.5       14  |  |              |         |              |                         |                     | _            | _  |        |                           |  |
| 53.5     15     (Same as above, medium brown with orange mottling)       16     17     (Same as above, product staining)       18     19     18       19     19     19       22.6     20     (Same as above, trace gravels 2 mm in length)       21     11     11  |  |              |         |              |                         |                     | 14 —         | ·  |        |                           |  |
| 53.5       15       (Same as above, medium brown with orange mottling)         16       17       (Same as above, product staining)         18       19       18         19       20       (Same as above, trace gravels 2 mm in length)         21       11       11   |  |              |         |              |                         |                     | _            |  |        |                           |  |
| moist     22.6     22.6     20     (Same as above, medium brown with orange mottling)       damp     16     17     (Same as above, product staining)   |  |              |         |              | E 2 C                   |                     | 15 —         |  |        |                           |  |
| moist     22.6     16     17     (Same as above, product staining)       19     19     19     19       20     (Same as above, trace gravels 2 mm in length)     11   |  |              |         |              | 03.5                    |                     | - 1          |  |        |                           | (Same as above, medium brown with orange mottling)           |
| moist       17       (Same as above, product staining)         18       19       19         20       20       (Same as above, trace gravels 2 mm in length)         11       11       11         12       11       11  |  |              |         |              |                         |                     | 16           |  |        |                           | · · · · · · · · · · · · · · · · · · ·                        |
| moist       22.6       17       (Same as above, product staining)         damp       12       18       19         19       19       19       19         19       19       19       10         19       19       10       10         19       10       10       10         19       10       10       10         19       10       10       10         19       10       10       10         10       10       10       10         10       10       10       10         10       10       10       10         10       10       10       10         10       10       10       10         10       10       10       10         10       10       10       10         10       10       10       10         10       10       10       10         10       10       10       10         10       10       10       10         10       10       10       10         10       10       10       10  |  |              |         |              |                         |                     |              |  |        |                           |  |
| moist 22.6 22.6 20 (Same as above, product staining)<br>damp 21  |  | I            |         |              |                         |                     | 17           |  |        |                           | (Samo as above preduct staining)                             |
| moist 22.6 18 19 19 19 19 19 19 19 19 19 19 19 19 19   |  |              |         |              |                         |                     |              |  |        |                           | (Same as above, product staining)                            |
| moist     19       20     (Same as above, trace gravels 2 mm in length)       damp     21  |  |              |         |              |                         |                     | 18           |  |        |                           | · · · · · · · · · · · · · · · · · · ·                        |
| moist     22.6     19     20       damp     21     (Same as above, trace gravels 2 mm in length)   |  |              |         |              |                         |                     | -            |  |        |                           |  |
| 22.6 20 (Same as above, trace gravels 2 mm in length)  |  |              |         | moist        |                         |                     | 19 —         |  |        |                           |  |
| damp 20 (Same as above, trace gravels 2 mm in length)  |  | s            |         |              | 22.6                    |                     |              | Print of an office of a second |        |                           | ·····  |
|  |  | 3            |         |              | 22.0                    |                     | 20 —         |  |        |                           | (Same as above trace gravels 2 mm in length)                 |
| damp     21  |  |              |         |              |                         |                     |              |  |        |                           |  |
|  |  |              |         | damp         |                         |                     | 21           |  |        |                           |  |
| 🗱 🔰 🔰 🚽 🚽 🔤 🚽 Same as above no sand pockets hard) 🚽 📕  |  |              |         |              |                         |                     | -            |  |        |                           | (Same as above, no sand pockets, hard)                       |
|  |  |              | а.<br>- |              |                         |                     | 22           |  |        |                           |  |









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