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TRANSMITTAL

DATE: June 7, 2012 REFERENCE NO.: RO0482, 060715

PROJECT NAME: 351788, Dublin, CA

TO: Mr. Peresh Khatri
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED

11:46 am, Jun 12, 2012

Alameda County
Environmental Health

Please find enclosed: Draft Final
 Originals Other electronic copy
 Prints

Sent via: Mail Same Day Courier
 Overnight Courier Other upload to FTP site

QUANTITY	DESCRIPTION
1	Closure Request for 7850 Amador Valley Boulevard, Dublin, CA

As Requested For Review and Comment
 For Your Use _____

COMMENTS:

If you have any questions or comments please contact Ms. Katherine Brandt of Arcadis at (510) 596-9675.

Copy to: Ms. Roya Kambin (electronic copy), GAWFCO Enterprises Inc.

Completed by: Laura Heberle
[Please Print]

Signed: 

Filing: **Correspondence File**



Roya C. Kambin
Project Manager
Marketing Business Unit

**Chevron Environmental
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June 7, 2012

Alameda County Health Care Services Agency
Environmental Health Department
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: UNOCAL Station #7176
Union Oil Site 351788
7850 Amador Valley Boulevard
Dublin, California

I have reviewed the attached *Case Closure Request* dated June 7, 2012.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Conestoga-Rovers & Associates, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,

A handwritten signature in black ink, appearing to read "Roya Kambin".

Roya Kambin
Union Oil of California – Project Manager

Attachment: Case Closure Request



CASE CLOSURE REQUEST

**Unocal Station #7176 (Union Oil Site 351788)
7850 Amador Valley Boulevard
Dublin, California
ACEH Case # RO0482**

Prepared For:

**Mr. Peresh Khatri
Alameda County Health Care Services Agency
Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577**

**Prepared by:
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JUNE 7, 2012

REF. NO. 060715 (2)

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CASE CLOSURE REQUEST

Unocal Station #7176 (Union Oil Site 351788)
7850 Amador Valley Boulevard
Dublin, California
ACEH Case # RO0482

Laura Heberle

David W. Herzog, PG 7211



JUNE 7, 2012

REF. NO. 060715 (2)

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1.0 INTRODUCTION

On behalf of Chevron Environmental Management Company, for itself and as Attorney-in-Fact for Union Oil Company of California (hereinafter "EMC"), Conestoga-Rovers & Associates (CRA) is submitting this *Case Closure Request* for Union Oil Company Facility ID 351788 (Unocal Station #7176) located at 7850 Amador Valley Boulevard in Dublin, California (Figure 1). Based on CRA's review of the site background and conditions, this site meets the San Francisco Bay Regional Water Quality Control Board's (RWQCB's) definition of a low-risk fuel site described in its memorandum "Interim Guidance on Required Clean-up at Low-Risk Fuel Sites" dated January 5, 1996. The site background, site conditions, and justification for site closure based on the low-risk fuel site criteria are presented below.

2.0 SITE DESCRIPTION

2.1 SITE BACKGROUND

The site is an active 76 Products service station located on the southwest corner of Amador Valley Boulevard and Regional Street in Dublin, California. The site was initially a Gulf Service Station, and later operated by Fill-em-Fast Service Station. Unocal Corporation (Unocal) purchased the property in 1985. Land use in the vicinity of the site is commercial with the Dublin Place, Dublin Plaza, and Shamrock Village Shopping Centers surrounding the site. A Valero Service Station (RO# 0002424-CLOSED) is located across Regional Street to the northeast. Current site facilities consist of a station building, two dispenser islands, two 12,000-gallon gasoline underground storage tanks (USTs), and one 12,000-gallon diesel UST. A site plan illustrating site layout and sample locations is presented as Figure 2.

2.2 ENVIRONMENTAL HISTORY

In November 1994, Unocal replaced the fuel USTs, removed the used oil UST and associated product piping, and removed the oil/water separator. No holes or signs of leakage were observed in the fuel USTs; however, eight holes up to one-half-inch in diameter were observed in the used-oil UST. Elevated hydrocarbon concentrations were detected in soil samples from the UST pit and product piping trenches; the hydrocarbon-bearing soil was removed to the extent practicable by over-excavation.

To date, 11 soil borings and 5 monitoring wells have been installed. Regular groundwater monitoring and sampling has been ongoing since 1995.

In August 2000, Environmental Resolutions Inc. (ERI) performed a receptor survey and Tier II Risk-Based Corrective Action (RBCA) analysis. Results of the receptor survey identified three groundwater production wells and one surface water body within 2,000-feet of the site. The groundwater production wells were located approximately 750 and 950 feet south-southwest (crossgradient) of the site, and 1,250 feet northwest (upgradient) of the site. The wells could not be located in the field and are presumed to be inactive or destroyed. The surface water body is a creek/drainage ditch located approximately 800 feet north (upgradient) of the site. Results of the RBCA analysis determined the residual hydrocarbons at the site do not pose a significant risk to human health or the environment.

A summary of environmental investigation and remediation activities is presented in Appendix A.

2.3 REGIONAL SITE GEOLOGY

The site is located in the north-central portion of the Livermore Valley, within the Coast Range Geomorphic Province, at the base of the eastern slope of the East Bay Hills. The Livermore Valley slopes gently to the west and is underlain by non-water-bearing rocks, and water-bearing rock and sediments. The non-water-bearing rocks are of marine origin and consist of sandstone, shale, and conglomerate of Eocene and Miocene age. These rocks are exposed at higher elevations surrounding Livermore Valley and are found at depths greater than 1,000 feet beneath the valley floor.

The Plio-Pleistocene age Livermore Formation overlaps the Tassajara Formation beneath the northern portion of the valley and is exposed over a broad region south of the valley. Sediments of this formation consist primarily of clayey gravel in a sandy clay matrix. Sedimentary units south of the valley dip gently north, are nearly level beneath the valley floor, and dip gently south beneath the north edge of the valley. The depth to the top of the Livermore Formation beneath the valley ranges from a few feet to greater than 40 feet.

Soils encountered beneath the site in the unsaturated zone consist of silty clay, clayey and sandy silt, and silty sand. Contacts between lithologies appear to be gradational. Horizontal and vertical distribution appears to be heterogeneous beneath the subject

property. The shallow water-bearing zone appears to primarily consist of silty clay with a thin layer of gravel with silt and sand.

Geologic cross-sections shown on Figure 3 are presented as Figures 4 and 5. Boring logs are included in Appendix B.

2.4 REGIONAL SITE HYDROGEOLOGY

Groundwater beneath the site is located within the Dublin sub-basin of the Livermore Valley groundwater basin. The water-bearing units comprising the basin include valley fill materials, the Tassajara Formation, and the Livermore Formation. The basin is characterized by hydrogeologic discontinuities, and is segregated into sub-basins on the basis of localized faults. The Livermore Valley groundwater system is a multi-layered system with an unconfined aquifer overlying sequential partially-confined aquifers. Groundwater in the basin generally flows to the west.¹

Groundwater encountered beneath the site appears to be semi-confined by the predominant clayey soil within isolated silt and silty sand bodies as shown on Figures 4 and 5. Historical depth to groundwater ranges from approximately 11 to 20 feet below grade (fbg) and consistently flows to the southeast.

3.0 SENSITIVE RECEPTOR SURVEY

In addition to the receptor survey conducted by ERI in 2000, Delta Environmental Consultants (Delta) conducted a sensitive receptor survey to identify water supply wells within a 1-mile radius of the site and sensitive receptors within 1,000 feet from the site. The Department of Water Resources files identified 28 water supply wells within a 1-mile radius of the site. The nearest downgradient well is a cathodic protection well located approximately 0.8 miles southeast of the site. The nearest water supply well is a domestic well located approximately 0.4 miles southwest (crossgradient) of the site. No surface water bodies, schools, daycare centers, hospitals, or churches utilized as a potential school or daycare facility were identified within the survey area. A copy of Delta's July 24, 2007 *Sensitive Receptor Survey* report is presented in Appendix C.

¹ Department of Water Resources, 2003, Bulletin 118-2-10.

4.0 PETROLEUM HYDROCARBON DISTRIBUTION

The primary constituents of concern (COCs) are total petroleum hydrocarbons as diesel (TPHd) and total petroleum hydrocarbons as gasoline (TPHg). Benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tertiary butyl ether (MTBE) are no longer COCs as concentrations in groundwater have declined below applicable water quality objectives as presented below in Section 4.2. Historical soil and groundwater data are presented in Appendix D.

4.1 SOIL

The highest residual hydrocarbon concentrations remaining in soil following over-excavation activities were detected on November 30, 1994 in sample UT-7 collected at 19.5 fbg from the base of the excavation beneath the southeastern dispenser island. The hydrocarbon concentrations detected included:

- 50 milligrams per kilogram (mg/kg) TPHd
- 1,300 mg/kg TPHg
- 31 mg/kg toluene
- 26 mg/kg ethylbenzene
- 150 mg/kg xylenes

The highest benzene concentration of 0.21 mg/kg in soil was detected on July 7, 1995 in soil boring B-6 at 19.5 fbg. No MTBE has been detected in soil.

Remaining residual hydrocarbons in soil were detected beneath the fuel USTs and product piping between 8 and 20 fbg; the horizontal extent is defined in all directions. Figures 4 and 5 depict the vertical extent of hydrocarbons in soil, which appear defined; Figures 6 and 7 present the horizontal extent of maximum TPHg and benzene concentrations detected in soil.

4.2 GROUNDWATER

Groundwater beneath the site has been monitored since 1995. Dissolved concentrations are minimal, and with the exception of TPHd and TPHg, are below applicable

Environmental Screening Level (ESLs).² Dissolved TPHd and TPHg are currently only detected in onsite wells U-1 and U-2, located adjacent to existing fuel USTs. The extent of dissolved hydrocarbons is defined downgradient by MW-5 and crossgradient by MW-4 and U-3. The extent of hydrocarbons in groundwater has been delineated upgradient by grab-groundwater samples collected from borings B-2 and SB-4. The current extent of dissolved hydrocarbons based on samples collected from wells on February 10, 2012 is shown on Figures 8 through 11.

TABLE A: DISSOLVED HYDROCARBON CONCENTRATIONS (February 10, 2012)				
<i>GW Depth</i>	<i>TPHd</i>	<i>TPHg</i>	<i>Benzene</i>	<i>MTBE</i>
<i>Concentrations in micrograms per liter (µg/L)</i>				
<i>ESL Table E-1: Potential Vapor Intrusion Concerns (Residential)</i>	<i>(Use Soil Gas)</i>	<i>(Use Soil Gas)</i>	540	24,000
<i>ESL Table F-1a Drinking Groundwater ESLs</i>	100	100	1	5
MW-4	Well Inaccessible			
MW-5	<40	<50	<0.50	<0.50
U-1	650	2,100	<0.50	<0.50
U-2	270	1,100	<0.50	<0.50
U-3	<40	<50	<0.50	<0.50

4.3 SOIL VAPOR

No vapor assessment has been completed at the site; however, since no BTEX or MTBE are currently detected in groundwater, and the site is and will likely remain an active service station for the foreseeable future, there does not appear to be a potential vapor intrusion risk.

² Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater prepared by the California Regional Water Quality Control Board San Francisco Bay Region, Interim final dated November 2007 (Updated May 2008).

5.0 HYDROCARBON TRENDS

TPHd and TPHg concentrations have decreased by one to two orders of magnitude since their peak, and benzene and MTBE concentrations have declined and are no longer detected in groundwater. The declining concentrations indicate that the plume is shrinking and no longer poses a threat of migration.

CRA analyzed concentration trends to determine when TPHd and TPHg in wells U-1 and U-2 will reach ESLs using the following first order exponential decay rate calculation:³

$$y = be^{(ax)}$$

Where:

- a is a decay constant
- b is a concentration at time (x)
- y is concentration (ESL)
- x is time

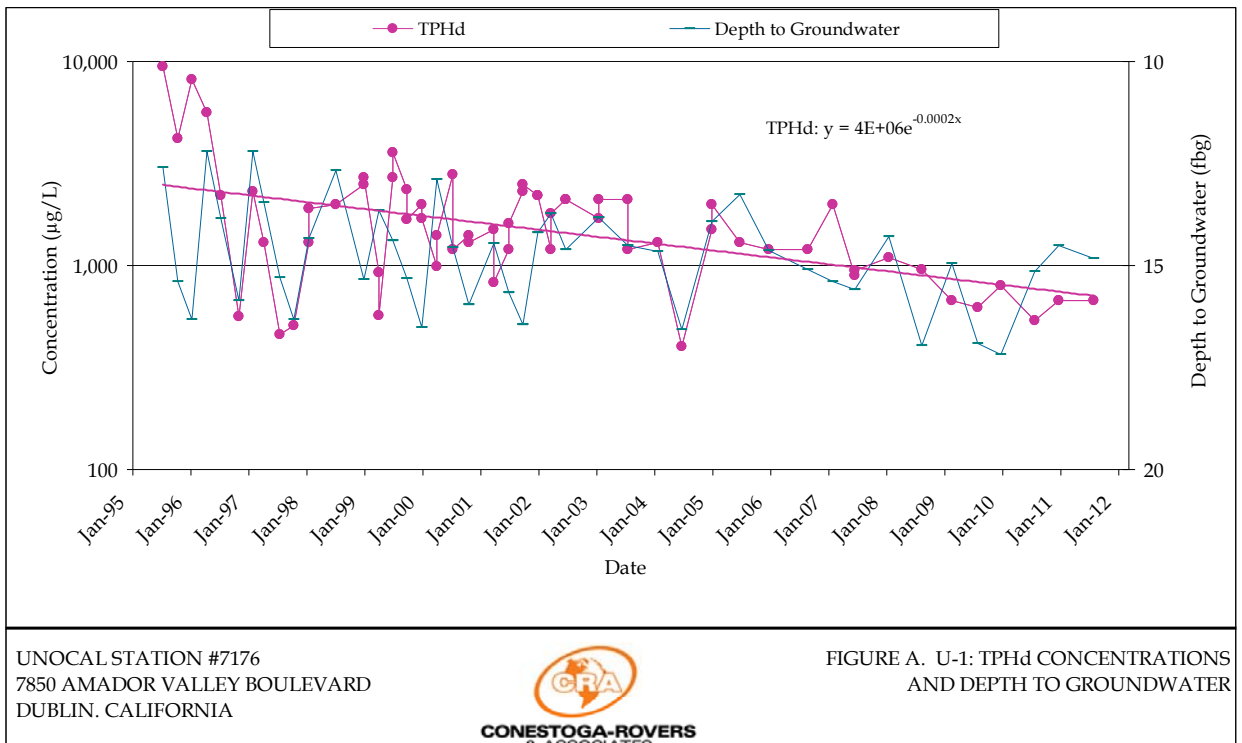
A summary of maximum and current concentrations for all active site wells and projections to meet the ESLs are presented below in Table B. Trend graphs and degradation calculations are presented in Appendix E. The trend analysis graphs for U-1 and U-2 are also presented in Figures A through F below.

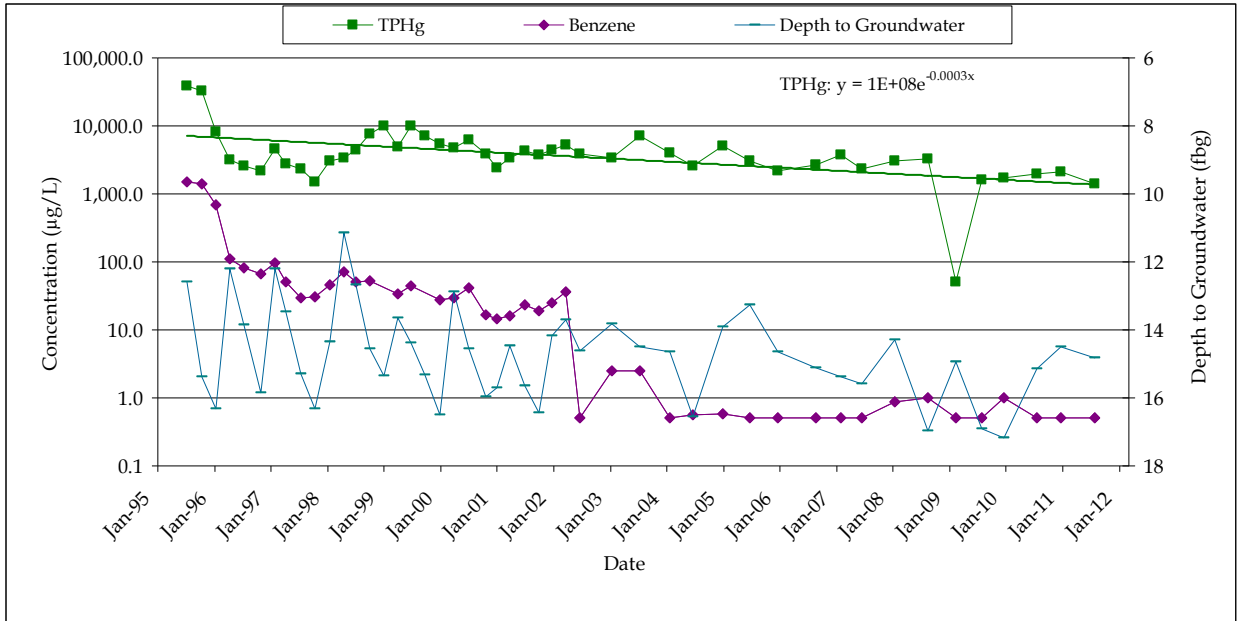
³ EPA-Groundwater Issue; Calculation and Use of First-Order Rate Constants for Monitored Natural Attenuation Studies; Charles J. Newell, et al., 2003.

TABLE B SUMMARY OF DEGRADATION RATE CALCULATIONS						
Well	Analyte	Maximum Concentration (ug/L)	Current Concentration (ug/L)	ESL	Date to Reach ESL	Years to Reach ESL
U-1	TPHd	9,400	670	100	Nov 2036	25
	TPHg	39,000	1,400	100	Apr 2037	25
	Benzene	1,500	< 0.5	1	Below ESL	
	MTBE	790	< 0.5	5	Below ESL	
U-2	TPHd	8,600	410	100	Apr 2022	10
	TPHg	24,000	460	100	Jul 2032	21
	Benzene	430	< 0.5	1	Below ESL	
	MTBE	340	< 0.5	5	Below ESL	

Notes:
ESL Environmental Screening Level for drinking water resources, Table F-1a

TPHd and TPHg concentrations are predicted to meet ESLs within 25 years, which is a reasonable period of time given the shrinking plume, and current and likely future site use.

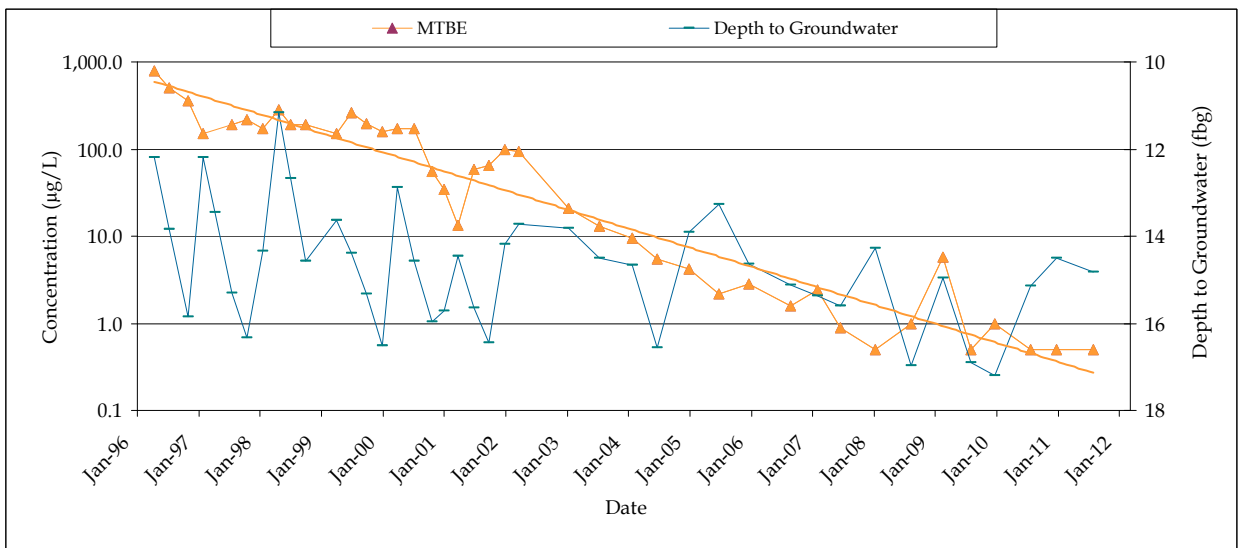




UNOCAL STATION #7176
7850 AMADOR VALLEY BOULEVARD
DUBLIN, CALIFORNIA

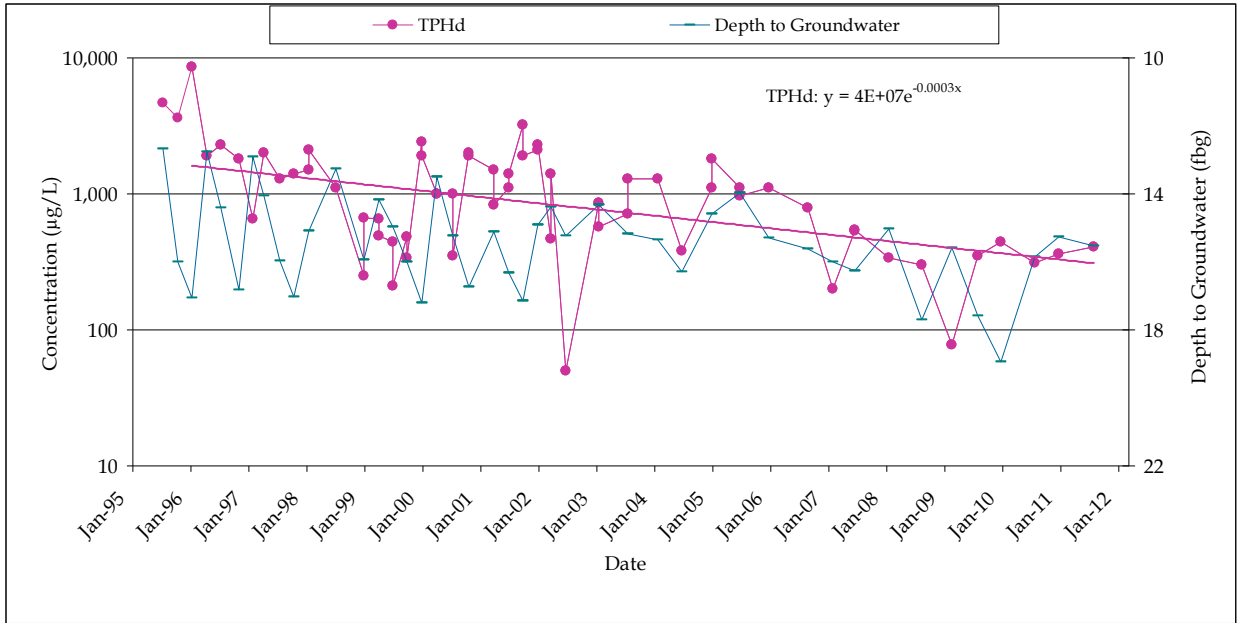


FIGURE B. U-1: TPHg AND BENZENE CONCENTRATIONS AND DEPTH TO GROUNDWATER



UNOCAL STATION #7176
7850 AMADOR VALLEY BOULEVARD
DUBLIN, CALIFORNIA

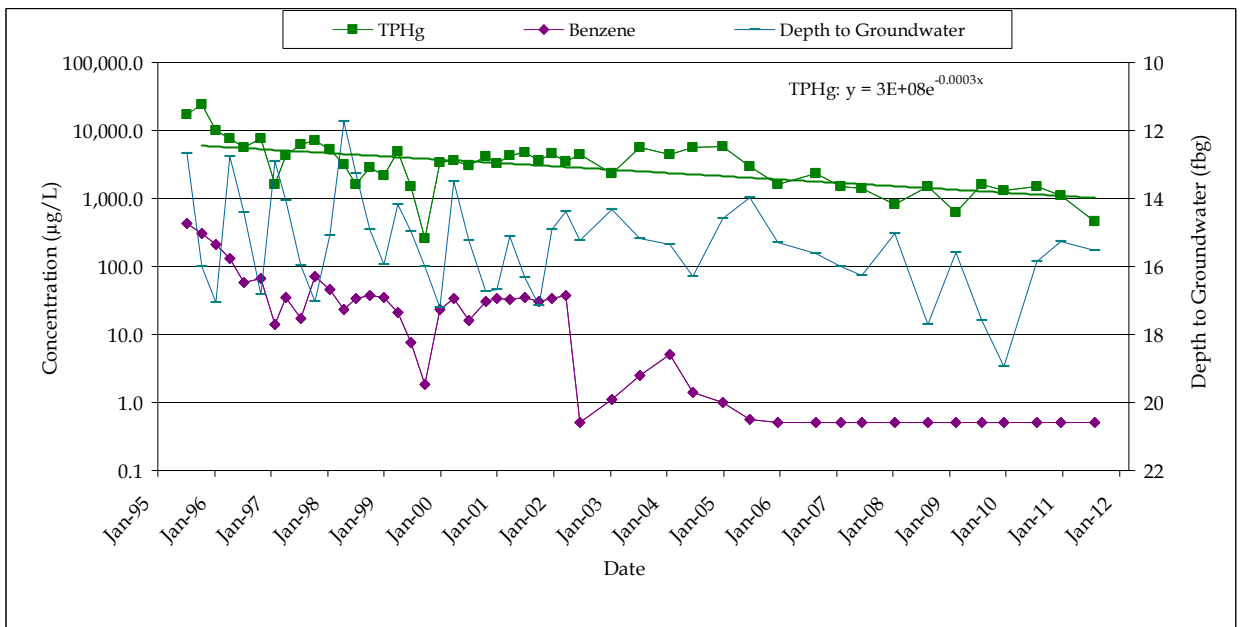
FIGURE C. U-1: MTBE CONCENTRATIONS AND DEPTH TO GROUNDWATER



UNOCAL STATION #7176
7850 AMADOR VALLEY BOULEVARD
DUBLIN, CALIFORNIA



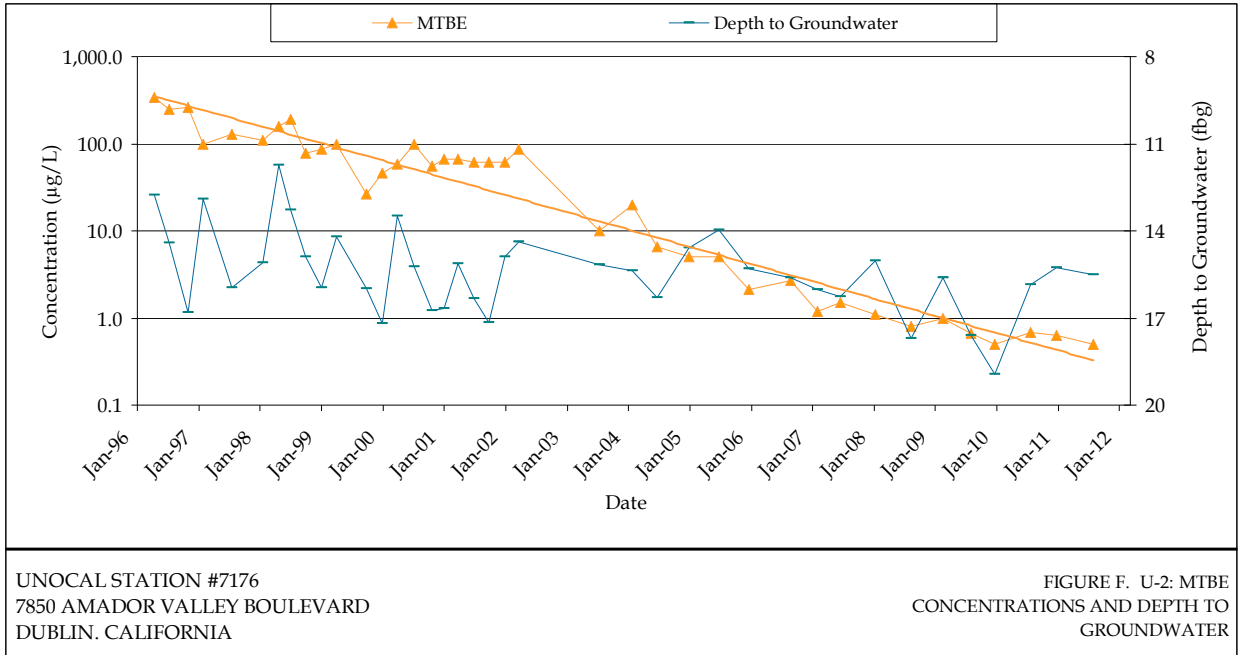
FIGURE D. U-2: TPHd CONCENTRATIONS AND DEPTH TO GROUNDWATER



UNOCAL STATION #7176
7850 AMADOR VALLEY BOULEVARD
DUBLIN, CALIFORNIA



FIGURE E. U-2: TPHg AND BENZENE CONCENTRATIONS AND DEPTH TO GROUNDWATER



6.0 REMEDIAL ACTIONS

In November 1994, the fuel USTs, related product lines, and dispensers were replaced, and the used-oil UST and oil/water separator were removed. Approximately 1,860 cubic yards of petroleum hydrocarbon-bearing soil was over-excavated and 5,000 gallons of groundwater were removed from the site during UST replacement activities. Due to excavation constraints, minor residual petroleum hydrocarbons remained in soil beneath the former USTs and the southern dispenser island. Although this minor hydrocarbon mass was left in place, the remaining dissolved hydrocarbon plume is shrinking, indicating that the rate of natural degradation exceeds the rate of hydrocarbons leaching to groundwater and any remaining residual mass in soil no longer poses a risk.

Additional remediation included the installation of oxygen releasing compounds (ORC) in site wells during the fourth quarter 1995 sampling event.

7.0 LOW-RISK GROUNDWATER CASE CLOSURE CRITERIA

Based on the information presented above, this site meets the RWQCB criteria for a low-risk fuel site. As described in the January 5, 1996 RWQCB memorandum *Interim*

Guidance on Required Cleanup at Low-Risk Fuel Sites dated December 8, 1995, a low-risk groundwater case has the following general characteristics:

- The leak was stopped and ongoing sources, including light non-aqueous phase liquid (LNAPL), have been removed or remediated to the maximum extent practicable
- The site has been adequately characterized
- The dissolved petroleum hydrocarbon plume is not migrating
- No municipal or private water wells, deeper drinking water aquifers, surface waters, or other sensitive receptors will be affected by any residual concentrations onsite
- The site presents no significant risk to human health or the environment

Each of the low-risk groundwater case characteristics, as they relate to the site, is discussed below.

7.1 THE LEAK HAS STOPPED AND ONGOING SOURCES, INCLUDING LNAPL, HAVE BEEN REMOVED

The leak has stopped, there are no ongoing sources, and no LNAPL has ever been detected at the site. In 1994, Gettler-Ryan removed five USTs, an oil/water separator, and associated product piping from the site. Hydrocarbon-bearing soil was over-excavated to the extent practicable. Although minor residual petroleum hydrocarbons remained in soil, concentrations in wells U-1 and U-2 located adjacent to the former and current USTs continue to decline and the dissolved hydrocarbon plume is shrinking, indicating that the rate of natural degradation exceeds the rate of hydrocarbons leaching to groundwater and any remaining residual mass in soil no longer poses a risk.

7.2 THE SITE HAS BEEN ADEQUATELY CHARACTERIZED

As previously discussed in Sections 4.1 and 4.2, the extent of petroleum hydrocarbons in soil and groundwater has been adequately characterized. Although the risk from hydrocarbons in soil vapor has not been investigated, with no significant residual hydrocarbons in shallow soil following over-excavation, no BTEX currently detected in groundwater, and because the site is and will likely remain an active service station for the foreseeable future, there is little if any vapor intrusion risk at this site. The limited

extent of petroleum hydrocarbons remaining in soil and groundwater is depicted on Figures 4 through 11.

**7.3 THE DISSOLVED PETROLEUM
HYDROCARBON PLUME IS NOT MIGRATING**

The remaining dissolved hydrocarbon plume consisting of TPHd and TPHg is limited onsite to the vicinity of the existing USTs as detected in wells U-1 and U-2. The hydrocarbon concentrations in U-1 and U-2 are declining, and are predicted to meet ESLs within 25 years, indicating that the plume is shrinking. In well MW-5, which is located downgradient of the dissolved plume, petroleum hydrocarbons are not detected, indicating that the plume has not migrated significantly downgradient of the site. Based on site data, the dissolved petroleum hydrocarbon plume is not migrating.

**7.4 NO MUNICIPAL OR PRIVATE WATER WELLS,
DEEPER DRINKING WATER AQUIFERS, SURFACE WATER,
OR OTHER SENSITIVE RECEPTORS WILL BE AFFECTED
BY ANY RESIDUAL CONCENTRATION ONSITE**

No municipal or private water supply wells, deeper drinking water aquifers, surface water, or other sensitive receptors will be affected by any residual petroleum hydrocarbons onsite. As discussed previously in Section 3.0, no surface water bodies, schools, daycare centers, hospitals, or churches were identified within a 1-mile radius of the site. Only one supply well (domestic) was identified in the vicinity of the site, located approximately 0.4 miles southwest (crossgradient). Due to the supply well's distance and orientation, petroleum hydrocarbons originating from the site will not impact this receptor.

**7.5 THE SITE PRESENTS NO SIGNIFICANT RISK TO
HUMAN HEALTH OR THE ENVIRONMENT**

A Tier II RBCA analysis performed by ERI in 2000 concluded that petroleum hydrocarbons in soil and groundwater at that time presented no significant risk to human health or the environment. Additionally, CRA completed the following Tier I risk evaluation of potential exposure pathways by comparing site data to RWQCB ESLs, which supports the previous findings that the site poses no significant risk to human health or the environment.

7.5.1 SOIL

The two primary exposure pathways for residual hydrocarbons in soil are leaching to groundwater and direct exposure.

Leaching Concerns

Following over-excavation in 1994, only four confirmation soil samples remained that exceeded soil leaching ESLs (ESL Table G). Although this minor hydrocarbon mass was left in place, the remaining dissolved hydrocarbon plume is shrinking, indicating that the rate of natural degradation exceeds the rate of hydrocarbons leaching to groundwater and any remaining residual mass in soil no longer poses a risk.

Direct Exposure

The site is an active service station and auto shop. If the site is ever redeveloped in the future, direct exposure to hydrocarbons in soil by construction and trench workers is possible. No hydrocarbon concentrations detected soil samples collected at the site exceed the ESLs for direct exposure to construction and trench workers (ESL Table K-3); therefore, there is no direct exposure risk.

7.5.2 GROUNDWATER

The three primary exposure pathways for dissolved hydrocarbons in groundwater are ingestion, discharge to surface waters, and potential vapor intrusion concerns. Table A above presents the current hydrocarbon concentrations in groundwater and applicable ESLs.

Ingestion

The primary exposure pathway for groundwater is ingestion. TPHd and TPHg concentrations exceed the drinking water ESLs (Table F-1a) in wells U-1 and U-2; however, the concentrations are declining at a reasonable rate, the plume is shrinking, and no receptors are at risk. No BTEX or MTBE are currently detected in groundwater.

Surface Water

No surface water was identified near the site that would be at risk; therefore, this pathway is not complete.

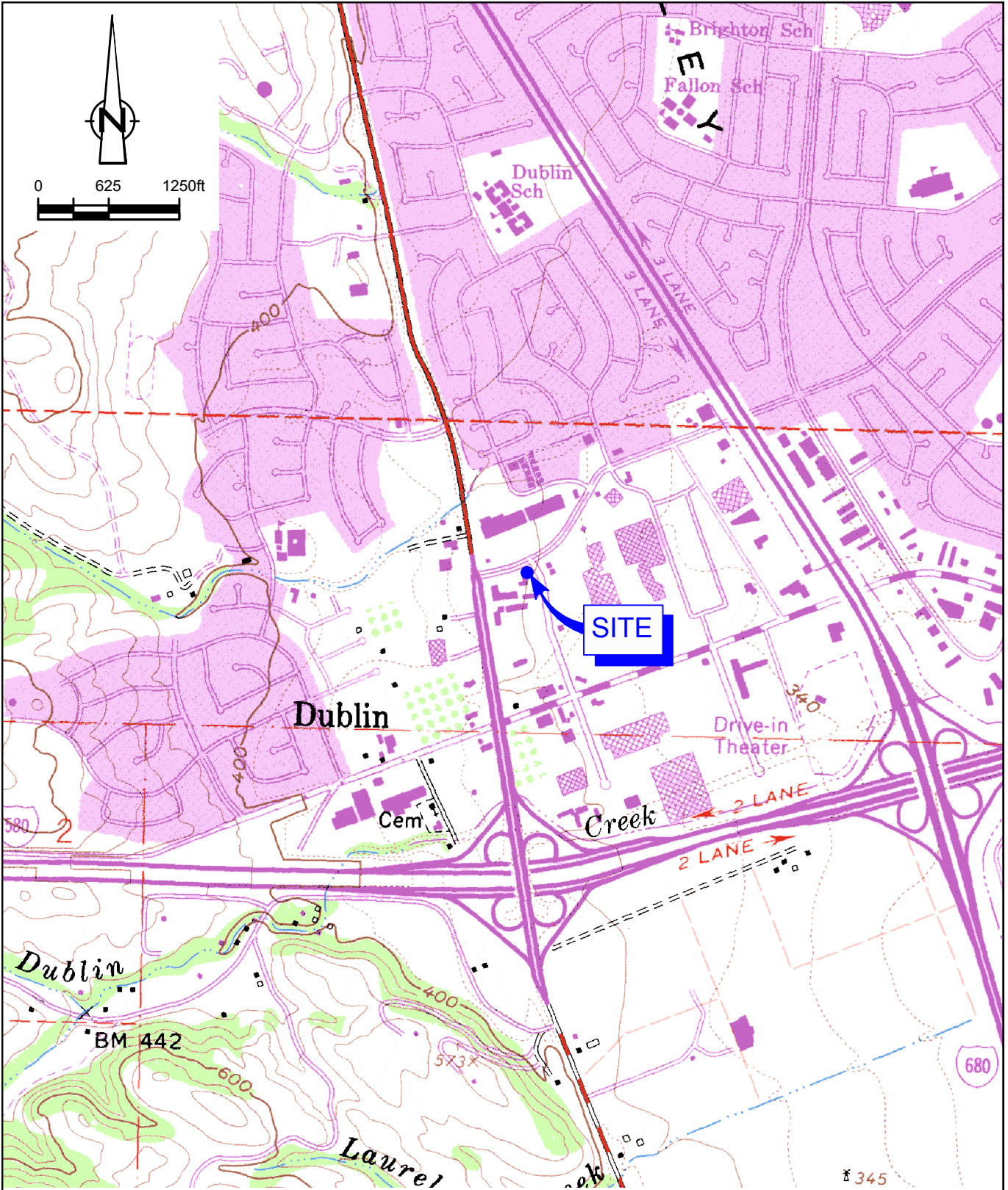
Vapor Intrusion

No BTEX or MTBE are detected in groundwater, and the remaining TPHd and TPHg are limited in extent away from any enclosed service station structures, and there is no indoor inhalation risk from subsurface hydrocarbons.

8.0 CONCLUSIONS AND RECOMMENDATIONS

Based on CRA's review of site conditions and analytical data, petroleum hydrocarbons in soil and groundwater are limited and defined, and the dissolved plume is shrinking. This site satisfies the January 5, 1996 RWQCB criteria for a low-risk fuel site; therefore, on behalf of EMC, CRA requests no further action and case closure for the site.

FIGURES



SOURCE: USGS QUADRANGLE MAP: DUBLIN, CA.

Figure 1

VICINITY MAP
 UNOCAL STATION #7176 (UNION OIL SITE 351788)
 7850 AMADOR VALLEY BOULEVARD
 Dublin, California



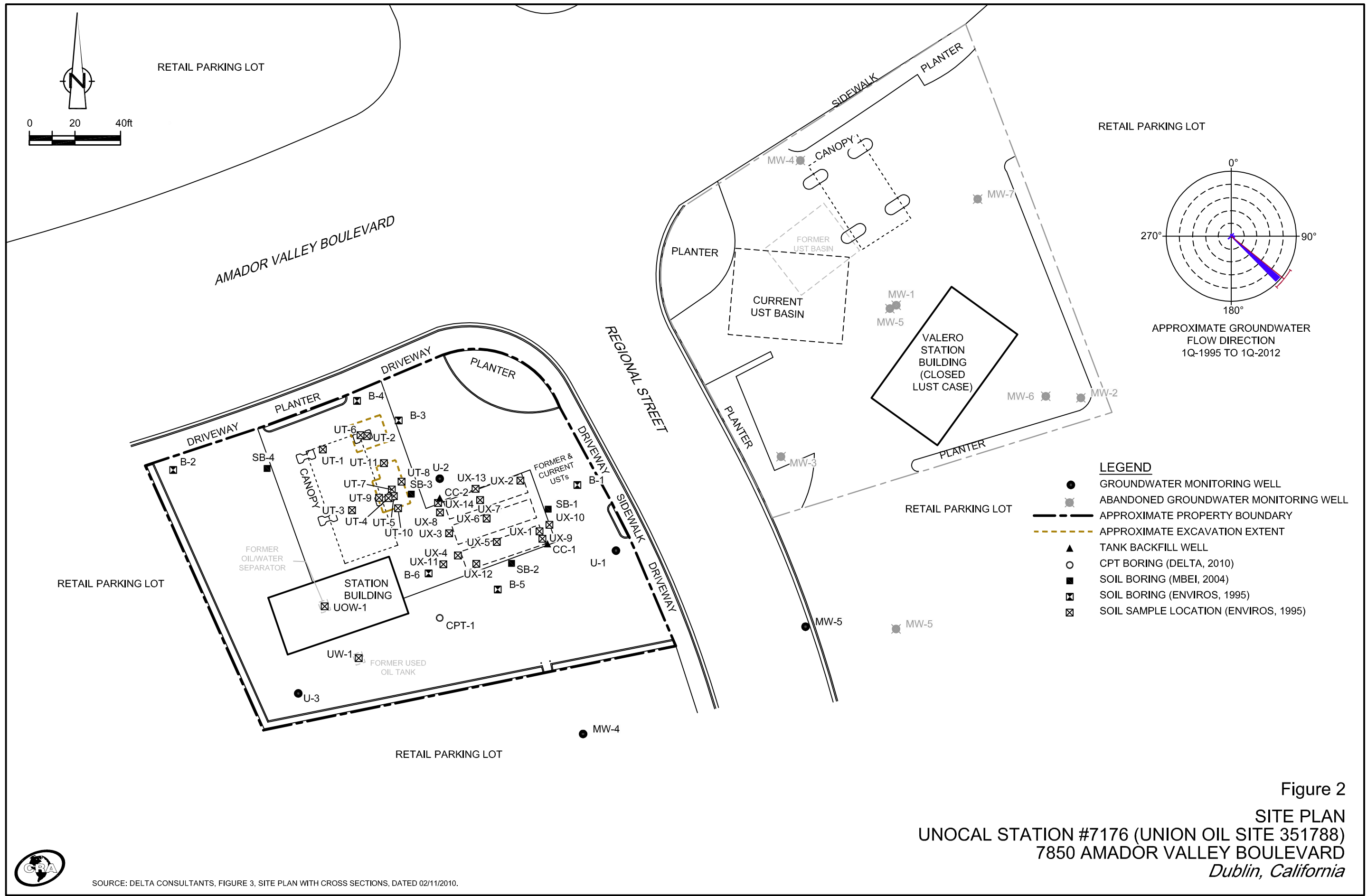


Figure 2
 SITE PLAN
 UNOCAL STATION #7176 (UNION OIL SITE 351788)
 7850 AMADOR VALLEY BOULEVARD
 Dublin, California



SOURCE: DELTA CONSULTANTS, FIGURE 3, SITE PLAN WITH CROSS SECTIONS, DATED 02/11/2010.

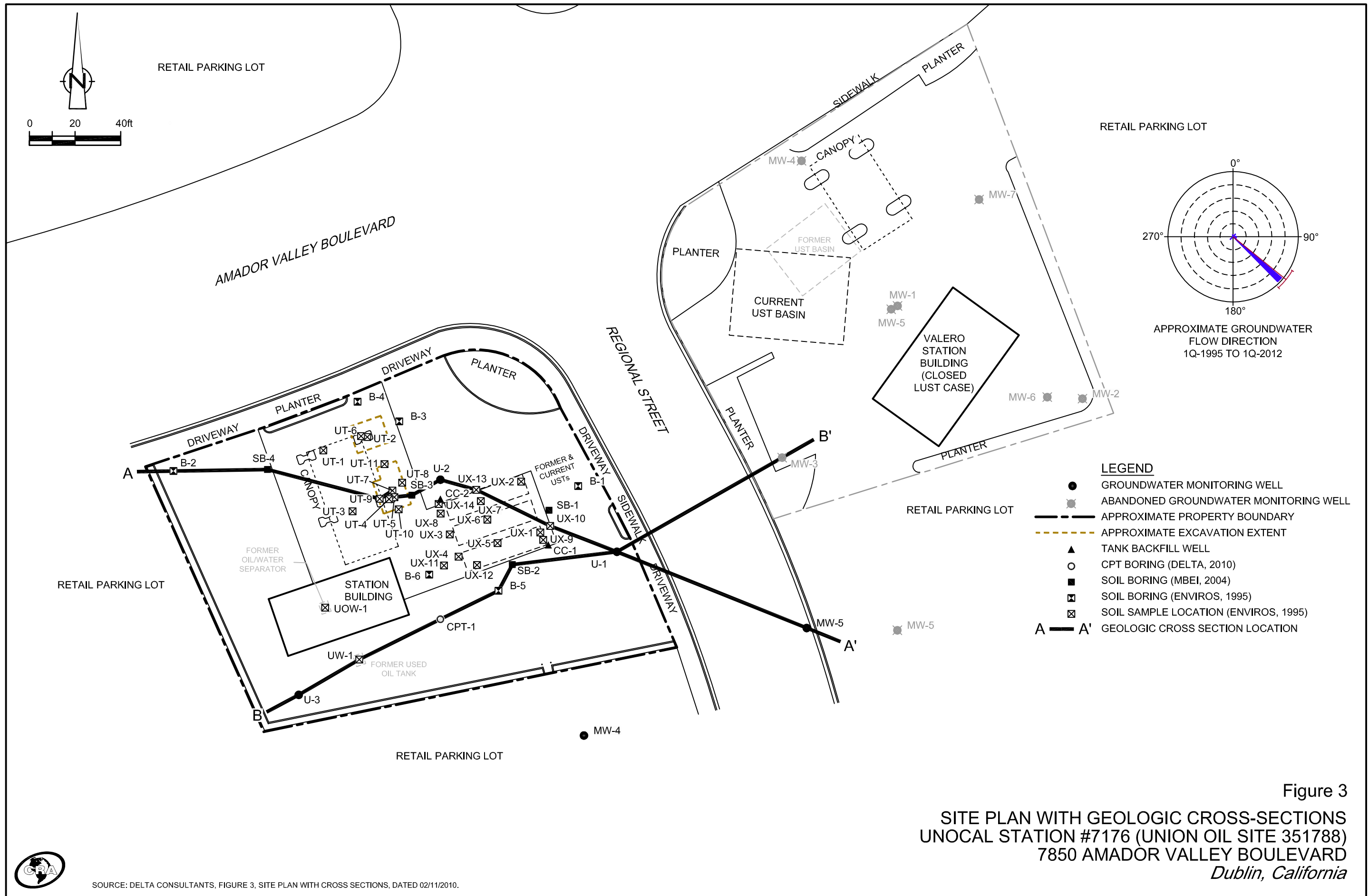
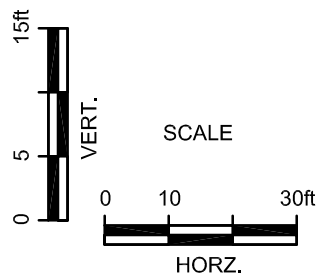
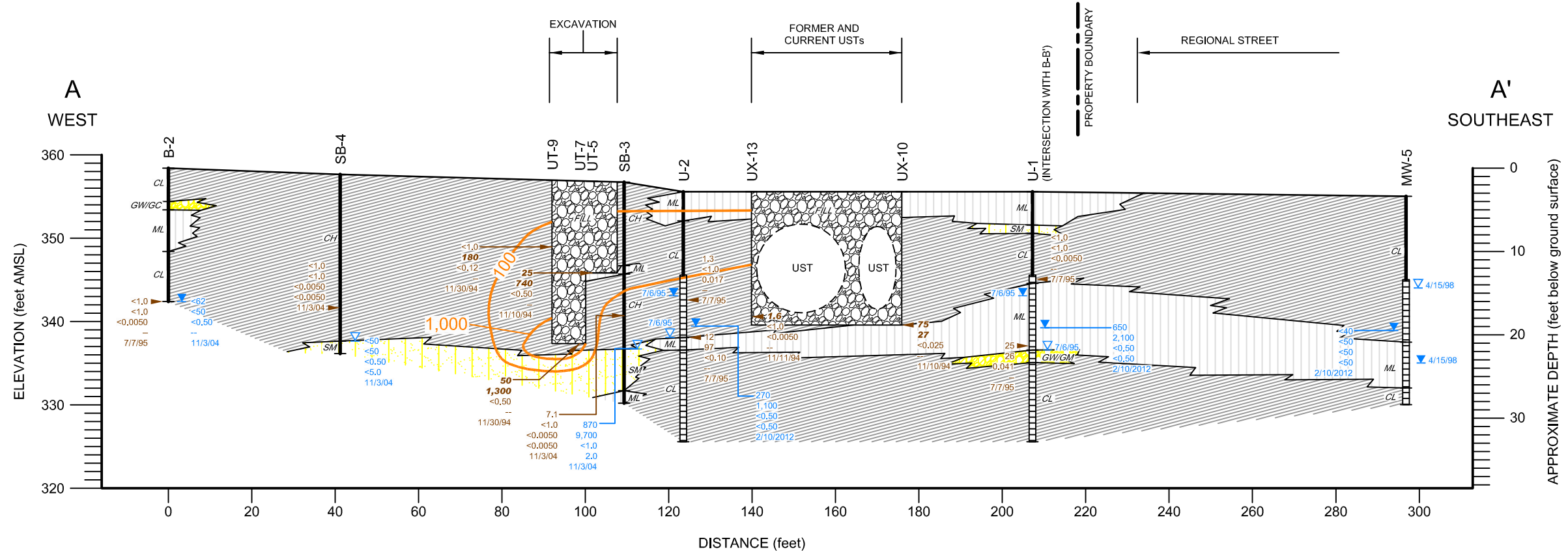


Figure 3
 SITE PLAN WITH GEOLOGIC CROSS-SECTIONS
 UNOCAL STATION #7176 (UNION OIL SITE 351788)
 7850 AMADOR VALLEY BOULEVARD
 Dublin, California



SOURCE: DELTA CONSULTANTS, FIGURE 3, SITE PLAN WITH CROSS SECTIONS, DATED 02/11/2010.



LEGEND

- | | | | |
|------|--|--------|---|
| U-2 | — WELL DESIGNATION | | FILL - ARTIFICIAL FILL |
| — | GROUND SURFACE | | CL/CH - INORGANIC CLAYS OF LOW TO HIGH PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS |
| — | OBSERVATION WELL INSTALLATION | | GW/GC - CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES |
| — | STRATIGRAPHIC BOUNDARY | | ML - INORGANIC SILTS, VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, CLAYEY SILTS WITH SLIGHT PLASTICITY |
| cl | — TYPICAL SOIL CLASSIFICATION | | SM - SILTY SANDS, SAND-SILT MIXTURES |
| — | SCREENED INTERVAL | | GW/GM - SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES |
| — | BOTTOM OF BORING | | |
| TPHd | ▲ APPROXIMATE SOIL SAMPLE LOCATION | DATE ▽ | FIRST ENCOUNTERED GROUNDWATER DEPTH |
| TPHg | ▲ HYDROCARBON CONCENTRATIONS IN SOIL (mg/kg) | DATE ▽ | STATIC GROUNDWATER DEPTH |
| MTBE | ▲ | --- | NOT ANALYZED |
| DATE | ▲ | —100— | TPHg ISOCONCENTRATION IN SOIL (mg/kg) DASHED WHERE INFERRED |
| TPHd | ▲ APPROXIMATE GROUNDWATER SAMPLE LOCATION | | |
| TPHg | ▲ HYDROCARBON CONCENTRATIONS IN GROUNDWATER (µg/L) | | |
| MTBE | ▲ | | |
| DATE | ▲ | | |

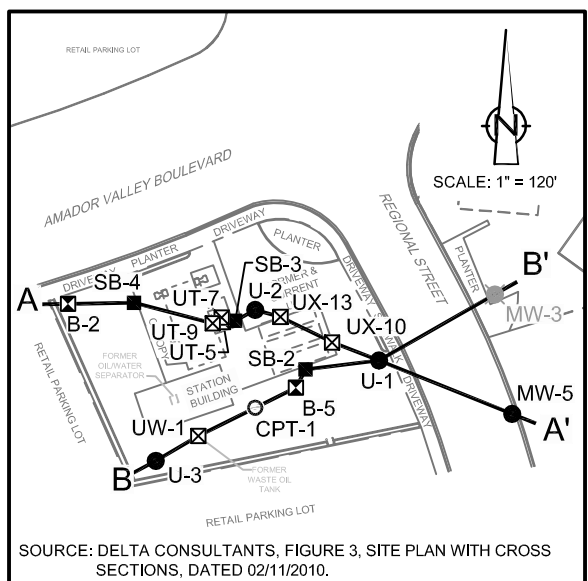
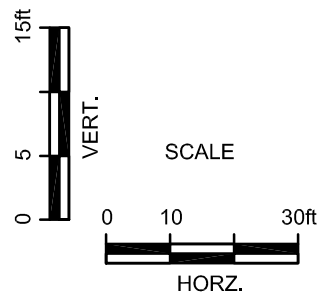
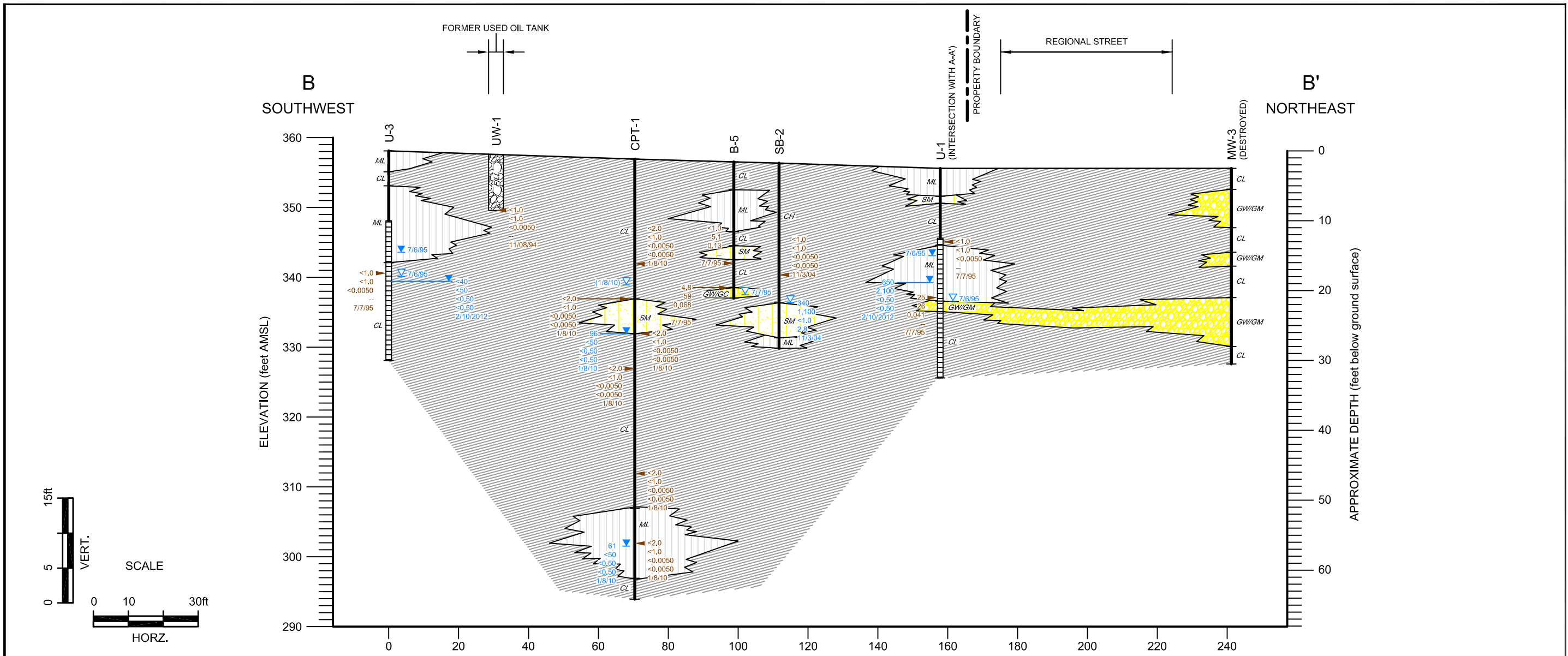


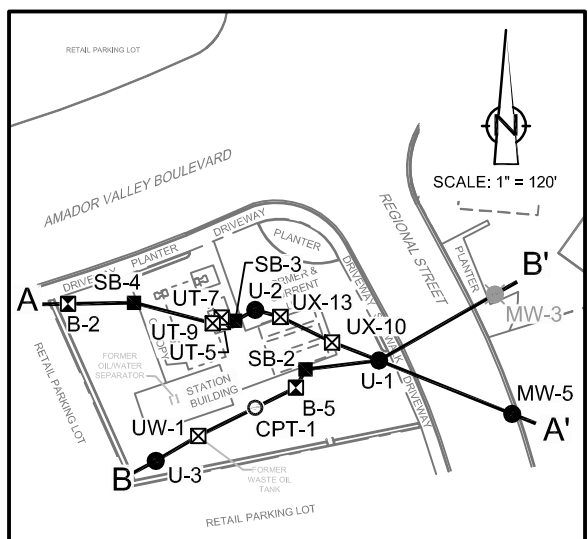
Figure 4
GEOLOGIC CROSS-SECTION A-A'
UNOCAL STATION #7176 (UNION OIL SITE 351788)
7850 AMADOR VALLEY BOULEVARD
Dublin, California



VERTICAL EXAGGERATION = 2x

LEGEND

- U-1 — WELL DESIGNATION
- GROUND SURFACE
- OBSERVATION WELL INSTALLATION
- STRATIGRAPHIC BOUNDARY
- CL — TYPICAL SOIL CLASSIFICATION
- SCREENED INTERVAL
- BOTTOM OF BORING
- ▲ — APPROXIMATE SOIL SAMPLE LOCATION
- ▲ — APPROXIMATE GROUNDWATER SAMPLE LOCATION
- ▼ — FIRST ENCOUNTERED GROUNDWATER DEPTH
- ▼ — STATIC GROUNDWATER DEPTH
- — NOT ANALYZED
- — FILL - ARTIFICIAL FILL
- — CL/CH- INORGANIC CLAYS OF LOW TO HIGH PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
- — GW/GC - CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
- — ML - INORGANIC SILTS, VERY FINE SANDS, SILTY OR CLAYEY FINE SANDS, CLAYEY SILTS WITH SLIGHT PLASTICITY
- — SM - SILTY SANDS, SAND-SILT MIXTURES
- — GW/GM - SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES



SOURCE: DELTA CONSULTANTS, FIGURE 3, SITE PLAN WITH CROSS SECTIONS, DATED 02/11/2010.

Figure 5
GEOLOGIC CROSS-SECTION B-B'
UNOCAL STATION #7176 (UNION OIL SITE 351788)
7850 AMADOR VALLEY BOULEVARD
Dublin, California

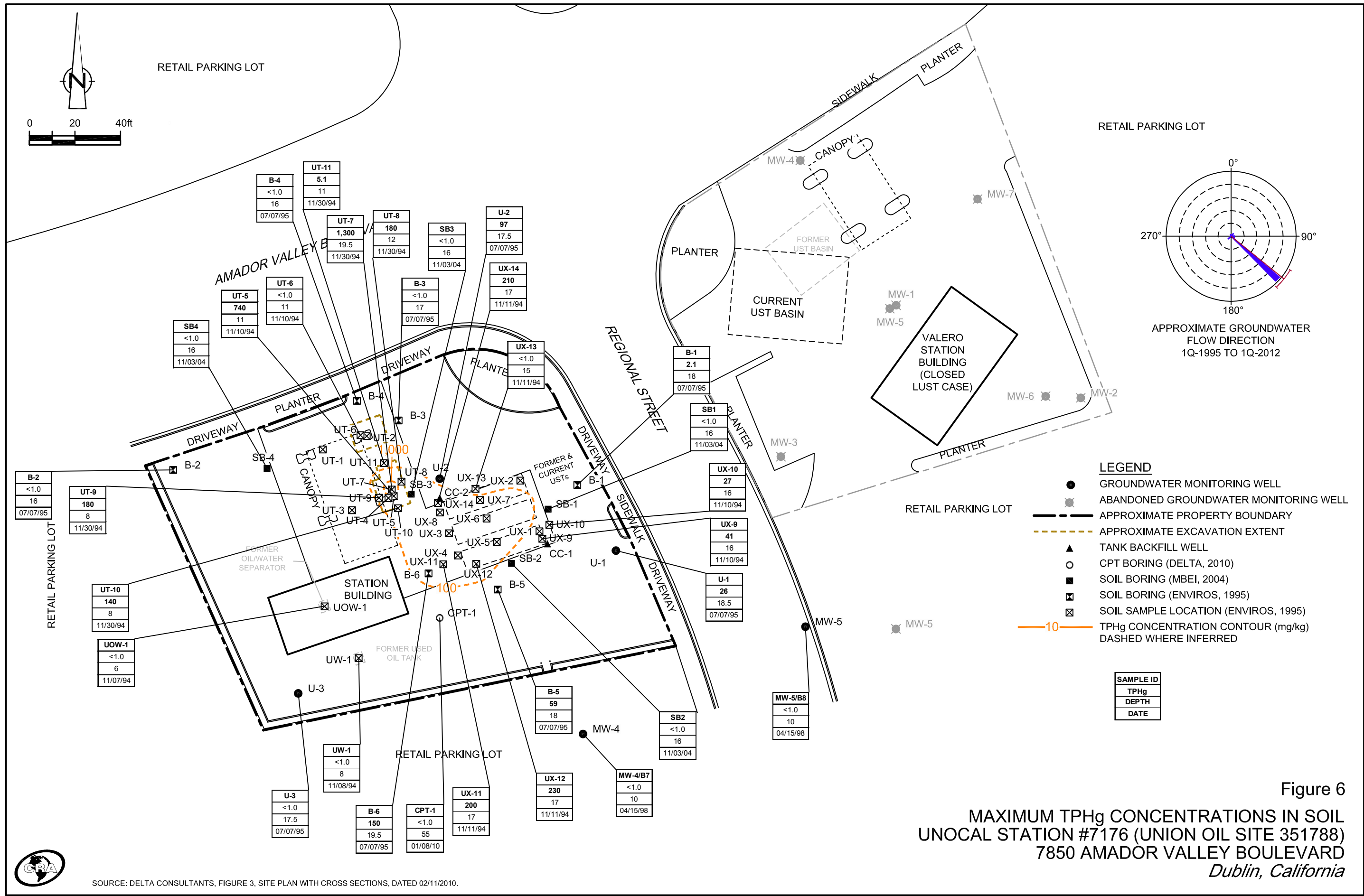


Figure 6
 MAXIMUM TPHg CONCENTRATIONS IN SOIL
 UNOCAL STATION #7176 (UNION OIL SITE 351788)
 7850 AMADOR VALLEY BOULEVARD
 Dublin, California

SOURCE: DELTA CONSULTANTS, FIGURE 3, SITE PLAN WITH CROSS SECTIONS, DATED 02/11/2010.

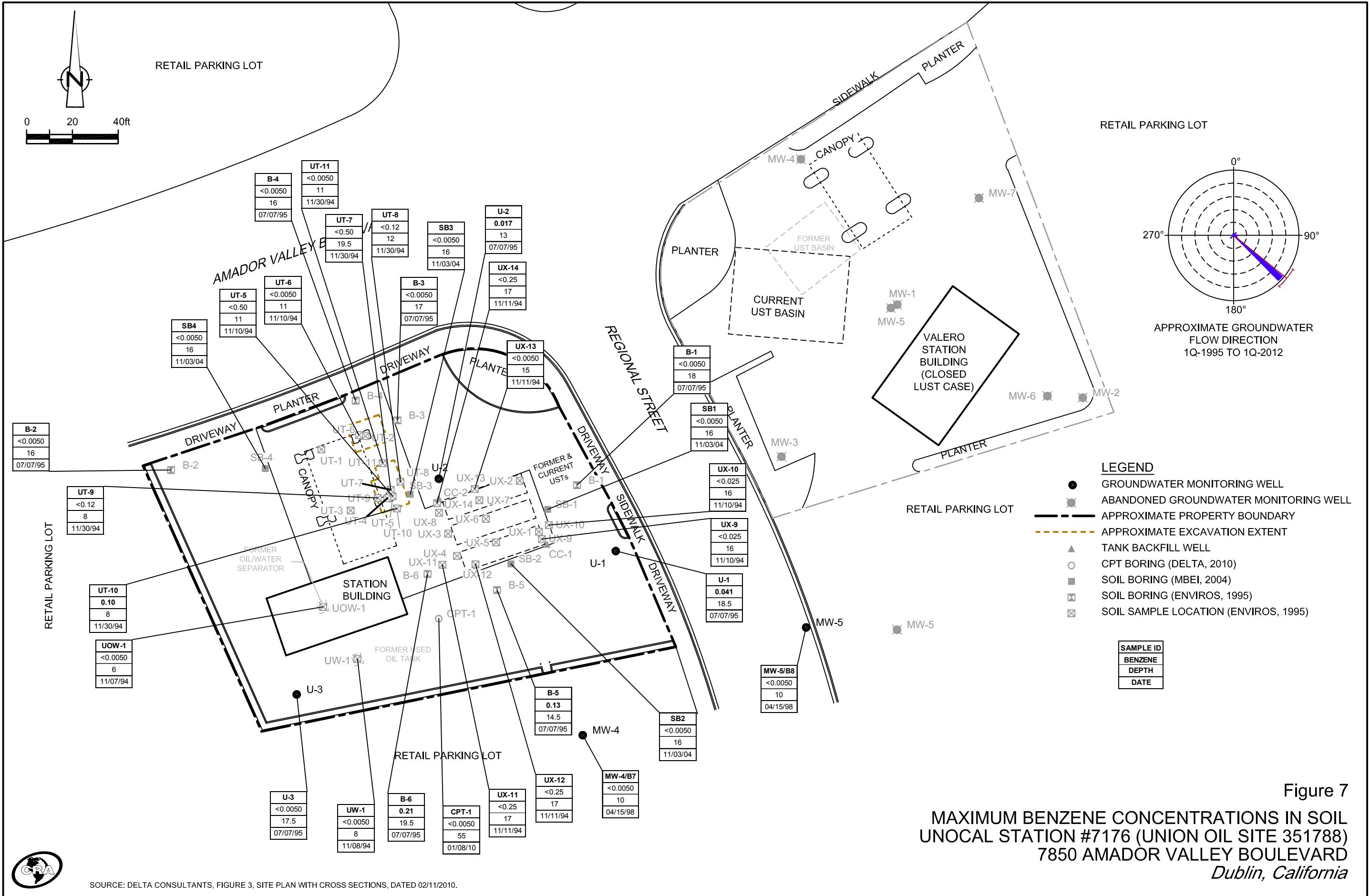


Figure 7
MAXIMUM BENZENE CONCENTRATIONS IN SOIL
UNOCAL STATION #7176 (UNION OIL SITE 351788)
7850 AMADOR VALLEY BOULEVARD
Dublin, California

SOURCE: DELTA CONSULTANTS, FIGURE 3, SITE PLAN WITH CROSS SECTIONS, DATED 02/11/2010.



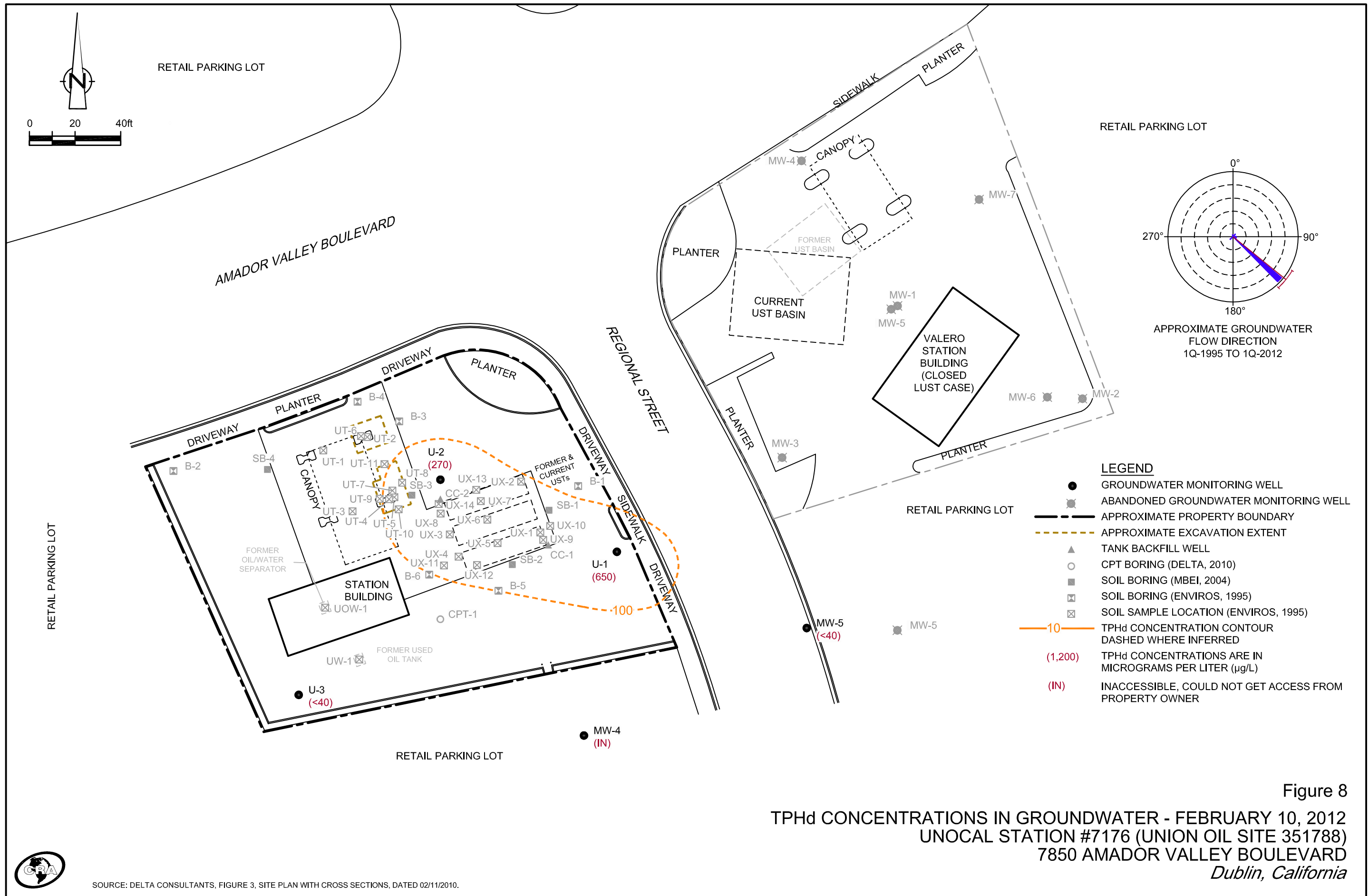


Figure 8
 TPHd CONCENTRATIONS IN GROUNDWATER - FEBRUARY 10, 2012
 UNOCAL STATION #7176 (UNION OIL SITE 351788)
 7850 AMADOR VALLEY BOULEVARD
 Dublin, California



SOURCE: DELTA CONSULTANTS, FIGURE 3, SITE PLAN WITH CROSS SECTIONS, DATED 02/11/2010.

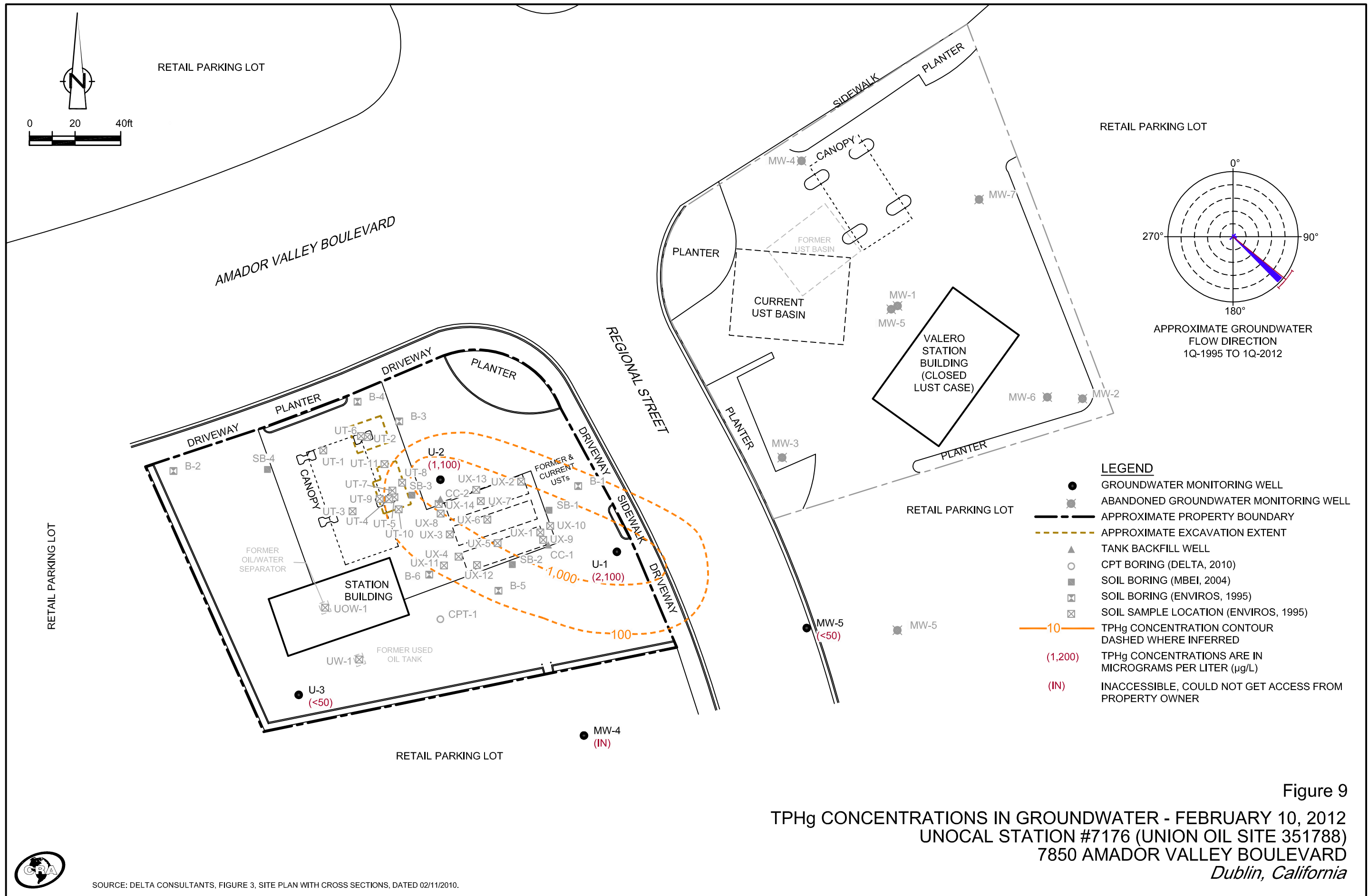


Figure 9
 TPHg CONCENTRATIONS IN GROUNDWATER - FEBRUARY 10, 2012
 UNOCAL STATION #7176 (UNION OIL SITE 351788)
 7850 AMADOR VALLEY BOULEVARD
 Dublin, California



SOURCE: DELTA CONSULTANTS, FIGURE 3, SITE PLAN WITH CROSS SECTIONS, DATED 02/11/2010.

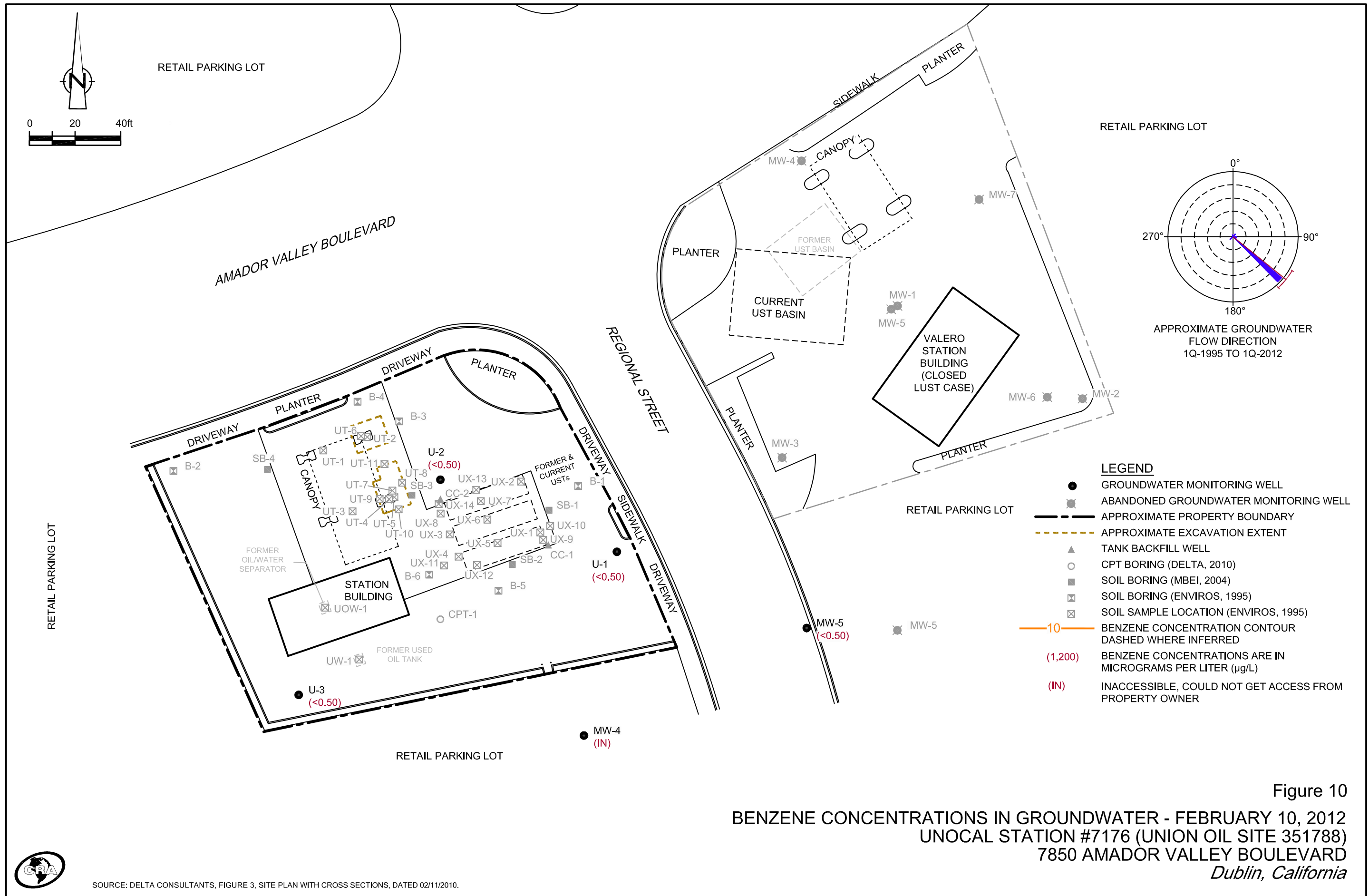


Figure 10
 BENZENE CONCENTRATIONS IN GROUNDWATER - FEBRUARY 10, 2012
 UNOCAL STATION #7176 (UNION OIL SITE 351788)
 7850 AMADOR VALLEY BOULEVARD
 Dublin, California



SOURCE: DELTA CONSULTANTS, FIGURE 3, SITE PLAN WITH CROSS SECTIONS, DATED 02/11/2010.

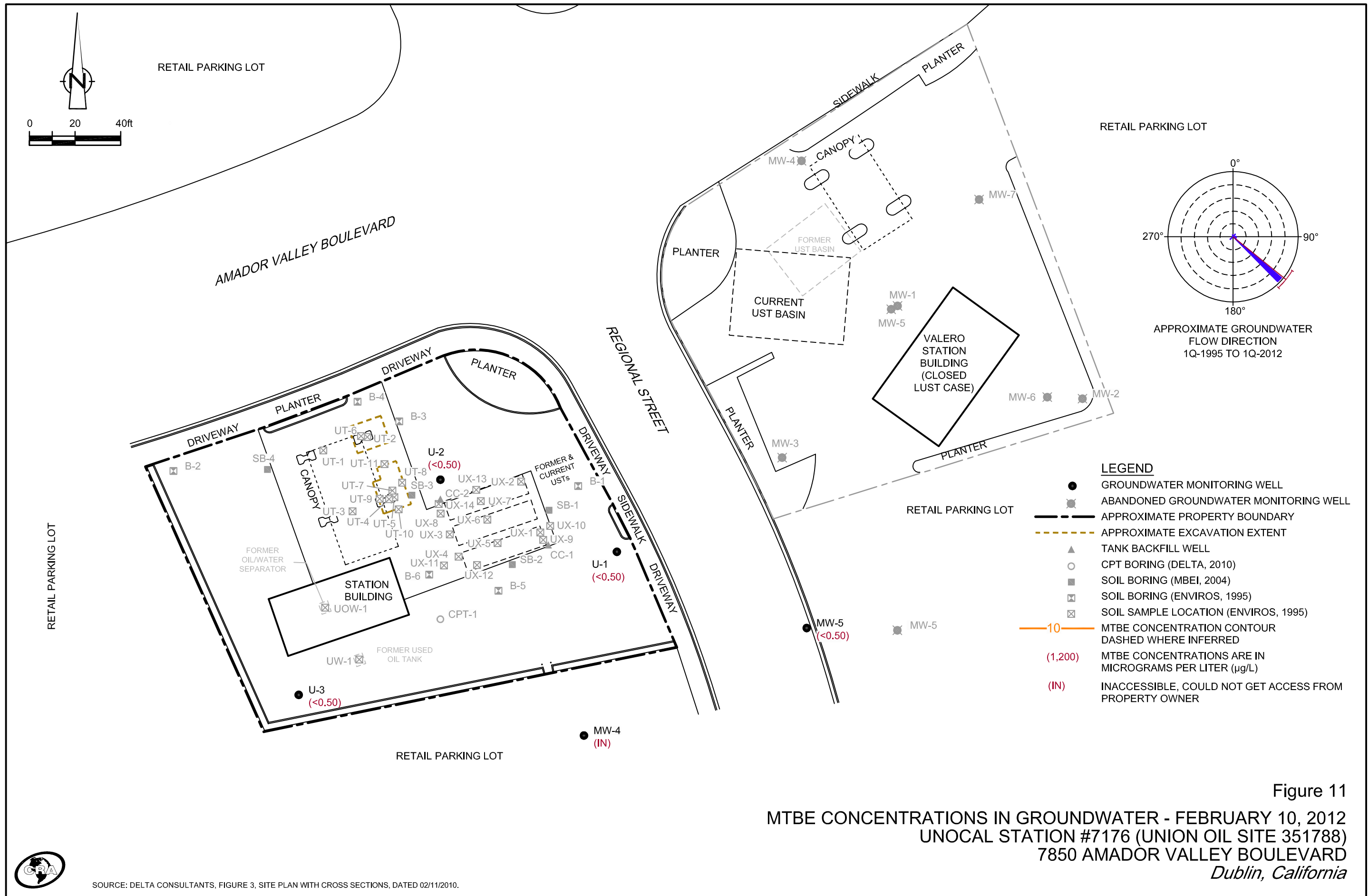


Figure 11
 MTBE CONCENTRATIONS IN GROUNDWATER - FEBRUARY 10, 2012
 UNOCAL STATION #7176 (UNION OIL SITE 351788)
 7850 AMADOR VALLEY BOULEVARD
 Dublin, California



SOURCE: DELTA CONSULTANTS, FIGURE 3, SITE PLAN WITH CROSS SECTIONS, DATED 02/11/2010.

APPENDIX A

SUMMARY OF ENVIRONMENTAL INVESTIGATION AND REMEDIATION

**SUMMARY OF ENVIRONMENTAL INVESTIGATION AND REMEDIATION
UNOCAL STATION #7176 (UNION OIL SITE 351788)
7850 AMADOR VALLEY BLVD., DUBLIN, CALIFORNIA**

November 1994 Underground Storage Tank Removal

Gettler-Ryan, Inc. (G-R) removed one 10,000-gallon steel diesel underground storage tank (UST), three 10,000-gallon steel gasoline USTs, one 280 gallon steel waste-oil UST, an oil/water separator, and associated product piping. Only the waste-oil UST had holes, of which there were eight up to one-half-inch in diameter. Soil samples were collected beneath the USTs, oil/water separator, and product piping. Results detected minor total petroleum hydrocarbon (TPH) impact in soil, which was removed when portions of the fuel UST pit and product piping trenches were over-excavated. Additional information is available in Enviros, Inc. (Enviros) March 23, 1995 *Storage Tank Replacement Observation Report* and in a March 31, 1995 facsimile to Ed Ralston of Unocal from Clyde Galantine regarding site excavation.

July 1995 Preliminary Soil and Groundwater Investigation

Enviros advanced six soil borings (B-1 through B-6) and installed monitoring wells U-1 through U-3. Soil samples were collected at each location and grab-groundwater samples were collected from borings B-2 and B-4. A groundwater sample was collected from one UST backfill well. Additional information is available in Enviros' October 10, 1995 *Preliminary Soil and Groundwater Investigation Report*.

April 1998 Supplemental Evaluation and Investigation

Environmental Resolutions, Inc. (ERI) installed offsite monitoring wells MW-4 and MW-5. No petroleum hydrocarbons were detected in soil from these locations. Additional information is available in ERI's August 4, 1998 *Supplemental Evaluation and Investigation Report*.

August 2000 Request and Work Plan for Case Closure

ERI submitted a case closure request that contained a sensitive receptor survey (SRS) and a Tier-II risk-based corrective action (RBCA) analysis. ERI identified several wells in government records, but the wells could not be confirmed during the field survey. The closest of these wells was 750 feet south (crossgradient). The nearest surface water located during the field survey was approximately 800 feet north (upgradient). Based on the RBCA results, ERI concluded residual petroleum hydrocarbons at the site do not pose a significant risk to human health or the environment. Additional information is available in ERI's August 31, 2000 *Request and Work Plan for Case Closure*.

June 2002 Request for Case Closure Addendum

ERI submitted a case closure addendum that included groundwater elevation maps, dissolved-phase petroleum hydrocarbon isoconcentration maps, and a Site Closure Summary form as requested by Alameda County Environmental Health (ACEH). Additional information is available in ERI's June 21, 2002 *Isoconcentration Maps and Updated Site Closure Summary Forms Package*.

November 2004 Limited Phase II Environmental Site Assessment

Miller Brooks Environmental, Inc. (MBEI) advanced four soil borings (SB1 through SB4), collecting soil and grab-groundwater samples from each location. Petroleum hydrocarbons were detected in soil samples from SB3 only. Dissolved-phase petroleum hydrocarbons were detected in grab-groundwater from all borings except SB4. Additional information is available in MBEI's December 10, 2004 *Limited Phase II Environmental Site Assessment Report*.

July 2007 Sensitive Receptor Survey

Delta Environmental Consultants (Delta) obtained DWR records and performed field reconnaissance for a sensitive receptor survey. DWR records indicate 28 water supply wells were within 1 mile; however, the closest well was a domestic well approximately 0.4 miles southwest (crossgradient). The field survey focused on any potential sensitive receptors within 1,000 feet of the site, and no schools, daycare centers, hospitals, churches, or nursing homes were identified. No water bodies were identified within 1,000 feet of the site. Additional information is available in Delta's July 24, 2007 *Sensitive Receptor Survey*.

January 2010 CPT Vertical Assessment

Delta advanced one onsite cone penetrometer test (CPT) boring CPT-1 to perform a vertical assessment of groundwater at the site. With the exception of TPH as diesel (TPHd) in groundwater, no hydrocarbons were detected in soil or groundwater. The reported concentrations of TPHd were below the Bay Area Regional Water Quality Control Board's Environmental Screening Level of 100 micrograms per liter ($\mu\text{g}/\text{L}$). Additional information is available in Delta's February 15, 2010 *CPT Vertical Assessment Report*.

APPENDIX B

BORING LOGS

Delta Consultants

Project No: C107176

Logged By: A. Buehler/ C. Morgan

Driller: **Gregg Drilling**

Drilling Method: Cone Penetration Testing

Sampling Method: Macrocore

Casing Type: N/A

Slot Size: N/A

Gravel Pack: N/A

Client: **ConocoPhillips**

Location: 7850 Amador Valley Blvd.

Dublin, CA

Hole Diameter: 6"

Hole Depth: 63' bgs

First Water Depth: 18' bgs

Static Water Depth: N/A

Well Depth: N/A

Boring No: CPT-1

Date Drilled: 01/08/2010

Page 1 of 3



▽ = First Water

▼ = Static Groundwater

Elevation

Northing

Easting

Boring Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
 Neat Cement		moist	0.1	Air-Knife 9:55 @ 5'	1			CL	Removed two inches (2") of asphalt. Asphalt layer covered geo-fabric. Airknifed material was sandy silt with clay to five feet (5') below ground surface.
					2				
					3				
					4				
					5				
		moist	0.5	10:03 @ 10'	6			CL	Silty sand with clay; dark brown.
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				
		moist	0.7	10:08 @ 15'	16			CL	Same as above. Increased clay.
					17				
					18				
					19				
					20				
					21				
					22				
wet	35.8	10:14 @ 20'	20			SM	Silty Sand with Gravel; gray. Strong petroleum hydrocarbon odor.		
			21						

Delta Consultants

Project No: C107176
 Logged By: A. Buehler/ C. Morgan
 Driller: **Gregg Drilling**
 Drilling Method: Cone Penetration Testing
 Sampling Method: Macrocore
 Casing Type: N/A
 Slot Size: N/A
 Gravel Pack: N/A

Client: **ConocoPhillips**
 Location: **7850 Amador Valley Blvd.**
Dublin, CA
 Hole Diameter: 6"
 Hole Depth: 63' bgs
 First Water Depth: 18' bgs
 Static Water Depth: N/A
 Well Depth: N/A

Boring No: CPT-1
 Date Drilled: 01/08/2010
 Page 2 of 3

▽ = First Water
 ▼ = Static Groundwater

Elevation Northing Easting

Boring Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION	
Neat Cement		moist	1.0	10:23 @ 25'	23			CL	Clay with silt; brown.	
	24									
	25									
	26									
	27									
				0.8	10:30 @ 30'	28			CL	Same as above. Increased wetness.
	29									
	30									
	31									
	32									
				0.5	10:38 @ 35'	33			CL	Same as above.
	34									
	35									
	36									
	37									
				0.6	10:47 @ 40'	38			CL	Same as above.
	39									
	40									
	41									
	42									
	43									
	44									

Delta Consultants

Project No: C107176
 Logged By: A. Buehler/ C. Morgan
 Driller: **Gregg Drilling**
 Drilling Method: Cone Penetration Testing
 Sampling Method: Macrocore

Client: **ConocoPhillips**
 Location: 7850 Amador Valley Blvd.
Dublin, CA
 Hole Diameter: 6"
 Hole Depth: 63' bgs
 First Water Depth: 18' bgs
 Static Water Depth: N/A

Boring No: CPT-1
 Date Drilled: 01/08/2010
 Page 3 of 3

▽ = First Water

▼ = Static Groundwater

Elevation

Northing

Easting

Boring Completion Backfill	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION		
						Recovery	Analyzed				
Neat Cement		wet	0.5	10:57 @ 45'	45			CL	Clay with silt; firm.		
					46						
					47						
				sat	0.6	11:12 @ 50'	48			ML	Silty clay with some very fine grained sand; brown.
		49									
		50									
				0.7	11:22 @ 55'	51			ML	Same as above.	
		52									
		53									
				0.3	11:35 @ 60'	54			CL	Clay; brown to gray; very dense.	
		55									
		56									
						57					
						58					
						59					
						60					
						61					
						62					
				63				Boring Terminated at 63' bgs			
				64							
				65							
				66							

	MAJOR DIVISIONS		USCS SYMBOL		TYPICAL NAMES	
COARSE-GRAINED SOILS MORE THAN HALF IS LARGER THAN 200 SIEVE	GRAVELS	Clean gravels with little or no fines	GW		Well-graded gravels, gravel-sand mixtures	
		More than half coarse fraction larger than No. 4 sieve size	GP		Poorly graded gravels, gravel-sand mixtures	
		Gravels with appreciable amounts of fines	GM		Silty gravels, poorly graded gravel-sand-clay mixtures	
			GC		Clayey gravels, poorly graded gravel-sand-clay mixtures	
	SANDS	Clean sands with little or no fines	SW		Well graded sands, gravelly sands	
		More than half coarse fractions smaller than No. 4 sieve size	SP		Poorly graded sands, gravelly sands	
		Sands with appreciable amounts of fines	SM		Silty sands, poorly graded sand-silt mixtures	
			SC		Clayey sands, poorly graded sand-silt mixtures	
			Sils and clays Liquid limit 50% or less	ML		Inorganic silts and very fine sands, Rock flour, silty or clayey fine sands or clayey silts with slight plasticity
				CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
Sils and clays. Liquid limit greater than 50%	OL		Organic clays and organic silty clays of low plasticity			
	MH		Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts			
	CH		Inorganic clays of high plasticity, fat clays			
	OH		Organic clays of medium to high plasticity, organic silts			
Highly organic soils		PT		Peat and other highly organic soils		
Debris created or generated by man				Building debris or rubble		

KEY TO FIELD DATA

- Blows/6" - 140 lb. hammer dropped 30 inches.
- PPM - Parts per million
- OVM - Organic Vapor Meter
- Soil Color - Munsell Color Chart (1988 Edition)
- First encountered groundwater
- Equilibrated groundwater level
- Soil sample interval
- No soil sample recovery

PLATE	UNIFIED SOIL CLASSIFICATION SYSTEM ASTM D2487-85	enviros [®] 94000.00
	Drawn By: JLP	

Field Exploratory Boring Log B-1

OVM (ppm)	Blows/6"	Sample Number	Depth (ft)	Soil Group (USCS)	Materials Description
			0	Asphalt	
			5	Silty Clay (CL)	Black (10YR 2/1); very stiff, moist, 80% clay, 15% silt, 5% very fine sand.
0	6 6 7		6		Color change to Gray (5Y 5/1); stiff, wet.
0	5 10 13	B-1-13'	10		Change to very stiff, moist.
0	12 12 15	B-1-18'	15		Color change to Dark Grayish Brown (10YR 4/2), very stiff, moist to wet, increase in very fine sand content.
			18	▽	Saturated at 18 ft.
					Total Depth of Boring = 18.0 feet.

BORING B-1	UNOCAL CORPORATION - CERT Unocal SS No. 7176 7850 Amador Valley Boulevard Dublin, California	Borehole Diameter: 8 inches Logged by: C. Galantine Driller: Mitchell Date Started: 7-7-95 Date Completed: 7-7-95	enviros ® 95132.02
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Field Exploratory Boring Log B-2

OVM (ppm)	Blows/6"	Sample Number	Depth (ft)	Soil Group (USCS)	Materials Description
			0	Asphalt	
			5	Silty Clay (CL)	Black (10YR 2/1); very stiff, moist, 80% clay, 15% silt, 5% very fine sand.
			7	Gravel with Clay (GW-GC)	Dark Grayish Brown (10YR 4/2), medium dense, moist, 75% fine gravel, 10% clay, 15% fine to coarse sand.
0	7 7 8		8	Clayey Silt (ML)	Dark Grayish Brown (10YR 4/2), stiff, moist, 65% silt, 30% clay, 5% very fine sand.
			10	Silty Clay (CL)	Dark Grayish Brown (10YR 4/2); very stiff, moist, 65% clay, 30% silt, 5% very fine sand.
0	9 11 13		13		
			16		Change to damp, increase in clay content, trace fine gravel.
0	9 13 17	B-2-16'	16		
Total Depth of Boring = 16.0 feet.					

BORING B-2	UNOCAL CORPORATION - CERT Unocal SS No. 7176 7850 Amador Valley Boulevard Dublin, California	Borehole Diameter: 8 inches Logged by: C. Galantine Driller: Mitchell Date Started: 7-7-95 Date Completed: 7-7-95	enviros ® 95132.02
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Field Exploratory Boring Log B-3

OVM (ppm)	Blows/6"	Sample Number	Depth (ft)	Soil Group (USCS)	Materials Description
			0	Asphalt	
			5	Silty Clay (CL)	Black (10YR 2/1); very stiff, moist, 85% clay, 10% silt, 5% very fine sand.
0	4 7 7		5		Color change to Dark Gray (5Y 4/1).
			10		Change to very stiff, increase in silt content.
0	7 9 12	B-3-11'	10		
0	8 10 13		10		Change to 75% clay, 20% silt, 5% very fine sand.
			15		Color change to Olive Gray (10YR 4/2), 70% clay, 20-25% silt, 5-10% very fine sand.
0	9 9 15 8	B-3-17'	15		Change to 60% clay, 20% silt, 20% fine to coarse sand.
0	11 13		19.5	Gravel with Clay (GW-GC)	Olive Gray (5Y 4/2), medium dense, wet, 75% fine gravel, 10% clay, 15% fine to coarse sand.
					Total Depth of Boring = 19.5 feet.

BORING B-3	UNOCAL CORPORATION - CERT Unocal SS No. 7176 7850 Amador Valley Boulevard Dublin, California	Borehole Diameter: 8 inches Logged by: C. Galantine Driller: Mitchell Date Started: 7-7-95 Date Completed: 7-7-95	enviros ® 95132.02
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Field Exploratory Boring Log B-4

OVM (ppm)	Blows/6"	Sample Number	Depth (ft)	Soil Group (USCS)	Materials Description
			0	Concrete	
			5	Silty Clay (CL)	Black (10YR 2/1); very stiff, moist, 85% clay, 10% silt, 5% very fine sand.
0	4 5 8		10	Clayey Silt (ML)	Dark Brown (10YR 3/3); stiff, moist, 60% silt, 35% clay, 5% very fine sand.
0	6 9 10	B-4-11.5'			Change to very stiff.
0	7 10 14	B-4-16'	16		Color change to Olive Gray (10YR 4/2).
					Total Depth of Boring = 16 feet.

BORING B-4	UNOCAL CORPORATION - CERT Unocal SS No. 7176 7850 Amador Valley Boulevard Dublin, California	Borehole Diameter: 8 inches Logged by: C. Galantine Driller: Mitchell Date Started: 7-7-95 Date Completed: 7-7-95	enviros ® 95132.02
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Field Exploratory Boring Log B-5

OVM (ppm)	Blows/6"	Sample Number	Depth (ft)	Soil Group (USCS)	Materials Description
			0	Asphalt	
			5	Silty Clay (CL)	Black (10YR 2/1); stiff, moist, 75% clay, 20% silt, 5% very fine sand.
	5		6	Clayey Silt (ML)	Very Dark Grayish Brown (10YR 3/2); stiff, moist, 70% silt, 25% clay, 5% very fine to coarse sand, sand stringers and pockets.
0	9		9	Sandy Silt (ML)	Black (5Y 2.5/2); stiff, moist, 80% silt, 20% very fine to medium sand.
			10	Silty Clay (CL)	Dark Olive Gray (5Y 3/2); very stiff, moist, 55% clay, 40% silt, 5% very fine sand.
0	7 9 14		14	Silty Sand (SM)	Dark Olive Gray (5Y 3/2); medium dense, moist, 75% fine to medium sand, 25% silt.
0	5 10 16	B-5-14.5'	16	Sandy Clay (CL)	Dark Olive Gray (5Y 3/2); very stiff, moist, 65% clay, 20% very fine sand, 15% silt.
11	12 15 18	B-5-18'	18	Silty Clay (CL)	Dark Gray (5Y 4/1); hard, moist to wet, 70% clay, 20% silt, 10% very fine sand.
0	10 13 19		19		Saturated at 19 ft.
			19.5	Gravel with Clay (GW-GC)	Olive Gray (5Y 4/2), dense, saturated, 75% fine gravel, 15% fine to coarse sand, 10% clay.
					Total Depth of Boring = 19.5 feet.

BORING B-5	UNOCAL CORPORATION - CERT Unocal SS No. 7176 7850 Amador Valley Boulevard Dublin, California	Borehole Diameter: 8 inches Logged by: C. Galantine Driller: Mitchell Date Started: 7-7-95 Date Completed: 7-7-95	enviros ® 95132.02
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Field Exploratory Boring Log B-6

OVM (ppm)	Blows/6"	Sample Number	Depth (ft)	Soil Group (USCS)	Materials Description
			0	Concrete	Concrete
			5	Silty Clay (CL)	Silty Clay (CL) Black (10YR 2/1); stiff, moist, 80% clay, 15% silt, 5% very fine sand.
0	14 20 23		5		Color change to Dark Gray (5Y 4/1); stiff, moist, 70% clay, 20% silt, 10% very fine sand.
0	20 21 26		10		Change to 80% clay, 15% silt, 5% very fine sand.
0	20 23 30	B-6-14.5'	15		Color change to Dark Olive Gray (5Y 3/2).
0 6	19 23 29 16 24 31	B-6-19.5'	19.5	Gravel with Clay (GW-GC)	Dark Gray (10YR 4/1), very dense, wet, 75% fine gravel, 10% clay, 15% fine to coarse sand.
					Total Depth of Boring = 19.5 feet.

BORING B-6	UNOCAL CORPORATION - CERT Unocal SS No. 7176 7850 Amador Valley Boulevard Dublin, California	Borehole Diameter: 8 inches Logged by: C. Galantine Driller: Mitchell Date Started: 7-7-95 Date Completed: 7-7-95	enviros ® 95132.02
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Field Exploratory Boring Log of Well U-1

OVM PPM	Blows/ 6"	Sample Number	Well Construction	Depth (ft)	Soil Group (USCS)	Materials Description
			Cement	1		Asphalt
			2-in. Sch. 40 PVC	2		Silt with Sand (ML) Fill Material
				3		Very Dark Grayish Brown (10YR 3/2); stiff, moist, 75% silt, 15% fine to coarse sand, 10% fine gravel.
0	7			4		Silty Sand (SM)
	9			5		Dark Grayish Brown (10YR 4/2); medium dense, moist, 75% very fine sand, 20% silt, 5% fine gravel.
	13		Bent. 1- Ft.	6		
				7		Silty Clay (CL)
				8		Dark Grayish Brown (10YR 4/2); very stiff, moist, 70% clay, 25% silt, 5% very fine sand, plastic, rootlets.
0	8			9		
	8			10		
	14	U-1-10.5'		11		
				12		Silt (ML)
	5			13		Dark Olive Gray (5Y 3/2); very stiff, moist, 80% silt, 10% clay, 10% fine sand.
0	10			14		
	13			15		
				16		
				17		
				18		
			Lonestar #3 Sandpack	19		Saturated at 19 ft.
20	12			20		Gravel with Silt and Sand (GW-GM)
	14	U-1-18.5'		21		Olive Gray (5Y 4/2); dense, saturated, 75% fine to coarse gravel, 15% fine to coarse sand, 10% silt.
	17			22		Silty Clay (CL)
				23		Dark Olive Gray (5Y 3/2); stiff, wet, 70% clay, 25% silt, 5% very fine sand.
				24		
0	9			25		Color change to Dark Grayish Brown (10YR 4/2); very stiff, wet, increase in clay content.
	13			26		
	16			27		
				28		
				29		
0	12			30		
	17					
	26					

Total Depth of Boring = 30 ft.

WELL U-1	UNOCAL CORPORATION - CERT Unocal SS No. 7176 7850 Amador Valley Road Dublin, California	Borehole Diameter: 8 inches Logged by: C. Galantine Driller: Mitchell Date Started: 7-6-95 Date Completed: 7-6-95	enviros ® 95132.02
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Field Exploratory Boring Log of Well U-2

OVM PPM	Blows/ 6"	Sample Number	Well Construction	Depth (ft)	Soil Group (USCS)	Materials Description
			Cement	1		Asphalt
				2		Silt with Sand (ML) Fill Material
				3		Very Dark Grayish Brown (10YR 3/2); stiff, moist, 75% silt, 15% fine to coarse sand, 10% fine gravel.
			2-in. Sch. 40 PVC	4		Silty Clay (CL)
	6			5		Black (10YR 2/1); very stiff, moist, 80% clay, 15% silt, 5% very fine sand.
0	8			6		Color change to Very Dark Grayish Brown (10YR 3/2); very stiff, moist, 60% clay, 30% silt, 10% very fine sand.
	9			7		
			Bent. 1-Ft.	8		Color change to Dark Olive Gray (5Y 3/2).
0	9			9		
	11			10		Color change to Very Dark Gray (10YR 3/1).
	15			11		
0	10			12		Color change to Dark Olive Gray (5Y 3/2).
	15			13		
0	15	U-2-13'		14		
				15		
2	12			16		
	12			17		Saturated at 17.5 ft.
	18			18		Sandy Silt (ML)
34	9	U-2-17.5'		19		Olive Gray (5Y 4/2); very hard, wet to saturated, 60% silt, 35% very fine sand, 5% clay.
	14			20		
	17			21		Sandy Clay (CL)
				22		Dark Gray (5Y 4/1); very stiff, wet, 60% clay, 20% silt, 20% very fine sand.
			Lonestar #3 Sandpack	23		
				24		
0	6			25		
	12			26		
	16			27		Silty Clay (CL)
				28		Dark Brown (10YR 3/3); hard, wet, 85% clay, 10% silt, 5% very fine sand.
				29		
6.3	13			30		Total Depth of Boring = 30 ft.
	15					
	20					

WELL U-2	UNOCAL CORPORATION - CERT Unocal SS No. 7176 7850 Amador Valley Road Dublin, California	Borehole Diameter: 8 inches Logged by: C. Gaigantine Driller: Mitchell Date Started: 7-6-95 Date Completed: 7-6-95	enviros ® 95132.02
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Field Exploratory Boring Log of Well U-3

OVM PPM	Blows/6"	Sample Number	Well Construction	Depth (ft)	Soil Group (USCS)	Materials Description
			▲	1	Asphalt	
			▲	2	Silt with Sand (ML) Fill Material	Very Dark Gray (10YR 3/1); stiff, moist, 80% silt, 20% fine sand.
			▲	3	Silty Clay (CL)	
			▲	4	Black (10YR 2/1); very stiff, moist, 80% clay, 15% silt, 5% very fine sand.	
			▲	5	Sandy Silt (ML)	Dark Grayish Brown (10YR 4/2); hard, moist, 55% silt, 40% very fine to coarse sand, 5% clay.
			▲	6		
			▲	7		
			▲	8		
			▲	9		
			▲	10		Increase in silt and clay content.
			▲	11	Clayey Silt (ML)	Dark Grayish Brown (10YR 4/2); hard, moist, 60% silt, 30% clay, 10% very fine to fine sand.
			▲	12		
			▲	13		
			▲	14		
			▲	15		
			▲	16	Silty Clay (CL)	Dark Grayish Brown (10YR 4/2); very stiff, moist to saturated, 55% clay, 40% silt, 5% very fine sand.
			▲	17		
			▲	18		Saturated at 18 ft.
			▲	19		
			▲	20		
			▲	21		
			▲	22		
			▲	23		Color change to Dark Grayish Brown (10YR 4/2); hard, wet, increase in clay content.
			▲	24		
			▲	25		
			▲	26		
			▲	27		
			▲	28		
			▲	29		
			▲	30		
Total Depth of Boring = 30 ft.						

WELL U-3	UNOCAL CORPORATION - CERT Unocal SS No. 7176 7850 Amador Valley Road Dublin, California	Borehole Diameter: 8 inches Logged by: C. Galantine Driller: Mitchell Date Started: 7-6-95 Date Completed: 7-6-95	enviros ® 95132.02
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UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS	LTR	DESCRIPTION	MAJOR DIVISIONS	LTR	DESCRIPTION		
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	GW	Well-graded gravels or gravel sand mixtures, little or no fines	FINE GRAINED SOILS	ML	Inorganic silts and very fine-grained sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity	
		GP	Poorly-graded gravels or gravel sand mixture, little or no fines		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
		GM	Silty gravels, gravel-sand-clay mixtures		OL	Organic silts and organic silt-clays of low plasticity	
		GC	Clayey gravels, gravel-sand-clay mixtures		MH	Inorganic silts, micaceous or diatomaceous fine-grained sandy or silty soils, elastic silts	
	SAND AND SANDY SOILS	SW	Well-graded sands or gravelly sands, little or no fines	SILTS AND CLAYS LL>50	CH	Inorganic clays of high plasticity, fat clays	
		SP	Poorly-graded sands or gravelly sands, little or no fines		OH	Organic clays of medium to high plasticity	
		SM	Silty sands, sand-silt mixtures		HIGHLY ORGANIC SOILS	Pt	Peat and other highly organic soils
		SC	Clayey sands, sand-clay mixtures				

WELL DESIGN

- | | |
|--|---|
| <p> DEPTH THROUGH WHICH SAMPLER IS DRIVEN</p> <p> RELATIVELY UNDISTURBED SAMPLE</p> <p> MISSED SAMPLE</p> <p> GROUNDWATER LEVEL OBSERVED FROM FIRST WET SOIL SAMPLE IN BORING</p> <p> STATIC GROUNDWATER LEVEL</p> <p>OVM ORGANIC VAPOR METER READING IN PARTS PER MILLION</p> <p>PID PHOTO-IONIZATION DETECTOR READING IN PARTS PER MILLION</p> | <p> SAND PACK</p> <p> BENTONITE ANNULAR SEAL</p> <p> NEAT CEMENT ANNULAR SEAL</p> <p> BLANK PVC</p> <p> MACHINE-SLOTTED PVC</p> <p>S-10 SAMPLE LOCATION</p> |
|--|---|

BLOW/FT REPRESENTS THE NUMBER OF BLOWS OF A 140-POUND HAMMER FALLING 30 INCHES TO DRIVE THE SAMPLER THROUGH THE LAST 12 INCHES OF AN 18-INCH PENETRATION.

DASHED LINES SEPARATING UNITS ON THE LOG REPRESENT APPROXIMATE BOUNDARIES ONLY. ACTUAL BOUNDARIES MAY BE GRADUAL LOGS REPRESENT SUBSURFACE CONDITIONS AT THE BORING LOCATION AT THE TIME OF DRILLING ONLY



PROJECT 2092

UNIFIED SOIL CLASSIFICATION SYSTEM AND LOG OF BORINGS SYMBOL KEY

TOSCO (UNION) 76 SERVICE STATION 7178
7850 Amador Valley Road
Dublin, California

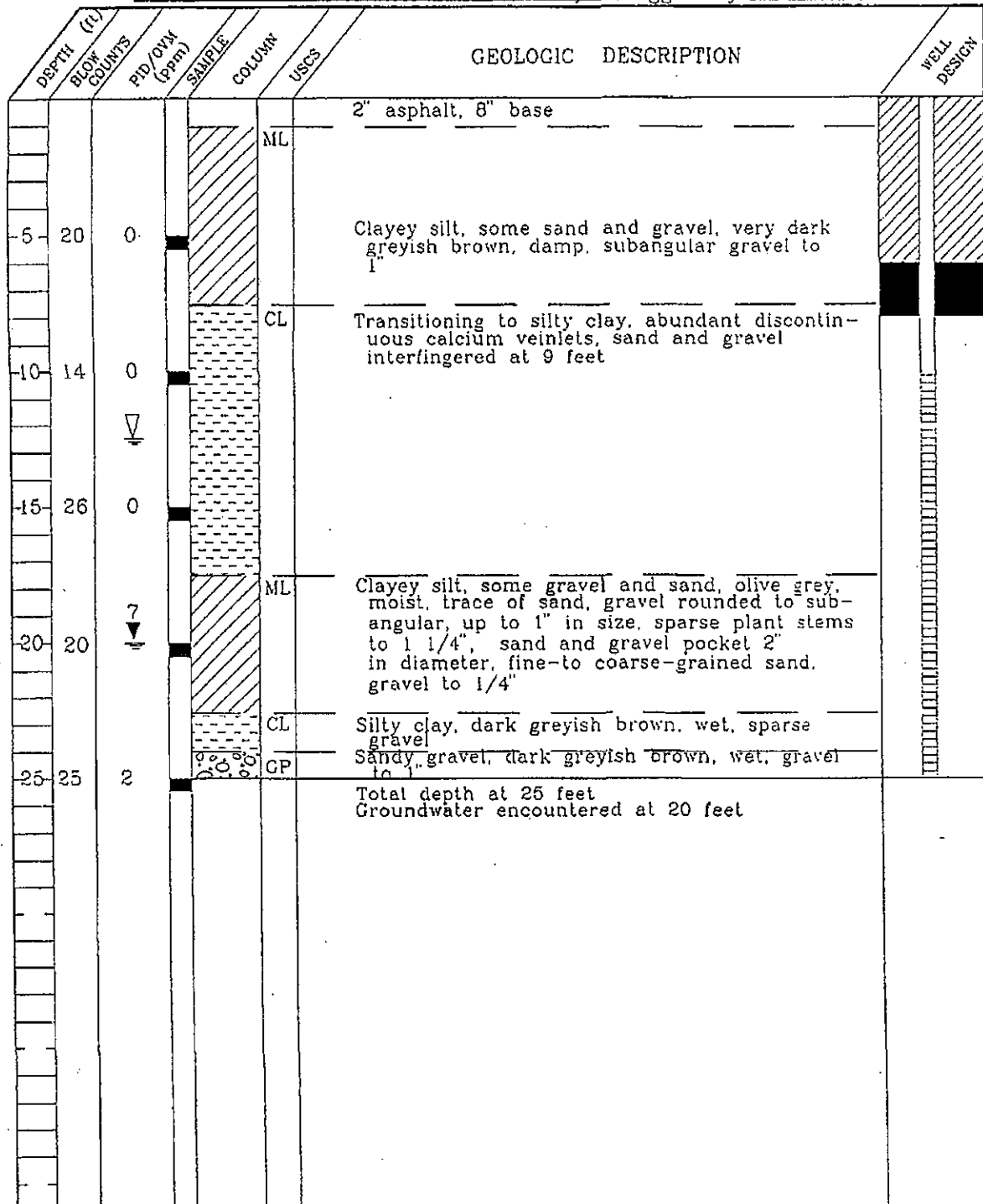
PLATE

Appendix



Project No.: 2092 Boring: B7/MW4 Plate: APPENDIX
 Site: Tosco (Union) 76 Service Station 7176 Date: 4/15/98
 Drill Contractor: Woodward Drilling

Sample Method: Split Spoon Geologist: ROBERT H. ENKEBOLL
 Drill Rig: Mobile B-57 Bore Hole Diameter: 8" Signature:
 Location: 80 Feet Southwest of Well U1 Registration: R.G. 5034
 30 Feet South of Southern Site Boundary Logged by: Sue Shallenberger



Casing Diameter: 2" Slot Size: 0.010" Sand Size: 2/12" Grout: Portland Cement



Project No.: 2092 Boring: B8/MW5 Plate: APPENDIX
 Site: Tosco (Union) 76 Service Station 7176 Date: 4/15/98
 Drill Contractor: Woodward Drilling

Sample Method: Split Spoon Geologist: ROBERT H. ENKEBOLL
 Drill Rig: Mobile B-57 Bore Hole Diameter: 8" Signature: _____
 Location: 95 Feet East of Well MW4 Registration: R.G. 5034
85 Feet Southeast of Well U1 Logged by: Sue Shallenberger






DEPTH (ft)	BLOW COUNTS	FIID/OVM (ppm)	SAMPLE COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
5-15	0		[Dotted pattern]	CL	3" asphalt, 14" baserock Silty clay, dark greyish brown, damp with sandy gravel at 4'. gravel rounded to subangular, up to 1 1/2"	[Diagonal hatching]
10-13	0		[Dotted pattern]		mottled brown and dark greyish brown, moist, with discontinuous calcium deposit veinlets, some rootlets, trace of sand, sparse gravel to 1/2"	[Diagonal hatching]
15-12	0		[Dotted pattern]			[Diagonal hatching]
20-9	2		[Diagonal hatching]	ML	Clayey silt, mottled brown and greenish grey, wet, some calcium veinlets, trace of sand	[Diagonal hatching]
25-22			[Dotted pattern]	CL	Clay, dark greyish brown, wet, some gravel to 1/2"	[Diagonal hatching]
					Total depth at 25 feet Groundwater encountered at 20 feet	

Casing Diameter: 2" Slot Size: 0.010" Sand Size: 2/12 Grout: Portland Cement

PROJECT NAME: CONOCOPHILLIPS STATION 7176		SITE LOCATION: 7850 AMADOR VALLEY BLVD, DUBLIN			
DRILLING COMPANY: WOODWARD		DRILL RIG: B57		DRILL CREW: DAVID, TIM	
				DATE DRILLED: NOVEMBER 3, 2004	
DRILLING METHOD: HOLLOW-STEM AUGER		BORING DIAMETER (IN): 8"		TOTAL DEPTH OF BORING (FT): 21.5	
				LOGGED BY: J. SMITH	
SAMPLING METHOD: SPLIT-SPOON		HAMMER WEIGHT (LBS): 140		HAMMER DROP (IN): 30	
				REVIEWED BY: J. DOUGLAS	

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	GW LEVEL	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0							CH	Asphalt and artificial fill: water-knifed to 5 feet below ground surface.
5			6/7/7	0.0				FAT CLAY with SAND: very dark grayish (10YR 3/2); medlum plasticlty; high dry strength; no dilatancy; low toughness; trace fine gravel; few fine- to coarse-grained sand; moist; firm.
10			4/6/10	0.0				Trace fine-grained sand.
15		SB1-16	9/12/13	3.0			CL	LEAN CLAY: dark gray (2.5Y 4/1); low plasticity; high dry strength; no dilatancy; medium toughness; trace fine-grained sand; moist; hard.
20			9/3/3	0.0		▽	SC	CLAYEY SAND: dark greenish gray (10Y/4); fine- to coarse-grained; trace fine, rounded gravel; wet; loose.
21.5								Boring terminated at 21.5 feet below ground surface. Groundwater first encountered at 20 feet below ground surface.
25								
30								

LOG OF BORINGS REVISED: BORELBLEV.CPJ MBE.GDT 12/1/04

NOTES:
 = sample interval
 = no sample recovery
 = laboratory sample
 = groundwater first encountered
 = static groundwater
 PID = photoionization detector
 NM = not measured
 NA = not applicable
 NR = not recorded
 ppm = parts per million



LOG OF BORING SB1

Jed A. Douglas, R.G. 7516

PROJECT NUMBER 06-459-7176-03

PAGE 1 OF 1

PROJECT NAME: CONCOPHILLIPS STATION 7176		SITE LOCATION: 7850 AMADOR VALLEY BLVD, DUBLIN		
DRILLING COMPANY: WOODWARD	DRILL RIG: B57	DRILL CREW: DAVID, TIM	DATE DRILLED: NOVEMBER 3, 2004	
DRILLING METHOD: HOLLOW-STEM AUGER		BORING DIAMETER (IN): 8"	TOTAL DEPTH OF BORING (FT): 26.5	LOGGED BY: J. SMITH
SAMPLING METHOD: SPLIT-SPOON	HAMMER WEIGHT (LBS): 140	HAMMER DROP (IN): 30		REVIEWED BY: J. DOUGLAS

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	GWL LEVEL	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0								Asphalt and artificial fill: water-knifed to 5 feet below ground surface.
5			4/4/4	1.3			CH	FAT CLAY with SAND: very dark grayish brown (10YR 3/2); medium plasticity; high dry strength; no dilatancy; low toughness; few fine subrounded gravel; few fine-grained sand; moist; soft.
10			4/5/6	2.2				Medium toughness; trace fine-grained sand.
15		SB2-16	7/9/15	4.7				
20			4/4/4	6.4		▽	SM	SILTY SAND with GRAVEL: very dark grayish brown (10YR 3/2); fine- to coarse-grained; few fine rounded gravel; wet; loose.
25			7/9/10	2.8			ML	SILT: very dark grayish brown (10YR 3/2); medium plasticity; high dry strength; low dilatancy; medium toughness; trace fine gravel; moist; firm. Boring terminated at 26.5 feet below ground surface. Groundwater first encountered at 20 feet below ground surface.
30								

LOG OF BORINGS REVISED: BOREL104.GPJ MBE.GDT 12/1/04

- NOTES:
- = sample interval
 - ⊠ = no sample recovery
 - = laboratory sample
 - ▽ = groundwater first encountered
 - ◊ = static groundwater
 - PID = photoionization detector
 - NM = not measured
 - NA = not applicable
 - NR = not recorded
 - ppm = parts per million



LOG OF BORING SB2

Jed A. Douglas, R.G. 7516






PROJECT NUMBER 06-459-7176-03

PAGE 1 OF 1

PROJECT NAME: CONOCOPHILLIPS STATION 7176		SITE LOCATION: 7850 AMADOR VALLEY BLVD, DUBLIN			
DRILLING COMPANY: WOODWARD	DRILL RIG: B57	DRILL CREW: DAVID, TIM		DATE DRILLED: NOVEMBER 3, 2004	
DRILLING METHOD: HOLLOW-STEM AUGER		BORING DIAMETER (IN): 8"	TOTAL DEPTH OF BORING (FT): 26.5	LOGGED BY: J. SMITH	
SAMPLING METHOD: SPLIT-SPOON		HAMMER WEIGHT (LBS): 140	HAMMER DROP (IN): 30	REVIEWED BY: J. DOUGLAS	

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	GW LEVEL	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0								Asphalt and artificial fill: water-knifed to 5 feet below ground surface.
5			6/8/9	1.1			CH	FAT CLAY: dark grayish brown (10YR 4/2); medium plasticity; high dry strength; no dilatancy; medium toughness; few fine gravel; few fine-grained sand; moist; firm.
10			7/8/10	1.1			ML CH	SILT: brown (10YR 5/3); medium plasticity; high dry strength; low dilatancy; medium toughness; moist; firm. FAT CLAY: dark gray (10YR 4/1); medium plasticity; high dry strength; no dilatancy; medium toughness; few fine gravel; few fine-grained sand; moist; firm.
15		SB3-16	7/8/9	1.4				
20			6/7/7	44			SM	SILTY SAND with GRAVEL: greenish gray (10Y/5); fine- to coarse-grained; few fine gravel; wet; loose.
25			6/8/10	3.9			ML	SILT: dark greenish gray (10Y/4); medium plasticity; high dry strength; low dilatancy; low toughness; trace fine-grained sand; moist to very moist; firm. Boring terminated at 26.5 feet below ground surface. Groundwater first encountered at 20 feet below ground surface.
30								

LOG OF BORINGS REVISED: BOREL04.GPJ MBE.GDT 12/1/04

NOTES:
 = sample interval
 = no sample recovery
 = laboratory sample
 = groundwater first encountered
 = static groundwater
 PID = photoionization detector
 NM = not measured
 NA = not applicable
 NR = not recorded
 ppm = parts per million



LOG OF BORING SB3

Jed A. Douglas, R.G. 7516

PROJECT NUMBER 06-459-7176-03

PAGE 1 OF 1

PROJECT NAME: CONOCOPHILLIPS STATION 7176		SITE LOCATION: 7850 AMADOR VALLEY BLVD, DUBLIN	
DRILLING COMPANY: WOODWARD	DRILL RIG: B57	DRILL CREW: DAVID, TIM	DATE DRILLED: NOVEMBER 3, 2004
DRILLING METHOD: HOLLOW-STEM AUGER		BORING DIAMETER (IN): 8"	TOTAL DEPTH OF BORING (FT): 21.5
SAMPLING METHOD: SPLIT-SPOON		HAMMER WEIGHT (LBS): 140	HAMMER DROP (IN): 30
		LOGGED BY: J. SMITH	
		REVIEWED BY: J. DOUGLAS	

DEPTH (FT)	SAMPLE LOCATION	SAMPLE ID	BLOWS PER 6 IN	PID (ppm)	GRAPHIC LOG	GW LEVEL	USCS SOIL GROUP	DESCRIPTION OF SUBSURFACE MATERIALS
0								Asphalt and artificial fill; water-knifed to 5 feet below ground surface.
5			4/5/7	0.0			CH	FAT CLAY: dark grayish brown (10YR 4/2); medium plasticity; trace fine-grained sand; trace fine gravel; high dry strength; no dilatancy; medium toughness; moist; firm.
10			7/7/9	0.0				
15		SB4-16	9/9/10	0.0				
20			6/10/11	0.0		▽	SM	SILTY SAND: dark gray (10YR 4/2); fine- to coarse-grained sand; some fine gravel; wet; medium dense.
21.5								Boring terminated at 21.5 feet below ground surface. Groundwater first encountered at 20 feet below ground surface.
25								
30								

LOG OF BORINGS REVISED: BOREL.BLD.04.GPJ MBE.GDT. 12/1/04

NOTES:
 [] = sample interval ▽ = groundwater first encountered NM = not measured
 [X] = no sample recovery ▾ = static groundwater NA = not applicable
 [■] = laboratory sample PID = photoionization detector NR = not recorded
 ppm = parts per million



LOG OF BORING SB4

Jed A. Douglas, R.G. 7516

PROJECT NUMBER 06-459-7176-03

PAGE 1 OF 1

APPENDIX C

SENSITIVE RECEPTOR SURVEY TABLE AND MAPS



ConocoPhillips Company
76 Broadway
Sacramento, CA 95818
phone 916-558-7600
fax 916-558-7639

July 23, 2007

Mr. Barney Chan
Supervising Hazardous Materials Specialist
Alameda County Environmental Health Services
1131 Harbor Bay Parkway
Alameda, California 94502

RE: Sensitive Receptor Survey

76 Station No. 7176
7850 Amador Valley Boulevard
Dublin, California

Dear Mr. Chan,

I declare under the penalty of perjury that to the best of my knowledge the information and / or recommendations in the attached report is / are true and correct.

Please feel free to contact me if you have any questions or require additional information.

Respectfully,

A handwritten signature in black ink that reads "Bill Borgh". The signature is written in a cursive, slightly slanted style.

Bill Borgh
Site Manager – Risk Management and Remediation

Attachment

July 24, 2007

Mr. Barney Chan
Alameda County Health Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: Sensitive Receptor Survey
76 Station No. 7176
7850 Amador Valley Boulevard
Dublin, California



Dear Mr. Chan:

This report has been prepared by Delta Environmental Consultants (Delta) on behalf of ConocoPhillips Company (ConocoPhillips). The sensitive receptor survey was completed to identify all water supply wells within a one-mile radius of the site and sensitive receptors within 1,000 feet from the site referenced above (Figure 1).

METHODS

The survey entailed a visit to the California Department of Water Resources (DWR) office in Sacramento to examine well log records and a site visit to identify any sensitive receptors within the survey area.

FINDINGS

Water Well Survey: DWR well log records were reviewed in order to determine the location of any water-supply wells in the vicinity of the subject site. Using the DWR well logs, a total of 28 water supply wells were identified as being within a one-mile radius of the subject site. Water supply well locations located within the survey area are shown on Figure 2. Historically the groundwater flow direction at the site has been towards the southeast. Historical groundwater flow directions are shown on Figure 3. The closest down-gradient well is a cathodic protection well located approximately 0.8 miles southeast of the site. The closest water supply well is a domestic well located approximately 0.4 miles southwest of the site. The data for wells within the survey area are presented in Table 1.

a member of:



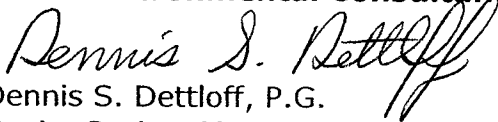
Other wells located in the vicinity of the site include monitoring wells and wells whose associated DWR logs contained inadequate information to establish their precise location and/or well type.

Sensitive Receptor Survey: A field survey was completed to identify any sensitive receptors within a 1,000 foot survey area. No schools, daycare centers, hospitals, or churches acting as a potential school or daycare facility were identified within the survey area. In addition, no nursing homes were identified within 1,000 feet of the site.

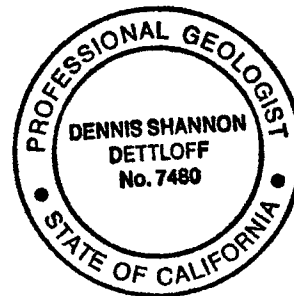
Bodies of Water: No bodies of water were identified within 1,000 feet of the site.

Please call Dennis Dettloff at (916) 503-1261 if you have any questions regarding the contents of this report.

Sincerely,
Delta Environmental Consultants, Inc.



Dennis S. Dettloff, P.G.
Senior Project Manager
California Registered Professional Geologist No. 7480



cc: Mr. William Borgh – ConocoPhillips (electronic copy)

Figures:

Figure 1	Site Locator Map
Figure 2	Water Supply Well Location Map
Figure 3	Historical Groundwater Flow Directions

Table:

Table 1	Water Supply Well Data
---------	------------------------

Figures

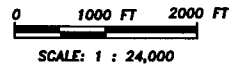
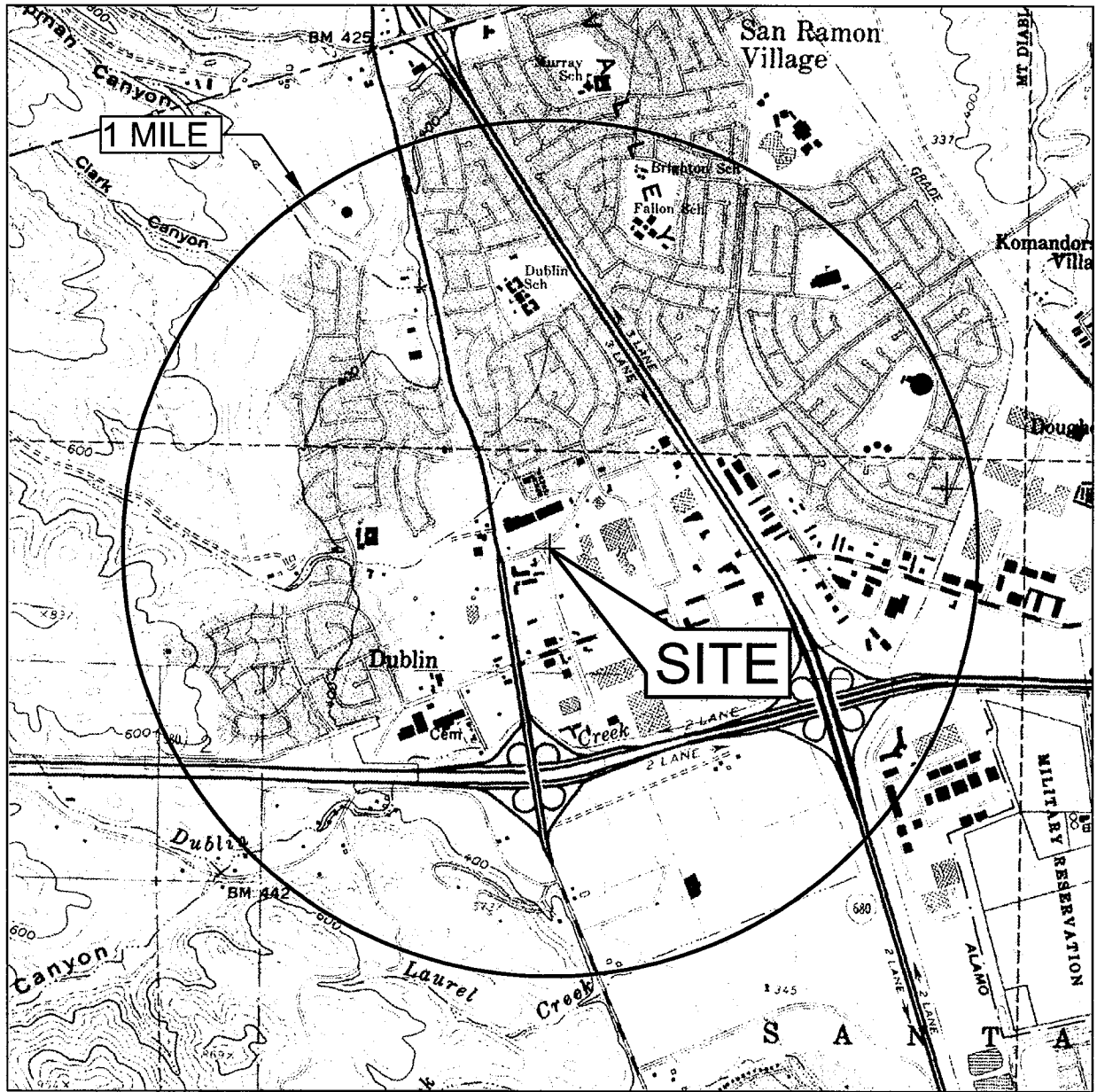


FIGURE 1
 SITE LOCATOR SENSITIVE RECEPTOR
 MAP

76 STATION NO. 7176
 7850 AMADOR VALLEY BOULEVARD
 DUBLIN, CALIFORNIA

PROJECT NO. C107-176	DRAWN BY MC 10/12/06
FILE NO. Site Locator 7176	PREPARED BY MC
REVISION NO.	REVIEWED BY



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, DUBLIN QUADRANGLE, 1967

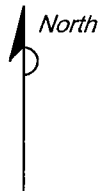
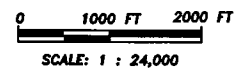
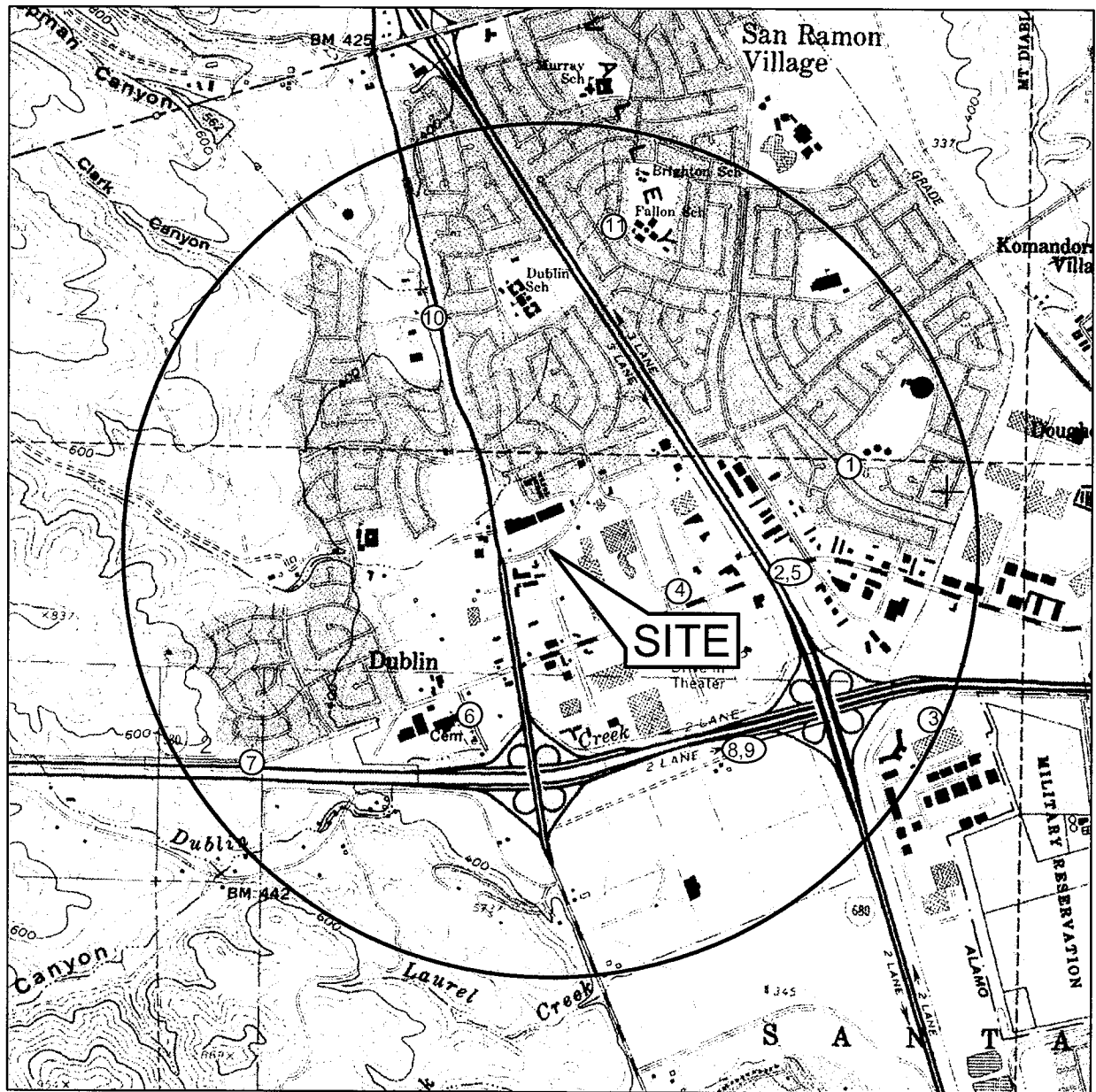


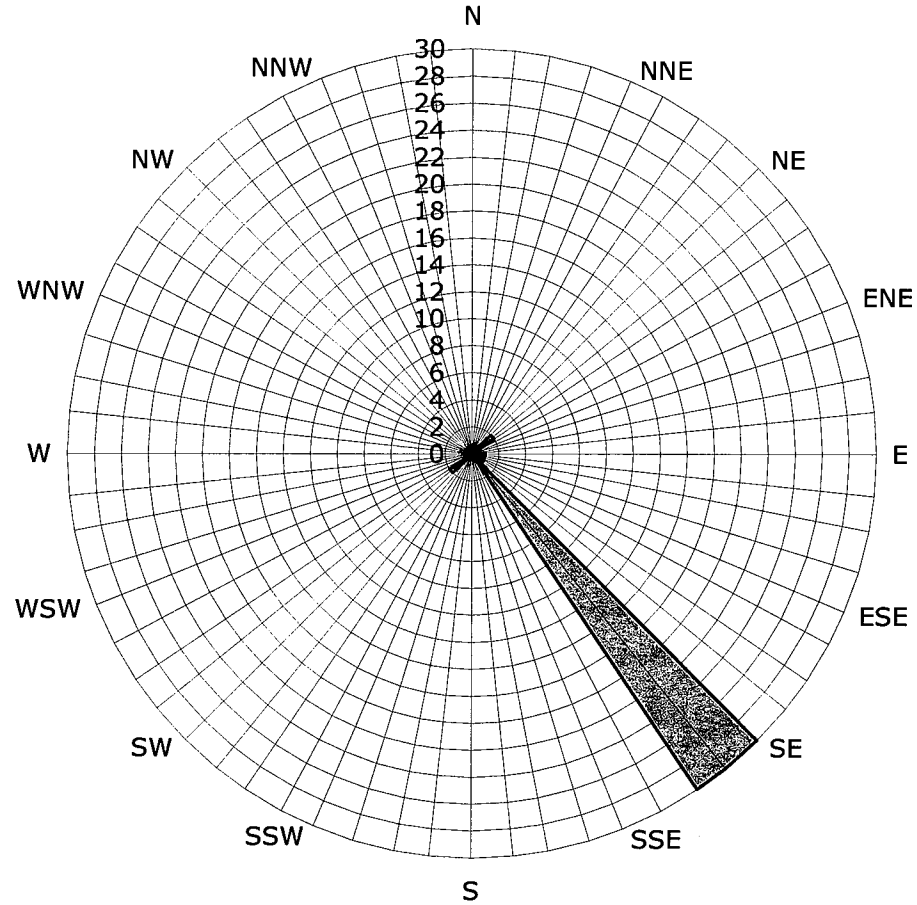
FIGURE 2
 SITE LOCATOR SENSITIVE RECEPTOR
 MAP
 76 STATION NO. 7176
 7850 AMADOR VALLEY BOULEVARD
 DUBLIN, CALIFORNIA

PROJECT NO. C107-176	DRAWN BY JH 12/12/06
FILE NO. Site Locator 7176	PREPARED BY JH
REVISION NO.	REVIEWED BY



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, DUBLIN QUADRANGLE, 1967

Historic Groundwater Flow Directions
ConocoPhillips Site No. 7176
7850 Amador Valley Boulevard
Dublin, California



Groundwater Flow Direction

Legend
Concentric circles represent
quarterly monitoring
events
Fourth Quarter 1995
through First
Quarter 2007

Table

Table 1
 One-Mile Agency Receptor Survey
 ConocoPhillips Station No.7176
 7850 Amador Valley Boulevard, Dublin, California

DWR ¹ Well No.	Address	City	State	Zip	Owner	Well Type	Distance from Site (miles)	Direction Relative to Site
1-	3S/1W-1B5 Maple Dr. (flood control channel and York Dr.)	Dublin	CA		Alameda County Flood Control	Test Well/Other	0.7	NE
2-	3S/1W-1B2 Village Parkway at Dublin Blvd.	Dublin	CA		Valley Community Service District	Municipal	0.7	E
3-	3S/1W-1K3 SW corner of I-580 and I-680	Dublin	CA		Livermore-Amador Valley Management Agency	Cathodic protection	0.8	SE
4-	3S/1W-1F1 100' N of Dublin Blvd., 4000 ft E of San Ramon Rd.	Dublin	CA		Volk-McLain Co.	Domestic	0.9	SW
5-	3S/1W-1B3 Dublin Blvd. at Village Parkway	Dublin	CA		Valley Community Service District	Municipal	0.7	E
6-	3S/1W-2K4 6600 Donlon Way	Dublin	CA		Dublin Historical	Domestic	0.4	SW
7-	3S/1W-3R3 10728 Dublin Rd.	Dublin	CA	94566	Pacific Construction & Engineering	Domestic	0.8	SW
8-	3S/1W-11C Dublin Canyon Rd (3/4 mi from Foothill and 580)	Dublin	CA		Walter Panganiban	Domestic (dry hole)	1.0	SW
9-	3S/1W-11C1 Dublin Canyon Rd (3/4 mi from Foothill and 580)	Dublin	CA		Walter Panganiban	Domestic	1.0	SW
10-	2S/1W-35K1 11000 Shannon Ave	Dublin	CA		City of Dublin	Irrigation	0.7	NW
11-	2S-1W-36? Aldea St. at Larkdale Ave.	Dublin	CA		Volk-McLain Communities, Inc.	Domestic	0.8	NE
² 12-	3S/1W-1L1 Walnut Creek Rd. to Niessen Ranch	Dublin	CA		J.R. Cronin	Livestock		
² 13-	3S/1W-1G1 2000' E of San Ramon Rd., 100' North Country Club Rd				Volk-McLain Communities, Inc.	Municipal		
² 14-	3S/1W-2 Dublin Canyon Rd.	Dublin	CA		Banke			
² 15-	3S/1W-2B1 1 mi E of Dublin Blvd., 0.3 mi down N Walnut Creek Rd	Dublin	CA		R. Banke	Irrigation		
² 16-	3S/1W-3P1 1 mi up Foothill Rd. from San Ramon Valley Blvd.	Dublin	CA		Ron Stadey	Domestic		
² 17-	3S/1W-3Q5 Old Dublin Rd. parcel 44624				Caltrans	Test Well		
² 18-	3S/1W-3P2 Old Dublin Rd. west of Foothill 1 mile				Livermore-Amador Valley Management Agency			
² 19-	3S/1W-12A1? From Dublin S 1mile Foothill Rd. to Mexican Camp				R.M. Wing	Irrigation		
² 20-	3S/1W-12H3? West end of Stoneridge Ave, west of Hopyard Rd.				Livermore-Amador Valley Management Agency			
² 21-	3S/1W-12? Foothill, section 12, SW corner				Mills			
² 22-	3S/1W-12L1? Rt. 1, Box 450, Foothill Road (Highway 21)		CA		Ralph E. Merritt	Irrigation		
² 23-	3S/1W-12Q2 500' E of Foothill Road	Dublin	CA		Lance Woods	Domestic		
² 24-	3S/1W-2R81? Section 2, SE quarter	Dublin	CA		Joe Martin			
² 25-	3S/1W-2P? Section 2, SW quarter	Dublin	CA		Jim Nutt			
² 26-	3S/1W-2R1 Section 2, SE quarter	Dublin	CA		Joe Martin			
² 27-	3S/1W-2H91? Section 2	Dublin	CA		Roy Neidt			
² 28-	3S/1W-2H90? Section 2	Dublin	CA		Coffee	Domestic		

DWR: Department of Water Resources

¹ Well Locations shown on Figure 1.

² Specific address cannot be located on map.

APPENDIX D

HISTORICAL SOIL AND GROUNDWATER ANALYTICAL DATA

**CUMULATIVE HISTORICAL GRAB-GROUNDWATER DATA
UNOCAL STATION #7176 (UNION OIL SITE 351788)
7850 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA**

<i>Sample ID</i>	<i>Sample Date</i>	<i>Sample Depth (fbg)</i>	<i>TPHg (µg/L)</i>	<i>TPHd (µg/L)</i>	<i>Benzene (µg/L)</i>	<i>Toluene (µg/L)</i>	<i>Ethyl- benzene (µg/L)</i>	<i>Total Xylenes (µg/L)</i>	<i>MTBE (µg/L)</i>
¹ <i>ESL: Groundwater, Drinking Water Resource (Table F-1a)</i>			100	100	1.0	40	30	20	5.0
1995 Preliminary soil and groundwater investigation (Enviros, Inc.)									
B-2	07/07/95	---	<50	<62	<0.50	<0.50	<0.50	<0.50	---
B-4	07/07/95	---	<50	390	<0.50	<0.50	<0.50	<0.50	---
UST-1	07/07/95	---	3,000	970	280	<10	<10	<10	---
2004 Limited phase II environmental site assessment report (Miller Brooks Environmental, Inc.)									
SB1	11/03/04	---	3,100	1,100	<2.5	<2.5	<2.5	<5.0	3.0
SB2	11/03/04	---	1,100	340	<1.0	<1.0	1.4	<2.0	2.8
SB3	11/03/04	---	9,700	870	<1.0	2.2	2.6	<2.0	2.0
SB4	11/03/04	---	<50	<50	<0.50	<0.50	<0.50	<1.0	<5.0
2010 CPT Vertical Assessment Report (Delta)									
CPT-1-22-24	01/08/10	22-24	<50	96	<0.50	<0.50	<0.50	<1.0	<0.50
CPT-1-50-54	01/08/10	50-54	<50	61	<0.50	<0.50	<0.50	<1.0	<0.50

**CUMULATIVE HISTORICAL GRAB-GROUNDWATER DATA
UNOCAL STATION #7176 (UNION OIL SITE 351788)
7850 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA**

Abbreviations/Notes:

Total petroleum hydrocarbons as gasoline (TPHg) by EPA method 8015 unless otherwise noted.

Benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tert-butyl alcohol (MTBE) by EPA Method 8020 or 8260 unless otherwise noted.

¹ESL = Environmental Screening Levels from *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, California Regional Water Quality Control Board - San Francisco Bay Region, Interim Final November 2007, Revised May 2008.

fbg = Feet below grade.

-- = Not analyzed or not applicable.

<x = Not detected above laboratory method detection limit.

= Concentration exceeds most conservative applicable ESL.

* = The 1989 Reconnaissance Groundwater Investigation Report does not show the location of SB-1.

**CUMULATIVE SOIL ANALYTICAL TABLE
UNOCAL STATION #7176 (UNION OIL SITE 351788)
7850 AMADOR VALLEY ROAD, DUBLIN, CALIFORNIA**

Sample ID	Sample Date	Sample Depth (ft)	O&G (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	Ethanol (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	EDB (mg/kg)	1,2-DCA (mg/kg)	SVOCs (mg/kg)	VOCs (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Pb (mg/kg)	Ni (mg/kg)	Zn (mg/kg)
¹ ESL: Soil Leaching, Current or potential drinking water source (Table G)			---	83	83	0.044	2.9	3.3	2.3	0.023	NE	0.075	NE	NE	NE	0.00033	0.0045	---	---			2.5		
¹ ESL: Direct Exposure, Commercial-Industrial Worker (Table K-2)			---	450	450	0.27	210	5.0	100	65	NE	320,000	NE	NE	NE	0.044	0.48	---	---			750		
¹ ESL: Direct Exposure, Construction/Trench Worker (Table K-3)			---	4,200	4,200	12	650	210	420	2,800	NE	320,000	NE	NE	NE	1.7	21	---	---			750		
2010 CPT Vertical Assessment Report (Delta)																								
CPT-1-15	01/08/10	15	---	<2.0	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<1.0	<0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
CPT-1-20	01/08/10	20	---	<2.0	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<1.0	<0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
CPT-1-25	01/08/10	25	---	<2.0	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<1.0	<0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
CPT-1-30	01/08/10	30	---	<2.0	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<1.0	<0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
CPT-1-45	01/08/10	45	---	<2.0	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<1.0	<0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
CPT-1-55	01/08/10	55	---	<2.0	<1.0	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<1.0	<0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---
2004 Limited Phase II Environmental Site Assessment Report (Miller Brooks Environmental, Inc.)																								
SB1-16	11/03/04	16	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	<0.010	<0.010	<0.0050	<0.0050	--	--	---	---	---	---	---	---	---
SB2-16	11/03/04	16	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	<0.010	<0.010	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---
SB3-16	11/03/04	16	---	7.1	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	<0.010	<0.010	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---
SB4-16	11/03/04	16	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.1	<0.010	<0.010	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---
1998 Supplemental Evaluation and Investigation Report (ERI)																								
S-10-B7	04/15/98	10	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
S-10-B8	04/15/98	10	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1995 Storage Tank Replacement Observation Report (Enivros, Inc.)																								
UW-1	11/08/94	8	<50	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	ND	ND	0.56	35	<5.0	39	37
UOW-1	11/07/94	6	<50	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	ND	ND	<0.50	31	7.1*	35	35
UT-1	11/08/94	3.5	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UT-2	11/07/94	3.5	---	1300	100	<0.10	<0.10	<0.10	0.13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UT-3	11/08/94	3.5	---	---	3.1	0.017	0.25	0.097	0.56	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UT-4	11/08/94	3.5	---	---	2,200	<2.5	26	36	300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UT-5 (CS)	11/10/94	11	---	25	740	<0.50	6.5	20	110	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UT-6 (CS)	11/10/94	11	---	1.1	<1.0	<0.0050	<0.0050	<0.0050	0.0070	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UT-7 (CS)	11/30/94	19.5	---	50	1,300	<0.50	31	26	150	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UT-8 (CS)	11/30/94	12	---	24	180	<0.12	3.8	3.0	19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UT-9 (CS)	11/30/94	8	---	<1.0	180	<0.12	<0.12	<0.12	0.59	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UT-10 (CS)	11/30/94	8	---	12	140	0.10	0.62	0.84	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UT-11 (CS)	11/30/94	11	---	1.3	5.1	<0.0050	<0.0050	0.014	0.078	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UX-1	11/07/94	14	---	9100	---	0.98	1.8	2.7	3.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UX-2	11/08/94	14	---	<1.0	---	<0.0050	<0.0050	<0.0050	0.011	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UX-3	11/10/94	15.5	---	---	1,600	1.6	54	24	220	---	---	---	---	---	---	---	---	---	---	---	---	<5.0	---	---

**CUMULATIVE SOIL ANALYTICAL TABLE
UNOCAL STATION #7176 (UNION OIL SITE 351788)
7850 AMADOR VALLEY ROAD, DUBLIN, CALIFORNIA**

Sample ID	Sample Date	Sample Depth (ft)	O&G (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	Ethanol (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	EDB (mg/kg)	1,2-DCA (mg/kg)	SVOCs (mg/kg)	VOCs (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Pb (mg/kg)	Ni (mg/kg)	Zn (mg/kg)
¹ ESL: Soil Leaching, Current or potential drinking water source (Table G)			---	83	83	0.044	2.9	3.3	2.3	0.023	NE	0.075	NE	NE	NE	0.00033	0.0045	---	---			2.5		
¹ ESL: Direct Exposure, Commercial-Industrial Worker (Table K-2)			---	450	450	0.27	210	5.0	100	65	NE	320,000	NE	NE	NE	0.044	0.48	---	---			750		
¹ ESL: Direct Exposure, Construction/Trench Worker (Table K-3)			---	4,200	4,200	12	650	210	420	2,800	NE	320,000	NE	NE	NE	1.7	21	---	---			750		
UX-4	11/10/94	15.5	---	---	1,500	<1.0	11	16	160	---	---	---	---	---	---	---	---	---	---	---	---	<5.0	---	---
UX-5	11/10/94	15.5	---	---	5.2	0.021	0.022	0.030	0.14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UX-6	11/10/94	15	---	---	11	0.011	0.067	0.046	0.40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UX-7	11/10/94	15	---	---	2.8	0.0062	<0.0050	0.016	0.16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UX-8	11/10/94	15	---	---	150	0.22	3.5	2.1	21	---	---	---	---	---	---	---	---	---	---	---	---	<5.0	---	---
UX-9 (CS)	11/10/94	16	---	36	41	<0.025	0.074	0.43	0.37	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UX-10 (CS)	11/10/94	16	---	75	27	<0.025	0.062	0.29	0.049	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UX-11 (CS)	11/11/94	17	---	15	200	<0.25	1.2	0.94	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UX-12 (CS)	11/11/94	17	---	15	230	<0.25	2.6	3.0	24	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UX-13 (CS)	11/11/94	15	---	1.6	<1.0	<0.0050	<0.0050	<0.0050	0.0060	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
UX-14 (CS)	11/11/94	17	---	16	210	<0.25	0.78	0.98	9.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1995 Preliminary Soil and Groundwater Investigation (Enviros, Inc.)																								
U-1-10.5	07/07/95	10.5	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
U-1-18.5	07/07/95	18.5	---	25	26	0.041	0.053	0.56	2.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
U-2-13	07/07/95	13	---	1.3	<1.0	0.017	<0.0050	0.071	<0.0050	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
U-2-17.5	07/07/95	17.5	---	12	97	<0.10	0.21	1.7	1.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
U-3-17.5	07/07/95	17.5	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B-1-13	07/07/95	13	---	1.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B-1-18	07/07/95	18	---	1.0	2.1	<0.0050	<0.0050	0.028	0.0088	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B-2-16	07/07/95	16	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B-3-11	07/07/95	11	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B-3-17	07/07/95	17	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B-4-11.5	07/07/95	11.5	---	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B-4-16	07/07/95	16	---	1.7	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B-5-14.5	07/07/95	14.5	---	<1.0	5.1	0.13	0.020	0.29	0.12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B-5-18	07/07/95	18	---	4.8	59	0.068	<0.0050	0.84	0.98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B-6-14.5	07/07/95	14.5	---	<1.0	4.9	0.088	<0.0050	0.099	0.22	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
B-6-19.5	07/07/95	19.5	---	10	150	0.21	3.0	3.2	19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**CUMULATIVE SOIL ANALYTICAL TABLE
UNOCAL STATION #7176 (UNION OIL SITE 351788)
7850 AMADOR VALLEY ROAD, DUBLIN, CALIFORNIA**

Sample ID	Sample Date	Sample Depth (fbg)	O&G (mg/kg)	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	Ethanol (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	TAME (mg/kg)	EDB (mg/kg)	1,2-DCA (mg/kg)	SVOCs (mg/kg)	VOCs (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Pb (mg/kg)	Ni (mg/kg)	Zn (mg/kg)
¹ ESL: Soil Leaching, Current or potential drinking water source (Table G)			---	83	83	0.044	2.9	3.3	2.3	0.023	NE	0.075	NE	NE	NE	0.00033	0.0045	---	---					2.5
¹ ESL: Direct Exposure, Commercial-Industrial Worker (Table K-2)			---	450	450	0.27	210	5.0	100	65	NE	320,000	NE	NE	NE	0.044	0.48	---	---					750
¹ ESL: Direct Exposure, Construction/Trench Worker (Table K-3)			---	4,200	4,200	12	650	210	420	2,800	NE	320,000	NE	NE	NE	1.7	21	---	---					750

Abbreviations/Notes:

Petroleum hydrocarbons as oil and grease (O&G) by Environmental Protection Agency (EPA) standard method 5520 E&F.

Total Petroleum hydrocarbons as Diesel (TPHd) by EPA method 8015B unless otherwise noted.

Total petroleum hydrocarbons as gasoline (TPHg) by EPA method 8015 unless otherwise noted.

Benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tert-butyl alcohol (MTBE), ethanol, t-butyl alcohol (TBA), di-isopropyl ether (DIPE), ethyl t-butyl ether (ETBE), t-amyl methyl ether (TAME), 1,2-dibromoethane (EDB) and 1,2-dichloroethane (1,2-DCA) by EPA Method 8020 or 8260 unless otherwise noted.

Semi-volatile organic compounds (SVOCs) by EPA method 8270.

Lead by 6010

¹ESL = Environmental Screening Levels from *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, California Regional Water Quality Control Board - San Francisco Bay Region, Intermin Final November 2007, Revised May 2008.

fbg = Feet below grade.

Milligrams per kilogram (mg/kg).

ND = Not detectable above various or unreported laboratory detection limits.

-- = Not analyzed or not applicable.

<x = Not detected above laboratory method detection limit.

Bold = Concentration exceeds most conservative applicable ESL.

~~Strikethrough~~ = Soil excavated.

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
UNION OIL #7176
7850 AMADOR VALLEY BLVD
DUBLIN, CALIFORNIA

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS											
					TPHd by 8015 with Silica Gel Cleanup	TPHg by 8015	Total Petro Hydro - Purgeable (GRO) by 8260	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE by SW8260	Diisopropyl ether	tert-Butyl ethyl ether	tert-Butyl methyl ether	tert-Butyl alcohol	1,2-Dibromoethane (Ethylene dibromide)	1,2-Dichloroethane	Ethanol
Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U-1	08/26/2011	355.59	14.83	340.76	670	1,400	2,400	<0.50	<0.50	0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<250
U-1	02/10/2012	355.59	16.33	339.26	650	2,100	2,300	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<250
U-2	08/26/2011	356.55	15.52	341.03	410	460	1,100	<0.50	<0.50	0.59	<1.0	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<250
U-2	02/10/2012	356.55	17.10	339.45	270	1,100	1,200	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<250
U-3	08/26/2011	358.09	17.12	340.97	<40	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<250
U-3	02/10/2012	358.09	18.67	339.42	<40	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<250
MW-4	08/26/2011 ¹	356.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	02/10/2012 ¹	356.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	08/26/2011	355.03	14.73	340.30	<40	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<250
MW-5	02/10/2012	355.03	16.10	338.93	<40	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<250

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 UNION OIL #7176
 7850 AMADOR VALLEY BLVD
 DUBLIN, CALIFORNIA

Location	Date	ADDITIONAL VOCS																											
		1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane (DBCP)	1,2-Dichlorobenzene	1,2-Dichloroethene (total)	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Chlorotoluene	2-Phenylbutane (sec-Butylbenzene)	4-Chlorotoluene	Bromobenzene	Bromodichloromethane	Bromoform	Bromomethane (Methyl bromide)
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
U-1	08/26/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	21	<0.50	<0.50	<0.50	<0.50	<1.0	
U-1	02/10/2012	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	26	<0.50	<0.50	<0.50	<0.50	<1.0	
U-2	08/26/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	7.9	<0.50	<0.50	<0.50	<0.50	<1.0	
U-2	02/10/2012	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	0.51	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	7.6	<0.50	<0.50	<0.50	<0.50	<1.0	
U-3	08/26/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	
U-3	02/10/2012	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	
MW-4	08/26/2011 ¹	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-4	02/10/2012 ¹	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MW-5	08/26/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	
MW-5	02/10/2012	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<1.0	<0.50	<1.0	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
 UNION OIL #7176
 7850 AMADOR VALLEY BLVD
 DUBLIN, CALIFORNIA

Location	Date	ADDITIONAL VOCs																											
		Carbon tetrachloride	Chlorobenzene	Chlorobromomethane	Chloroethane	Chloroform (Trichloromethane)	Chloromethane (Methyl chloride)	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cymene (p-Isopropyltoluene)	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane (CFC-12)	Hexachlorobutadiene	Isopropyl benzene	Methylene chloride	N-Butylbenzene	N-Propylbenzene	Naphthalene	Styrene	tert-Butylbenzene	Tetrachloroethene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane (CFC-11)	Trifluorotrichloroethane (Freon 113)	Vinyl chloride	
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
U-1	08/26/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	13	<1.0	36	56	1.7	<0.50	1.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
U-1	02/10/2012	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	14	<1.0	51	55	<0.50	<0.50	3.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
U-2	08/26/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	17	<1.0	<0.50	31	<0.50	<0.50	3.9	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
U-2	02/10/2012	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	13	<1.0	3.4	23	<0.50	<0.50	5.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
U-3	08/26/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
U-3	02/10/2012	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-4	08/26/2011 ¹	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-4	02/10/2012 ¹	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MW-5	08/26/2011	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-5	02/10/2012	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

January 17, 2011
76 Station 7176

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-4															
4/23/1998	356.41	12.11	0	344.30	--	--	2500	--	5.9	6.4	16	31	ND	--	
7/8/1998	356.41	13.70	0	342.71	-1.59	1400	1000	--	ND	ND	ND	ND	ND	--	
10/5/1998	356.41	15.18	0	341.23	-1.48	--	890	--	ND	ND	ND	14	ND	--	
1/4/1999	356.41	16.39	0	340.02	-1.21	71	--	--	--	--	--	--	--	--	
1/4/1999	356.41	16.39	0	340.02	-1.21	71	230	--	0.56	1.3	1.4	1.8	10	--	
4/5/1999	356.41	14.61	0	341.80	1.78	210	--	--	--	--	--	--	--	--	
4/5/1999	356.41	14.61	0	341.80	1.78	340	620	--	ND	1.8	2.1	ND	6	9.3	
7/1/1999	356.41	15.43	0	340.98	-0.82	310	--	--	--	--	--	--	--	--	
7/1/1999	356.41	15.43	0	340.98	-0.82	260	700	--	2.1	ND	1.9	2.4	ND	21	
9/30/1999	356.41	16.27	0	340.14	-0.84	420	582	--	2.6	1.30	1.98	ND	23.1	22.5	
9/30/1999	356.41	16.27	0	340.14	-0.84	220	--	--	--	--	--	--	--	--	
1/3/2000	356.41	17.50	0	338.91	-1.23	260	--	--	--	--	--	--	--	--	
1/3/2000	356.41	17.50	0	338.91	-1.23	250	800	--	4.2	4.6	3.3	11	31	17	
4/4/2000	356.41	13.91	0	342.50	3.59	460	710	--	2	1.3	4.4	2.0	21	22	
4/4/2000	356.41	13.91	0	342.50	3.59	340	--	--	--	--	--	--	--	--	
7/14/2000	356.41	15.58	0	340.83	-1.67	220	490	--	0.89	1.3	0.85	1.8	21	12	
7/14/2000	356.41	15.58	0	340.83	-1.67	76	--	--	--	--	--	--	--	--	
10/27/2000	356.41	16.96	0	339.45	-1.38	160	598	--	ND	1.56	4.65	ND	15.4	14	
10/27/2000	356.41	16.96	0	339.45	-1.38	120	--	--	--	--	--	--	--	--	
1/8/2001	356.41	16.64	0	339.77	0.32	--	522	--	4.09	1.69	2.53	1.26	17.2	14.3	
4/3/2001	356.41	15.46	0	340.95	1.18	180	575	--	ND	ND	ND	ND	14.0	11.6	
4/3/2001	356.41	15.46	0	340.95	1.18	ND	--	--	--	--	--	--	--	--	
7/6/2001	356.41	16.63	0	339.78	-1.17	200	--	--	--	--	--	--	--	--	
7/6/2001	356.41	16.63	0	339.78	-1.17	230	720	--	4.7	1.5	2.5	0.74	10	7.1	
10/5/2001	356.41	17.38	0	339.03	-0.75	180	650	--	4.3	1.2	1.1	1.8	5.9	5.4	
10/5/2001	356.41	17.38	0	339.03	-0.75	140	--	--	--	--	--	--	--	--	
1/3/2002	356.41	15.10	0	341.31	2.28	390	340	--	2.9	1.4	1.7	ND<1.0	ND<10/	3.1	
1/3/2002	356.41	15.10	0	341.31	2.28	360	--	--	--	--	--	--	--	--	
4/1/2002	356.41	14.85	0	341.56	0.25	160	340	--	ND<0.50	2.7	ND<0.50	0.66	ND<5.0	2.2	
4/1/2002	356.41	14.85	0	341.56	0.25	100	--	--	--	--	--	--	--	--	
7/1/2002	356.41	15.53	0	340.88	-0.68	130	--	280	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.58	
7/1/2002	356.41	15.53	0	340.88	-0.68	97	--	--	--	--	--	--	--	--	
1/24/2003	356.41	14.52	0	341.89	1.01	52	--	170	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	

**Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**

**January 17, 2011
76 Station 7176**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
1/24/2003	356.41	14.52	0	341.89	1.01	ND<50	--	--	--	--	--	--	--	--	--
7/28/2003	356.41	15.47	0	340.94	-0.95	110	--	380	ND<0.50	ND<0.50	ND<0.50	ND<1	ND<2	ND<2	
7/28/2003	356.41	15.47	0	340.94	-0.95	130	--	--	--	--	--	--	--	--	
2/4/2004	356.41	15.55	0	340.86	-0.08	94	--	270	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
7/2/2004	356.41	16.52	0	339.89	-0.97	ND<200	--	170	ND<0.5	ND<0.5	ND<0.5	ND<1	--	0.83	
1/11/2005	356.41	14.83	0	341.58	1.69	85	--	--	--	--	--	--	--	--	
1/11/2005	356.41	14.83	0	341.58	1.69	110	--	460	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.87	
7/8/2005	356.41	14.33	0	342.08	0.50	67	--	--	--	--	--	--	--	--	
7/8/2005	356.41	14.33	0	342.08	0.50	67	--	120	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.60	
1/6/2006	356.41	15.59	0	340.82	-1.26	ND<200	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.3	
9/11/2006	356.41	16.16	0	340.25	-0.57	ND<50	--	110	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.0	
2/16/2007	356.41	16.39	0	340.02	-0.23	66	--	210	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.0	
7/3/2007	356.41	16.60	0	339.81	-0.21	ND<56	--	160	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.71	
2/1/2008	356.41	15.26	0	341.15	1.34	66	--	91	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/2/2008	356.41	17.97	0	338.44	-2.71	51	--	380	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.70	
3/6/2009	356.41	15.89	0	340.52	2.08	ND<50	--	90	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
8/21/2009	356.41	17.80	0	338.61	-1.91	ND<50	--	260	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
1/14/2010	356.41	18.12	0	338.29	-0.32	66	--	220	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
8/13/2010	359.16	16.07	0	343.09	4.80	87	55	110	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
1/17/2011	359.16	15.37	0	343.79	0.70	ND<50	55	120	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
MW-5															
4/23/1998	355.03	11.15	0	343.88	--	--	120	--	0.53	0.90	1.0	3.8	13	--	
7/8/1998	355.03	12.63	0	342.40	-1.48	170	ND	--	ND	ND	ND	ND	12	--	
10/5/1998	355.03	14.00	0	341.03	-1.37	--	ND	--	ND	ND	ND	ND	12	--	
1/4/1999	355.03	15.21	0	339.82	-1.21	ND	ND	--	ND	ND	ND	ND	ND	--	
4/5/1999	355.03	13.76	0	341.27	1.45	ND	ND	--	ND	ND	ND	ND	ND	ND	
7/1/1999	355.03	14.48	0	340.55	-0.72	ND	ND	--	ND	ND	ND	ND	ND	2.3	
9/30/1999	355.03	15.15	0	339.88	-0.67	60.4	50.8	--	ND	ND	ND	ND	ND	ND	
9/30/1999	355.03	15.15	0	339.88	-0.67	ND	--	--	--	--	--	--	--	--	
1/3/2000	355.03	16.34	0	338.69	-1.19	ND	ND	--	ND	ND	ND	ND	ND	ND	
4/4/2000	355.03	12.90	0	342.13	3.44	ND	--	--	--	--	--	--	--	--	
4/4/2000	355.03	12.90	0	342.13	3.44	69	ND	--	ND	ND	ND	ND	ND	ND	
7/14/2000	355.03	14.48	0	340.55	-1.58	ND	ND	--	ND	ND	ND	ND	ND	ND	
10/27/2000	355.03	15.75	0	339.28	-1.27	ND	ND	--	ND	ND	ND	ND	ND	ND	

**Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**

**January 17, 2011
76 Station 7176**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
1/8/2001	355.03	15.25	0	339.78	0.50	--	ND	--	ND	ND	ND	ND	ND	ND	
4/3/2001	355.03	14.41	0	340.62	0.84	ND	ND	--	ND	ND	ND	ND	ND	ND	
7/6/2001	355.03	15.52	0	339.51	-1.11	ND	ND	--	ND	ND	ND	ND	ND	ND	
10/5/2001	355.03	16.28	0	338.75	-0.76	ND<50	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	
1/3/2002	355.03	14.01	0	341.02	2.27	ND<51	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	1.6	
4/1/2002	355.03	13.64	0	341.39	0.37	ND<50	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	3.5	
7/1/2002	355.03	14.51	0	340.52	-0.87	ND<60	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.3	
1/24/2003	355.03	13.53	0	341.50	0.98	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.3	
7/28/2003	355.03	14.40	0	340.63	-0.87	ND<50	--	ND<50	ND<0.50	ND<0.50	ND0.50	ND<1.0	--	3.4	
2/4/2004	355.03	14.41	0	340.62	-0.01	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.6	
7/2/2004	355.03	15.41	0	339.62	-1.00	ND<200	--	80	ND<0.5	ND<0.5	ND<0.5	ND<1	--	2.0	
1/11/2005	355.03	13.74	0	341.29	1.67	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.64	
7/8/2005	355.03	13.24	0	341.79	0.50	ND<50	--	--	--	--	--	--	--	--	
7/8/2005	355.03	13.24	0	341.79	0.50	220	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
1/6/2006	355.03	14.33	0	340.70	-1.09	ND<200	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/11/2006	355.03	14.91	0	340.12	-0.58	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
2/16/2007	355.03	15.13	0	339.90	-0.22	ND<56	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
7/3/2007	355.03	--	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
2/1/2008	355.03	--	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
9/2/2008	355.03	--	--	--	--	--	--	--	--	--	--	--	--	--	Paved over
3/6/2009	355.03	14.56	0	340.47	--	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
8/21/2009	355.03	16.69	0	338.34	-2.13	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
1/14/2010	355.03	16.94	0	338.09	-0.25	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
8/13/2010	357.80	15.01	0	342.79	4.70	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
1/17/2011	357.80	14.35	0	343.45	0.66	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
U-1															
7/8/1995	355.62	12.59	0	343.03	--	9400	39000	--	1500	19	1600	5200	--	--	
10/12/1995	355.62	15.38	0	340.24	-2.79	4200	33000	--	1400	ND	1400	3100	--	--	
1/11/1996	355.62	16.33	0	339.29	-0.95	8200	8300	--	690	11	680	1500	--	--	
4/11/1996	355.62	12.20	0	343.42	4.13	5630	3200	--	110	ND	180	290	790	--	
7/10/1996	355.62	13.84	0	341.78	-1.64	2200	2600	--	81	4.4	210	230	510	--	
10/30/1996	355.62	15.85	0	339.77	-2.01	560	2200	--	67	19	140	150	360	--	
1/27/1997	355.62	12.20	0	343.42	3.65	2300	4600	--	98	ND	360	290	150	--	
4/8/1997	355.62	13.46	0	342.16	-1.26	1300	2800	--	50	ND	220	140	ND	--	

**Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**

**January 17, 2011
76 Station 7176**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
7/17/1997	355.62	15.30	0	340.32	-1.84	460	2300	--	30	4.5	140	94	190	--	
10/17/1997	355.62	16.33	0	339.29	-1.03	510	1500	--	31	6.7	110	88	220	--	
1/19/1998	355.62	14.34	0	341.28	1.99	1300	--	--	--	--	--	--	--	--	
1/19/1998	355.62	14.34	0	341.28	1.99	1900	3100	--	46	3.4	310	200	170	--	
4/23/1998	355.59	11.16	0	344.43	3.15	--	3400	--	72	3.8	470	350	280	--	
7/8/1998	355.59	12.67	0	342.92	-1.51	2000	4500	--	51	ND	590	430	190	--	
10/5/1998	355.59	14.57	0	341.02	-1.90	--	7500	--	53	ND	680	350	190	180	
1/4/1999	355.59	15.35	0	340.24	-0.78	2500	--	--	--	--	--	--	--	--	
1/4/1999	355.59	15.35	0	340.24	-0.78	2700	10000	--	ND	ND	1200	540	--	ND	
4/5/1999	355.59	13.64	0	341.95	1.71	920	4900	--	34	ND	350	150	150	55	
4/5/1999	355.59	13.64	0	341.95	1.71	570	--	--	--	--	--	--	--	--	
7/1/1999	355.59	14.39	0	341.20	-0.75	2700	10000	--	45	ND	850	420	260	110	
7/1/1999	355.59	14.39	0	341.20	-0.75	3600	--	--	--	--	--	--	--	--	
9/30/1999	355.59	15.32	0	340.27	-0.93	2360	7150	--	ND	ND	415	84.4	ND	195	
9/30/1999	355.59	15.32	0	340.27	-0.93	1680	--	--	--	--	--	--	--	--	
1/3/2000	355.59	16.51	0	339.08	-1.19	2000	5400	--	28	8.4	180	33	160	120	
1/3/2000	355.59	16.51	0	339.08	-1.19	1700	--	--	--	--	--	--	--	--	
4/4/2000	355.59	12.89	0	342.70	3.62	990	4800	--	30	ND	210	93	170	160	
4/4/2000	355.59	12.89	0	342.70	3.62	1400	--	--	--	--	--	--	--	--	
7/14/2000	355.59	14.56	0	341.03	-1.67	2800	6200	--	41	16	170	32	170	120	
7/14/2000	355.59	14.56	0	341.03	-1.67	1200	--	--	--	--	--	--	--	--	
10/27/2000	355.59	15.96	0	339.63	-1.40	1400	3830	--	16.8	ND	68.6	7.99	55.2	38	
10/27/2000	355.59	15.96	0	339.63	-1.40	1300	--	--	--	--	--	--	--	--	
1/8/2001	355.59	15.72	0	339.87	0.24	--	2410	--	14.7	4.30	30.5	5.04	34.5	9.33	
4/3/2001	355.59	14.46	0	341.13	1.26	1500	3330	--	15.8	5.96	74.8	7.06	ND	13.3	
4/3/2001	355.59	14.46	0	341.13	1.26	830	--	--	--	--	--	--	--	--	
7/6/2001	355.59	15.65	0	339.94	-1.19	1200	--	--	--	--	--	--	--	--	
7/6/2001	355.59	15.65	0	339.94	-1.19	1600	4300	--	23	6.4	57	6.8	58	36	
10/5/2001	355.59	16.45	0	339.14	-0.80	2300	--	--	--	--	--	--	--	--	
10/5/2001	355.59	16.45	0	339.14	-0.80	2500	3800	--	19	ND<5.0	19	ND<5.0	64	36	
1/3/2002	355.59	14.18	0	341.41	2.27	2200	--	--	--	--	--	--	--	--	
1/3/2002	355.59	14.18	0	341.41	2.27	2200	4500	--	25	ND<10	24	ND<10	ND<100	23	
4/1/2002	355.59	13.72	0	341.87	0.46	1200	--	--	--	--	--	--	--	--	
4/1/2002	355.59	13.72	0	341.87	0.46	1800	5300	--	36	6.7	48	12	93	59	

**Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**

**January 17, 2011
76 Station 7176**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
7/1/2002	355.59	14.61	0	340.98	-0.89	2100	--	3900	ND<0.50	ND<0.50	ND<0.50	3.9	--	23	
7/1/2002	355.59	14.61	0	340.98	-0.89	2100	--	--	--	--	--	--	--	--	
1/24/2003	355.59	13.82	0	341.77	0.79	1700	--	--	--	--	--	--	--	--	
1/24/2003	355.59	13.82	0	341.77	0.79	2100	--	3400	ND<2.5	ND<2.5	37	ND<5.0	--	21	
7/28/2003	355.59	14.51	0	341.08	-0.69	2100	--	7100	ND<2.5	ND<2.5	12	ND<5	13	13	
7/28/2003	355.59	14.51	0	341.08	-0.69	1200	--	--	--	--	--	--	--	--	
2/4/2004	355.59	14.66	0	340.93	-0.15	1300	--	4000	ND<0.50	ND<0.50	13	ND<1.0	--	9.6	
7/2/2004	355.59	16.57	0	339.02	-1.91	400	--	2600	0.56	ND<0.5	5.3	ND<1	--	5.4	
1/11/2005	355.59	13.91	0	341.68	2.66	1500	--	--	--	--	--	--	--	--	
1/11/2005	355.59	13.91	0	341.68	2.66	2000	--	5000	0.59	ND<0.50	7.8	ND<1.0	--	4.2	
7/8/2005	355.59	13.26	0	342.33	0.65	1300	--	3100	ND<0.50	ND<0.50	4.3	ND<1.0	--	2.2	
1/6/2006	355.59	14.64	0	340.95	-1.38	1200	--	2200	ND<0.50	ND<0.50	3.1	ND<1.0	--	2.8	
9/11/2006	355.59	15.11	0	340.48	-0.47	1200	--	2700	ND<0.50	ND<0.50	2.0	0.79	--	1.6	
2/16/2007	355.59	15.38	0	340.21	-0.27	2000	--	3700	ND<0.50	ND<0.50	3.1	0.81	--	2.4	
7/3/2007	355.59	15.60	0	339.99	-0.22	890	--	--	--	--	--	--	--	--	
7/3/2007	355.59	15.60	0	339.99	-0.22	950	--	2300	ND<0.50	ND<0.50	1.6	0.74	--	0.89	
2/1/2008	355.59	14.28	0	341.31	1.32	1100	--	3100	0.88	ND<0.50	1.6	ND<1.0	--	ND<0.50	
9/2/2008	355.59	16.97	0	338.62	-2.69	960	--	3300	ND<1.0	ND<1.0	1.4	ND<2.0	--	ND<1.0	
3/6/2009	355.59	14.95	0	340.64	2.02	670	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.7	
8/21/2009	355.59	16.90	0	338.69	-1.95	620	--	1600	ND<0.50	ND<0.50	0.66	ND<1.0	--	ND<0.50	
1/14/2010	355.59	17.19	0	338.40	-0.29	800	--	1700	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	ND<1.0	
8/13/2010	358.36	15.15	0	343.21	4.81	540	1000	2000	ND<0.50	ND<0.50	0.68	ND<1.0	--	ND<0.50	
1/17/2011	358.36	14.50	0	343.86	0.65	670	1200	2100	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
U-2															
7/8/1995	356.59	12.68	0	343.91	--	4700	17000	--	430	ND	2200	590	--	--	
10/12/1995	356.59	16.01	0	340.58	-3.33	3600	24000	--	310	60	1900	190	--	--	
1/11/1996	356.59	17.06	0	339.53	-1.05	8600	10000	--	210	55	1400	240	--	--	
4/11/1996	356.59	12.75	0	343.84	4.31	1900	7700	--	130	27	1100	110	340	--	
7/10/1996	356.59	14.42	0	342.17	-1.67	2300	5600	--	59	15	610	42	250	--	
10/30/1996	356.59	16.82	0	339.77	-2.40	1800	7700	--	67	35	1000	54	260	--	
1/27/1997	356.59	12.91	0	343.68	3.91	660	1600	--	14	ND	130	7.0	100	--	
4/8/1997	356.59	14.07	0	342.52	-1.16	2000	4300	--	35	ND	400	16	ND	--	
7/17/1997	356.59	15.96	0	340.63	-1.89	1300	6200	--	17	22	410	ND	130	--	
10/17/1997	356.59	17.03	0	339.56	-1.07	1400	7100	--	71	26	520	50	ND	--	

**Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**

**January 17, 2011
76 Station 7176**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
1/19/1998	356.59	15.10	0	341.49	1.93	1500	--	--	--	--	--	--	--	--	
1/19/1998	356.59	15.10	0	341.49	1.93	2100	5300	--	46	11	350	16	110	--	
4/23/1998	356.55	11.74	0	344.81	3.32	--	3200	--	23	11	210	38	160	--	
7/8/1998	356.55	13.27	0	343.28	-1.53	1100	1600	--	34	8.5	100	7.4	190	--	
10/5/1998	356.55	14.90	0	341.65	-1.63	--	2900	--	37	8.4	110	7.3	78	--	
1/4/1999	356.55	15.94	0	340.61	-1.04	250	--	--	--	--	--	--	--	--	
1/4/1999	356.55	15.94	0	340.61	-1.04	670	2200	--	35	ND	17	ND	86	--	
4/5/1999	356.55	14.19	0	342.36	1.75	660	4900	--	21	77	130	310	100	6.9	
4/5/1999	356.55	14.19	0	342.36	1.75	490	--	--	--	--	--	--	--	--	
7/1/1999	356.55	14.98	0	341.57	-0.79	440	--	--	--	--	--	--	--	--	
7/1/1999	356.55	14.98	0	341.57	-0.79	210	1500	--	7.6	ND	ND	ND	ND	35	
9/30/1999	356.55	16.00	0	340.55	-1.02	483	256	--	1.85	ND	2.42	ND	26.3	29.8	
9/30/1999	356.55	16.00	0	340.55	-1.02	340	--	--	--	--	--	--	--	--	
1/3/2000	356.55	17.20	0	339.35	-1.20	2400	3400	--	23	13	ND	44	46	14	
1/3/2000	356.55	17.20	0	339.35	-1.20	1900	--	--	--	--	--	--	--	--	
4/4/2000	356.55	13.50	0	343.05	3.70	1000	3600	--	34	17	56	ND	59	25	
4/4/2000	356.55	13.50	0	343.05	3.70	1000	--	--	--	--	--	--	--	--	
7/14/2000	356.55	15.23	0	341.32	-1.73	1000	3100	--	16	13	15	10	100	19	
7/14/2000	356.55	15.23	0	341.32	-1.73	350	--	--	--	--	--	--	--	--	
10/27/2000	356.55	16.74	0	339.81	-1.51	2000	4180	--	30.4	10.2	14.6	ND	55.5	15	
10/27/2000	356.55	16.74	0	339.81	-1.51	1900	--	--	--	--	--	--	--	--	
1/8/2001	356.55	16.68	0	339.87	0.06	--	3300	--	33.5	7.32	3.49	ND	66.7	7.49	
4/3/2001	356.55	15.12	0	341.43	1.56	1500	4290	--	32.4	9.91	20.1	ND	66.6	18.1	
4/3/2001	356.55	15.12	0	341.43	1.56	830	--	--	--	--	--	--	--	--	
7/6/2001	356.55	16.32	0	340.23	-1.20	1100	--	--	--	--	--	--	--	--	
7/6/2001	356.55	16.32	0	340.23	-1.20	1400	4700	--	35	11	12	5.3	62	19	
10/5/2001	356.55	17.15	0	339.40	-0.83	3200	3600	--	31	9.6	8.7	6.9	62	13	
10/5/2001	356.55	17.15	0	339.40	-0.83	1900	--	--	--	--	--	--	--	--	
1/3/2002	356.55	14.90	0	341.65	2.25	2100	--	--	--	--	--	--	--	--	
1/3/2002	356.55	14.90	0	341.65	2.25	2300	4600	--	34	11	15	5.8	62	7.5	
4/1/2002	356.55	14.38	0	342.17	0.52	470	--	--	--	--	--	--	--	--	
4/1/2002	356.55	14.38	0	342.17	0.52	1400	3500	--	38	9.3	10	6.5	87	18	
7/1/2002	356.55	15.24	0	341.31	-0.86	ND<50	--	4500	ND<0.50	ND<0.50	5.0	1.7	--	ND<0.50	
1/24/2003	356.55	14.31	0	342.24	0.93	860	--	2300	1.1	1.5	6.9	2.4	--	5.9	

**Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**

**January 17, 2011
76 Station 7176**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
1/24/2003	356.55	14.31	0	342.24	0.93	570	--	--	--	--	--	--	--	--	
7/28/2003	356.55	15.18	0	341.37	-0.87	710	--	--	--	--	--	--	--	--	
7/28/2003	356.55	15.18	0	341.37	-0.87	1300	--	5600	ND<2.5	ND<2.5	3.4	ND<5	ND<10	ND<10	
2/4/2004	356.55	15.36	0	341.19	-0.18	1300	--	4400	ND<5.0	ND<5.0	7.0	ND<10	--	ND<20	
7/2/2004	356.55	16.28	0	340.27	-0.92	380	--	5700	1.4	2.8	6.6	5.5	--	6.6	
1/11/2005	356.55	14.59	0	341.96	1.69	1100	--	--	--	--	--	--	--	--	
1/11/2005	356.55	14.59	0	341.96	1.69	1800	--	5800	0.99	2.5	5.4	5.1	--	ND<5.0	
7/8/2005	356.55	13.97	0	342.58	0.62	1100	--	3000	0.56	1.9	3.0	3.2	--	5.0	
7/8/2005	356.55	13.97	0	342.58	0.62	960	--	--	--	--	--	--	--	--	
1/6/2006	356.55	15.30	0	341.25	-1.33	1100	--	1600	ND<0.50	ND<0.50	0.97	ND<1.0	--	2.1	
9/11/2006	356.55	15.62	0	340.93	-0.32	790	--	2300	ND<0.50	ND<0.50	1.0	1.0	--	2.7	
2/16/2007	356.55	16.01	0	340.54	-0.39	200	--	1500	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.2	
7/3/2007	356.55	16.27	0	340.28	-0.26	530	--	--	--	--	--	--	--	--	
7/3/2007	356.55	16.27	0	340.28	-0.26	540	--	1400	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.5	
2/1/2008	356.55	15.02	0	341.53	1.25	340	--	830	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.1	
9/2/2008	356.55	17.71	0	338.84	-2.69	300	--	1500	ND<0.50	ND<0.50	0.73	ND<1.0	--	0.80	
3/6/2009	356.55	15.60	0	340.95	2.11	77	--	630	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.0	
8/21/2009	356.55	17.60	0	338.95	-2.00	350	--	1600	ND<0.50	0.67	0.72	1.1	--	0.66	
1/14/2010	356.55	18.94	0	337.61	-1.34	440	--	1300	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
8/13/2010	359.32	15.84	0	343.48	5.87	310	930	1500	ND<0.50	0.53	0.77	1.2	--	0.69	
1/17/2011	359.32	15.27	0	344.05	0.57	360	560	1100	ND<0.50	ND<0.50	0.59	ND<1.0	--	0.63	
U-3															
7/8/1995	358.13	14.58	0	343.55	--	710	1100	--	0.57	2.1	1.7	2.4	--	--	
10/12/1995	358.13	17.60	0	340.53	-3.02	470	560	--	ND	0.87	0.7	1.1	--	--	
1/11/1996	358.13	18.65	0	339.48	-1.05	260	230	--	0.62	0.91	0.97	1.9	--	--	
4/11/1996	358.13	13.20	0	344.93	5.45	ND	68	--	ND	ND	ND	ND	ND	--	
7/10/1996	358.13	15.98	0	342.15	-2.78	ND	ND	--	ND	ND	ND	ND	ND	--	
10/30/1996	358.13	18.24	0	339.89	-2.26	ND	70	--	ND	ND	ND	ND	ND	--	
1/27/1997	358.13	14.41	0	343.72	3.83	ND	ND	--	ND	ND	ND	ND	ND	--	
4/8/1997	358.13	15.73	0	342.40	-1.32	ND	ND	--	ND	ND	ND	ND	ND	--	
7/17/1997	358.13	17.54	0	340.59	-1.81	ND	ND	--	ND	ND	ND	ND	ND	--	
10/17/1997	358.13	18.64	0	339.49	-1.10	63	ND	--	ND	ND	ND	ND	ND	--	
1/19/1998	358.13	16.67	0	341.46	1.97	68	ND	--	ND	ND	ND	ND	ND	--	
1/19/1998	358.13	16.67	0	341.46	1.97	ND	--	--	--	--	--	--	--	--	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

January 17, 2011
76 Station 7176

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-Water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
4/23/1998	358.09	13.28	0	344.81	3.35	--	ND	--	ND	ND	ND	ND	ND	--	
7/8/1998	358.09	14.90	0	343.19	-1.62	80	ND	--	ND	ND	ND	ND	ND	--	
10/5/1998	358.09	16.50	0	341.59	-1.60	--	ND	--	ND	ND	ND	ND	ND	--	
1/4/1999	358.09	17.70	0	340.39	-1.20	ND	ND	--	ND	ND	ND	ND	ND	--	
4/5/1999	358.09	15.67	0	342.42	2.03	ND	ND	--	ND	ND	ND	ND	ND	ND	
7/1/1999	358.09	16.79	0	341.30	-1.12	ND	ND	--	ND	ND	ND	ND	ND	ND	
9/30/1999	358.09	17.60	0	340.49	-0.81	ND	ND	--	ND	ND	ND	ND	ND	ND	
1/3/2000	358.09	18.86	0	339.23	-1.26	ND	ND	--	ND	ND	ND	ND	ND	ND	
4/4/2000	358.09	15.10	0	342.99	3.76	ND	ND	--	ND	ND	ND	ND	ND	ND	
7/14/2000	358.09	16.85	0	341.24	-1.75	ND	ND	--	ND	ND	ND	ND	ND	ND	
10/27/2000	358.09	18.35	0	339.74	-1.50	ND	ND	--	ND	ND	ND	ND	ND	ND	
1/8/2001	358.09	18.31	0	339.78	0.04	--	ND	--	ND	ND	ND	ND	ND	ND	
4/3/2001	358.09	16.70	0	341.39	1.61	ND	ND	--	ND	ND	ND	ND	ND	ND	
7/6/2001	358.09	17.90	0	340.19	-1.20	ND	ND	--	ND	ND	ND	ND	ND	ND	
10/5/2001	358.09	18.71	0	339.38	-0.81	ND<50	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	
1/3/2002	358.09	16.41	0	341.68	2.30	ND<52	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<1.0	
4/1/2002	358.09	15.87	0	342.22	0.54	ND<50	ND<50	--	ND<0.50	1.1	ND<0.50	1.2	ND<5.0	ND<2.0	
7/1/2002	358.09	16.77	0	341.32	-0.90	1500	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
1/24/2003	358.09	15.75	0	342.34	1.02	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<5.0	ND<2.019	
7/28/2003	358.09	16.74	0	341.35	-0.99	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1	ND<2	ND<2	
2/4/2004	358.09	16.87	0	341.22	-0.13	90	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
7/2/2004	358.09	17.87	0	340.22	-1.00	ND<200	--	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<1	--	ND<0.5	
1/11/2005	358.09	16.10	0	341.99	1.77	ND<50	--	52	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
7/8/2005	358.09	15.57	0	342.52	0.53	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
1/6/2006	358.09	16.94	0	341.15	-1.37	ND<200	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/11/2006	358.09	17.49	0	340.60	-0.55	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
2/16/2007	358.09	17.71	0	340.38	-0.22	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
7/3/2007	358.09	17.91	0	340.18	-0.20	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
2/1/2008	358.09	16.52	0	341.57	1.39	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/2/2008	358.09	19.32	0	338.77	-2.80	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/6/2009	358.09	17.24	0	340.85	2.08	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
8/21/2009	358.09	19.13	0	338.96	-1.89	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
1/14/2010	358.09	19.54	0	338.55	-0.41	ND<50	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
8/13/2010	360.87	17.38	0	343.49	4.94	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

January 17, 2011
76 Station 7176

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground- Water Elevation (feet)	Change in Elevation (feet)	TPH-D (µg/l)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
1/17/2011	360.87	16.70	0	344.17	0.68	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	

Table 2a
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 7176

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)	Bromo-form (µg/l)	Comments
MW-4													
4/5/1999	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
7/1/1999	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
9/30/1999	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
1/3/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
4/4/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
7/14/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
10/27/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
1/8/2001	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
4/3/2001	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
7/6/2001	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
10/5/2001	ND<100	ND<1000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
1/3/2002	ND<20	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	
4/1/2002	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
7/1/2002	ND<5.0	ND<25	ND<0.50	--	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	
1/24/2003	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
7/28/2003	ND<100	ND<500	ND<2	--	ND<2	ND<2	ND<2	ND<2	--	--	--	--	
2/4/2004	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
7/2/2004	ND<12	ND<800	ND<0.5	--	ND<0.5	ND<1	ND<1	ND<1	--	--	--	--	
1/11/2005	ND<5.0	ND<50	ND<0.50	--	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	
7/8/2005	ND<5.0	ND<50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
1/6/2006	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
9/11/2006	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/16/2007	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
7/3/2007	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/1/2008	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
9/2/2008	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
3/6/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/21/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
1/14/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/13/2010	ND<10	ND<250	ND<0.50	ND<0.010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
1/17/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
MW-5													
4/5/1999	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
7/1/1999	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	

Table 2a
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 7176

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)	Bromo-form (µg/l)	Comments
9/30/1999	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
1/3/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
4/4/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
7/14/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
10/27/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
1/8/2001	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
4/3/2001	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
7/6/2001	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
10/5/2001	ND<100	ND<1000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
1/3/2002	ND<20	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	
4/1/2002	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
7/1/2002	ND<5.0	ND<25	ND<0.50	--	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	
1/24/2003	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
7/28/2003	ND<100	ND<500	ND<2	--	ND<2	ND<2	ND<2	ND<2	--	--	--	--	
2/4/2004	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
7/2/2004	ND<12	ND<800	ND<0.5	--	ND<0.5	ND<1	ND<1	ND<1	--	--	--	--	
1/11/2005	ND<5.0	ND<50	ND<0.50	--	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	
7/8/2005	ND<5.0	ND<50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
1/6/2006	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
9/11/2006	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/16/2007	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
3/6/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/21/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
1/14/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/13/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
1/17/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
U-1													
4/5/1999	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
7/1/1999	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
9/30/1999	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
1/3/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
4/4/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
7/14/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
10/27/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
1/8/2001	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	

Table 2a
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 7176

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)	Bromo-form (µg/l)	Comments
4/3/2001	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
7/6/2001	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
10/5/2001	ND<100	ND<1000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
1/3/2002	ND<100	ND<2500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	
4/1/2002	ND<500	ND<2500	ND<10	--	ND<10	ND<10	ND<10	ND<10	--	--	--	--	
7/1/2002	ND<5.0	ND<25	ND<0.50	--	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	
1/24/2003	ND<500	ND<2500	ND<10	--	ND<10	ND<10	ND<10	ND<10	--	--	--	--	
7/28/2003	ND<500	ND<2500	ND<10	--	ND<10	ND<10	ND<10	ND<10	--	--	--	--	
2/4/2004	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
7/2/2004	ND<12	ND<800	ND<0.5	--	ND<0.5	ND<1	ND<1	ND<1	--	--	--	--	
1/11/2005	5.2	ND<50	ND<0.50	--	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	
7/8/2005	ND<5.0	ND<50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
1/6/2006	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
9/11/2006	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/16/2007	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
7/3/2007	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/1/2008	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
9/2/2008	ND<20	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	
3/6/2009	16	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/21/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
1/14/2010	ND<20	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	
8/13/2010	ND<10	ND<250	ND<0.50	ND<0.010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
1/17/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
U-2													
4/5/1999	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
7/1/1999	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
9/30/1999	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
1/3/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
4/4/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
7/14/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
10/27/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
1/8/2001	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
4/3/2001	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
7/6/2001	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
10/5/2001	ND<100	ND<1000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	

Table 2a
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 7176

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)	Bromo-form (µg/l)	Comments
1/3/2002	ND<100	ND<2500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	
4/1/2002	ND<200	ND<1000	ND<4.0	--	ND<4.0	ND<4.0	ND<4.0	ND<4.0	--	--	--	--	
7/1/2002	ND<5.0	ND<25	ND<0.50	--	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	
1/24/2003	ND<200	ND<1000	ND<4.0	--	ND<4.0	ND<4.0	ND<4.0	ND<4.0	--	--	--	--	
7/28/2003	ND<500	ND<2500	ND<10	--	ND<10	ND<10	ND<10	ND<10	--	--	--	--	
2/4/2004	ND<1000	ND<5000	ND<20	--	ND<20	ND<20	ND<20	ND<20	--	--	--	--	
7/2/2004	ND<12	ND<800	ND<0.5	--	ND<0.5	ND<1	ND<1	ND<1	--	--	--	--	
1/11/2005	ND<50	ND<500	ND<5.0	--	ND<5.0	ND<10	ND<5.0	ND<5.0	--	--	--	--	
7/8/2005	ND<50	ND<500	ND<5.0	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	
1/6/2006	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
9/11/2006	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/16/2007	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
7/3/2007	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/1/2008	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
9/2/2008	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
3/6/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/21/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
1/14/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/13/2010	ND<10	ND<250	ND<0.50	ND<0.010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
1/17/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
U-3													
4/5/1999	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
7/1/1999	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
9/30/1999	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
1/3/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
4/4/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
7/14/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
10/27/2000	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
1/8/2001	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
4/3/2001	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
7/6/2001	ND	ND	ND	--	ND	ND	ND	ND	--	--	--	--	
10/5/2001	ND<100	ND<1000	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
1/3/2002	ND<20	ND<500	ND<1.0	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	
4/1/2002	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
7/1/2002	ND<5.0	ND<25	ND<0.50	--	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	

Table 2a
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 7176

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene-dibromide (EDB) (µg/l)	EDB (504) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Bromo-benzene (µg/l)	Bromo-chloro-methane (µg/l)	Bromo-dichloro-methane (µg/l)	Bromo-form (µg/l)	Comments
1/24/2003	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
7/28/2003	ND<100	ND<500	ND<2	--	ND<2	ND<2	ND<2	ND<2	--	--	--	--	
2/4/2004	ND<100	ND<500	ND<2.0	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	--	--	--	--	
7/2/2004	ND<12	ND<800	ND<0.5	--	ND<0.5	ND<1	ND<1	ND<1	--	--	--	--	
1/11/2005	ND<5.0	ND<50	ND<0.50	--	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	
7/8/2005	ND<5.0	ND<50	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
1/6/2006	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
9/11/2006	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/16/2007	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
7/3/2007	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
2/1/2008	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
9/2/2008	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
3/6/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/21/2009	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
1/14/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	
8/13/2010	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
1/17/2011	ND<10	ND<250	ND<0.50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	

**Table 2b
ADDITIONAL HISTORIC ANALYTICAL RESULTS**

76 Station 7176

Date Sampled	Bromo-methane (µg/l)	n-Butyl-benzene (µg/l)	sec-Butyl-benzene (µg/l)	tert-Butyl benzene (µg/l)	Carbon Tetrachloride (µg/l)	Chloro-benzene (µg/l)	Chloro-ethane (µg/l)	Chloroform (µg/l)	Chloro-methane (µg/l)	2-Chloro-toluene (µg/l)	4-Chloro-toluene (µg/l)	1,2Dibrom-3-chloro-propane (µg/l)	Comments
MW-4													
4/5/1999	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/1999	--	--	--	--	--	--	--	--	--	--	--	--	
9/30/1999	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2000	--	--	--	--	--	--	--	--	--	--	--	--	
4/4/2000	--	--	--	--	--	--	--	--	--	--	--	--	
7/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	
10/27/2000	--	--	--	--	--	--	--	--	--	--	--	--	
1/8/2001	--	--	--	--	--	--	--	--	--	--	--	--	
4/3/2001	--	--	--	--	--	--	--	--	--	--	--	--	
7/6/2001	--	--	--	--	--	--	--	--	--	--	--	--	
10/5/2001	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	
4/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
1/24/2003	--	--	--	--	--	--	--	--	--	--	--	--	
7/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	--	--	--	--	--	--	--	--	--	--	--	
1/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/8/2005	--	--	--	--	--	--	--	--	--	--	--	--	
1/6/2006	--	--	--	--	--	--	--	--	--	--	--	--	
9/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	
7/3/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/1/2008	--	--	--	--	--	--	--	--	--	--	--	--	
9/2/2008	--	--	--	--	--	--	--	--	--	--	--	--	
3/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	
8/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	
1/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	
8/13/2010	ND<1.0	1.2	0.54	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
1/17/2011	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
MW-5													
4/5/1999	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/1999	--	--	--	--	--	--	--	--	--	--	--	--	

**Table 2b
ADDITIONAL HISTORIC ANALYTICAL RESULTS**

76 Station 7176

Date Sampled	Bromo-methane (µg/l)	n-Butyl-benzene (µg/l)	sec-Butyl-benzene (µg/l)	tert-Butyl benzene (µg/l)	Carbon Tetrachloride (µg/l)	Chloro-benzene (µg/l)	Chloro-ethane (µg/l)	Chloroform (µg/l)	Chloro-methane (µg/l)	2-Chloro-toluene (µg/l)	4-Chloro-toluene (µg/l)	1,2Dibrom-3-chloro-propane (µg/l)	Comments
9/30/1999	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2000	--	--	--	--	--	--	--	--	--	--	--	--	
4/4/2000	--	--	--	--	--	--	--	--	--	--	--	--	
7/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	
10/27/2000	--	--	--	--	--	--	--	--	--	--	--	--	
1/8/2001	--	--	--	--	--	--	--	--	--	--	--	--	
4/3/2001	--	--	--	--	--	--	--	--	--	--	--	--	
7/6/2001	--	--	--	--	--	--	--	--	--	--	--	--	
10/5/2001	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	
4/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
1/24/2003	--	--	--	--	--	--	--	--	--	--	--	--	
7/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	--	--	--	--	--	--	--	--	--	--	--	
1/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/8/2005	--	--	--	--	--	--	--	--	--	--	--	--	
1/6/2006	--	--	--	--	--	--	--	--	--	--	--	--	
9/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	
3/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	
8/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	
1/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	
8/13/2010	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
1/17/2011	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
U-1													
4/5/1999	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/1999	--	--	--	--	--	--	--	--	--	--	--	--	
9/30/1999	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2000	--	--	--	--	--	--	--	--	--	--	--	--	
4/4/2000	--	--	--	--	--	--	--	--	--	--	--	--	
7/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	
10/27/2000	--	--	--	--	--	--	--	--	--	--	--	--	
1/8/2001	--	--	--	--	--	--	--	--	--	--	--	--	

**Table 2b
ADDITIONAL HISTORIC ANALYTICAL RESULTS**

76 Station 7176

Date Sampled	Bromo-methane (µg/l)	n-Butyl-benzene (µg/l)	sec-Butyl-benzene (µg/l)	tert-Butyl benzene (µg/l)	Carbon Tetrachloride (µg/l)	Chloro-benzene (µg/l)	Chloro-ethane (µg/l)	Chloroform (µg/l)	Chloro-methane (µg/l)	2-Chloro-toluene (µg/l)	4-Chloro-toluene (µg/l)	1,2Dibrom-3-chloro-propane (µg/l)	Comments
4/3/2001	--	--	--	--	--	--	--	--	--	--	--	--	
7/6/2001	--	--	--	--	--	--	--	--	--	--	--	--	
10/5/2001	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	
4/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
1/24/2003	--	--	--	--	--	--	--	--	--	--	--	--	
7/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	--	--	--	--	--	--	--	--	--	--	--	
1/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/8/2005	--	--	--	--	--	--	--	--	--	--	--	--	
1/6/2006	--	--	--	--	--	--	--	--	--	--	--	--	
9/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	
7/3/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/1/2008	--	--	--	--	--	--	--	--	--	--	--	--	
9/2/2008	--	--	--	--	--	--	--	--	--	--	--	--	
3/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	
8/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	
1/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	
8/13/2010	ND<1.0	36	21	2.4	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
1/17/2011	ND<1.0	39	ND<0.50	2.6	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
U-2													
4/5/1999	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/1999	--	--	--	--	--	--	--	--	--	--	--	--	
9/30/1999	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2000	--	--	--	--	--	--	--	--	--	--	--	--	
4/4/2000	--	--	--	--	--	--	--	--	--	--	--	--	
7/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	
10/27/2000	--	--	--	--	--	--	--	--	--	--	--	--	
1/8/2001	--	--	--	--	--	--	--	--	--	--	--	--	
4/3/2001	--	--	--	--	--	--	--	--	--	--	--	--	
7/6/2001	--	--	--	--	--	--	--	--	--	--	--	--	
10/5/2001	--	--	--	--	--	--	--	--	--	--	--	--	

Table 2b
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 7176

Date Sampled	Bromo-methane (µg/l)	n-Butyl-benzene (µg/l)	sec-Butyl-benzene (µg/l)	tert-Butyl benzene (µg/l)	Carbon Tetrachloride (µg/l)	Chloro-benzene (µg/l)	Chloro-ethane (µg/l)	Chloroform (µg/l)	Chloro-methane (µg/l)	2-Chloro-toluene (µg/l)	4-Chloro-toluene (µg/l)	1,2Dibrom-3-chloro-propane (µg/l)	Comments
1/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	
4/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
1/24/2003	--	--	--	--	--	--	--	--	--	--	--	--	
7/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	--	--	--	--	--	--	--	--	--	--	--	
1/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/8/2005	--	--	--	--	--	--	--	--	--	--	--	--	
1/6/2006	--	--	--	--	--	--	--	--	--	--	--	--	
9/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	
7/3/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/1/2008	--	--	--	--	--	--	--	--	--	--	--	--	
9/2/2008	--	--	--	--	--	--	--	--	--	--	--	--	
3/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	
8/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	
1/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	
8/13/2010	ND<1.0	8.1	11	5.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
1/17/2011	ND<1.0	4.4	ND<0.50	4.7	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
U-3													
4/5/1999	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/1999	--	--	--	--	--	--	--	--	--	--	--	--	
9/30/1999	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2000	--	--	--	--	--	--	--	--	--	--	--	--	
4/4/2000	--	--	--	--	--	--	--	--	--	--	--	--	
7/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	
10/27/2000	--	--	--	--	--	--	--	--	--	--	--	--	
1/8/2001	--	--	--	--	--	--	--	--	--	--	--	--	
4/3/2001	--	--	--	--	--	--	--	--	--	--	--	--	
7/6/2001	--	--	--	--	--	--	--	--	--	--	--	--	
10/5/2001	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	
4/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	

Table 2b
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 7176

Date Sampled	Bromo-methane (µg/l)	n-Butyl-benzene (µg/l)	sec-Butyl-benzene (µg/l)	tert-Butyl benzene (µg/l)	Carbon Tetra-chloride (µg/l)	Chloro-benzene (µg/l)	Chloro-ethane (µg/l)	Chloroform (µg/l)	Chloro-methane (µg/l)	2-Chloro-toluene (µg/l)	4-Chloro-toluene (µg/l)	1,2Dibrom-3-chloro-propane (µg/l)	Comments
1/24/2003	--	--	--	--	--	--	--	--	--	--	--	--	
7/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	--	--	--	--	--	--	--	--	--	--	--	
1/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/8/2005	--	--	--	--	--	--	--	--	--	--	--	--	
1/6/2006	--	--	--	--	--	--	--	--	--	--	--	--	
9/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	
7/3/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/1/2008	--	--	--	--	--	--	--	--	--	--	--	--	
9/2/2008	--	--	--	--	--	--	--	--	--	--	--	--	
3/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	
8/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	
1/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	
8/13/2010	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	
1/17/2011	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	

**Table 2c
ADDITIONAL HISTORIC ANALYTICAL RESULTS**

76 Station 7176

Date Sampled	Dibromo-chloro-methane (µg/l)	Dibromo-methane (µg/l)	1,2-Dichloro-benzene (µg/l)	1,3-Dichloro-benzene (µg/l)	1,4-Dichloro-benzene (µg/l)	Dichloro-difluoro-methane (µg/l)	1,1-DCA (µg/l)	1,1-DCE (µg/l)	cis-1,2-DCE (µg/l)	trans-1,2-DCE (µg/l)	1,2-Dichloro-propane (µg/l)	1,3-Dichloro-propane (µg/l)	Comments
MW-4													
4/5/1999	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/1999	--	--	--	--	--	--	--	--	--	--	--	--	
9/30/1999	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2000	--	--	--	--	--	--	--	--	--	--	--	--	
4/4/2000	--	--	--	--	--	--	--	--	--	--	--	--	
7/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	
10/27/2000	--	--	--	--	--	--	--	--	--	--	--	--	
1/8/2001	--	--	--	--	--	--	--	--	--	--	--	--	
4/3/2001	--	--	--	--	--	--	--	--	--	--	--	--	
7/6/2001	--	--	--	--	--	--	--	--	--	--	--	--	
10/5/2001	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	
4/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
1/24/2003	--	--	--	--	--	--	--	--	--	--	--	--	
7/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	--	--	--	--	--	--	--	--	--	--	--	
1/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/8/2005	--	--	--	--	--	--	--	--	--	--	--	--	
1/6/2006	--	--	--	--	--	--	--	--	--	--	--	--	
9/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	
7/3/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/1/2008	--	--	--	--	--	--	--	--	--	--	--	--	
9/2/2008	--	--	--	--	--	--	--	--	--	--	--	--	
3/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	
8/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	
1/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	
8/13/2010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
1/17/2011	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
MW-5													
4/5/1999	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/1999	--	--	--	--	--	--	--	--	--	--	--	--	

**Table 2c
ADDITIONAL HISTORIC ANALYTICAL RESULTS**

76 Station 7176

Date Sampled	Dibromo-chloro-methane (µg/l)	Dibromo-methane (µg/l)	1,2-Dichloro-benzene (µg/l)	1,3-Dichloro-benzene (µg/l)	1,4-Dichloro-benzene (µg/l)	Dichloro-difluoro-methane (µg/l)	1,1-DCA (µg/l)	1,1-DCE (µg/l)	cis-1,2-DCE (µg/l)	trans-1,2-DCE (µg/l)	1,2-Dichloro-propane (µg/l)	1,3-Dichloro-propane (µg/l)	Comments
9/30/1999	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2000	--	--	--	--	--	--	--	--	--	--	--	--	
4/4/2000	--	--	--	--	--	--	--	--	--	--	--	--	
7/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	
10/27/2000	--	--	--	--	--	--	--	--	--	--	--	--	
1/8/2001	--	--	--	--	--	--	--	--	--	--	--	--	
4/3/2001	--	--	--	--	--	--	--	--	--	--	--	--	
7/6/2001	--	--	--	--	--	--	--	--	--	--	--	--	
10/5/2001	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	
4/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
1/24/2003	--	--	--	--	--	--	--	--	--	--	--	--	
7/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	--	--	--	--	--	--	--	--	--	--	--	
1/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/8/2005	--	--	--	--	--	--	--	--	--	--	--	--	
1/6/2006	--	--	--	--	--	--	--	--	--	--	--	--	
9/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	
3/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	
8/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	
1/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	
8/13/2010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
1/17/2011	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
U-1													
4/5/1999	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/1999	--	--	--	--	--	--	--	--	--	--	--	--	
9/30/1999	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2000	--	--	--	--	--	--	--	--	--	--	--	--	
4/4/2000	--	--	--	--	--	--	--	--	--	--	--	--	
7/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	
10/27/2000	--	--	--	--	--	--	--	--	--	--	--	--	
1/8/2001	--	--	--	--	--	--	--	--	--	--	--	--	

**Table 2c
ADDITIONAL HISTORIC ANALYTICAL RESULTS**

76 Station 7176

Date Sampled	Dibromo-chloro-methane (µg/l)	Dibromo-methane (µg/l)	1,2-Dichloro-benzene (µg/l)	1,3-Dichloro-benzene (µg/l)	1,4-Dichloro-benzene (µg/l)	Dichloro-difluoro-methane (µg/l)	1,1-DCA (µg/l)	1,1-DCE (µg/l)	cis-1,2-DCE (µg/l)	trans-1,2-DCE (µg/l)	1,2-Dichloro-propane (µg/l)	1,3-Dichloro-propane (µg/l)	Comments
4/3/2001	--	--	--	--	--	--	--	--	--	--	--	--	
7/6/2001	--	--	--	--	--	--	--	--	--	--	--	--	
10/5/2001	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	
4/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
1/24/2003	--	--	--	--	--	--	--	--	--	--	--	--	
7/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	--	--	--	--	--	--	--	--	--	--	--	
1/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/8/2005	--	--	--	--	--	--	--	--	--	--	--	--	
1/6/2006	--	--	--	--	--	--	--	--	--	--	--	--	
9/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	
7/3/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/1/2008	--	--	--	--	--	--	--	--	--	--	--	--	
9/2/2008	--	--	--	--	--	--	--	--	--	--	--	--	
3/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	
8/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	
1/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	
8/13/2010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
1/17/2011	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
U-2													
4/5/1999	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/1999	--	--	--	--	--	--	--	--	--	--	--	--	
9/30/1999	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2000	--	--	--	--	--	--	--	--	--	--	--	--	
4/4/2000	--	--	--	--	--	--	--	--	--	--	--	--	
7/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	
10/27/2000	--	--	--	--	--	--	--	--	--	--	--	--	
1/8/2001	--	--	--	--	--	--	--	--	--	--	--	--	
4/3/2001	--	--	--	--	--	--	--	--	--	--	--	--	
7/6/2001	--	--	--	--	--	--	--	--	--	--	--	--	
10/5/2001	--	--	--	--	--	--	--	--	--	--	--	--	

Table 2c
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 7176

Date Sampled	Dibromo-chloro-methane (µg/l)	Dibromo-methane (µg/l)	1,2-Dichloro-benzene (µg/l)	1,3-Dichloro-benzene (µg/l)	1,4-Dichloro-benzene (µg/l)	Dichloro-difluoro-methane (µg/l)	1,1-DCA (µg/l)	1,1-DCE (µg/l)	cis-1,2-DCE (µg/l)	trans-1,2-DCE (µg/l)	1,2-Dichloro-propane (µg/l)	1,3-Dichloro-propane (µg/l)	Comments
1/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	
4/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
1/24/2003	--	--	--	--	--	--	--	--	--	--	--	--	
7/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	--	--	--	--	--	--	--	--	--	--	--	
1/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/8/2005	--	--	--	--	--	--	--	--	--	--	--	--	
1/6/2006	--	--	--	--	--	--	--	--	--	--	--	--	
9/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	
7/3/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/1/2008	--	--	--	--	--	--	--	--	--	--	--	--	
9/2/2008	--	--	--	--	--	--	--	--	--	--	--	--	
3/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	
8/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	
1/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	
8/13/2010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
1/17/2011	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
U-3													
4/5/1999	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/1999	--	--	--	--	--	--	--	--	--	--	--	--	
9/30/1999	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2000	--	--	--	--	--	--	--	--	--	--	--	--	
4/4/2000	--	--	--	--	--	--	--	--	--	--	--	--	
7/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	
10/27/2000	--	--	--	--	--	--	--	--	--	--	--	--	
1/8/2001	--	--	--	--	--	--	--	--	--	--	--	--	
4/3/2001	--	--	--	--	--	--	--	--	--	--	--	--	
7/6/2001	--	--	--	--	--	--	--	--	--	--	--	--	
10/5/2001	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	
4/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	

**Table 2c
ADDITIONAL HISTORIC ANALYTICAL RESULTS**

76 Station 7176

Date Sampled	Dibromo-chloro-methane (µg/l)	Dibromo-methane (µg/l)	1,2-Dichloro-benzene (µg/l)	1,3-Dichloro-benzene (µg/l)	1,4-Dichloro-benzene (µg/l)	Dichloro-difluoro-methane (µg/l)	1,1-DCA (µg/l)	1,1-DCE (µg/l)	cis-1,2-DCE (µg/l)	trans-1,2-DCE (µg/l)	1,2-Dichloro-propane (µg/l)	1,3-Dichloro-propane (µg/l)	Comments
1/24/2003	--	--	--	--	--	--	--	--	--	--	--	--	
7/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	--	--	--	--	--	--	--	--	--	--	--	
1/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/8/2005	--	--	--	--	--	--	--	--	--	--	--	--	
1/6/2006	--	--	--	--	--	--	--	--	--	--	--	--	
9/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	
7/3/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/1/2008	--	--	--	--	--	--	--	--	--	--	--	--	
9/2/2008	--	--	--	--	--	--	--	--	--	--	--	--	
3/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	
8/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	
1/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	
8/13/2010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
1/17/2011	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	

**Table 2d
ADDITIONAL HISTORIC ANALYTICAL RESULTS**

76 Station 7176

Date Sampled	2,2-Dichloro-propane (µg/l)	1,1-Dichloro-propene (µg/l)	cis-1,3-Dichloro-propene (µg/l)	trans-1,3-Dichloro-propene (µg/l)	Hexa-chloro-butadiene (µg/l)	Isopropyl-benzene (µg/l)	p-Isopropyl-toluene (µg/l)	Methylene chloride (µg/l)	Naphthalene (µg/l)	n-Propyl-benzene (µg/l)	Styrene (µg/l)	1,1,1,2-Tetrachloro-ethane (µg/l)	Comments
MW-4													
4/5/1999	--	--	--	--	--	--	--	--	--	--	--	--	--
7/1/1999	--	--	--	--	--	--	--	--	--	--	--	--	--
9/30/1999	--	--	--	--	--	--	--	--	--	--	--	--	--
1/3/2000	--	--	--	--	--	--	--	--	--	--	--	--	--
4/4/2000	--	--	--	--	--	--	--	--	--	--	--	--	--
7/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	--
10/27/2000	--	--	--	--	--	--	--	--	--	--	--	--	--
1/8/2001	--	--	--	--	--	--	--	--	--	--	--	--	--
4/3/2001	--	--	--	--	--	--	--	--	--	--	--	--	--
7/6/2001	--	--	--	--	--	--	--	--	--	--	--	--	--
10/5/2001	--	--	--	--	--	--	--	--	--	--	--	--	--
1/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	--
4/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	--
7/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	--
1/24/2003	--	--	--	--	--	--	--	--	--	--	--	--	--
7/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	--
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	--	--
7/2/2004	--	--	--	--	--	--	--	--	--	--	--	--	--
1/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	--
7/8/2005	--	--	--	--	--	--	--	--	--	--	--	--	--
1/6/2006	--	--	--	--	--	--	--	--	--	--	--	--	--
9/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	--
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	--
7/3/2007	--	--	--	--	--	--	--	--	--	--	--	--	--
2/1/2008	--	--	--	--	--	--	--	--	--	--	--	--	--
9/2/2008	--	--	--	--	--	--	--	--	--	--	--	--	--
3/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	--
8/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	--
1/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	--
8/13/2010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
1/17/2011	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
MW-5													
4/5/1999	--	--	--	--	--	--	--	--	--	--	--	--	--
7/1/1999	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 2d
ADDITIONAL HISTORIC ANALYTICAL RESULTS**

76 Station 7176

Date Sampled	2,2-Dichloropropane (µg/l)	1,1-Dichloropropene (µg/l)	cis-1,3-Dichloropropene (µg/l)	trans-1,3-Dichloropropene (µg/l)	Hexachlorobutadiene (µg/l)	Isopropylbenzene (µg/l)	p-Isopropyltoluene (µg/l)	Methylene chloride (µg/l)	Naphthalene (µg/l)	n-Propylbenzene (µg/l)	Styrene (µg/l)	1,1,1,2-Tetrachloroethane (µg/l)	Comments
9/30/1999	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2000	--	--	--	--	--	--	--	--	--	--	--	--	
4/4/2000	--	--	--	--	--	--	--	--	--	--	--	--	
7/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	
10/27/2000	--	--	--	--	--	--	--	--	--	--	--	--	
1/8/2001	--	--	--	--	--	--	--	--	--	--	--	--	
4/3/2001	--	--	--	--	--	--	--	--	--	--	--	--	
7/6/2001	--	--	--	--	--	--	--	--	--	--	--	--	
10/5/2001	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	
4/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
1/24/2003	--	--	--	--	--	--	--	--	--	--	--	--	
7/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	--	--	--	--	--	--	--	--	--	--	--	
1/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/8/2005	--	--	--	--	--	--	--	--	--	--	--	--	
1/6/2006	--	--	--	--	--	--	--	--	--	--	--	--	
9/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	
3/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	
8/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	
1/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	
8/13/2010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
1/17/2011	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
U-1													
4/5/1999	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/1999	--	--	--	--	--	--	--	--	--	--	--	--	
9/30/1999	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2000	--	--	--	--	--	--	--	--	--	--	--	--	
4/4/2000	--	--	--	--	--	--	--	--	--	--	--	--	
7/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	
10/27/2000	--	--	--	--	--	--	--	--	--	--	--	--	
1/8/2001	--	--	--	--	--	--	--	--	--	--	--	--	

**Table 2d
ADDITIONAL HISTORIC ANALYTICAL RESULTS**

76 Station 7176

Date Sampled	2,2-Dichloropropane (µg/l)	1,1-Dichloropropene (µg/l)	cis-1,3-Dichloropropene (µg/l)	trans-1,3-Dichloropropene (µg/l)	Hexachlorobutadiene (µg/l)	Isopropylbenzene (µg/l)	p-Isopropyltoluene (µg/l)	Methylene chloride (µg/l)	Naphthalene (µg/l)	n-Propylbenzene (µg/l)	Styrene (µg/l)	1,1,1,2-Tetrachloroethane (µg/l)	Comments
4/3/2001	--	--	--	--	--	--	--	--	--	--	--	--	
7/6/2001	--	--	--	--	--	--	--	--	--	--	--	--	
10/5/2001	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	
4/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
1/24/2003	--	--	--	--	--	--	--	--	--	--	--	--	
7/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	--	--	--	--	--	--	--	--	--	--	--	
1/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/8/2005	--	--	--	--	--	--	--	--	--	--	--	--	
1/6/2006	--	--	--	--	--	--	--	--	--	--	--	--	
9/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	
7/3/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/1/2008	--	--	--	--	--	--	--	--	--	--	--	--	
9/2/2008	--	--	--	--	--	--	--	--	--	--	--	--	
3/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	
8/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	
1/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	
8/13/2010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	19	0.80	ND<1.0	ND<0.50	76	ND<0.50	ND<0.50	
1/17/2011	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	17	ND<0.50	ND<1.0	ND<0.50	67	ND<0.50	ND<0.50	
U-2													
4/5/1999	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/1999	--	--	--	--	--	--	--	--	--	--	--	--	
9/30/1999	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2000	--	--	--	--	--	--	--	--	--	--	--	--	
4/4/2000	--	--	--	--	--	--	--	--	--	--	--	--	
7/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	
10/27/2000	--	--	--	--	--	--	--	--	--	--	--	--	
1/8/2001	--	--	--	--	--	--	--	--	--	--	--	--	
4/3/2001	--	--	--	--	--	--	--	--	--	--	--	--	
7/6/2001	--	--	--	--	--	--	--	--	--	--	--	--	
10/5/2001	--	--	--	--	--	--	--	--	--	--	--	--	

Table 2d
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 7176

Date Sampled	2,2-Dichloro-propane (µg/l)	1,1-Dichloro-propene (µg/l)	cis-1,3-Dichloro-propene (µg/l)	trans-1,3-Dichloro-propene (µg/l)	Hexa-chloro-butadiene (µg/l)	Isopropyl-benzene (µg/l)	p-Isopropyl-toluene (µg/l)	Methylene chloride (µg/l)	Naphthalene (µg/l)	n-Propyl-benzene (µg/l)	Styrene (µg/l)	1,1,1,2-Tetrachloro-ethane (µg/l)	Comments
1/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	
4/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
1/24/2003	--	--	--	--	--	--	--	--	--	--	--	--	
7/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	--	--	--	--	--	--	--	--	--	--	--	
1/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/8/2005	--	--	--	--	--	--	--	--	--	--	--	--	
1/6/2006	--	--	--	--	--	--	--	--	--	--	--	--	
9/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	
7/3/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/1/2008	--	--	--	--	--	--	--	--	--	--	--	--	
9/2/2008	--	--	--	--	--	--	--	--	--	--	--	--	
3/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	
8/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	
1/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	
8/13/2010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	21	ND<0.50	ND<1.0	ND<0.50	43	ND<0.50	ND<0.50	
1/17/2011	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	15	ND<0.50	ND<1.0	ND<0.50	25	ND<0.50	ND<0.50	
U-3													
4/5/1999	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/1999	--	--	--	--	--	--	--	--	--	--	--	--	
9/30/1999	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2000	--	--	--	--	--	--	--	--	--	--	--	--	
4/4/2000	--	--	--	--	--	--	--	--	--	--	--	--	
7/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	
10/27/2000	--	--	--	--	--	--	--	--	--	--	--	--	
1/8/2001	--	--	--	--	--	--	--	--	--	--	--	--	
4/3/2001	--	--	--	--	--	--	--	--	--	--	--	--	
7/6/2001	--	--	--	--	--	--	--	--	--	--	--	--	
10/5/2001	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	
4/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	

Table 2d
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 7176

Date Sampled	2,2-Dichloropropane (µg/l)	1,1-Dichloropropene (µg/l)	cis-1,3-Dichloropropene (µg/l)	trans-1,3-Dichloropropene (µg/l)	Hexachlorobutadiene (µg/l)	Isopropylbenzene (µg/l)	p-Isopropyltoluene (µg/l)	Methylene chloride (µg/l)	Naphthalene (µg/l)	n-Propylbenzene (µg/l)	Styrene (µg/l)	1,1,1,2-Tetrachloroethane (µg/l)	Comments
1/24/2003	--	--	--	--	--	--	--	--	--	--	--	--	
7/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	--	--	--	--	--	--	--	--	--	--	--	
1/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/8/2005	--	--	--	--	--	--	--	--	--	--	--	--	
1/6/2006	--	--	--	--	--	--	--	--	--	--	--	--	
9/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	
7/3/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/1/2008	--	--	--	--	--	--	--	--	--	--	--	--	
9/2/2008	--	--	--	--	--	--	--	--	--	--	--	--	
3/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	
8/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	
1/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	
8/13/2010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	
1/17/2011	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	ND<0.50	ND<0.50	

**Table 2e
ADDITIONAL HISTORIC ANALYTICAL RESULTS**

76 Station 7176

Date Sampled	1,1,2,2- Tetrachlor o- ethane (µg/l)	Tetrachlor o- ethene (PCE) (µg/l)	Trichloro- trifluoro- ethane (µg/l)	1,2,4- Trichloro- benzene (µg/l)	1,2,3- Trichloro- benzene (µg/l)	1,1,1- Trichloro- ethane (µg/l)	1,1,2- Trichloro- ethane (µg/l)	Trichloro- ethene (TCE) (µg/l)	Trichloro- fluoro- methane (µg/l)	1,2,3- Trichloro- propane (µg/l)	1,2,4- Trimethyl- benzene (µg/l)	1,3,5- Trimethyl- benzene (µg/l)	Comments
MW-4													
4/5/1999	--	--	--	--	--	--	--	--	--	--	--	--	--
7/1/1999	--	--	--	--	--	--	--	--	--	--	--	--	--
9/30/1999	--	--	--	--	--	--	--	--	--	--	--	--	--
1/3/2000	--	--	--	--	--	--	--	--	--	--	--	--	--
4/4/2000	--	--	--	--	--	--	--	--	--	--	--	--	--
7/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	--
10/27/2000	--	--	--	--	--	--	--	--	--	--	--	--	--
1/8/2001	--	--	--	--	--	--	--	--	--	--	--	--	--
4/3/2001	--	--	--	--	--	--	--	--	--	--	--	--	--
7/6/2001	--	--	--	--	--	--	--	--	--	--	--	--	--
10/5/2001	--	--	--	--	--	--	--	--	--	--	--	--	--
1/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	--
4/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	--
7/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	--
1/24/2003	--	--	--	--	--	--	--	--	--	--	--	--	--
7/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	--
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	--	--
7/2/2004	--	--	--	--	--	--	--	--	--	--	--	--	--
1/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	--
7/8/2005	--	--	--	--	--	--	--	--	--	--	--	--	--
1/6/2006	--	--	--	--	--	--	--	--	--	--	--	--	--
9/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	--
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	--
7/3/2007	--	--	--	--	--	--	--	--	--	--	--	--	--
2/1/2008	--	--	--	--	--	--	--	--	--	--	--	--	--
9/2/2008	--	--	--	--	--	--	--	--	--	--	--	--	--
3/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	--
8/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	--
1/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	--
8/13/2010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	
1/17/2011	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	
MW-5													
4/5/1999	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 2e
ADDITIONAL HISTORIC ANALYTICAL RESULTS**

76 Station 7176

Date Sampled	1,1,2,2- Tetrachlor o- ethane (µg/l)	Tetrachlor o- ethene (PCE) (µg/l)	Trichloro- trifluoro- ethane (µg/l)	1,2,4- Trichloro- benzene (µg/l)	1,2,3- Trichloro- benzene (µg/l)	1,1,1- Trichloro- ethane (µg/l)	1,1,2- Trichloro- ethane (µg/l)	Trichloro- ethene (TCE) (µg/l)	Trichloro- fluoro- methane (µg/l)	1,2,3- Trichloro- propane (µg/l)	1,2,4- Trimethyl- benzene (µg/l)	1,3,5- Trimethyl- benzene (µg/l)	Comments
7/1/1999	--	--	--	--	--	--	--	--	--	--	--	--	
9/30/1999	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2000	--	--	--	--	--	--	--	--	--	--	--	--	
4/4/2000	--	--	--	--	--	--	--	--	--	--	--	--	
7/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	
10/27/2000	--	--	--	--	--	--	--	--	--	--	--	--	
1/8/2001	--	--	--	--	--	--	--	--	--	--	--	--	
4/3/2001	--	--	--	--	--	--	--	--	--	--	--	--	
7/6/2001	--	--	--	--	--	--	--	--	--	--	--	--	
10/5/2001	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	
4/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
1/24/2003	--	--	--	--	--	--	--	--	--	--	--	--	
7/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	--	--	--	--	--	--	--	--	--	--	--	
1/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/8/2005	--	--	--	--	--	--	--	--	--	--	--	--	
1/6/2006	--	--	--	--	--	--	--	--	--	--	--	--	
9/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	
3/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	
8/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	
1/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	
8/13/2010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	
1/17/2011	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	
U-1													
4/5/1999	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/1999	--	--	--	--	--	--	--	--	--	--	--	--	
9/30/1999	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2000	--	--	--	--	--	--	--	--	--	--	--	--	
4/4/2000	--	--	--	--	--	--	--	--	--	--	--	--	
7/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	

**Table 2e
ADDITIONAL HISTORIC ANALYTICAL RESULTS**

76 Station 7176

Date Sampled	1,1,2,2- Tetrachlor o- ethane (µg/l)	Tetrachlor o- ethene (PCE) (µg/l)	Trichloro- trifluoro- ethane (µg/l)	1,2,4- Trichloro- benzene (µg/l)	1,2,3- Trichloro- benzene (µg/l)	1,1,1- Trichloro- ethane (µg/l)	1,1,2- Trichloro- ethane (µg/l)	Trichloro- ethene (TCE) (µg/l)	Trichloro- fluoro- methane (µg/l)	1,2,3- Trichloro- propane (µg/l)	1,2,4- Trimethyl- benzene (µg/l)	1,3,5- Trimethyl- benzene (µg/l)	Comments
10/27/2000	--	--	--	--	--	--	--	--	--	--	--	--	
1/8/2001	--	--	--	--	--	--	--	--	--	--	--	--	
4/3/2001	--	--	--	--	--	--	--	--	--	--	--	--	
7/6/2001	--	--	--	--	--	--	--	--	--	--	--	--	
10/5/2001	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	
4/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
1/24/2003	--	--	--	--	--	--	--	--	--	--	--	--	
7/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	--	--	--	--	--	--	--	--	--	--	--	
1/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/8/2005	--	--	--	--	--	--	--	--	--	--	--	--	
1/6/2006	--	--	--	--	--	--	--	--	--	--	--	--	
9/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	
7/3/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/1/2008	--	--	--	--	--	--	--	--	--	--	--	--	
9/2/2008	--	--	--	--	--	--	--	--	--	--	--	--	
3/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	
8/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	
1/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	
8/13/2010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	31	ND<0.50	
1/17/2011	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	
U-2													
4/5/1999	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/1999	--	--	--	--	--	--	--	--	--	--	--	--	
9/30/1999	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2000	--	--	--	--	--	--	--	--	--	--	--	--	
4/4/2000	--	--	--	--	--	--	--	--	--	--	--	--	
7/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	
10/27/2000	--	--	--	--	--	--	--	--	--	--	--	--	
1/8/2001	--	--	--	--	--	--	--	--	--	--	--	--	

**Table 2e
ADDITIONAL HISTORIC ANALYTICAL RESULTS**

76 Station 7176

Date Sampled	1,1,2,2- Tetrachlor o- ethane (µg/l)	Tetrachlor o- ethene (PCE) (µg/l)	Trichloro- trifluoro- ethane (µg/l)	1,2,4- Trichloro- benzene (µg/l)	1,2,3- Trichloro- benzene (µg/l)	1,1,1- Trichloro- ethane (µg/l)	1,1,2- Trichloro- ethane (µg/l)	Trichloro- ethene (TCE) (µg/l)	Trichloro- fluoro- methane (µg/l)	1,2,3- Trichloro- propane (µg/l)	1,2,4- Trimethyl- benzene (µg/l)	1,3,5- Trimethyl- benzene (µg/l)	Comments
4/3/2001	--	--	--	--	--	--	--	--	--	--	--	--	
7/6/2001	--	--	--	--	--	--	--	--	--	--	--	--	
10/5/2001	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	
4/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
1/24/2003	--	--	--	--	--	--	--	--	--	--	--	--	
7/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	--	--	--	--	--	--	--	--	--	--	--	
1/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/8/2005	--	--	--	--	--	--	--	--	--	--	--	--	
1/6/2006	--	--	--	--	--	--	--	--	--	--	--	--	
9/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	
7/3/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/1/2008	--	--	--	--	--	--	--	--	--	--	--	--	
9/2/2008	--	--	--	--	--	--	--	--	--	--	--	--	
3/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	
8/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	
1/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	
8/13/2010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	
1/17/2011	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	
U-3													
4/5/1999	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/1999	--	--	--	--	--	--	--	--	--	--	--	--	
9/30/1999	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2000	--	--	--	--	--	--	--	--	--	--	--	--	
4/4/2000	--	--	--	--	--	--	--	--	--	--	--	--	
7/14/2000	--	--	--	--	--	--	--	--	--	--	--	--	
10/27/2000	--	--	--	--	--	--	--	--	--	--	--	--	
1/8/2001	--	--	--	--	--	--	--	--	--	--	--	--	
4/3/2001	--	--	--	--	--	--	--	--	--	--	--	--	
7/6/2001	--	--	--	--	--	--	--	--	--	--	--	--	

**Table 2e
ADDITIONAL HISTORIC ANALYTICAL RESULTS**

76 Station 7176

Date Sampled	1,1,2,2- Tetrachloro- ethane (µg/l)	Tetrachloro- o- ethene (PCE) (µg/l)	Trichloro- trifluoro- ethane (µg/l)	1,2,4- Trichloro- benzene (µg/l)	1,2,3- Trichloro- benzene (µg/l)	1,1,1- Trichloro- ethane (µg/l)	1,1,2- Trichloro- ethane (µg/l)	Trichloro- ethene (TCE) (µg/l)	Trichloro- fluoro- methane (µg/l)	1,2,3- Trichloro- propane (µg/l)	1,2,4- Trimethyl- benzene (µg/l)	1,3,5- Trimethyl- benzene (µg/l)	Comments
10/5/2001	--	--	--	--	--	--	--	--	--	--	--	--	
1/3/2002	--	--	--	--	--	--	--	--	--	--	--	--	
4/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
7/1/2002	--	--	--	--	--	--	--	--	--	--	--	--	
1/24/2003	--	--	--	--	--	--	--	--	--	--	--	--	
7/28/2003	--	--	--	--	--	--	--	--	--	--	--	--	
2/4/2004	--	--	--	--	--	--	--	--	--	--	--	--	
7/2/2004	--	--	--	--	--	--	--	--	--	--	--	--	
1/11/2005	--	--	--	--	--	--	--	--	--	--	--	--	
7/8/2005	--	--	--	--	--	--	--	--	--	--	--	--	
1/6/2006	--	--	--	--	--	--	--	--	--	--	--	--	
9/11/2006	--	--	--	--	--	--	--	--	--	--	--	--	
2/16/2007	--	--	--	--	--	--	--	--	--	--	--	--	
7/3/2007	--	--	--	--	--	--	--	--	--	--	--	--	
2/1/2008	--	--	--	--	--	--	--	--	--	--	--	--	
9/2/2008	--	--	--	--	--	--	--	--	--	--	--	--	
3/6/2009	--	--	--	--	--	--	--	--	--	--	--	--	
8/21/2009	--	--	--	--	--	--	--	--	--	--	--	--	
1/14/2010	--	--	--	--	--	--	--	--	--	--	--	--	
8/13/2010	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	
1/17/2011	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	

Table 2f
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 7176

Date Sampled	Vinyl chloride (µg/l)	Comments
MW-4		
4/5/1999	--	
7/1/1999	--	
9/30/1999	--	
1/3/2000	--	
4/4/2000	--	
7/14/2000	--	
10/27/2000	--	
1/8/2001	--	
4/3/2001	--	
7/6/2001	--	
10/5/2001	--	
1/3/2002	--	
4/1/2002	--	
7/1/2002	--	
1/24/2003	--	
7/28/2003	--	
2/4/2004	--	
7/2/2004	--	
1/11/2005	--	
7/8/2005	--	
1/6/2006	--	
9/11/2006	--	
2/16/2007	--	
7/3/2007	--	
2/1/2008	--	
9/2/2008	--	
3/6/2009	--	
8/21/2009	--	
1/14/2010	--	
8/13/2010	ND<0.50	
1/17/2011	ND<0.50	
MW-5		
4/5/1999	--	
7/1/1999	--	

Table 2f
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 7176

Date Sampled	Vinyl chloride (µg/l)	Comments
9/30/1999	--	
1/3/2000	--	
4/4/2000	--	
7/14/2000	--	
10/27/2000	--	
1/8/2001	--	
4/3/2001	--	
7/6/2001	--	
10/5/2001	--	
1/3/2002	--	
4/1/2002	--	
7/1/2002	--	
1/24/2003	--	
7/28/2003	--	
2/4/2004	--	
7/2/2004	--	
1/11/2005	--	
7/8/2005	--	
1/6/2006	--	
9/11/2006	--	
2/16/2007	--	
3/6/2009	--	
8/21/2009	--	
1/14/2010	--	
8/13/2010	ND<0.50	
1/17/2011	ND<0.50	
U-1		
4/5/1999	--	
7/1/1999	--	
9/30/1999	--	
1/3/2000	--	
4/4/2000	--	
7/14/2000	--	
10/27/2000	--	
1/8/2001	--	

Table 2f
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 7176

Date Sampled	Vinyl chloride (µg/l)	Comments
4/3/2001	--	
7/6/2001	--	
10/5/2001	--	
1/3/2002	--	
4/1/2002	--	
7/1/2002	--	
1/24/2003	--	
7/28/2003	--	
2/4/2004	--	
7/2/2004	--	
1/11/2005	--	
7/8/2005	--	
1/6/2006	--	
9/11/2006	--	
2/16/2007	--	
7/3/2007	--	
2/1/2008	--	
9/2/2008	--	
3/6/2009	--	
8/21/2009	--	
1/14/2010	--	
8/13/2010	ND<0.50	
1/17/2011	ND<0.50	
U-2		
4/5/1999	--	
7/1/1999	--	
9/30/1999	--	
1/3/2000	--	
4/4/2000	--	
7/14/2000	--	
10/27/2000	--	
1/8/2001	--	
4/3/2001	--	
7/6/2001	--	
10/5/2001	--	

Table 2f
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 7176

Date Sampled	Vinyl chloride (µg/l)	Comments
1/3/2002	--	
4/1/2002	--	
7/1/2002	--	
1/24/2003	--	
7/28/2003	--	
2/4/2004	--	
7/2/2004	--	
1/11/2005	--	
7/8/2005	--	
1/6/2006	--	
9/11/2006	--	
2/16/2007	--	
7/3/2007	--	
2/1/2008	--	
9/2/2008	--	
3/6/2009	--	
8/21/2009	--	
1/14/2010	--	
8/13/2010	ND<0.50	
1/17/2011	ND<0.50	
U-3		
4/5/1999	--	
7/1/1999	--	
9/30/1999	--	
1/3/2000	--	
4/4/2000	--	
7/14/2000	--	
10/27/2000	--	
1/8/2001	--	
4/3/2001	--	
7/6/2001	--	
10/5/2001	--	
1/3/2002	--	
4/1/2002	--	
7/1/2002	--	

Table 2f
ADDITIONAL HISTORIC ANALYTICAL RESULTS

76 Station 7176

Date Sampled	Vinyl chloride ($\mu\text{g/l}$)	Comments
1/24/2003	--	
7/28/2003	--	
2/4/2004	--	
7/2/2004	--	
1/11/2005	--	
7/8/2005	--	
1/6/2006	--	
9/11/2006	--	
2/16/2007	--	
7/3/2007	--	
2/1/2008	--	
9/2/2008	--	
3/6/2009	--	
8/21/2009	--	
1/14/2010	--	
8/13/2010	ND<0.50	
1/17/2011	ND<0.50	

APPENDIX E
TRENDS AND DEGRADATION CALCULATIONS

Table A - Summary of Degradation Rate Calculations
Unocal Station #7176, 7850 Amador Valley Boulevard, Dublin, California

Well	Analyte	Maximum Concentration (ug/L)	Current Concentration (ug/L)	Half-Life (years)	Date to Reach WQO	Years to WQO
U-1	TPHd	9,400	670	8.93	Nov 2036	25
	TPHg	39,000	1,400	6.78	Apr 2037	25
	Benzene	1,500	< 0.5	NA	AT WQO	AT WQO
	MTBE	790	< 0.5	NA	AT WQO	AT WQO
U-2	TPHd	8,600	410	6.56	Apr 2022	10
	TPHg	24,000	460	6.23	Jul 2032	21
	Benzene	430	< 0.5	NA	AT WQO	AT WQO
	MTBE	340	< 0.5	NA	AT WQO	AT WQO

Notes and Abbreviations:

- TPHd = Total petroleum hydrocarbons as diesel
- TPHg = Total petroleum hydrocarbons as gasoline
- MTBE = Methyl tertiary butyl ether
- ug/L = Micrograms per liter
- WQO = Water Quality Objective
- NA = Not applicable

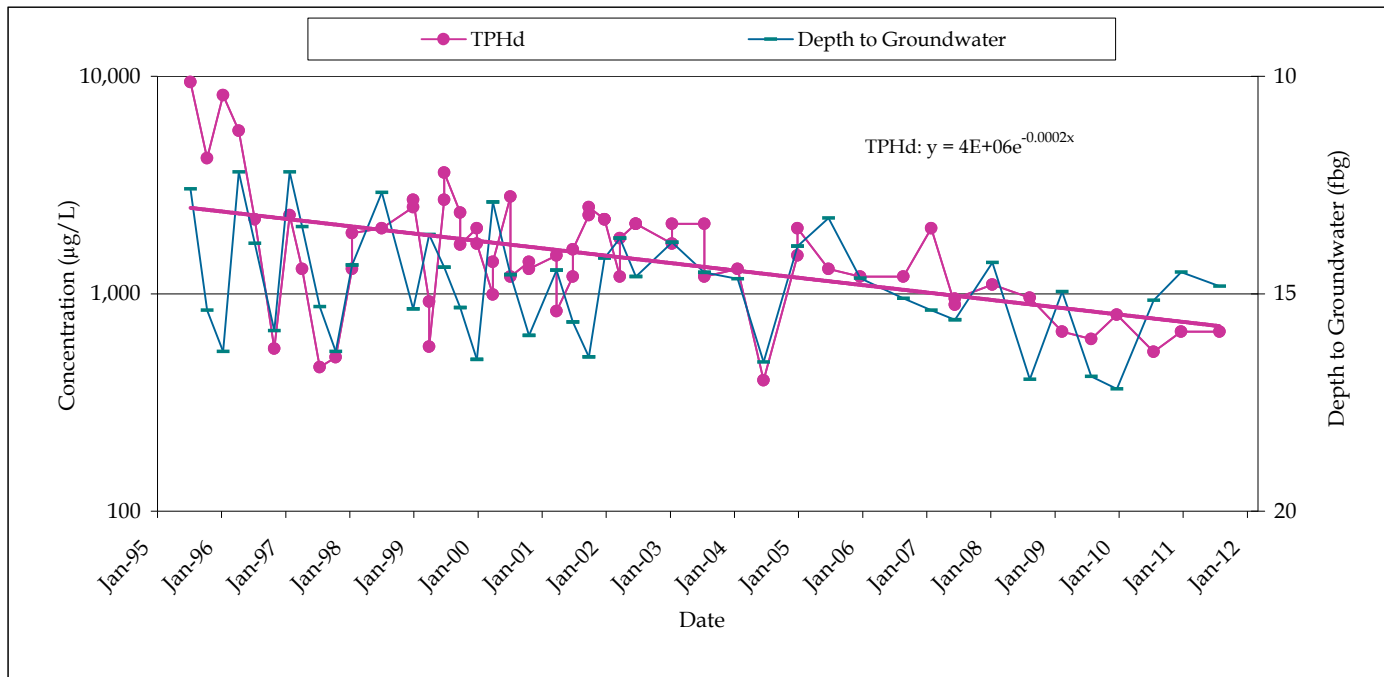
Predicted Time to Reach Water Quality Objectives (WQO) in Well U-1

Unocal Station #7176, 7850 Amador Valley Boulevard, Dublin, California

$$y = b e^{ax} \quad \implies \quad x = \ln(y/b) / a$$

where: y = concentration in $\mu\text{g/L}$ a = decay constant
 b = concentration at time (x) x = time (x) in days

Given		Constituent	Total Petroleum Hydrocarbons as Diesel (TPHd)
WQO:	y		100
Constant:	b		4.11E+06
Constant:	a		-2.12E-04
Starting date for current trend:			7/8/1995
Calculate			
Attenuation Half Life (years):	$(-\ln(2)/a)/365.25$		8.93
Estimated Date to Reach WQO:	$(x = \ln(y/b) / a)$		Nov 2036



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FIGURE A. U-1: TPHd CONCENTRATIONS AND DEPTH TO GROUNDWATER

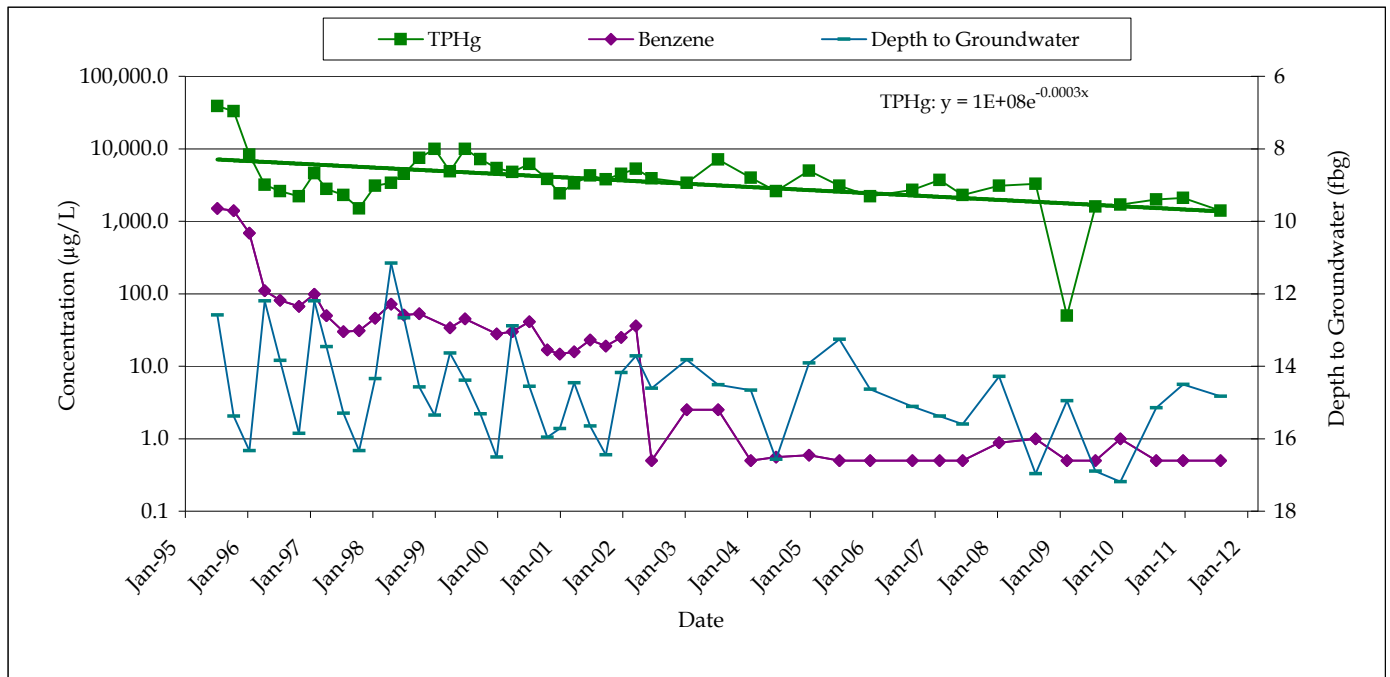
Predicted Time to Reach Water Quality Objectives (WQO) in Well U-1

Unocal Station #7176, 7850 Amador Valley Boulevard, Dublin, California

$$y = b e^{ax} \quad \implies \quad x = \ln(y/b) / a$$

where: y = concentration in $\mu\text{g/L}$ a = decay constant
 b = concentration at time (x) x = time (x) in days

		Constituent	Total Petroleum Hydrocarbons as Gasoline (TPHg)	Benzene
Given	WQO:	y	100	0.5
	Constant:	b	1.23E+08	NA
	Constant:	a	-2.80E-04	NA
	Starting date for current trend:		7/8/1995	NA
Calculate	Attenuation Half Life (years):	$(-\ln(2)/a)/365.25$	6.78	NA
	Estimated Date to Reach WQO:	$(x = \ln(y/b) / a)$	Apr 2037	AT WQO



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FIGURE B. U-1: TPHg AND BENZENE CONCENTRATIONS AND DEPTH TO GROUNDWATER

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

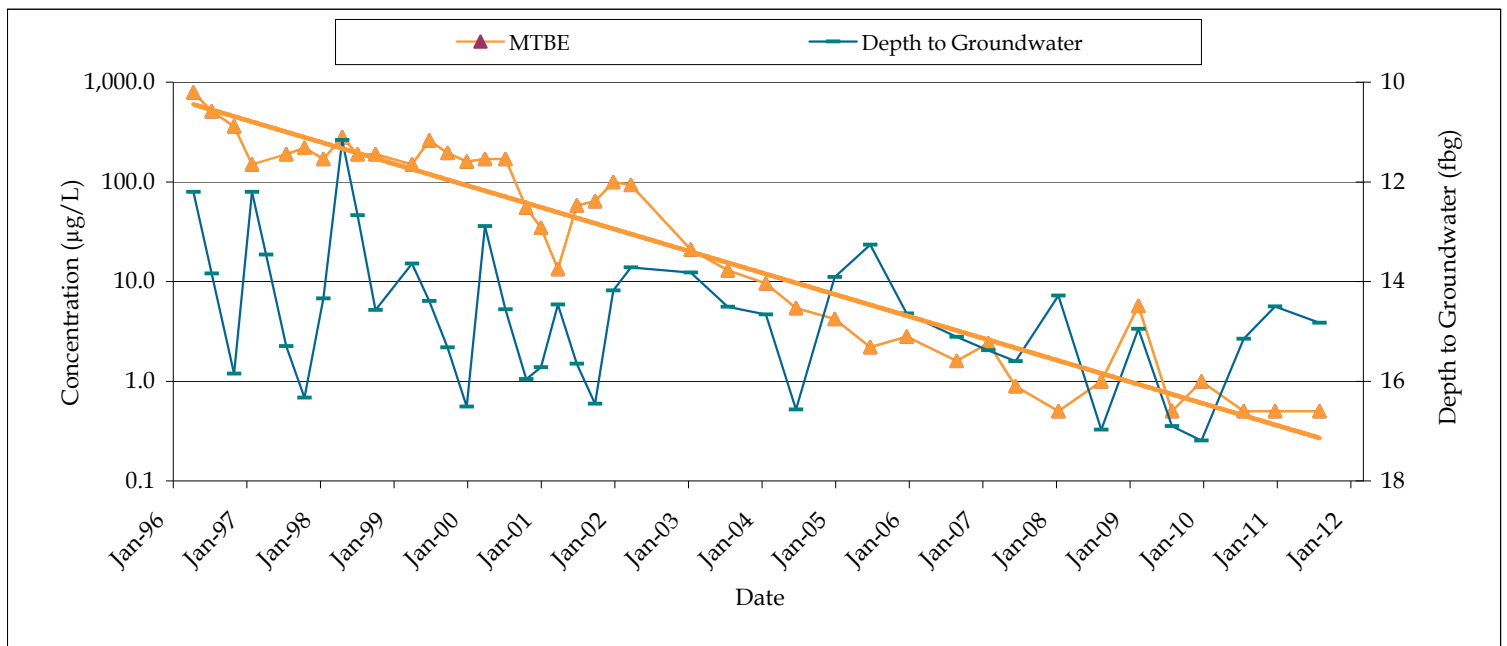
Unocal Station #7176, 7850 Amador Valley Boulevard, Dublin, California

$$y = b e^{ax} \quad \implies \quad x = \ln(y/b) / a$$

where: y = concentration in $\mu\text{g/L}$ a = decay constant
 b = concentration at time (x) x = time (x) in days

Given	Constituent	Methyl Tertiary Butyl Ether (MTBE)
WQO:	y	5
Constant:	b	NA
Constant:	a	NA
Starting date for current trend:		NA

Calculate		
Attenuation Half Life (years):	$(-\ln(2)/a)/365.25$	NA
Estimated Date to Reach WQO:	$(x = \ln(y/b) / a)$	AT WQO



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FIGURE C. U-1: MTBE CONCENTRATIONS AND DEPTH TO GROUNDWATER

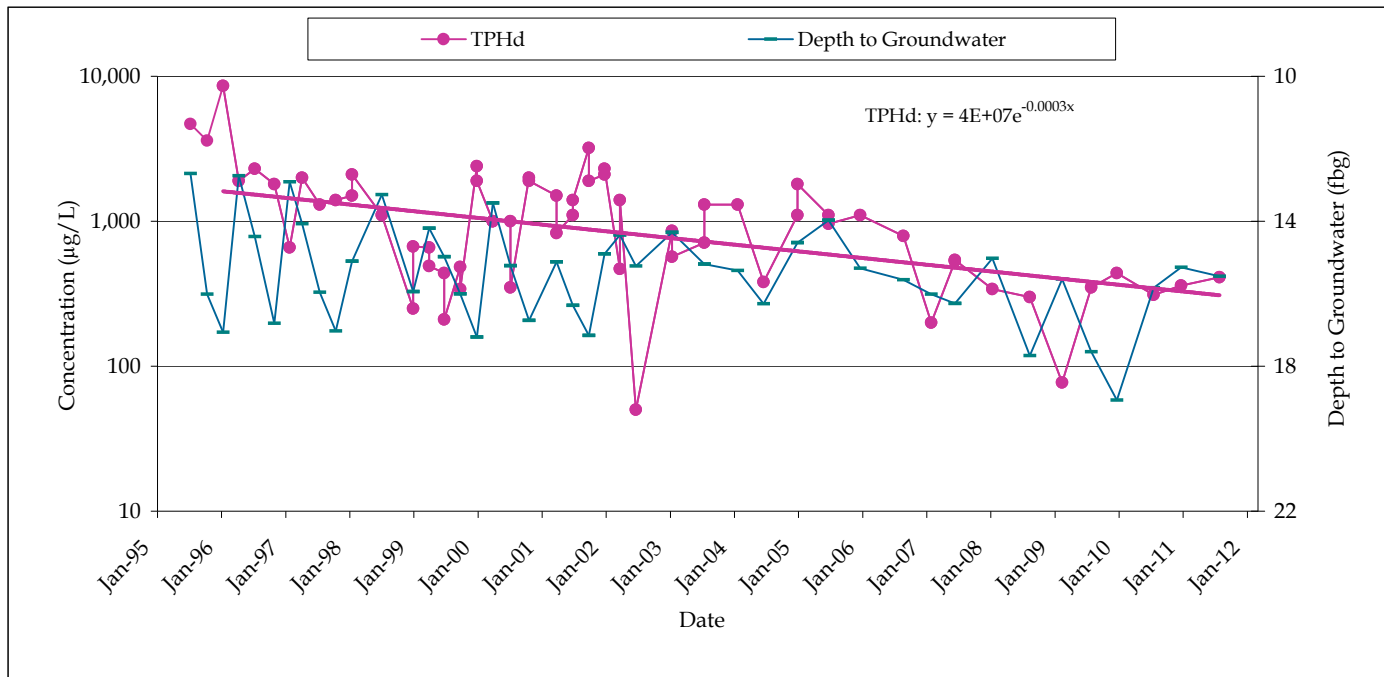
Predicted Time to Reach Water Quality Objectives (WQO) in Well U-2

Unocal Station #7176, 7850 Amador Valley Boulevard, Dublin, California

$$y = b e^{ax} \quad \implies \quad x = \ln(y/b) / a$$

where: y = concentration in $\mu\text{g/L}$ a = decay constant
 b = concentration at time (x) x = time (x) in days

Given		Constituent	Total Petroleum Hydrocarbons as Diesel (TPHd)
WQO:	y		100
Constant:	b		4.13E+07
Constant:	a		-2.89E-04
Starting date for current trend:			1/11/1996
Calculate			
Attenuation Half Life (years):	$(-\ln(2)/a)/365.25$		6.56
Estimated Date to Reach WQO:	$(x = \ln(y/b) / a)$		Apr 2022



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FIGURE D. U-2: TPHd CONCENTRATIONS AND DEPTH TO GROUNDWATER

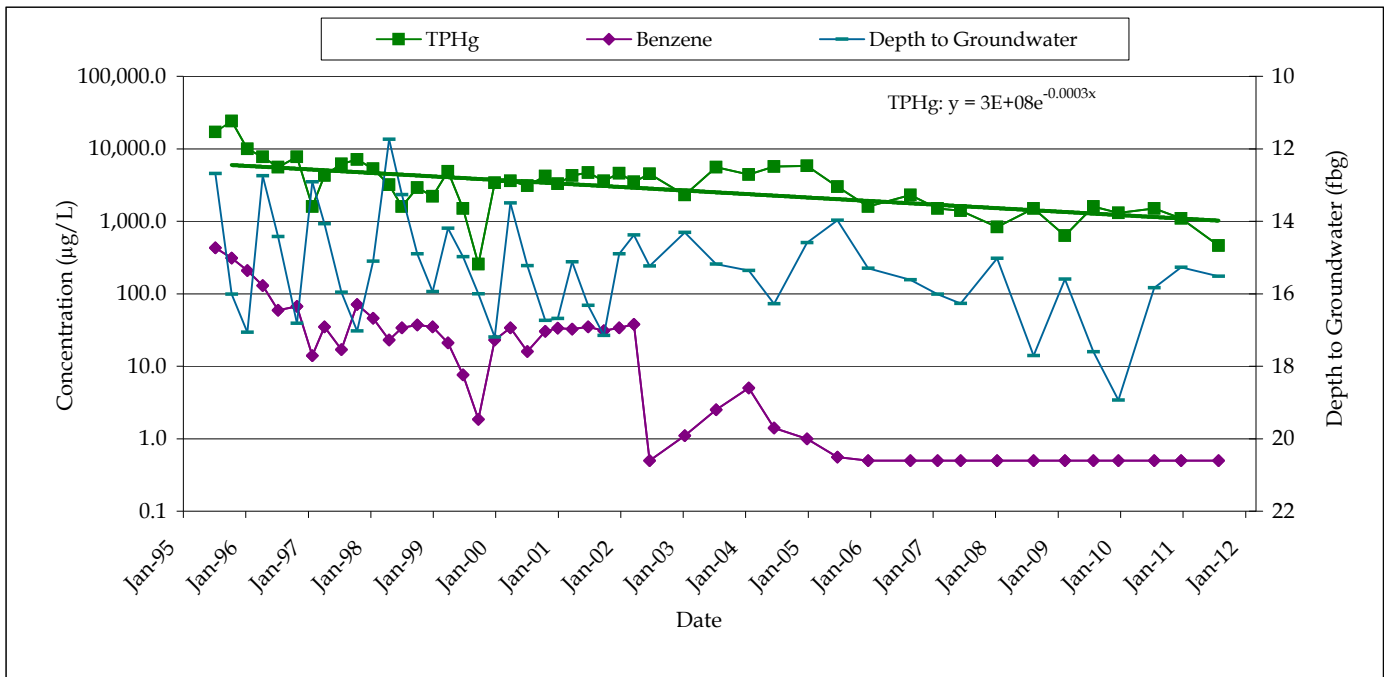
Predicted Time to Reach Water Quality Objectives (WQO) in Well U-2

Unocal Station #7176, 7850 Amador Valley Boulevard, Dublin, California

$$y = b e^{ax} \quad \implies \quad x = \ln(y/b) / a$$

where: y = concentration in $\mu\text{g/L}$ a = decay constant
 b = concentration at time (x) x = time (x) in days

		Constituent	Total Petroleum Hydrocarbons as Gasoline (TPHg)	Benzene
Given	WQO:	y	100	0.5
	Constant:	b	2.54E+08	NA
	Constant:	a	-3.05E-04	NA
	Starting date for current trend:		10/12/1995	NA
Calculate	Attenuation Half Life (years):	$(-\ln(2)/a)/365.25$	6.23	NA
	Estimated Date to Reach WQO:	$(x = \ln(y/b) / a)$	Jul 2032	AT WQO



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FIGURE E. U-2: TPHg AND BENZENE CONCENTRATIONS AND DEPTH TO GROUNDWATER

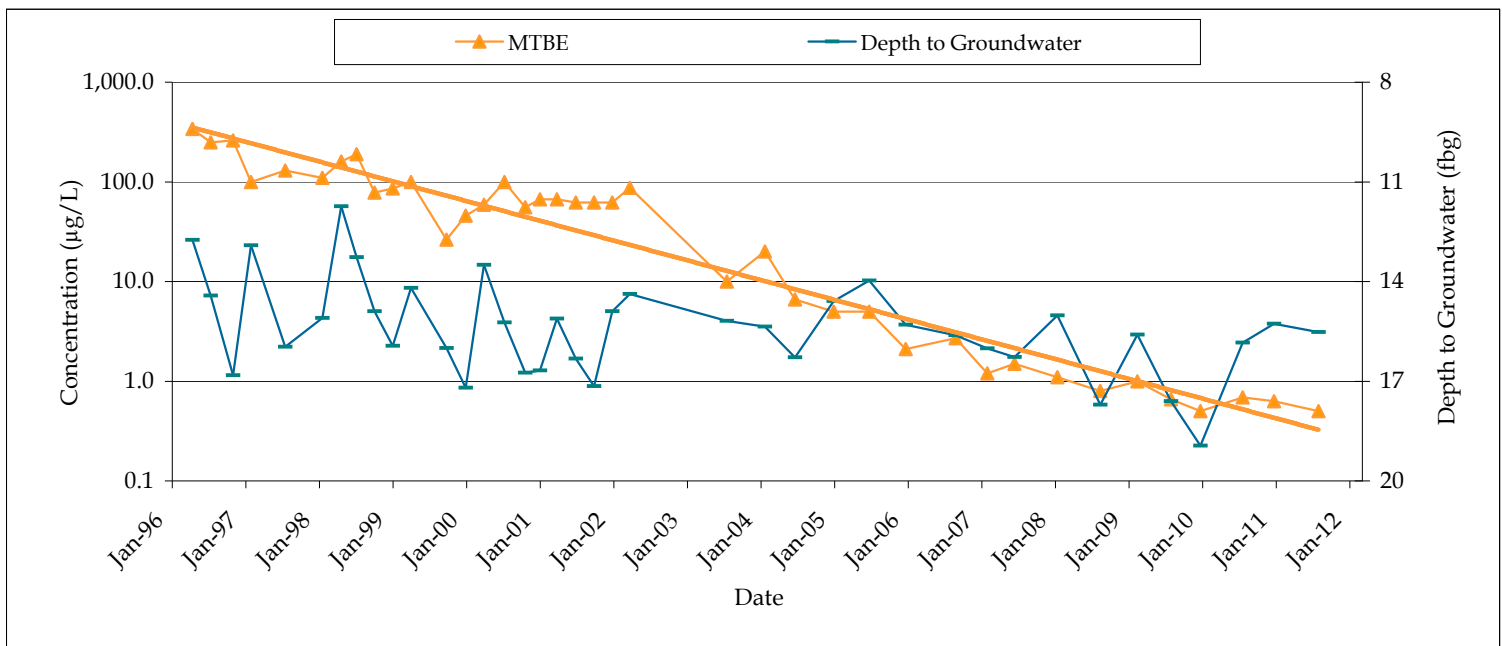
Predicted Time to Reach Water Quality Objectives (WQO) in Well U-2

Unocal Station #7176, 7850 Amador Valley Boulevard, Dublin, California

$$y = b e^{ax} \quad \implies \quad x = \ln(y/b) / a$$

where: y = concentration in $\mu\text{g/L}$ a = decay constant
 b = concentration at time (x) x = time (x) in days

Given		Constituent	Methyl Tertiary Butyl Ether (MTBE)
WQO:	y	5	
Constant:	b	NA	
Constant:	a	NA	
Starting date for current trend:		NA	
Calculate			
Attenuation Half Life (years):	$(-\ln(2)/a)/365.25$	NA	
Estimated Date to Reach WQO:	$(x = \ln(y/b) / a)$	AT WQO	



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FIGURE F. U-2: MTBE CONCENTRATIONS AND DEPTH TO GROUNDWATER