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*By Alameda County Environmental Health at 2:20 pm, Oct 30, 2014*

**Hooshang Hadjian  
2108 San Ramon Valley Blvd.  
San Ramon, CA 94583**

Mr. Barney Chan  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Re: Dublin Auto Wash**

7240 Dublin Boulevard  
Dublin, California  
ACHCSA Case No. 304

Dear Mr. Chan:

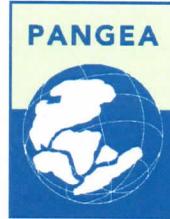
I, Mr. Hooshang Hadjian, have retained Pangea Environmental Services, Inc. (Pangea) as the environmental consultant for the project referenced above. Pangea is submitting the attached report on my behalf.

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

Sincerely,



Hooshang Hadjian



October 24, 2014

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

**Re: Workplan for Additional Assessment**

Dublin Auto Wash  
7240 Dublin Boulevard  
Dublin, California  
ACEH Case No. 304

Dear Mr. Wickham:

On behalf of Mr. Hooshang Hadjian, Pangea Environmental Services, Inc. (Pangea) has prepared this *Workplan for Additional Assessment* (Workplan) as requested in an Alameda County Environmental Health (ACEH) letter dated August 12, 2014. The purpose of the Workplan is to evaluate site conditions with respect to Low-Threat Closure Policy (LTCP) soil criteria for direct contact and outdoor air exposure, and to delineate shallow groundwater contamination north of wells MW-3A and MW-6A.

If you have any questions or comments, please call me at (510) 435-8664.

Sincerely,  
**Pangea Environmental Services, Inc.**

Bob Clark-Riddell, P.E.  
Principal Engineer

Attachment: *Workplan for Additional Assessment*

cc: Mr. Hooshang Hadjian, 2108 San Ramon Valley Blvd, San Ramon, CA 94583  
Mr. Jim Lange (electronic copy)  
Mallik (electronic copy)  
SWRCB GeoTracker (electronic copy)

**PANGEA Environmental Services, Inc.**

1710 Franklin Street, Suite 200, Oakland, CA 94612 Telephone 510.836.3700 Facsimile 510.836.3709 [www.pangeaenv.com](http://www.pangeaenv.com)



## WORKPLAN FOR ADDITIONAL ASSESSMENT

**Dublin Auto Wash  
7240 Dublin Boulevard  
Dublin, California**

**October 24, 2014**

*Prepared for:*

Mr. Hooshang Hadjian  
2108 San Ramon Valley Blvd  
San Ramon, CA 94583

*Prepared by:*

Pangea Environmental Services, Inc.  
1710 Franklin Street, Suite 200  
Oakland, California 94612

*Written by:*



  
Elizabeth DeRubeis  
Staff Geologist

  
Bob Clark-Riddell, P.E.  
Principal Engineer

**PANGEA Environmental Services, Inc.**

1710 Franklin Street, Suite 200, Oakland, CA 94612 Telephone 510.836.3700 Facsimile 510.836.3709 [www.pangeaenv.com](http://www.pangeaenv.com)

Workplan for Additional Assessment  
7240 Dublin Boulevard  
Dublin, California  
October 24, 2014

## INTRODUCTION

On behalf of Mr. Hooshang Hadjian, Pangea Environmental Services, Inc. (Pangea) has prepared this *Workplan for Additional Assessment and Soil Sampling* (Workplan) as requested in an Alameda County Environmental Health (ACEH) letter dated August 12, 2014. The purpose of the Workplan is to evaluate site conditions with respect to Low-Threat Closure Policy (LTCP) soil criteria for direct contact and outdoor air exposure, and to delineate shallow groundwater contamination north of wells MW-3A and MW-6A.

## SITE BACKGROUND

The Dublin Auto Wash retail gasoline station is located at the southwest corner of Dublin Boulevard and Village Parkway in Dublin, California (Figure 1). Currently, there are three 10,000-gallon underground storage tanks (USTs) and a carwash at the site. Land use immediately surrounding the station is commercial.

### Summary of Previous Environmental Work

#### Chevron Release – 1988 to 1996

The first environmental investigation at the site was performed in early 1988 when Chevron Products Company (Chevron), the previous owner/operator, hired EA Engineering, Science, and Technology, Inc. (EA), to conduct a soil vapor investigation at the site. The results of the soil gas survey indicated elevated levels of hydrocarbons beneath the site, especially around the southern pump island. Subsequently, groundwater monitoring wells were installed and quarterly groundwater monitoring began. In February 1989, one 5,000-gallon and two 10,000-gallon underground storage tanks (USTs) were excavated and removed from the site and replaced with three new USTs. A soil vapor extraction (SVE) system was operated between March 1992 and April 1996, removing approximately 15,000 pounds of hydrocarbons. Between 1994 and 1996, additional groundwater monitoring wells were installed and added to the quarterly monitoring program. A December 1996 Risk Based Corrective Action (RBCA) report concluded that the site is a "Low Risk" soil and groundwater petroleum release site, and ACEH subsequently approved SVE system shutdown.

#### New Release – February 1997

In February 1997, a leak in a stainless steel product line flex hose was discovered and reported to ACEH. The leak location was immediately south of the north-westernmost dispenser (dispenser No. 2). During June 1997 testing, the secondary piping failed a pressure test. Subsequently, a new product delivery system was installed to replace the existing lines. During the system modifications in July 1997, Parker Environmental Services collected soil samples via hand auger at locations B-1 through B-4. About 31 cubic yards of soil were removed from the release area to a depth of 8 feet bgs. The results of subsequent groundwater monitoring events in

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December 1998 and March 1999 indicated free product was present in well MW-3. The detection of free product in MW-3 (up to 0.1 feet thick) corresponds to the historically lowest groundwater elevation observed during site monitoring activities, when the depth to groundwater in well MW-3 was 12.92 feet in December 1998.

Gettler-Ryan, Inc. (GRI), a subcontractor of Chevron, monitored the eight existing groundwater monitoring wells at the site until the first quarter of 2003. In 2003, SOMA began performing groundwater monitoring at the site on behalf of Mr. Hadjian. SOMA noted groundwater apparently flowed from offsite wells MW-4 and MW-5 toward the site in the approximate southeast direction, while groundwater at the eastern portion of the site apparently flowed in the northeast direction. SOMA believed the groundwater flow direction may have been affected by the 18" diameter vitrified clay pipe (VCP) sewer line running beneath the southern portion of Dublin Boulevard immediately north of the site. Information provided by Gettler-Ryan indicated that the top of the sanitary sewer line was approximately 16 feet below grade surface (bgs), while the depth to water in nearby wells MW-1 and MW-3 has ranged from approximately 11 to 13 ft bgs.

In 2003, SOMA also conducted further characterization and remediation activities at the site. SOMA advanced seven shallow soil borings using hand augers (B-1 through B-8), nine soil borings using a Geoprobe™ direct push rig, and one soil boring using a drill rig equipped with hollow stem augers. Initially, the Geoprobe borings were intended to be used for cone penetrometer testing (CPT) to log the borings; however, due to subsurface conditions the borings were logged using electric conductivity sensors. The direct push borings included collection of discrete depth groundwater samples to assess the vertical extent of contamination.

SOMA's investigation confirmed that contaminant concentrations were highest near the northern central portion of the site, and concluded that the 18" diameter sewer line located immediately north of the site is intercepting groundwater contamination. Fill material around the sewer line could be acting as a preferential pathway for the contamination conveyance to the east and then southeast, the sewer flow directions. SOMA also found contamination in deeper groundwater. SOMA concluded that there are three relatively higher permeability zones on the site acting as water bearing zones – Shallow (10 – 15 to 19 – 23 feet bgs), Middle (19 – 23 to 32 – 36 feet bgs), and Deep (32 – 36 to 43 – 47 feet bgs) – with an Upper Shallow zone (at approximately 2 to 6 feet bgs) noted in a few of the borings. In several locations, an insufficient amount of water was present in the potential water bearing zones, so no groundwater samples were obtained by SOMA. Since wells EA-1, EA-2, EA-3, and MW-1 are screened across the various water bearing zones at the site, SOMA recommended that these wells be destroyed to prevent them from acting as vertical conduits for the migration of the contaminants. SOMA also recommended that wells be installed in the Shallow, Middle, and Deep zones at the site to determine the groundwater flow directions in the various zones.

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In November 2004, Pangea Environmental Services, Inc. (Pangea) of Oakland, California, assumed the lead role as consultant for Mr. Hadjian. During first, second and fourth quarters of 2005 and the first quarter 2006 groundwater monitoring events free product was observed in well MW-3.

In February 2005, Pangea prepared a soil and groundwater investigation workplan, which included an evaluation of local and regional geology and hydrogeology, a review of soil and groundwater sampling data from the site (including detailed cross sections), a conduit study, and a sensitive receptor survey to assess potential impacts to wells and surface water bodies. The closest water supply well was identified approximately 1,900 feet southwest of the site, and was not considered to be potentially impacted by site contamination. The adjacent flood control channel is the only nearby surface water body that could potentially be impacted by site contamination. The workplan recommended installing borings along the sanitary sewer line in Dublin Boulevard and destruction of select wells screened across multiple water-bearing zones. The workplan also recommended installation of new monitoring wells within the multiple water-bearing zones and implementation of interim remediation using vacuum extraction to remove groundwater and free product from selected site wells. During subsequent correspondence, ACEH requested installation of a soil boring (SB-2) downgradient of the 1997 release.

During workplan implementation in March through May 2006, Pangea installed fourteen monitoring wells (MW-3A, MW-6A, MW-6B, MW-7AA, MW-7A, MW-7B, MW-7C, MW-8A, MW-9A, MW-9C, MW-10A, MW-10C and MW-11C) to help define the vertical and lateral extent of groundwater contamination. Pangea abandoned wells EA-1, EA-2, EA-3 and MW-3 to reduce the risk of vertical contaminant migration and improve the quality of monitoring data. Pangea drilled three soil borings (SB-1, SB-1A and SB-2) to help evaluate subsurface conditions downgradient of the 1997 release and north of the site, and the potential for contamination migration along the 18-inch sanitary sewer line in Dublin Boulevard. Soil borings SB-1 was located near the intersection of Dublin Boulevard and Village Parkway and boring SB-1A was located approximately 3 ft south of SB-1. Results are detailed in the August 11, 2006 Site Investigation Report prepared by Pangea.

In July 2006, Pangea conducted vacuum extraction from well MW-3A and MW-7AA using a vacuum truck. The vacuum extraction was conducted to provide cost-effective removal of source area material and additional information about subsurface conditions. The results of the vacuum extraction led Pangea to recommend conducting *short-term feasibility testing/source removal* on key site wells (MW-3A, MW-7AA, MW-7A, MW-6A) detailed in the August 11, 2006 *Site Investigation Report*. ACEH approved the proposed feasibility testing and requested a corrective action plan (CAP) in a letter dated November 9, 2007. The ACEH letter also approved discontinuance of groundwater monitoring of C-zone wells, because monitoring data suggested the C-zone was not impacted.

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In November 2007, Pangea conducted a five-day dual-phase extraction (DPE) test (and interim remediation event) to evaluate the effectiveness of DPE as remedial technique and to provide additional source removal. On December 9, 2008, Pangea submitted an *Interim Remediation Report and Corrective Action Plan* (CAP) describing DPE testing and proposing short-term dual phase extraction (DPE) as the most appropriate and cost-effective technique for site remediation. In a letter dated January 16, 2009, ACEH approved short-term DPE for additional source removal to help facilitate case closure.

In July 2009 Pangea installed two dual-phase extraction (DPE) wells to facilitate implementation of the approved DPE corrective action plan (CAP). Wells DPE-1 and DPE-2 were constructed of 4-inch diameter and screened from 9 to 14 feet bgs. Details of the DPE well installation are described in Pangea's *Remediation Well Installation Report* dated December 16, 2009.

To remediate the small localized impact area, DPE was conducted between September 15, 2010 and November 15, 2010 until low contaminant removal rates were observed. The DPE system operated for a total of about 1,189 hours (approximately 50 days). Laboratory analytical data indicates that the system removed a total of approximately 443 lbs TPHg and 3.8 lbs benzene in vapor phase, and 0.4 lbs TPHg, 0.01 lbs benzene and 0.25 lbs MTBE in aqueous phase. The DPE system was shut down on November 15, 2010 due to low contaminant removal rates, the small localized extent of site contamination, the commencement of the winter rainy season, and cost control. DPE operation was very costly due to high energy costs, because PG&E could not provide electrical service before the rainy season and PG&E required very costly re-engineering of the existing electrical service (\$20,000 or more). The utilized DPE equipment required diesel fuel and a diesel generator to power the vacuum pump and required propane as supplementary fuel for the oxidizer.

On May 28, 2013, Pangea and ACEH met to discuss site conditions with respect to the State Water Resources Control Board's recently adopted *Low Threat Closure Policy* (LTCP). Following the meeting the ACEH issued a May 28, 2013 directive letter determining that the site fails to meet select LTCP general and media-specific criteria. ACEH expressed concerns about potential submerged free product, the appropriateness of existing well screen intervals, and the adjacent sanitary sewer that could act as a preferential pathway for hydrocarbon migration.

As directed, Pangea implemented the enhanced bioremediation pilot test proposed in the *Enhanced Bioremediation Pilot Test Workplan* dated June 14, 2013. The pilot test was performed to help determine if residual free product persists at the site, and if bioremediation techniques could accelerate attenuation of source area hydrocarbons. BOC injection did not increase hydrocarbon concentrations or hydrocarbon recovery within source area wells MW-3A and MW-6A. This suggests that there is no significant mass of residual free product at the site. While residual BOC (<0.15%) was present in source area wells MW-3A and MW-6A, no migration

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of BOC or hydrocarbons to nearby wells MW-7A and MW-7AA was observed during subsequent well monitoring.

## **PROPOSED INVESTIGATION**

To evaluate site conditions and assess data gaps, Pangea recommended borings in the *Conceptual Site Model* dated June 23, 2014. In a letter dated August 12, 2014 (Appendix A), ACEH requested a workplan to assess areas where elevated concentrations of petroleum hydrocarbons have been detected historically and to help delineate shallow groundwater contamination north of wells MW-3A and MW-6A. The proposed investigation involves drilling two onsite borings to approximately 10 ft depth and drilling three offsite borings to first encountered groundwater (anticipated between 11 and 17 ft bgs).

### **Task 1 - Pre-Field Activities**

Prior to initiating field activities, Pangea will conduct the following tasks:

- Obtain encroachment and excavation permits from the City of Dublin and drilling permits from Zone 7 Water Agency as necessary ;
- Pre-mark the boring locations with white paint, notify Underground Service Alert (USA) of the drilling and sampling activities at least 72 hours before work begins, and conduct private line locating as merited;
- Prepare a site-specific health and safety plan to educate personnel and minimize their exposure to potential hazards related to site activities; and
- Coordinate with drilling and laboratory subcontractors and other involved parties.

### **Task 2 – Soil Borings**

Pangea proposes two onsite soil borings (SB-3 and SB-4) to evaluate soil conditions with respect to LTCP criteria. Pangea proposes three offsite borings (SB-5 through SB-7) to assess the lateral extent of groundwater contamination. Proposed boring locations are shown on Figure 2. At each boring location, soil samples will be collected approximately every four feet. For the three offsite borings, grab groundwater samples will be collected from first-encountered groundwater.

Pangea will conduct drilling using a direct-push sampling rig. The direct-push sampling rig will be equipped with a hydraulic hammer and steel drive rods to advance the borings to total depth. With hydraulic-push

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drilling, continuous soil collection is conducted using acetate liners and samples are typically collected on four foot intervals. Soil samples will be obtained by cutting 6-inch subsections, trimming the excess soil from the ends, and capping the ends with Teflon® tape and plastic end caps. Additional soil samples may be collected near the water table and at lithologic changes. The soil will be classified according to the Unified Soil Classification System (USCS) and screened for field indications of petroleum hydrocarbons using visual and olfactory observations.

All site investigation activities will be performed under the supervision of a California Registered Civil Professional Engineer (P.E.). Additional soil and assessment procedures are presented in our Standard Operating Procedures (SOPs) in Appendix B.

Select groundwater and select soil samples will be analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015Cm; and benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl-tertiary butyl ether (MTBE) by EPA Method 8021B. To satisfy LTCP requirements, select samples will also be analyzed for naphthalene by EPA Method 8260.

#### **Task 4 – Waste Management and Disposal**

Soil cuttings and other investigation-derived waste will be stored onsite in Department of Transportation (DOT)-approved 55-gallon drums. The drums and their contents will be held onsite pending laboratory analytical results. Upon receipt of the analytical reports, the waste will be transported to an appropriate disposal/recycling facility.

#### **Task 5 – Report Preparation**

Upon completion of assessment activities, Pangea will prepare a technical report. The report will describe the investigation activities, present tabulated analytical data, and offer conclusions and recommendations.

### **ATTACHMENTS**

Figure 1 – Vicinity Map

Figure 2 – Proposed Boring Location Map

Table 1 – Soil Analytical Data

Table 2 – Groundwater Analytical Data

Appendix A – Regulatory Letter

Appendix B – Standard Operating Procedures

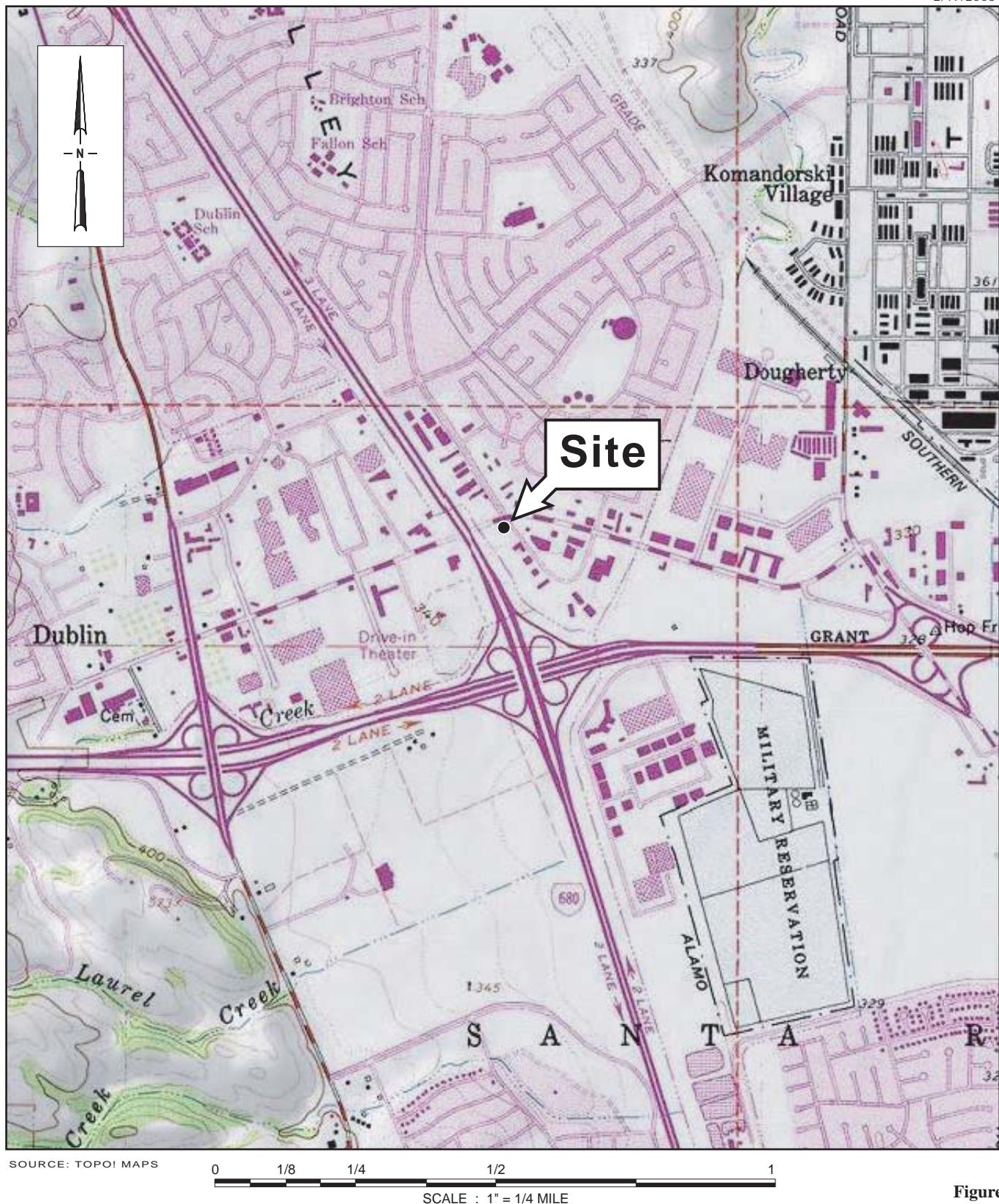
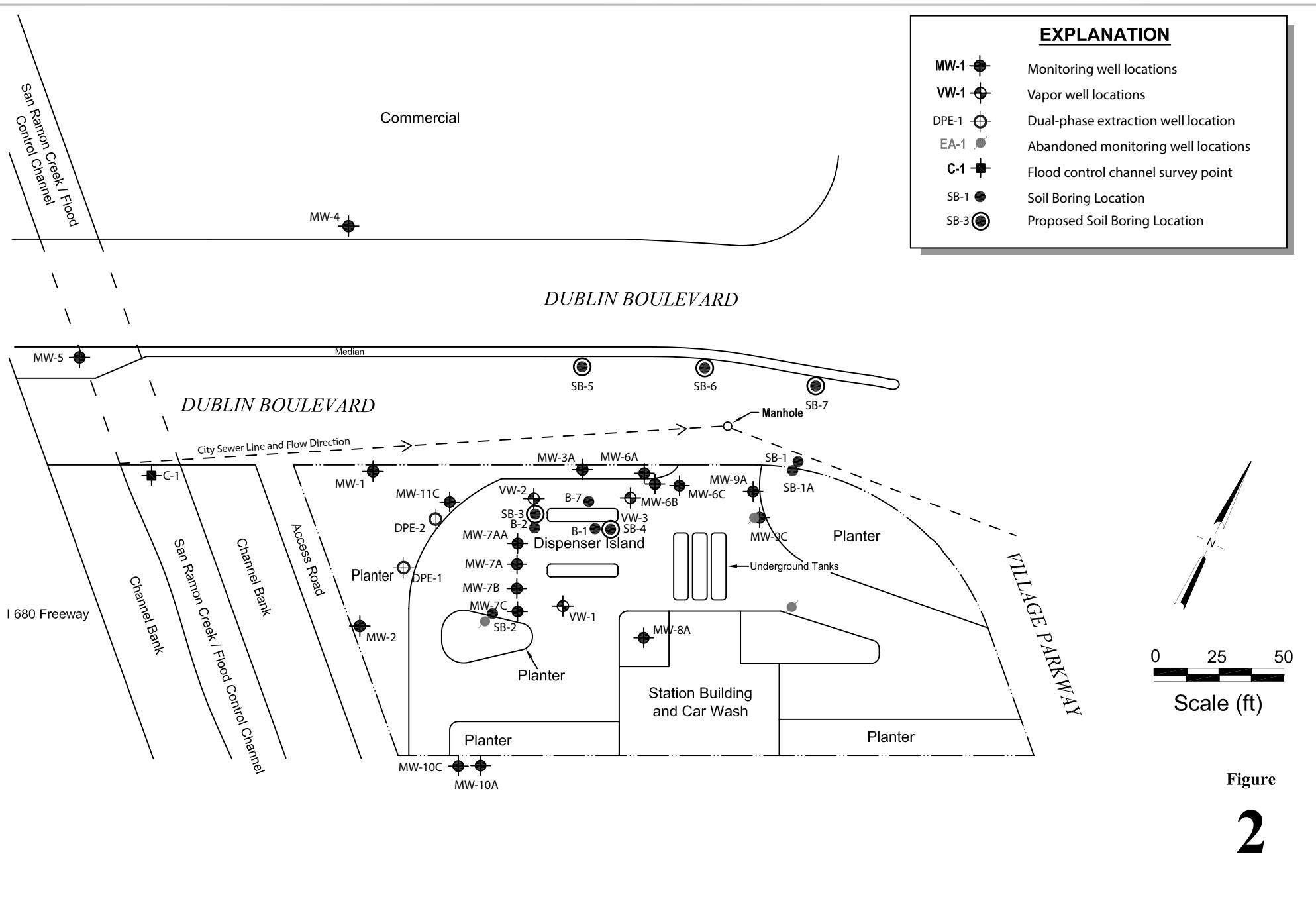


Figure  
**1**

Dublin Auto Wash  
7240 Dublin Boulevard  
Dublin, California



Site Location Map



**Dublin Auto Wash**  
7240 Dublin Boulevard  
Dublin, California

 **PANGEA**

**Proposed Soil Boring Locations**

# Pangea

**Table 1. Soil Analytical Results - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA**

Boring/Well ID	Consultant	Date Sampled	Sample Depth (feet)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene mg/kg	MTBE	TAME	TBA	Ethanol	Notes
Final ESL - Commercial, Drinking Water Resource				83	0.044	2.9	3.3	2.3	1.2	0.023	NE	0.075	NE	
LTCP Commercial/Industrial Criteria (0 to 5 feet bgs)				--	8.2	--	89	--	45	--	--	--	--	
LTCP Commercial/Industrial Criteria (5 to 10 feet bgs)				--	12	--	134	--	45	--	--	--	--	

## WELL INSTALLATION & SOIL BORINGS - 2006

<b>MW-3A-10</b>	PANGEA	3/30/2006	10	<b>1,500</b>	<b>2.4</b>	<b>5.2</b>	<b>19</b>	<b>83</b>	--	<10 ( <b>0.54</b> )	<0.33	<3.3	--
<b>MW-3A-15</b>	PANGEA	3/30/2006	15	<b>140</b>	<b>2.3</b>	2.6	2.4	<b>16</b>	--	<b>2.7 (2.6)</b>	<0.10	<1.0	--
<b>MW-6C-5</b>	PANGEA	3/30/2006	5	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--
<b>MW-6C-10</b>	PANGEA	3/30/2006	10	50	0.024	0.072	0.13	<b>1.5</b>	--	<0.05	--	--	--
<b>MW-6C-15</b>	PANGEA	3/30/2006	15	<b>130</b>	<b>0.61</b>	0.29	1.4	<b>9.3</b>	--	<0.50 ( <b>0.050</b> )	<0.020	<0.20	--
<b>MW-7B-5</b>	PANGEA	3/29/2006	5	<1.0	<0.005	<0.005	<0.005	<0.005	--	<b>0.17 (0.11)</b>	<0.005	<0.05	--
<b>MW-7B-11</b>	PANGEA	3/29/2006	11	<b>1,800</b>	<b>7.8</b>	<b>14</b>	<b>30</b>	<b>170</b>	--	<b>16 (13)</b>	<0.50	<5.0	--
<b>MW-8A-5</b>	PANGEA	5/17/2006	5	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--
<b>MW-8A-10</b>	PANGEA	5/17/2006	10	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--
<b>MW-8A-15</b>	PANGEA	5/17/2006	15	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--
<b>MW-9A-5</b>	PANGEA	4/3/2006	5	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--
<b>MW-9A-10</b>	PANGEA	4/3/2006	10	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--
<b>MW-9A-15</b>	PANGEA	4/3/2006	15	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--
<b>MW-10C-5</b>	PANGEA	3/27/2006	5	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--
<b>MW-10C-10</b>	PANGEA	3/27/2006	10	17	<b>0.14</b>	0.063	0.46	1.3	--	<0.05	--	--	--
<b>MW-10C-15</b>	PANGEA	3/27/2006	15	<1.0	<0.005	<0.005	0.0065	0.023	--	<0.05	--	--	--
<b>MW-11C-5</b>	PANGEA	3/28/2006	5	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--
<b>MW-11C-11</b>	PANGEA	3/28/2006	11	<b>700</b>	<b>1.4</b>	<b>12</b>	<b>14</b>	<b>65</b>	--	<10 ( <b>3.1</b> )	<0.33	<3.3	--
<b>MW-11C-15</b>	PANGEA	3/28/2006	15	<1.0	<0.005	0.023	0.014	0.073	--	<b>1.0 (0.80)</b>	<0.033	<b>0.41</b>	--
<b>SB-1-7</b>	PANGEA	5/18/2006	7	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--
<b>SB-1-11</b>	PANGEA	5/18/2006	11	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--
<b>SB-1-14</b>	PANGEA	5/18/2006	14	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--
<b>SB-1A-15</b>	PANGEA	5/18/2006	15	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--
<b>SB-2-5</b>	PANGEA	5/18/2006	5	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--
<b>SB-2-10</b>	PANGEA	5/18/2006	10	<b>790</b>	<1.0	<b>2.9</b>	<b>10</b>	<b>58</b>	--	<10	--	--	--
<b>SB-2-15</b>	PANGEA	5/18/2006	15	<b>310</b>	<b>2.5</b>	2.4	<b>6.4</b>	<b>27</b>	--	<5.0	--	--	--
<b>SB-2-20</b>	PANGEA	5/18/2006	20	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--

# Pangea

**Table 1. Soil Analytical Results - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA**

Boring/Well	Consultant	Date	Sample Depth	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	MTBE	TAME	TBA	Ethanol	Notes
ID			(feet)	←					mg/kg	→				
Final ESL - Commercial, Drinking Water Resource				83	0.044	2.9	3.3	2.3	1.2	0.023	NE	0.075	NE	
LTCP Commercial/Industrial Criteria (0 to 5 feet bgs)				--	8.2	--	89	--	45	--	--	--	--	
LTCP Commercial/Industrial Criteria (5 to 10 feet bgs)				--	12	--	134	--	45	--	--	--	--	

## WELL INSTALLATION & SOIL BORINGS - HISTORICAL

EA-1	EA	10/17/1988	6.5 & 11.5	<0.05	0.0019	0.0097	<0.0005	0.0018	--	--	--	--	--	
			16	<0.05	0.0007	0.0015	<0.0005	0.0008	--	--	--	--	--	
			21	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	
EA-2	EA	10/20/1988	6	0.14	0.02	0.0013	0.0037	0.0018	--	--	--	--	--	
			11	0.11	0.0093	0.0034	0.0013	<0.0005	--	--	--	--	--	
			16	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	
			21	0.14	0.02	0.0059	0.0045	0.0043	--	--	--	--	--	
EA-3	EA	10/21/1988	6	0.086	0.0054	0.0013	0.0049	0.0024	--	--	--	--	--	
			11	0.27	0.032	0.0043	0.0067	<0.0005	--	--	--	--	--	
			16	<0.05	0.0016	0.0037	<0.0005	<0.0005	--	--	--	--	--	
			21-36	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	
B-1	WGR	3/17/1989	3-4	<0.5	0.24	<0.5	<0.5	<0.5	--	--	--	--	--	
			4.5-5.5	<0.5	0.43	<0.5	<0.5	<0.5	--	--	--	--	--	
			6.5-7.5	<0.5	0.13	<0.5	<0.5	<0.5	--	--	--	--	--	
			9.5-10.5	<0.5	0.09	<0.5	<0.5	<0.5	--	--	--	--	--	
			14.5-15.5	1.8	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
B-2	WGR	3/17/1989	3.5-4.5	NA	NA	NA	NA	NA	--	--	--	--	--	
			5.5-6.5	<0.5	0.06	<0.5	<0.5	<0.5	--	--	--	--	--	
			9.5-10.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
			14.5-15.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
B-3	WGR	3/17/1989	5.5-6.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
			3/18/1989	9.5-10.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
B-4	WGR	3/18/1989	3-4	<0.5	0.06	<0.5	<0.5	<0.5	--	--	--	--	--	
			5.5-6.5	<0.5	0.07	<0.5	<0.5	<0.5	--	--	--	--	--	
			9.5-10.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
B-5	WGR	3/18/1989	3.4	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
			5.5-6.5	<0.5	0.06	0.2	<0.5	0.1	--	--	--	--	--	
			9.5-10.5	<0.5	0.9	0.4	0.08	0.09	--	--	--	--	--	
MW-1	GTI	9/13/1994	10	ND	ND	0.0099	ND	ND	--	--	--	--	--	
			15	23	0.14	0.47	0.37	1.5	--	--	--	--	--	
MW-2	GTI	9/13/1994	10	980	2.7	19	15	78	--	--	--	--	--	
			15	ND	ND	ND	ND	ND	--	--	--	--	--	
MW-3	GTI	9/13/1994	10	2,500	0.8	4.8	5.1	120	--	--	--	--	--	
			15	37	0.21	0.48	0.32	1.5	--	--	--	--	--	
MW-4	GRI	2/22/1996	9.5	<1	<0.005	<0.005	<0.005	<0.005	--	<0.025	--	--	--	
MW-5	GRI	2/22/1996	9.5	<1	<0.005	<0.005	<0.005	<0.005	--	<0.025	--	--	--	
B-1	PES	7/14/1997	5	10	0.41	0.027	0.16	0.01	--	6	--	--	--	hand augered

# Pangea

**Table 1. Soil Analytical Results - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA**

Boring/Well	Consultant	Date Sampled	Sample Depth (feet)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	MTBE	TAME	TBA	Ethanol	Notes
ID				↔				mg/kg	↔					
Final ESL - Commercial, Drinking Water Resource				83	0.044	2.9	3.3	2.3	1.2	0.023	NE	0.075	NE	
LTCP Commercial/Industrial Criteria (0 to 5 feet bgs)				--	8.2	--	89	--	45	--	--	--	--	
LTCP Commercial/Industrial Criteria (5 to 10 feet bgs)				--	12	--	134	--	45	--	--	--	--	
				9	1,400	13	45	26	130	--	4.5	--	--	--
<b>B-2</b>	PES	7/14/1997	5	1.8	0.006	0.007	0.013	0.033	--	0.33	--	--	--	hand augered
			10	1,100	11	35	18	91	--	20	--	--	--	
<b>B-3</b>	PES	7/15/1997	7	230	2.4	2	3.8	19	--	6	--	--	--	hand augered
			10	1,000	9.8	32	17	84	--	10	--	--	--	
<b>B-4</b>	PES	7/15/1997	7	33	0.11	0.034	0.39	0.87	--	1.5	--	--	--	hand augered
			10	1,900	2.2	14	19	170	--	<4.5	--	--	--	
<b>B-1</b>	SOMA	4/23/2003	3.5-4	<0.2	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.0005	<0.1	<1	hand augered
<b>B-2</b>	SOMA	4/23/2003	3.5-4	92,000	12	560	240	1,550	--	21	20	<100	<1,000	hand augered
<b>B-3</b>	SOMA	4/23/2003	3.5-4	<0.19	<0.0043	<0.0043	<0.0043	<0.0043	--	<0.0043	<0.0043	0.086	0.86	hand augered
<b>B-4</b>	SOMA	4/23/2003	2.5-3	<0.17	<0.0042	<0.0042	<0.0042	<0.0042	--	<0.0042	<0.0042	0.083	0.83	hand augered
<b>B-5</b>	SOMA	4/23/2003	3.5-4	<0.19	<0.0047	<0.0047	<0.0047	0.0079	--	<0.0047	<0.0047	0.094	0.94	hand augered
<b>B-6</b>	SOMA	4/23/2003	2.5-3	<0.17	<0.0043	<0.0043	<0.0043	<0.0043	--	<0.0043	<0.0043	0.086	0.86	hand augered
<b>B-7</b>	SOMA	4/23/2003	3.5-4	8,700	7.7	270	170	920	--	7.1	<10	<140	<1,400	hand augered
<b>B-8</b>	SOMA	4/23/2003	4.5-7.5	9.9	0.0064	<0.0044	0.033	0.2	--	0.047	0.012	0.088	0.88	hand augered
<b>DPB-3</b>	SOMA	4/17/2003	14-15	3,500	6.6	120	43	251	--	17	--	--	--	
			18.5-19.5	<0.16	<0.0042	<0.0042	<0.0042	<0.0042	--	1.4	--	--	--	
<b>DPB-4</b>	SOMA	4/17/2003	9-10	0.2	<0.0039	<0.0039	<0.0039	<0.0039	--	0.041	--	--	--	
<b>DPB-5</b>	SOMA	4/17/2003	11-12	<0.17	<0.0041	<0.0041	<0.0041	<0.0041	--	0.0045	--	--	--	
<b>DPB-6</b>	SOMA	4/18/2003	18-18.75	<0.15	<0.004	<0.004	<0.004	<0.004	--	<0.004	--	--	--	
<b>DPB-7</b>	SOMA	4/18/2003	15.5-16.5	<0.2	<0.005	<0.005	<0.005	<0.005	--	<0.005	--	--	--	
<b>DPB-8</b>	SOMA	4/18/2003	15-16	1.2	<0.13	<0.13	<0.13	0.36	--	3.5	--	--	--	

**ABBREVIATIONS AND NOTES:**

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015M.

MTBE = Methyl tert-butyl ether by EPA Method 8020/8021. (Concentrations in parentheses are by EPA Method 8260B)

TAME = Tert-amyl methyl ether by EPA Method 8020/8021. (Concentrations in parentheses are by EPA Method 8260B)

TBA = Tert-butyl alcohol by EPA Method 8020/8021. (Concentrations in parentheses are by EPA Method 8260B)

mg/kg = milligram per kilogram

EA = EA Engineering Science and Technology Inc.

WGR = Western Geologic Resources

GTI = Groundwater Technology

GRI = Gettler-Ryan Inc.

PES = Parker Environmental Services

SOMA = SOMA Environmental Engineering Inc.

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**Table 1. Soil Analytical Results - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA**

Boring/Well ID	Consultant	Date Sampled	Sample Depth (feet)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	MTBE	TAME	TBA	Ethanol	Notes
mg/kg														
Final ESL - Commercial, Drinking Water Resource			83	<b>0.044</b>	2.9	3.3	2.3	1.2	<b>0.023</b>	NE	<b>0.075</b>	NE		
LTCP Commercial/Industrial Criteria (0 to 5 feet bgs)			--	<b>8.2</b>	--	<b>89</b>	--	<b>45</b>	--	--	--	--	--	
LTCP Commercial/Industrial Criteria (5 to 10 feet bgs)			--	<b>12</b>	--	<b>134</b>	--	<b>45</b>	--	--	--	--	--	

ESL =Environmental Screening Levels for Shallow soil with commercial/industrial land use where groundwater is a current or potential drinking water resource from Table A-2, established by SFBRWQCB, Interim Final - November 2007 (Revised February 2013).

LTCP = Low Threat Closure Policy established by the State Water Resources Control Board and adopted May 1, 2012. Direct contact and outdoor air exposure.

= Above LTCP criteria for direct contact or outdoor air exposure (based on depth of sample).

-- = Not analyzed

< = Not detected at or above indicated detection limit

**Bold** = Analytical results at or above the final ESL

NE = Not established

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# Pangea

**Table 2. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA**

Well ID TOC Elev (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
µg/L											
<b>Surface Water (Flood Control Channel)</b>											
<b>C-1</b> 332.89	08/17/06	11.60	321.29	--	--	--	--	--	--	--	Gauge data - flood control channel
	11/24/06	12.10	320.79	--	--	--	--	--	--	--	
	02/21/07	12.10	320.79	--	--	--	--	--	--	--	
	05/15/07	12.05	320.84	--	--	--	--	--	--	--	
	08/28/07	11.90	320.99	--	--	--	--	--	--	--	
	12/21/07	12.16	320.73	--	--	--	--	--	--	--	
	02/26/08	12.21	320.68	--	--	--	--	--	--	--	
	05/21/08	12.40	320.49	--	--	--	--	--	--	--	
	08/13/08	11.95	320.94	--	--	--	--	--	--	--	
	11/13/08	12.40	320.49	--	--	--	--	--	--	--	
	02/06/09	12.02	320.87	--	--	--	--	--	--	--	
	05/28/09	11.98	320.91	--	--	--	--	--	--	--	
	08/13/09	12.01	320.88	--	--	--	--	--	--	--	
	11/24/09	11.92	320.97	--	--	--	--	--	--	--	
	02/11/10	11.95	320.94	--	--	--	--	--	--	--	
	06/04/10	11.98	320.91	--	--	--	--	--	--	--	
	08/12/10	11.94	320.95	--	--	--	--	--	--	--	
	11/30/10	11.68	321.21	--	--	--	--	--	--	--	
	02/21/11	10.27	322.62	--	--	--	--	--	--	--	
	05/17/11	12.02	320.87	--	--	--	--	--	--	--	
	08/03/11	12.10	320.79	--	--	--	--	--	--	--	
	02/15/12	12.51	320.38	--	--	--	--	--	--	--	
	08/25/12	10.33	322.56	--	--	--	--	--	--	--	
	02/26/13	12.27	320.62	--	--	--	--	--	--	--	
	12/31/13	12.38	320.51	--	--	--	--	--	--	--	
	04/24/14	13.21	319.68	--	--	--	--	--	--	--	
	<b>09/16/14</b>	<b>12.05</b>	<b>320.84</b>	--	--	--	--	--	--	--	
<b>Vapor Wells</b>											
<b>VW-1</b> 330.43	02/21/06	7.95	322.48	860	120	1.4	32	4.4	390 (440)	1.97	
	06/01/06	7.89	322.54	1,100	92	2.2	11	1.4	600 (550)	0.11	TAME=12µg/L, TBA,DIPE,ETBE=ND
	07/07/06	7.71	322.72	--	--	--	--	--	--	--	
	08/17/06	7.65	322.78	--	--	--	--	--	--	0.07	
	11/24/06	7.75	322.68	Insufficient Water to Sample					0.48		
	02/21/07	7.81	322.62	620	52	4.3	<0.5	2.7	340	0.22	
	05/15/07	7.94	322.49	2,000	270	6.4	1.2	15	720	0.10	
	08/28/07	8.07	322.36	2,400	400	4.6	<0.5	23	610	0.27	
	12/21/07	8.20	322.23	Insufficient Water to Sample							
	02/26/08	8.20	322.23	Insufficient Water to Sample							
	05/21/08	8.21	322.22	Insufficient Water to Sample							
	08/13/08	8.27	322.16	Insufficient Water to Sample							
	11/13/08	5.97	324.46	<50	<0.5	<0.5	<0.5	<0.5	46	1.10	
	02/06/09	6.04	324.39	<50	<0.5	<0.5	<0.5	<0.5	80	0.97	
	05/28/09	6.30	324.13	--	--	--	--	--	--	--	
	08/13/09	6.61	323.82	--	--	--	--	--	--	--	
	11/24/09	6.99	323.44	--	--	--	--	--	--	--	
	02/11/10	7.30	323.13	<50	<0.5	<0.5	<0.5	<0.5	29	1.16	
	06/04/10	6.00	324.43	--	--	--	--	--	--	--	
	08/12/10	6.30	324.13	--	--	--	--	--	--	--	
	11/30/10	6.95	323.48	--	--	--	--	--	--	--	
	02/21/11	7.25	323.18	<50	<0.5	<0.5	<0.5	<0.5	15	0.93	
	05/17/11	5.72	324.71	--	--	--	--	--	--	--	
	08/03/11	7.08	323.35	--	--	--	--	--	--	--	
	02/15/12	7.22	323.21	<50	<0.5	<0.5	<0.5	<0.5	13	1.03	
	08/25/12	7.85	322.58	--	--	--	--	--	--	--	
	02/26/13	6.48	323.95	<50	<0.5	<0.5	<0.5	<0.5	11	1.7	
	12/31/13	6.39	324.04	--	--	--	--	--	--	2.53	
	04/24/14	6.11	324.32	<50	<0.5	<0.5	<0.5	<0.5	8.6	0.12	
	<b>09/16/14</b>	<b>6.98</b>	<b>323.45</b>	--	--	--	--	--	--	--	
<b>VW-2</b> 330.17	02/21/06	6.01	324.16	1,600	150	2.7	55	20	1,700 (1,600)	1.97	
	06/01/06	6.17	324.00	1,500	140	3.3	24	19	1,600 (1,600)	0.29	TAME, TBA, DIPE, ETBE=ND
	07/07/06	7.02	323.15	--	--	--	--	--	--	--	
	08/17/06	7.23	322.94	--	--	--	--	--	--	0.14	
	11/24/06	5.55	324.62	<50	5.7	<0.5	<0.5	<0.5	260	0.20	
	02/21/07	6.22	323.95	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.42	
	05/15/07	7.54	322.63	430	40	1.5	<0.5	1.0	470	0.28	
	08/28/07	7.82	322.35	1,200	170	5.0	<0.5	20	160	0.35	
	12/21/07	4.44	325.73	<50	<0.5	<0.5	<0.5	<0.5	100	0.70	
	02/26/08	4.56	325.61	<50	<0.5	<0.5	<0.5	<0.5	21	0.75	
	05/21/08	7.65	322.52	300	28	1.7	<0.5	0.97	<45	0.71	
	08/13/08	7.92	322.25	Insufficient Water to Sample					1.58		
	11/13/08	5.96	324.21	<50	8.0	<0.5	<0.5	<0.5	53	0.97	
	02/06/09	6.06	324.11	<50	<0.5	<0.5	<0.5	<0.5	38	0.95	

# Pangea

**Table 2. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA**

Well ID TOC Elev (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
↔ µg/L →											
VW-2 ( <i>cont'd</i> )	05/28/09	6.90	323.27	--	--	--	--	--	--	--	--
	08/13/09	7.52	322.65	--	--	--	--	--	--	--	--
	11/24/09	6.28	323.89	--	--	--	--	--	--	--	--
	02/11/10	5.65	324.52	<50	<0.5	<0.5	<0.5	<0.5	39	0.91	
	06/04/10	5.72	324.45	--	--	--	--	--	--	--	--
	08/12/10	1.50	328.67	--	--	--	--	--	--	--	--
	11/30/10	2.46	327.71	--	--	--	--	--	--	--	--
	02/21/11	4.06	326.11	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.03	
	05/17/11	3.58	326.59	--	--	--	--	--	--	--	--
	08/03/11	7.01	323.16	--	--	--	--	--	--	--	--
	02/15/12	4.62	325.55	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.62	
	08/25/12	6.89	323.28	--	--	--	--	--	--	--	--
	02/26/13	6.30	323.87	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.7	
	12/31/13	6.00	324.17	--	--	--	--	--	--	0.42	
	04/24/14	6.53	323.64	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.00	
	<b>09/16/14</b>	<b>7.60</b>	<b>322.57</b>	--	--	--	--	--	--	--	
<b>VW-3</b> <b>330.49</b>	02/21/06	6.10	324.39	8,900	390	29	490	650	<50	2.28	
	06/01/06	6.22	324.27	5,900	230	4.5	270	63	<35 (15)	0.21	TAME, TBA, DIPE, ETBE=ND
	07/07/06	4.44	326.05	--	--	--	--	--	--	--	--
	08/17/06	4.40*	326.09	4,200	120	1.7	39	30	<25	0.10	
	11/24/06	6.15	324.34	7,600	310	9.9	270	420	<50	0.21	
	02/21/07	6.87	323.62	8,800	260	5.1	130	160	<90	0.29	
	05/15/07	7.13	323.36	5,600	270	6.9	110	110	<90	0.36	
	08/28/07	7.41	323.08	10,000	320	5.9	150	140	84	0.39	
	12/21/07	6.28	324.21	3,900	140	1.9	54	29	<50	0.66	
	02/26/08	6.09	324.40	5,600	270	4.5	68	130	<90	0.69	
	05/21/08	6.46	324.03	3,800	210	3.0	32	47	56	0.77	
	08/13/08	6.93	323.56	9,300	400	4.8	87	60	100	0.59	
	11/13/08	7.45	323.04	13,000	600	9.6	220	120	170	2.79	
	02/06/09	7.41	323.08	9,400	300	9.1	140	230	<150	2.16	
	05/28/09	5.93	324.56	--	--	--	--	--	--	--	
	08/13/09	6.40	324.09	--	--	--	--	--	--	--	
	11/24/09	6.75	323.74	--	--	--	--	--	--	--	
	02/11/10	6.08	324.41	4300	280	3.7	52	80	<120	1.77	
	06/04/10	6.41	324.08	--	--	--	--	--	--	--	
	08/12/10	6.51	323.98	--	--	--	--	--	--	--	
	11/30/10	8.22	322.27	--	--	--	--	--	--	--	
	02/21/11	7.45	323.04	650	2.0	<0.5	<0.5	87	160	1.25	
	05/17/11	7.51	322.98	--	--	--	--	--	--	--	
	08/03/11	7.36	323.13	--	--	--	--	--	--	--	
	02/15/12	--	--				Well Dry				
	08/25/12	8.36	322.13	--	--	--	--	--	--	--	
	02/26/13	5.56	324.93	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.1	
	12/31/13	5.68	324.81	--	--	--	--	--	--	1.85	
	04/24/14	--	--				Well Dry				
	<b>09/16/14</b>	<b>--</b>	<b>--</b>				<b>Well Dry</b>				
<b>Upper Shallow (AA-Zone) Wells</b>											
<b>DPE-1</b> <b>331.01</b>	08/13/09	10.55	--	25,000	240	160	530	3,900	2,000	--	
	08/12/10	10.20	--	7,900	150	17	110	1,000	1,500	1.12	
	11/30/10	10.47	320.54	760	18	1.6	25	87	460	0.97	
	02/21/11	9.91	321.10	1,100	29	1.1	5.3	97	540	0.73	
	05/17/11	10.21	320.80	1,200	31	2.4	62	65	670	0.69	
	08/03/11	10.28	320.73	1,400	54	1.7	160	42	680	0.73	
	02/15/12	10.71	320.30	770	18	2.2	20	37	250	0.69	
	08/25/12	10.21	320.80	690	26	0.95	27	78	270	0.86	
	02/26/13	10.42	320.59	380	16	2.3	9.8	49	160	2.6	
	12/31/13	10.42	320.59	130	2.7	1.6	<0.5	0.75	180	0.81	
	04/24/14	10.40	320.61	<50	<0.5	0.69	<0.5	<0.5	51	1.06	
	<b>09/16/14</b>	<b>10.45</b>	<b>320.56</b>	<b>61</b>	<b>0.68</b>	<b>0.61</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>140</b>	<b>1.04</b>	
<b>DPE-2</b> <b>331.42</b>	08/13/09	11.06	--	6,600	8.8	<2.5	<2.5	710	28	--	
	08/12/10	10.49	--	680	6.1	4.7	<0.5	1.4	38	1.74	
	11/30/10	10.63	320.79	210	3.5	1.7	0.70	1.8	<25	1.40	
	02/21/11	9.83	321.59	<50	<0.5	<0.5	<0.5	<0.5	8.0	1.12	
	05/17/11	10.50	320.92	320	2.4	1.5	12	3.0	<15	1.34	
	08/03/11	10.62	320.80	840	4.5	3.5	24	5.4	<15	0.62	
	02/15/12	11.19	320.23	290	3.2	4.5	<0.5	1.1	<25	0.79	
	08/25/12	10.57	320.85	390	3.3	5.0	2.8	0.79	<10	0.97	
	02/26/13	10.83	320.59	210	1.7	5.5	<0.5	<0.5	<5.0	2.7	
	12/31/13	10.65	320.77	380	3.1	6.4	11	4.1	<10	0.65	
	04/24/14	10.66	320.76	140	<0.5	4.2	<0.5	<0.5	<5.0	0.00	
	<b>09/16/14</b>	<b>10.95</b>	<b>320.47</b>	<b>120</b>	<b>0.86</b>	<b>2.4</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;5.0</b>	<b>0.91</b>	Naphthalene = <0.5 µg/L

# Pangea

**Table 2. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA**

Well ID TOC Elev (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Dissolved					Notes
					Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	
<b>MW-7AA</b> <i>330.67</i>	05/31/06	9.18	321.49	12,000	1,000	410	180	1,600	23,000 (21,000)	0.44
	07/07/06	9.15	321.52	--	--	--	--	--	--	--
	08/17/06	8.75	321.92	25,000	2,200	210	780	1,400	36,000(42,000)	0.24
	11/24/06	9.84	320.83	27,000	3,400	1,100	1,300	3,400	37,000	0.33
	02/21/07	9.60	321.07	18,000	2,400	670	200	2,800	41,000	0.58
	05/15/07	10.20	320.47	11,000	1,500	200	520	1,100	47,000	0.49
	08/28/07	10.20	320.47	4,500	720	13	73	100	18,000	0.33
	12/21/07	10.09	320.58	3,700	550	32	74	330	12,000	0.58
	02/26/08	8.96	321.71	5,400	970	7.2	320	100	15,000	0.74
	05/21/08	10.28	320.39	22,000	2,700	19	940	440	28,000	0.71
	08/13/08	10.38	320.29	3,900	510	<5.0	150	42	15,000	0.77
	11/13/08	10.35	320.32	8,000	1,100	20	290	280	19,000	0.80
	02/06/09	10.31	320.36	11,000	1,200	37	500	800	13,000	0.79
	05/28/09	10.05	320.62	7,600	1,100	34	390	870	6,100	0.73
	08/13/09	10.15	320.52	3,200	690	5.4	54	92	10,000	0.87
	11/24/09	10.06	320.61	2,300	390	7.2	50	150	3,600	0.81
	02/11/10	9.56	321.11	4,300	670	9.0	73	240	6,100	0.64
	06/04/10	9.51	321.16	1,700	330	3.7	<1.7	120	4,200	0.61
	08/12/10	9.63	321.04	1,600	400	3.0	50	7.0	3,100	0.70
	11/30/10	9.70	320.97	290	38	0.95	6.1	19	360	0.89
	02/21/11	8.57	322.10	230	22	<0.5	<0.5	7.2	380	0.54
	05/17/11	9.51	321.16	78	6.2	1.1	<0.5	<0.5	40	1.31
	08/03/11	9.71	320.96	980	130	1.4	49	53	300	0.83
	02/15/12	10.42	320.25	150	6.2	1.7	<0.5	<0.5	<60	0.86
	08/25/12	9.74	320.93	110	<0.5	1.8	<0.5	<0.5	80	0.49
	02/26/13	9.89	320.78	120	1.7	2.1	<0.5	<0.5	<100	2.5
	12/31/13	9.99	320.68	120	1.3	2.5	<0.5	1.1	29	0.57
	04/24/14	9.85	320.82	<50	<0.5	0.87	<0.5	<0.5	17	0.24
	<b>09/16/14</b>	<b>10.27</b>	<b>320.40</b>	<b>120</b>	<b>&lt;0.5</b>	<b>2.2</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>16</b>	<b>0.86</b>
<b>Shallow (A-Zone) Wells</b>										
<b>MW-1</b> <i>333.66</i>	10/04/94	12.8	320.76	2,100	150	170	61	320	--	
	11/30/94	12.38	321.18	1,500	210	17	73	130	--	
	03/02/95	12.88	320.68	2,600	510	<10	160	<10	--	
	06/07/95	12.58	320.98	710	160	<2.0	45	<2.0	<10	
	09/26/95	13.15	320.41	1,100	140	1.4	92	1.8	<5.0	
	12/28/95	13.09	320.47	750	96	2.5	61	7.4	37	
	02/29/96	12.17	321.39	250	17	<0.5	18	0.81	9	
	06/27/96	12.95	320.61	710	72	<2.0	92	2.2	<10	
	09/12/96	13.11	320.55	300	53	<0.5	32	0.65	21	
	03/31/97	12.99	320.67	<200	4.1	<2.0	4.8	<2.0	640	
	12/23/98	13.87	319.79	<50	<50	<0.5	<0.5	<0.5	3200	
	03/25/99	12.01	321.65	<50	<0.5	<0.5	<0.5	<0.5	5,200 (5,200)	
	02/03/00	11.91	321.75	<500	<5.0	<5.0	<5.0	<5.0	3,180 (3,350)	
	01/23/01	12.57	321.09	<50.0	<0.5	<0.5	<0.5	<0.5	4,420	
	05/01/01	12.6	321.06	SAMPLED SEMI-ANNUALLY						
	08/28/01	12.74	320.92	<50	<0.5	<0.5	<0.5	<0.5	4,800	
	11/27/01	12.7	320.96	SAMPLED SEMI-ANNUALLY						
	02/28/02	12.7	320.96	<50	<0.5	<0.5	<0.5	<1.5	1,400	
	05/22/02	12.38	321.28	SAMPLED SEMI-ANNUALLY						
	08/20/02	12.57	321.09	<50	<0.5	<0.5	<0.5	<1.5	1,400	
	11/11/02	11.31	322.35	SAMPLED SEMI-ANNUALLY						
	05/08/03	11.85	321.81	<50	<0.5	<0.5	<0.5	<0.5	1,300 (1,200)	
	12/15/04	12.80	320.86	<50	<0.5	<0.5	<0.5	<0.5	1,700 (1,900)	
	02/21/05	11.81	321.85	<100	<1.0	<1.0	<1.0	<1.0	3,000 (3,800)	0.82
	05/17/05	12.51	321.15	<120	<1.2	<1.2	<1.2	<1.2	3,400 (4,400)	0.75
	08/17/05	12.35	321.31	<170	<1.7	<1.7	<1.7	<1.7	4,500 (4,900)	0.77
	11/27/05	13.18	320.48	<170	<1.7	<1.7	<1.7	<1.7	5,400 (4,400)	0.90
	02/21/06	12.61	321.05	<170	<1.7	<1.7	<1.7	<1.7	5,000 (5,400)	0.29/0.71
	06/01/06	12.47	321.22	<250	<2.5	<2.5	<2.5	<2.5	6,400 (6,300)	0.46
	07/07/06	12.60	321.09	--	--	--	--	--	--	
	08/17/06	11.93	321.76	<250	<2.5	<2.5	<2.5	<2.5	7,700 (9,100)	0.43
	11/24/06	13.01	320.68	<250	<2.5	<2.5	<2.5	<2.5	8,400	0.29
	02/21/07	12.91	320.78	<50	<0.5	<0.5	<0.5	<0.5	3,600	0.24
	05/15/07	13.40	320.29	<50	<0.5	<0.5	<0.5	<0.5	2,500	0.29
	08/28/07	13.40	320.29	<50	<0.5	<0.5	<0.5	<0.5	170	0.40
	12/21/07	13.40	320.29	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.68
	02/26/08	12.60	321.09	<50	<0.5	<0.5	<0.5	<0.5	7.0	0.86
	05/21/08	13.45	320.24	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.94
	08/13/08	13.37	320.32	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.91
	11/13/08	13.50	320.19	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.94
	02/06/09	13.67	320.02	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.87
	05/28/09	13.25	320.44	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.71
	08/13/09	13.26	320.43	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.77
	11/24/09	13.28	320.41	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.80
	02/11/10	13.04	320.65	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.81
	06/04/10	12.93	320.76	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.94

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**Table 2. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA**

Well ID TOC Elev (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Dissolved					Notes
					Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	
µg/L										
<b>MW-1 (cont'd)</b>	08/12/10	12.80	320.89	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.77
	11/30/10	13.08	320.61	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.72
	02/21/11	12.38	321.31	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.91
	05/17/11	12.82	320.87	---	---	---	---	---	---	---
	08/03/11	12.88	320.81	---	---	---	---	---	---	---
	02/15/12	13.42	320.27	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.83
	08/25/12	12.77	320.92	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.73
	02/26/13	13.15	320.54	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.8
	12/31/13	13.10	320.59	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.38
	04/24/14	12.91	320.78	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.09
<b>09/16/14</b>	<b>13.05</b>	<b>320.64</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;5.0</b>	<b>0.63</b>
<b>MW-2</b>	10/04/94	8.56	320.62	2300	160	280	96	480	--	
329.29	11/30/94	8.33	320.85	1,600	170	16	110	120	--	
	03/02/95	8.35	320.83	1,200	220	5.6	140	36	--	
	06/07/95	8.62	320.56	160	25	<0.5	16	<0.5	240	
	09/26/95	8.71	320.47	150	15	<0.5	7.2	<0.5	120	
	12/28/95	8.78	320.4	400	34	1.3	26	5.1	170	
	02/29/96	7.82	321.36	120	29	<0.5	<0.5	<0.5	790	
	06/27/96	8.72	320.46	150	13	<0.5	7	<0.5	850	
	09/12/96	8.81	320.48	<1,000	18	<10	<10	<10	3,100	
	03/31/97	8.65	320.64	<500	<5.0	<5.0	<5.0	<5.0	1,400	
	12/23/98	8.32	320.97	<50	<0.5	<0.5	<0.5	<1.5	900	
	03/25/99	7.89	321.4	<50	2.6	<0.5	<0.5	<0.5	1,100 (670)	
	02/03/00	7.53	321.76	<125	<1.25	<1.25	<1.25	<1.25	1,020 (1,100)	
	01/23/01	8.18	321.11	<50.0	<0.5	<0.5	<0.5	<0.5	642	
	05/01/01	8.43	320.86	70.8	<0.5	<0.5	<0.5	<0.5	342	
	08/28/01	8.39	320.9	<50	<0.5	<0.5	<0.5	<0.5	530	
	11/27/01	8.46	320.83	210	<0.5	<0.5	<0.5	<1.5	260	
	02/28/02	8.48	320.81	<50	<0.5	<0.5	<0.5	<1.5	180	
	05/22/02	8.14	321.15	<50	<0.5	<0.5	<0.5	<1.5	180	
	08/20/02	8.24	321.05	<50	<0.5	<0.5	<0.5	<1.5	160	
	11/11/02	8.06	321.23	<50	<0.5	<0.5	<0.5	<1.5	130	
	05/08/03	7.86	321.43	<50	<0.5	<0.5	<0.5	<0.5	180 (160)	
	12/15/04	8.60	320.69	<50	<0.5	<0.5	<0.5	<0.5	1,400 (1,600)	
	02/21/05	7.55	321.74	<50	<0.5	<0.5	<0.5	<0.5	800 (1,100)	1.35
	05/17/05	8.52	320.77	<50	<0.5	<0.5	<0.5	<0.5	160 (210)	1.06
	08/17/05	8.16	321.13	<50	<0.5	<0.5	<0.5	<0.5	190 (210)	0.90
	11/27/05	9.00	320.29	<50	<0.5	<0.5	<0.5	<0.5	200 (210)	0.92
	02/21/06	8.51	320.78	<50	<0.5	<0.5	<0.5	<0.5	240 (270)	0.33/0.46
329.48	06/01/06	8.50	320.98	<50	<0.5	<0.5	<0.5	<0.5	120 (110)	0.38
	07/07/06	8.57	320.91	--	--	--	--	--	--	--
	08/17/06	8.21	321.27	<50	<0.5	<0.5	<0.5	<0.5	230(230)	0.30
	11/24/06	8.87	320.61	<50	<0.5	<0.5	<0.5	<0.5	760	0.24
	02/21/07	8.80	320.68	<50	<0.5	<0.5	<0.5	<0.5	1,100	0.21
	05/15/07	8.94	320.54	<50	<0.5	<0.5	<0.5	<0.5	1,400	0.25
	08/28/07	8.83	320.65	<50	<0.5	<0.5	<0.5	<0.5	1,800	0.33
	12/21/07	8.93	320.55	<50	<0.5	<0.5	<0.5	<0.5	1,700	0.49
	02/26/08	8.49	320.99	<50	<0.5	<0.5	<0.5	<0.5	590	0.51
	05/21/08	9.06	320.42	<50	<0.5	<0.5	<0.5	<0.5	230	0.67
	08/13/08	8.89	320.59	<50	<0.5	<0.5	<0.5	<0.5	190	0.77
	11/13/08	9.16	320.32	<50	<0.5	<0.5	<0.5	<0.5	77	0.86
	02/06/09	9.39	320.09	<50	<0.5	<0.5	<0.5	<0.5	20	0.81
	05/28/09	8.86	320.62	<50	<0.5	<0.5	<0.5	<0.5	12	0.74
	08/13/09	8.81	320.67	<50	<0.5	<0.5	<0.5	<0.5	10	0.69
	11/24/09	9.04	320.44	<50	<0.5	<0.5	<0.5	<0.5	13	0.80
	02/11/10	7.50	321.98	<50	<0.5	<0.5	<0.5	<0.5	7.8	0.76
	06/04/10	8.80	320.68	<50	<0.5	<0.5	<0.5	<0.5	6.5	0.82
	08/12/10	8.61	320.87	<50	<0.5	<0.5	<0.5	<0.5	8.0	0.85
	11/30/10	8.99	320.49	<50	<0.5	<0.5	<0.5	<0.5	6.8	0.93
	02/21/11	8.46	321.02	<50	<0.5	<0.5	<0.5	<0.5	7.5	0.95
	05/17/11	8.58	320.90	---	---	---	---	---	---	---
	08/03/11	8.82	320.66	---	---	---	---	---	---	---
	02/15/12	9.09	320.39	<50	<0.5	<0.5	<0.5	<0.5	7.2	1.31
	08/25/12	8.72	320.76	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.74
	02/26/13	8.90	320.58	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.1
	12/31/13	8.81	320.67	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.41
	04/24/14	8.85	320.63	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.00
	<b>09/16/14</b>	<b>8.88</b>	<b>320.60</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;5.0</b>	<b>0.90</b>
<b>MW-3A</b>	05/29/06	10.13	321.28	--	--	--	--	--	--	0.03 SPH
331.39	07/07/06	10.15	321.24	4,200	340	27	75	79	32,000	--
	08/17/06	9.56	321.83	6,200	410	68	100	650	28,000(34,000)	0.19
	11/24/06	10.73	320.66	2,100	190	11	72	220	7,900	0.10
	02/21/07	10.52	320.87	7,100	890	28	440	470	8,400	0.17
	05/15/07	11.46	319.93	1,800	210	11	96	88	3,500	0.25
	08/28/07	11.62	319.77	1,900	260	6.9	110	74	3,400	0.28
	12/21/07	11.33	320.06	4,700	570	160	120	970	2,800	0.54

# Pangea

**Table 2. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA**

Well ID TOC Elev (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
↔ µg/L →											
<b>MW-3A (cont'd)</b>	02/26/08	10.25	321.14	7,200	550	32	440	690	1,800	0.49	
	05/21/08	11.52	319.87	1,600	130	2.9	40	94	700	0.55	
	08/13/08	11.62	319.77	2,900	280	3.4	52	56	1,300	0.52	
	11/13/08	11.55	319.84	1,200	150	3.5	22	31	1,100	0.64	
	02/06/09	11.70	319.69	5,800	780	25	260	390	1,600	0.69	
	05/28/09	11.30	320.09	1,500	200	9.0	57	190	500	0.70	
	08/13/09	11.40	319.99	1,900	240	6.3	29	72	940	0.81	
	11/24/09	11.22	320.17	970	98	5.2	25	41	360	0.79	
	02/11/10	10.87	320.52	2,100	330	8.6	27	34	1,200	0.72	
	06/04/10	10.60	320.79	2,300	250	31	40	330	800	0.69	
	08/12/10	10.75	320.64	1,800	260	9.2	50	120	730	0.63	
	11/30/10	10.61	320.78	23,000	490	140	220	5,800	4,800	0.80	
	02/21/11	9.59	321.80	19,000	430	33	160	3,500	4,000	0.74	
	05/17/11	10.56	320.83	17,000	530	27	390	3,000	2,900	0.43	
	08/03/11	10.68	320.71	9,400	380	13	380	730	1,700	0.56	
	02/15/12	11.46	319.93	7,100	180	15	89	360	870	0.62	
	08/25/12	10.76	320.63	6,200	370	10	39	80	860	0.92	
	02/26/13	10.35	321.04	9,300	290	37	290	1,600	<450	1.0	Naphthalene = 240 µg/L
	12/31/13	10.30	321.09	22,000	290	25	400	3,000	<350	0.41	Naphthalene = 660 µg/L
	04/04/14	10.09	321.30	3,700	100	5.1	50	240	87	1.30/1.56	Post AS/BOC Naphthalene = 110 µg/L
	04/07/14	10.35	321.04	3,300	110	5.1	46	270	100	0.04/0.63	Naphthalene = 130 µg/L
	04/09/14	10.45	320.94	3,600	130	6.6	60	320	130	0.06/0.86	Naphthalene = 130 µg/L
	04/10/14	10.49	320.90	3,600	150	7.4	75	360	130	0.06/0.81	Naphthalene = 160 µg/L
	04/11/14	10.72	320.67	3,300	130	4.8	54	280	<180	0.14/0.33	Naphthalene = 150 µg/L
	04/18/14	10.65	320.74	3,700	140	7.2	72	280	130	0.00/1.09	
	04/24/14	10.79	320.60	3,300	100	7.6	54	230	120	0.00	Naphthalene = 170 µg/L
	<b>09/16/14</b>	<b>11.44</b>	<b>319.95</b>	<b>10,000</b>	<b>330</b>	<b>78</b>	<b>380</b>	<b>1,700</b>	<b>270</b>	<b>0.80</b>	<b>Naphthalene = 350 µg/L</b>
<b>MW-4</b>	03/01/96	9.9	322.74	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
<i>332.63</i>	04/02/96	9.77	322.87	--	--	--	--	--	--	--	
	06/27/96	10	322.64	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	09/12/96	11.67	320.96	<50	<0.5	<0.5	<0.5	<0.5	3.5		
	03/31/97	10.59	322.04	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	12/23/98	10.37	322.26	<50	<0.5	<0.5	<0.5	<1.5	<2.5		
	03/25/99	9.91	322.72	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	02/03/00	10.32	322.31	<50	<0.5	<0.5	<0.5	<0.5	<2.5/<2.0 (3)		
	01/23/01	10.54	322.09	<50	<0.5	<0.5	<0.5	<0.5	<5.0		
	05/01/01	10.32	322.31				SAMPLED ANNUALLY				
	08/28/01	10.57	322.06				SAMPLED ANNUALLY				
	11/27/01	10.29	322.34				SAMPLED ANNUALLY				
	02/28/02	10.3	322.33	<50	<0.5	<0.5	<0.5	<1.5	<2.5		
	05/22/02	10.12	322.51				SAMPLED ANNUALLY				
	08/20/02	10.43	322.2				SAMPLED ANNUALLY				
	11/11/02	9.89	322.74				SAMPLED ANNUALLY				
	05/08/03	9.79	322.84	<50	<0.5	<0.5	<0.5	<0.5	<2		
	12/15/04	10.56	322.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0		
	02/21/05	9.50	323.13	<50	<0.5	<0.5	<0.5	<0.5	<5.0 (<0.5)	1.60	
	05/17/05	10.20	322.43				SAMPLED ANNUALLY				
	08/17/05	10.50	322.13				SAMPLED ANNUALLY				
	11/27/05	11.07	321.56				SAMPLED ANNUALLY				
	02/21/06	10.53	322.10	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.14/0.90	
<i>332.64</i>	05/29/06	10.33	322.31				SAMPLED ANNUALLY				
	07/07/06	10.52	322.12	--	--	--	--	--	--	--	
	08/17/06	10.45	322.19	--	--	--	--	--	--	--	
	11/24/06	10.95	321.69	--	--	--	--	--	--	0.22	
	02/21/07	10.71	321.93	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.40	
	05/15/07	11.24	321.40	--	--	--	--	--	--	--	
	08/28/07	11.42	321.22	--	--	--	--	--	--	0.52	
	12/21/07	11.26	321.38	--	--	--	--	--	--	0.81	
	02/26/08	10.12	322.52	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.06	
	05/21/08	11.30	321.34	--	--	--	--	--	--	0.98	
	08/13/08	11.23	321.41	--	--	--	--	--	--	0.71	
	11/13/08	10.93	321.71	--	--	--	--	--	--	--	
	02/06/09	10.98	321.66	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.67	
	05/28/09	10.96	321.68	--	--	--	--	--	--	--	
	08/13/09	11.23	321.41	--	--	--	--	--	--	--	
	11/24/09	11.15	321.49	--	--	--	--	--	--	--	
	02/21/10	10.17	322.47	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.69	
	06/04/10	10.52	322.12	--	--	--	--	--	--	--	
	08/12/10	10.72	321.92	--	--	--	--	--	--	--	
	11/30/10	10.75	321.89	--	--	--	--	--	--	--	
	02/21/11	9.29	323.35	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.61	

# Pangea

**Table 2. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA**

Well ID TOC Elev (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg ↔	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE →	Dissolved Oxygen mg/L	Notes
						µg/L					
<b>MW-4 (cont'd)</b>	05/17/11	10.37	322.27	---	---	---	---	---	---	---	---
	08/03/11	10.49	322.15	---	---	---	---	---	---	---	---
	02/15/12	11.18	321.46	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.89	
	08/25/12	10.83	321.81	--	--	--	--	--	--	--	
	02/26/13	11.00	321.64	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.7	
	12/31/13	11.15	321.49	--	--	--	--	--	--	0.73	
	04/24/14	10.90	321.74	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.06	
	<b>09/16/14</b>	<b>11.59</b>	<b>321.05</b>	--	--	--	--	--	--	--	
<b>MW-5</b> <i>333.47</i>	03/01/96	10.62	322.58	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	04/02/96	10.14	323.06	--	--	--	--	--	--	--	
	06/27/96	10.22	322.98	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	09/12/96	10.85	322.19	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	03/31/97	10.44	322.6	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	12/23/98	10.21	322.83	<50	<0.5	<0.5	<0.5	<1.5	<2.5		
	03/25/99	9.92	323.12	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	02/03/00	9.63	323.41	<50	<0.5	<0.5	<0.5	<0.5	<2.5/<2.03		
	01/23/01	10.35	322.69	<50	<0.5	<0.5	<0.5	<0.5	<5.0		
	05/01/01	10.34	322.7		SAMPLED ANNUALLY						
	08/28/01	10.44	322.6		SAMPLED ANNUALLY						
	11/27/01	10.17	322.87		SAMPLED ANNUALLY						
	02/28/02	10.2	322.84	<50	<0.5	<0.5	<0.5	<1.5	<2.5		
	05/22/02	10.38	322.66		SAMPLED ANNUALLY						
	08/20/02	10.36	322.68		SAMPLED ANNUALLY						
	11/11/02	10.03	323.01		SAMPLED ANNUALLY						
	05/08/03	9.56	323.48	<50	<0.5	<0.5	<0.5	<0.5	3.4/<0.5		
	12/15/04	10.08	322.96	<50	<0.5	<0.5	<0.5	<0.5	<5.0		
	02/21/05	9.90	323.14	<50	<0.5	<0.5	<0.5	<0.5	<5.0 (0.54)	1.62	
	05/17/05	10.33	322.71		SAMPLED ANNUALLY					1.47	
	08/17/05	10.40	322.64		SAMPLED ANNUALLY					1.18	
	11/27/05	10.43	322.61		SAMPLED ANNUALLY					1.19	
	02/21/06	10.32	322.81	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.48/0.76	
	05/29/06	10.41	322.72		SAMPLED ANNUALLY					--	
	07/07/06	10.46	322.67	--	--	--	--	--	--	--	
	08/17/06	10.49	324.19	--	--	--	--	--	--	--	
	11/24/06	10.92	322.21	--	--	--	--	--	--	0.27	
	02/21/07	10.90	322.23	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.73	
	05/15/07	10.97	322.16	--	--	--	--	--	--	--	
	08/28/07	11.07	322.06	--	--	--	--	--	--	0.55	
	12/21/07	10.80	322.33	--	--	--	--	--	--	0.97	
	02/26/08	10.38	322.75	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.01	
	05/21/08	10.97	322.16	--	--	--	--	--	--	0.95	
	08/13/08	10.98	322.15	--	--	--	--	--	--	0.99	
	11/13/08	11.01	322.12	--	--	--	--	--	--	--	
	02/06/09	11.05	322.08	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.82	
	05/28/09	10.80	322.33	--	--	--	--	--	--	--	
	08/13/09	10.90	322.23	--	--	--	--	--	--	--	
	11/24/09	10.96	322.17	--	--	--	--	--	--	--	
	02/11/10	10.50	322.63	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.80	
	06/04/10	10.68	322.45	--	--	--	--	--	--	--	
	08/12/10	10.61	322.52	--	--	--	--	--	--	--	
	11/30/10	10.68	322.45	--	--	--	--	--	--	--	
	02/21/11	10.35	322.78	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.78	
	05/17/11	10.56	322.57	--	--	--	--	--	--	--	
	08/03/11	10.66	322.47	--	--	--	--	--	--	--	
	02/15/12	10.82	322.31	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.02	
	08/25/12	10.70	322.43	--	--	--	--	--	--	--	
	02/26/13	10.65	322.48	<50	<0.5	<0.5	<0.5	<0.5	7.0	2.7	
	12/31/13	10.91	322.22	--	--	--	--	--	--	0.49	
	04/24/14	10.88	322.25	<50	<0.5	<0.5	<0.5	<0.5	5.5	0.09	
	<b>09/16/14</b>	<b>11.43</b>	<b>321.70</b>	--	--	--	--	--	--	--	
<b>MW-6A</b> <i>331.81</i>	06/01/06	10.38	321.43	620	20	<2.5	<2.5	43	5,700 (5,300)	0.73	TAME, TBA, DIPE, ETBE=ND
	07/07/06	10.15	321.66	--	--	--	--	--	--	--	
	08/17/06	9.69	322.12	860	55	3.1	31	41	5,300(6,200)	0.49	
	11/24/06	11.10	320.71	330	14	<2.5	11	3.4	5,500	0.37	
	02/21/07	10.72	321.09	360	13	1.8	16	34	4,400	0.50	
	05/15/07	11.69	320.12	<500	40	5.3	11	16	7,300	0.52	
	08/28/07	11.98	319.83	<250	<2.5	<2.5	<2.5	<2.5	7,300	0.39	
	12/21/07	11.31	320.50	4,400	200	45	50	550	3,500	0.45	
	02/26/08	10.15	321.66	6,800	740	130	290	600	330	0.61	
	05/21/08	11.60	320.21	1,900	150	8.1	44	100	88	0.63	
	08/13/08	11.91	319.90	1,200	84	3.7	36	18	<75	0.42	
	11/13/08	11.73	320.08	150	15	1.4	3.0	4.2	35	0.44	
	02/06/09	11.66	320.15	550	100	9.3	22	34	<90	0.48	
	05/28/09	11.45	320.36	600	98	14	21	42	48	0.55	
	08/13/09	11.49	320.32	79	1.6	1.5	0.66	0.76	9.4	0.69	

# Pangea

**Table 2. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA**

Well ID TOC Elev (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Dissolved				Notes
					Benzene	Toluene	Ethylbenzene	Xylenes	
µg/L									
<b>MW-6 (cont'd)</b>									
	11/24/09	11.15	320.66	240	21	3.7	5.8	20	<20
	02/11/10	10.80	321.01	2,400	370	65	47	320	<100
	06/04/10	10.44	321.37	2,800	500	85	87	500	<100
	08/12/10	10.65	321.16	4,000	240	39	160	770	<50
	11/30/10	10.69	321.12	22,000	640	210	940	4,300	<250
	02/21/11	9.79	322.02	8,100	330	93	340	1,700	<35
	05/17/11	10.78	321.03	16,000	870	75	780	2,500	<19
	08/03/11	10.92	320.89	6,000	620	24	340	830	<50
	02/15/12	11.95	319.86	13,000	480	49	580	1,300	<50
	08/25/12	11.20	320.61	7,000	220	34	200	840	<50
	02/26/13	11.90	319.91	5,700	430	31	190	730	<50
	12/31/13	11.02	320.79	7,100	460	20	150	520	<80
	04/04/14	10.28	321.53	920	94	2.7	9.8	35	3.2
	04/07/14	10.44	321.37	1,000	130	3.1	5.3	42	<10
	04/09/14	11.10	320.71	940	150	2.6	12	39	<10
	04/10/14	10.75	321.06	800	140	2.4	12	50	<10
	04/11/14	10.72	321.09	1,000	150	2.4	10	50	<10
	04/18/14	10.94	320.87	920	160	2.9	13	43	<10
	04/24/14	11.09	320.72	960	150	1.7	9.0	26	<10
	<b>09/16/14</b>	<b>11.89</b>	<b>319.92</b>	<b>1,200</b>	<b>100</b>	<b>4.2</b>	<b>23</b>	<b>70</b>	<b>&lt;25</b>
									<b>0.66</b>
									<b>Naphthalene = 63 µg/L</b>
<b>MW-7A</b> <i>330.71</i>	05/31/06	9.19	321.52	<50	1.3	<0.5	0.79	0.82	760 (770)
	07/07/06	9.17	321.54	--	--	--	--	--	--
	08/17/06	8.68	322.03	60	1.1	<0.5	<0.5	1.1	930 (1,400)
	11/24/06	9.88	320.83	<50	<0.5	<0.5	<0.5	<0.5	260
	02/21/07	9.59	321.12	<50	4.6	<0.5	0.62	2.2	270
	05/15/07	10.15	320.56	<50	<0.5	<0.5	<0.5	<0.5	45
	08/28/07	10.09	320.62	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	12/21/07	10.00	320.71	3,200	180	38	100	410	890
	02/26/08	8.78	321.93	1,300	150	1.8	59	99	410
	05/21/08	10.16	320.55	200	18	<0.5	3.3	<0.5	30
	08/13/08	10.27	320.44	<50	<0.5	<0.5	<0.5	<0.5	24
	11/13/08	10.27	320.44	<50	<0.5	<0.5	<0.5	<0.5	30
	02/06/09	10.22	320.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	05/28/09	9.91	320.80	--	--	--	--	--	--
	08/13/09	9.98	320.73	--	--	--	--	--	--
	11/24/09	9.93	320.78	--	--	--	--	--	--
	02/11/10	9.39	321.32	360	75	0.83	4.8	62	200
	06/04/10	9.43	321.28	--	--	--	--	--	--
	08/12/10	9.50	321.21	--	--	--	--	--	--
	11/30/10	9.73	320.98	--	--	--	--	--	--
	02/21/11	8.37	322.34	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	05/17/11	9.33	321.38	--	--	--	--	--	--
	08/03/11	9.58	321.13	--	--	--	--	--	--
	02/15/12	10.54	320.17	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	08/25/12	9.66	321.05	--	--	--	--	--	--
	02/26/13	9.77	320.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	12/31/13	9.94	320.77	--	--	--	--	--	0.49
	04/07/14	9.30	321.41	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	04/10/14	9.45	321.26	<50	0.56	<0.5	<0.5	<0.5	10
	04/24/14	9.82	320.89	<50	<0.5	<0.5	<0.5	<0.5	5.9
	<b>09/16/14</b>	<b>10.50</b>	<b>320.21</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>0.50</b>
									<b>Naphthalene = &lt;0.5</b>
<b>MW-8A</b> <i>331.19</i>	05/29/06	9.55	321.64	<50	<0.5	<0.5	<0.5	<0.5	20 (18)
	07/07/06	9.20	321.99	--	--	--	--	--	--
	08/17/06	8.73	322.46	<50	<0.5	<0.5	<0.5	<0.5	19 (26)
	11/24/06	9.80	321.39	<50	<0.5	<0.5	<0.5	<0.5	34
	02/21/07	9.81	321.38	<50	<0.5	<0.5	<0.5	<0.5	16
	05/15/07	10.05	321.14	<50	<0.5	<0.5	<0.5	<0.5	13
	08/28/07	9.83	321.36	<50	<0.5	<0.5	<0.5	<0.5	19
	12/21/07	10.36	320.83	<50	<0.5	<0.5	<0.5	<0.5	16
	02/26/08	8.33	322.86	<50	<0.5	<0.5	<0.5	<0.5	38
	05/21/08	9.99	321.20	<50	<0.5	<0.5	<0.5	<0.5	13
	08/13/08	10.49	320.70	<50	<0.5	<0.5	<0.5	<0.5	68
	11/13/08	10.39	320.80	<50	<0.5	<0.5	<0.5	<0.5	110
	02/06/09	10.42	320.77	<50	<0.5	<0.5	<0.5	<0.5	75
	05/28/09	9.90	321.29	<50	<0.5	<0.5	<0.5	<0.5	36
	08/13/09	9.78	321.41	<50	<0.5	<0.5	<0.5	<0.5	68
	11/24/09	9.76	321.43	<50	<0.5	<0.5	<0.5	<0.5	66
	02/11/10	9.33	321.86	<50	<0.5	<0.5	<0.5	<0.5	56
	06/04/10	8.95	322.24	<50	<0.5	<0.5	<0.5	<0.5	30
	08/12/10	9.24	321.95	<50	<0.5	<0.5	<0.5	<0.5	28
	11/30/10	13.19	318.00	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	02/21/11	12.65	318.54	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	05/17/11	9.44	321.75	--	--	--	--	--	--
	08/03/11	9.14	322.05	--	--	--	--	--	--
	02/15/12	9.33	321.86	<50	<0.5	<0.5	<0.5	<0.5	1.91

# Pangea

**Table 2. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA**

Well ID TOC Elev (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Dissolved				Notes
					Benzene	Toluene	Ethylbenzene	Xylenes	
μg/L									
<b>MW-8A (cont'd)</b>	08/25/12	13.25	317.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.40
	02/26/13	11.86	319.33	<50	<0.5	<0.5	<0.5	<0.5	<5.0 4.3
	12/31/13	10.91	320.28	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.56
	04/24/14	11.80	319.39	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.53
	<b>09/16/14</b>	<b>10.70</b>	<b>320.49</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;5.0 1.05</b>
									Naphthalene = <0.5 μg/L
<b>MW-9A</b> <i>331.17</i>	05/29/06	10.13	321.04	<50	<0.5	<0.5	<0.5	<0.5	210 (210) 0.46
	07/07/06	9.96	321.21	--	--	--	--	--	--
	08/17/06	9.40	321.77	150	<0.5	1.3	<0.5	<0.5	79(100) 0.53
	11/24/06	11.02	320.15	200	<0.5	2.4	<0.5	<0.5	31 0.38
	02/21/07	10.53	320.64	<50	<0.5	<0.5	<0.5	<0.5	21 0.33
	05/15/07	10.81	320.36	86	<0.5	<0.5	<0.5	<0.5	31 0.45
	08/28/07	11.11	320.06	95	<0.5	1.4	<0.5	<0.5	10 0.38
	12/21/07	10.76	320.41	120	<0.5	2.9	<0.5	0.51	9.5 0.50
	02/26/08	9.71	321.46	120	<0.5	1.2	<0.5	<0.5	9.5 0.86
	05/21/08	10.75	320.42	86	<0.5	<0.5	<0.5	<0.5	6.3 0.84
	08/13/08	11.31	319.86	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.76
	11/13/08	11.14	320.03	52	<0.5	<0.5	<0.5	<0.5	5.5 0.63
	02/06/09	11.16	320.01	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.61
	05/28/09	10.75	320.42	--	--	--	--	--	--
	08/13/09	10.65	320.52	--	--	--	--	--	--
	11/24/09	10.48	320.69	--	--	--	--	--	--
	02/11/10	10.16	321.01	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.63
	06/04/10	9.80	321.37	--	--	--	--	--	--
	08/12/10	10.08	321.09	--	--	--	--	--	--
	11/30/10	10.10	321.07	--	--	--	--	--	--
	02/21/11	9.45	321.72	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.73
	05/17/11	10.07	321.10	--	--	--	--	--	--
	08/03/11	10.38	320.79	--	--	--	--	--	--
	02/15/12	11.52	319.65	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.73
	08/25/12	10.78	320.39	--	--	--	--	--	--
	02/26/13	11.00	320.17	<50	<0.5	<0.5	<0.5	<0.5	<5.0 2.0
	12/31/13	11.21	319.96	--	--	--	--	--	0.61
	04/24/14	11.11	320.06	<50	<0.5	<0.5	<0.5	<0.5	<5.0 1.03
	<b>09/16/14</b>	<b>12.03</b>	<b>319.14</b>	<b>&lt;50</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;5.0 1.07</b>
									Naphthalene = <0.5 μg/L
<b>MW-10A</b> <i>329.93</i>	05/29/06	11.60	318.33	<50	<0.5	<0.5	<0.5	0.67	5.3 (4.7) 0.68
	07/07/06	9.78	320.15	--	--	--	--	--	--
	08/17/06	8.80	321.13	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.47
	11/24/06	12.61	317.32	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.26
	02/21/07	8.96	320.97	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.25
	05/15/07	9.22	320.71	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.30
	08/28/07	8.44	321.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.35
	12/21/07	8.81	321.12	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.47
	02/26/08	7.34	322.59	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.70
	05/21/08	9.22	320.71	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.64
	08/13/08	9.25	320.68	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.61
	11/13/08	9.47	320.46	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.70
	02/06/09	9.50	320.43	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.68
	05/28/09	9.11	320.82	--	--	--	--	--	--
	08/13/09	9.21	320.72	--	--	--	--	--	--
	11/24/09	9.26	320.67	--	--	--	--	--	--
	02/11/10	8.35	321.58	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.64
	06/04/10	8.73	321.20	--	--	--	--	--	--
	08/12/10	8.85	321.08	--	--	--	--	--	--
	11/30/10	9.02	320.91	--	--	--	--	--	--
	02/21/11	7.78	322.15	<50	<0.5	<0.5	<0.5	<0.5	<5.0 0.70
	05/17/11	11.61	318.32	--	--	--	--	--	--
	08/03/11	11.39	318.54	--	--	--	--	--	--
	02/15/12	9.68	320.25	<50	<0.5	<0.5	<0.5	<0.5	<5.0 1.26
	08/25/12	9.11	320.82	--	--	--	--	--	--
	02/26/13	9.16	320.77	<50	<0.5	<0.5	<0.5	<0.5	<5.0 3.0
	12/31/13	9.32	320.61	--	--	--	--	--	0.70
	04/24/14	9.10	320.83	<50	<0.5	<0.5	<0.5	0.54	<5.0 0.07
	<b>09/16/14</b>	<b>9.42</b>	<b>320.51</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>

# Pangea

**Table 2. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA**

Well ID TOC Elev (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg ↔	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE →	Dissolved Oxygen mg/L	Notes
<b>Intermediate-Depth (B-zone) Wells</b>											
<b>MW-6B</b> 330.9	06/01/06	8.41	322.49	<50	<0.5	<0.5	<0.5	<0.5	18 (16)	0.34	TAME, TBA, DIPE, ETBE=ND
	07/07/06	8.55	322.35	--	--	--	--	--	--	--	--
	08/17/06	8.66	322.24	<50	<0.5	<0.5	<0.5	<0.5	8.5(9.6)	0.40	
	11/24/06	9.25	321.65	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.31	
	02/21/07	8.80	322.10	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.37	
	05/15/07	9.21	321.69	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.31	
	08/28/07	9.60	321.30	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.51	
	12/21/07	9.42	321.48	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.82	
	02/26/08	7.87	323.03	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.80	
	05/21/08	9.37	321.53	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.87	
	08/13/08	9.70	321.20	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.81	
	11/13/08	9.62	321.28	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.78	
	02/06/09	9.53	321.37	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.71	
	05/28/09	9.23	321.67	--	--	--	--	--	--	--	
	08/13/09	9.63	321.27	--	--	--	--	--	--	--	
	11/24/09	9.63	321.27	--	--	--	--	--	--	--	
	02/11/10	8.41	322.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.68	
	06/04/10	8.72	322.18	--	--	--	--	--	--	--	
	08/12/10	9.10	321.80	--	--	--	--	--	--	--	
	11/30/10	9.02	321.88	--	--	--	--	--	--	--	
	02/21/11	8.11	322.79	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.66	
	05/17/11	8.83	322.07	--	--	--	--	--	--	--	
	08/03/11	9.16	321.74	--	--	--	--	--	--	--	
	02/15/12	9.83	321.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.91	
	08/25/12	9.81	321.09	--	--	--	--	--	--	--	
	02/26/13	9.41	321.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.1	
	12/31/13	9.88	321.02	--	--	--	--	--	--	0.68	
	04/24/14	9.64	321.26	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.25	
	<b>09/16/14</b>	<b>10.38</b>	<b>320.52</b>	--	--	--	--	--	--	--	
<b>MW-7B</b> 330.69	05/31/06	9.05	321.64	<50	0.79	<0.5	<0.5	0.75	6.4 (6.6)	0.17	TAME, TBA, DIPE, ETBE=ND
	07/07/06	9.03	321.66	--	--	--	--	--	--	--	
	08/17/06	8.62	322.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.22	
	11/24/06	9.75	320.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.27	
	02/21/07	9.44	321.25	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.29	
	02/21/07	9.44	321.25	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.29	
	05/15/07	9.97	320.72	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.33	
	08/28/07	9.96	320.73	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.51	
	12/21/07	9.87	320.82	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.53	
	02/26/08	8.64	322.05	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.59	
	05/21/08	10.05	320.64	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.56	
	08/13/08	10.17	320.52	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.51	
	11/13/08	10.15	320.54	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.53	
	02/06/09	10.18	320.51	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.55	
	05/28/09	9.80	320.89	--	--	--	--	--	--	--	
	08/13/09	9.89	320.80	--	--	--	--	--	--	--	
	11/24/09	9.85	320.84	--	--	--	--	--	--	--	
	02/21/10	9.24	321.45	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.81	
	06/04/10	9.35	321.34	--	--	--	--	--	--	--	
	08/12/10	9.37	321.32	--	--	--	--	--	--	--	
	11/30/10	9.80	320.89	--	--	--	--	--	--	--	
	02/21/11	8.69	322.00	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.85	
	05/17/11	9.23	321.46	--	--	--	--	--	--	--	
	08/03/11	9.42	321.27	--	--	--	--	--	--	--	
	02/15/12	10.18	320.51	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.73	
	08/25/12	9.64	321.05	--	--	--	--	--	--	--	
	02/26/13	9.70	320.99	<50	<0.5	<0.5	<0.5	<0.5	<5.0	5.0	
	12/31/13	9.90	320.79	--	--	--	--	--	--	4.62	
	04/24/14	9.74	320.95	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.00	
	<b>09/16/14</b>	<b>10.32</b>	<b>320.37</b>	--	--	--	--	--	--	--	

# Pangea

**Table 2. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA**

Well ID TOC Elev (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg ↔	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE →	Dissolved Oxygen mg/L	Notes
<b>Deep (C-Zone) Wells</b>											
<b>MW-6C</b> <i>330.88</i>	06/01/06	8.21	322.67	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.29	TAME, TBA, DIPE, ETBE=ND
	07/07/06	8.41	322.47	--	--	--	--	--	--	--	--
	08/17/06	8.56	322.32	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.21	
	11/24/06	9.12	321.76	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.28	
	02/21/07	8.62	322.26	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.21	
<b>MW-7C</b> <i>330.74</i>	05/31/06	8.65	322.09	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.12	TAME, TBA, DIPE, ETBE=ND
	07/07/06	8.70	322.04	--	--	--	--	--	--	--	--
	08/17/06	8.52	322.22	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.17	
	11/24/06	9.42	321.32	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.19	
	02/21/07	9.01	321.73	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.31	
<b>MW-9C</b> <i>331.48</i>	05/29/06	16.59	314.89	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.28	TAME, TBA, DIPE, ETBE=ND
	07/07/06	8.85	322.63	--	--	--	--	--	--	--	--
	08/17/06	9.20	322.28	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.21	
	11/24/06	9.61	321.87	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.33	
	02/21/07	8.94	322.54	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.46	
<b>MW-10C</b> <i>329.66</i>	05/29/06	7.28	322.38	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.16	TAME, TBA, DIPE, ETBE=ND
	07/07/06	7.28	322.38	--	--	--	--	--	--	--	--
	08/17/06	7.29	322.37	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.22	
	11/24/06	10.75	318.91	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.33	
	02/21/07	7.69	321.97	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.39	
<b>MW-11C</b> <i>331.61</i>	05/31/06	9.90	321.71	<50	<0.5	<0.5	<0.5	<0.5	11 (11)	0.29	TAME, TBA, DIPE, ETBE=ND
	07/07/06	10.02	321.59	--	--	--	--	--	--	--	--
	08/17/06	9.60	322.01	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.22	
	11/24/06	10.60	321.01	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.28	
	02/21/07	10.30	321.31	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.43	

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**Table 2. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA**

Well ID TOC Elev (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen	Notes
					µg/L	µg/L	µg/L	µg/L		mg/L	
<b>Destroyed Wells</b>											
<b>MW-3</b> 332.86	10/04/94	12.06	320.67	6,300	610	750	68	670	--		
	11/30/94	11.38	321.35	17	3,600	490	430	610	--		
	03/02/95	11.97	320.76	8,500	2,200	<50	240	<50	64,000		
	06/07/95	11.54	321.19	3,000	710	18	220	44	3,100		
	09/26/95	12.36	320.37	<10,000	230	<100	130	<100	64,000		
	12/28/95	12.07	320.66	<12,500	760	<125	<125	<125	100,000		
	02/29/96	11.01	321.72	1,600	380	<10	84	17	33,000		
	06/27/96	11.93	320.8	1,400	<2.5	4.3	130	4	96,000		
	09/12/96	12.26	320.6	<10,000	560	<100	110	<100	100,000		
	03/31/97	12.04	320.82	<25,000	1,200	370	<250	380	130,000		
	12/23/98	12.92	319.94	--	--	--	--	--	--	0.1' SPH; 0.079 gal SPH removed	
	03/25/99	12.56	320.3	--	--	--	--	--	--	0.05' SPH; 0.05 gal SPH removed	
	02/03/00	11.12	321.74	92,100	4,780	11,400	2,270	15,800	137,000 (162,000)		
	1/23/2001	11.78	321.08	60,600	4,810	7,500	1,870	11,000	148,000	Absorbent sock in well	
	5/1/2001	10.66	322.2	56,000	3,760	5,640	<2,500	8,740	136,000	Absorbent sock in well	
	8/28/2001	11.79	321.07	32,000	3,800	2,600	1,200	7,500	160,000	Absorbent sock in well	
	11/27/2001	11.98	320.88	110,000	1,300	2,400	1,500	9,400	90,000	Absorbent sock removed	
	02/28/02	11.81	321.05	24,000	1,900	820	520	3,100	90,000		
	05/22/02	11.6	321.26	110,000	4,000	3,200	2,800	18,000	140,000		
	08/20/02	11.81	321.05	37,000	2,600	1,500	890	4,800	110,000		
	11/11/02	11.63	321.23	81,000	2,900	2,100	2,100	14,000	110,000		
	05/08/03	10.91	321.95	5,700	770	69	130	365	76,000 (70,000)		
	12/15/04	11.97	320.89	33,000	1,700	430	1,300	7,000	70,000 (89,000)		
	02/21/05	10.81	322.06	--	--	--	--	--	--	1.29	0.01 SPH
	05/17/05	11.63	321.29	--	--	--	--	--	--	1.06	0.08 SPH
	08/17/05	10.83	322.03	39,000	1,500	260	780	2,700	42,000 (47,000)	0.93	
	11/27/05	12.29	320.72	--	--	--	--	--	--	--	0.19 SPH
	02/21/06	11.73	321.28	--	--	--	--	--	--	--	0.19 SPH
	03/30/06	--	--	--	<b>Well Destroyed</b>					--	Well Destroyed
<b>EA-1</b> 331.21	10/17/88	--	--	<50	<0.5	<0.5	<0.5	<0.5	--		
	10/24/88	10.64	322.77	--	--	--	--	--	--		
	11/02/88	10.69	322.72	--	--	--	--	--	--		
	12/20/88	10.51	322.9	<50	<0.5	<0.5	<0.5	<0.5	--		
	03/28/89	9.87	323.54	<250	<0.5	<0.5	<0.5	<0.5	--		
	08/02/89	10.34	323.07	<50	<0.1	<0.1	<0.1	<0.1	--		
	11/06/89	10.65	322.76	<500	<3.0	<5.0	<5.0	<5.0	--		
	01/25/90	10.6	322.81	<50	<0.5	<0.5	<0.5	<0.5	--		
	04/23/90	10.58	322.83	71	2	5	3	8	--		
	08/01/90	10.88	322.53	300	86	21	10	33	--		
	10/24/91	11.12	322.29	280	69	13	11	16	--		
	01/31/91	11.16	322.25	460	160	11	17	17	--		
	08/21/91	10.8	322.61	2,400	400	220	44	120	--		
	08/21/91	10.8	322.61	2,300	390	210	42	120	--	Duplicate	
	10/07/91	10.79	322.62	--	--	--	--	--	--		
	01/28/92	10.79	322.62	3,600	320	360	110	310	--		
	01/28/92	10.79	322.62	3,000	290	320	99	270	--	Duplicate	
	06/05/92	10.84	322.57	1,700	290	89	61	130	--		
	09/30/92	11.06	322.35	2,100	160	260	80	350	--		
	12/30/92	10.15	323.26	3,200	240	180	110	310	--		
	03/29/93	9.42	323.99	23,000	700	3,000	610	3,000	--		
	06/25/93	10.42	322.99	2.7	130	590	130	590	--		
	09/16/93	10.66	322.75	3.9	410	830	220	890	--		
	12/20/93	10.6	322.81	27	1,200	2,600	1,100	4,200	--		
	03/29/94	10.41	323	6.3	250	700	200	830	--		
	06/22/94	10.4	323.01	4.1	71	240	110	460	<30		
	09/20/94	10.37	323.04	8,500	1,200	1,300	370	1,400	--		
	10/04/94	10.34	323.07	7,600	97	360	150	620	--		
	11/30/94	9.46	323.95	8,800	180	490	240	900	--		
	03/02/95	9.96	321.07	6.9	82	570	210	970	--		
	06/15/95	9.8	321.23	4.8	44	210	160	620	<25		
	09/26/95	10.48	320.55	13,000	150	620	370	1,400	<125		
	12/28/95	10.14	320.89	11,000	74	250	200	750	79		
	02/29/96	8.74	322.29	17,000	59	480	350	1,600	<125		
	06/27/96	10.21	320.82	3,600	22	130	130	49	46		

**Table 2. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA**

Well ID TOC Elev (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
↔ µg/L →											
<i>EA-1 (cont'd)</i>											
	09/12/96	10.49	320.72	2,000	20	<10	18	44	<50		
	03/31/97	10.19	321.02	17,000	87	230	330	1,200	310		
	12/23/98	9.83	321.38	290	20	0.88	1.1	16	<2.5		
	03/25/99	9.13	322.08	500	21	<0.5	21	<0.5	18		
	02/03/00	9.05	322.16	2,310	35.7	90	21.8	147	1,280 (365)		
	01/23/01	--	--	--	--	--	--	--	--		Inaccessible
	05/01/01	9.82	321.39	7,710	19.9	12.6	22.3	64	31.8		
	08/28/01	10.04	321.17	4,800	69	<25	50	140	160		
	11/27/01	10.05	321.16	5,300	25	<5.0	30	120	<20		
	02/28/02	--	--	--	--	--	--	--	--		Inaccessible
	05/22/02	9.05	322.16	110	<1.0	<0.50	1	<1.5	<2.5		
	08/20/02	9.21	322	410	2.6	<0.50	8.5	29	<5.0		
	11/11/02	9.01	322.2	3,800	<0.50	1.3	17	47	<5.0		
	05/08/03	8.23	322.98	1,700	11	0.97	63	161	<2.0		
	12/15/04	--	--	--	--	--	--	--	--		Inaccessible
	02/21/05	--	--	--	--	--	--	--	--		Inaccessible
	05/17/05	--	--	--	--	--	--	--	--		Inaccessible
	08/17/05	--	--	--	--	--	--	--	--		Inaccessible
	11/27/05	--	--	--	--	--	--	--	--		Inaccessible
	02/21/06	--	--	--	--	--	--	--	--		Inaccessible
	03/31/06	--	--	--	<b>Well Destroyed</b>			--	--	--	Well Destroyed
<i>EA-2</i>											
330.41	10/17/88	--	--	<50	<0.5	<0.5	<0.5	1.2	--		
	10/24/88	9.7	322.89	--	--	--	--	--	--		
	11/02/88	10.03	322.56	--	--	--	--	--	--		
	12/20/88	9.98	322.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
	03/28/89	8.8	323.79	<250	<2	<0.5	<0.5	<0.5	<0.5		
	08/02/89	9.44	323.15	<50	<0.1	<0.1	<0.1	<0.1	<0.1		
	11/06/89	9.53	323.06	<500	<3.0	<5.0	<5.0	<5.0	<5.0		
	01/25/90	9.27	323.32	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
	04/23/90	9.35	323.24	<50	0.6	0.8	<0.5	2	--		
	08/01/90	9.71	322.88	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
	10/24/90	10.08	322.51	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
	01/31/91	10.21	322.38	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
	01/31/91	10.21	322.38	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
	08/21/91	9.8	322.79	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
	10/07/91	9.98	322.61	--	--	--	--	--	--		
	01/28/92	9.81	322.78	<50	0.8	<0.5	<0.5	<0.5	<0.5		
	06/05/92	9.86	322.73	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
	09/30/92	10.6	321.99	66	1	3.2	1.3	7.4	--		
	12/30/92	9.11	323.48	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
	03/29/93	7.73	324.86	<50	<0.5	<0.5	<0.5	<1.5	--		
	06/25/93	9.22	323.37	<50	<0.5	<0.5	<0.5	<1.5	--		
	09/16/93	10	322.59	<50	<0.5	<0.5	<0.5	<1.5	--		
	12/20/93	9.38	323.21	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	03/29/94	9.3	323.29	<50	<0.5	0.6	<0.5	<0.5	<2.5		
	06/22/94	9.49	323.1	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	09/26/94	9.72	322.87	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	10/04/94	9.58	323.01	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	11/30/94	8.7	323.89	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	03/02/95	8.54	321.67	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	06/07/95	8.42	321.79	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	09/26/95	9.34	320.87	540	6.8	<0.5	47	29	13		
	12/28/95	8.84	321.37	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	02/29/96	7.44	322.77	<50	<0.5	<0.5	<0.5	1.5	<2.5		
	06/27/96	8.83	321.38	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	09/12/96	9.4	321.01	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	03/31/97	9.11	321.3	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	12/23/98	8.91	321.5	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	03/25/99	8.1	322.31	<50	<0.5	<0.5	<0.5	<0.5	2.7		
	02/03/00	8.36	322.05	<50	<0.5	<0.5	<0.5	<0.5	<2.5 (<2.0)		
	01/23/01	9.08	321.33	441 (1)	1.27	0.542	40.3	31	72.9		
	05/01/01	8.87	321.54			SAMPLED ANNUALLY					
	08/28/01	9.45	320.96			SAMPLED ANNUALLY					
	11/27/01	9.5	320.91			SAMPLED ANNUALLY					
	02/28/02	9.05	321.36	<50	<0.50	<0.50	<0.5	<1.5	74		
	05/22/02	9.04	321.37			SAMPLED ANNUALLY					
	08/20/02	9	321.41			SAMPLED ANNUALLY					
	11/11/02	9.03	321.38			SAMPLED ANNUALLY					
	05/08/03	7.26	323.15	<50	<0.5	<0.5	<0.5	<0.5	2.2/0.9		
	12/15/04	8.96	321.45	<50	<0.5	<0.5	<0.5	<0.5	<5.0		
	02/21/05	7.20	323.21	<50	<0.5	<0.5	<0.5	<0.5	13 (11)	0.64	
	05/17/05	8.21	322.20			SAMPLED ANNUALLY				0.77	
	08/17/05	7.97	322.44			SAMPLED ANNUALLY				0.85	
	11/27/05	9.83	320.58			SAMPLED ANNUALLY				0.84	
	02/21/06	8.78	321.63	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.51/0.68	
	03/28/06	--	--	--		<b>Well Destroyed</b>		--	--	--	Well Destroyed

# Pangea

**Table 2. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA**

Well ID TOC Elev (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
					µg/L	µg/L	µg/L	µg/L			
<b>EA-3</b>	10/17/88	--	--	<50	1.8	<0.5	<0.5	3	--		
331.5	10/24/88	11.03	322.61	--	--	--	--	--	--		
	11/02/88	11.03	322.61	--	--	--	--	--	--		
	12/20/88	10.96	322.68	240	90	1.2	13	3.3	--		
	03/28/89	9.77	323.87	2,300	380	130	240	910	--		
	08/02/89	10.65	322.99	<50	<0.1	<0.1	<0.1	<0.1	--		
	11/06/89	10.78	322.86	<500	<3.0	<5.0	<5.0	<5.0	--		
	01/25/90	10.66	322.98	<50	<0.5	<0.5	<0.5	<0.5	--		
	04/23/90	10.68	322.96	<50	0.8	<0.5	0.9	<0.5	--		
	08/01/90	11.03	322.61	<50	<0.5	<0.5	<0.5	<0.5	--		
	10/24/90	11.35	322.29	<50	<0.5	<0.5	<0.5	<0.5	--		
	01/31/91	11.52	322.12	<50	<0.5	<0.5	<0.5	<0.5	--		
	08/21/91	--	--	--	--	--	--	--	--		
	10/07/91	11.15	322.49	180	40	20	4.7	8.4	--		
	10/7/1991	--	--	200	43	17	4.1	6.7	--	Duplicate	
	01/28/92	11.08	322.56	640	69	85	13	46	--		
	06/05/92	10.98	322.66	250	63	8.3	3	9.5	--		
	09/30/92	11.38	322.26	330	120	33	6.3	22	--		
	12/30/92	10.48	323.16	58	7.6	1.3	2.5	5.4	--		
	03/29/93	9.3	324.34	120	11	4.5	6.2	13	--		
	06/25/93	10.46	323.18	<50	<0.5	<0.5	<0.5	<1.5	--		
	09/16/93	10.9	322.74	85	3.9	8.8	4.5	22	--		
	12/20/93	10.66	322.98	190	12	12	13	50	--		
	03/29/94	10.5	323.14	<50	<0.5	1.2	<0.5	0.9	--		
	06/22/94	10.64	323	<50	<0.5	<0.5	<0.5	<0.5	<3.0		
	09/26/94	10.72	322.92	<50	<0.5	<0.5	<0.5	<0.5	--		
	10/04/94	10.68	322.96	<50	<0.5	<0.5	<0.5	0.7	--		
	11/30/94	9.66	323.98	170	6.1	3	6.5	28	--		
	03/02/95	9.92	321.38	<50	<0.5	<0.5	<0.5	<0.5	--		
	06/07/95	9.72	321.58	<50	<0.5	<0.5	<0.5	<0.5	3.2		
	09/26/95	10.6	320.7	2,000	140	<5.0	<5.0	190	280		
	12/28/95	9.82	321.48	<50	<0.5	<0.5	<0.5	<0.5	26		
	02/29/96	8.28	323.02	<50	2.1	<0.5	2.5	6	31		
	06/27/96	9.91	321.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	09/12/96	10.59	320.91	13,000	<20	<20	<20	<20	48		
	03/31/97	--	--	--	--	--	--	--	--	Inaccessible	
	04/15/97	10.25	321.25	<125	2	<1.2	<1.2	<1.2	680		
	12/23/98	--	--	--	--	--	--	--	--	Inaccessible	
	03/25/99	--	--	--	--	--	--	--	--	Inaccessible	
	02/03/00	--	--	--	--	--	--	--	--	Inaccessible	
	01/23/01	10.31	321.19	862 (1)	3.97	1.15	18.9	48.6	289		
	05/01/01	10.15	321.35				SAMPLED SEMI-ANNUALLY				
	08/28/01	10.56	320.94	<50	<0.5	<0.5	<0.5	<0.5	37		
	11/27/01	10.65	320.85				SAMPLED SEMI-ANNUALLY				
	02/28/02	10.37	321.13	<50	1.3	<0.50	2	1.8	90		
	05/22/02	10.27	321.23				SAMPLED SEMI-ANNUALLY				
	08/20/02	10.3	321.2	<50	<0.50	<0.50	<0.50	<1.5	40		
	11/11/02	9.05	322.45				SAMPLED SEMI-ANNUALLY				
	05/08/03	8.83	322.67	<50	<0.5	<0.5	<0.5	<0.5	39/37		
	12/15/04	10.39	321.11	<50	<0.5	<0.5	<0.5	<0.5	18 (17)		
	02/21/05	8.80	322.70	<50	<0.5	<0.5	2.3	1.4	180 (290)	0.69	
	05/17/05	9.57	321.93	140	0.68	<0.5	6.6	0.94	250 (340)	0.86	
	08/17/05	9.23	322.27	3,800	11	3.7	110	24	200 (200)	0.99	
	11/27/05	11.05	320.45	150	<0.5	1.8	2.4	0.56	88 (85)	0.81	
	02/21/06	10.10	321.40	83	<0.5	0.72	1.7	<0.5	40 (49)	0.38/0.65	
	04/03/06	--	--	--		Well Destroyed	--	--	--	Well Destroyed	

# Pangea

**Table 2. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA**

Well ID <i>TOC Elev.</i> (ft)	Date Measured	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg ↔	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE →	Dissolved Oxygen mg/L	Notes
<b>Grab Groundwater Analytical Data</b>											
<b>SB-1A-W</b>	05/18/06	11.20	NA	170	1.5	1.5	1.2	5.9	570 (500)	--	TAME=90µg/L, TBA,DIPE,ETBE=ND
<b>DPB-1</b>	05/01/03	16-20	NA	12,000	25	440	440	2,180	8,100	--	
<b>DPB-2</b>	04/22/03	NA	NA	710	1.1	<1	18	74	540	--	
<b>DPB-3</b>	04/17/03	16-20	NA	48,000	400	5,800	1,500	9,500	8,900	--	
<b>DPB-3</b>	04/17/03	27-31	NA	62,000	700	9,900	1,300	7,900	4,200	--	
	04/17/03	39-43	NA	27,000	210	3,200	640	4,100	7,700	--	
<b>DPB-4</b>	04/17/03	32-36	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
<b>DPB-5</b>	04/30/03	7-11	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
	04/17/03	11-15	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
	04/30/03	26-30	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
	04/17/03	36-40	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
<b>DPB-6</b>	04/18/03	15-19	NA	7,700	18	77	170	640	5.9	--	
	04/18/03	26-30	NA	4,700	21	76	160	650	6.2	--	
	04/18/03	35-39	NA	2,900	8.8	24	54	249	100	--	
<b>DPB-7</b>	04/18/03	15-19	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
	04/18/03	20-24	NA	7,000	42	640	190	990	300	--	
	04/18/03	35-39	NA	150	<0.5	1.8	0.8	5.7	<0.5	--	
<b>DPB-8</b>	05/01/03	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
<b>DPB-S</b>	04/18/03	14-18	NA	20,000	<170	<170	380	6,600	53,000	--	
	04/18/03	26-30	NA	1,500	7.1	<3.1	7.4	170	760	--	
	04/18/03	35-39	NA	4,300	<63	<63	<63	910	42,000	--	

**ABBREVIATIONS AND NOTES:**

SPH = Separate-phase hydrocarbons; calculated groundwater elevation corrected for SPH by the relation: Groundwater Elevation = Well Elevation - Depth to Water +(0.8xSPH Thickness)

Groundwater monitoring data and laboratory analytical results prior to December 14, 2004, were scanned from a report by SOMA.

(ft) = Feet

(msl) = Mean sea level

*TOC Elev. (ft)* = Top of casing elevation

µg/L = Micrograms per liter - approximately equal to parts per billion = ppb

mg/L = Milligrams per liter - approximately equal to parts per million = ppm

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015C

BTEx = Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8020/8021.

MTBE = Methyl tertiary butyl ether by EPA Method 8020/8021. (Concentrations in parentheses are by EPA Method 8260B).

1,2-DCA = 1,2-Dichloroethane

TAME = Tertiary amyl methyl ether by EPA Method 8260B

TBA = Tertiary butyl alcohol by EPA Method 8260B

DIPE = Diisopropyl ether by EPA Method 8260B

ETBE = Ethyl tertiary butyl ether by EPA Method 8260B

-- = Not Measured/Not Analyzed

1 Laboratory report indicates weathered gasoline C6-C12

Dissolved oxygen concentrations measured downhole pre-purge or pre-purge/post-purge

\* = Cap loose, sprinkler runoff entering well

## **APPENDIX A**

Regulatory Letter



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

August 12, 2014

Hooshang Hadjian  
Dublin Auto Wash  
1821 Castle Gate Road  
Walnut Creek, CA 94595

Iver and Janice Hilde  
c.o Lange Enterprises  
6500 Dublin Blvd., Suite 201  
Dublin, CA 94568

Roya Kambin  
Chevron Environmental Management Company  
6101 Bollinger Canyon Road, 5<sup>th</sup> Floor  
San Ramon, CA 94583-5186  
(Sent via E-mail to: [RKLG@chevron.com](mailto:RKLG@chevron.com))

Subject: Case File Review for Fuel Leak Case No. RO0000304 and GeoTracker Global ID T0600100355, Chevron #9-2582, 7240 Dublin Boulevard, Dublin, CA 94568

Dear Mr. Hadjian, Ms. Kambin, and Mr. and Ms. Hilde:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above referenced site including the most recent document entitled, "*Conceptual Site Model*," dated June 23 2014 (CSM). The CSM summarizes site conditions, identifies data gaps, and recommends potential actions to address the data gaps. The recommendation to conduct additional investigation is acceptable. Please see the technical comments below regarding specific recommended activities.

We request that you submit a Work Plan **no later than October 14, 2014** that proposes investigation activities for the recommended actions in the CSM and are consistent with the items discussed in the technical comments below.

#### **TECHNICAL COMMENTS**

- 1. Free Product.** The CSM does not identify a data gap but recommends considering borings to confirm that separate phase hydrocarbons (SPH) are not present. Since the April 2014 pilot test results and groundwater monitoring do not indicate the presence of SPH, we are not requesting further assessment for SPH at this time.
- 2. Soil Contamination – Direct Contact.** The CSM recommends considering shallow soil borings for evaluation of Low-Threat Closure Criteria (LTCP) criteria for direct exposure. Elevated concentrations of benzene have been detected in soil near the northern dispenser island. ACEH has no objection to advancing soil borings in the areas where elevated concentrations of petroleum hydrocarbons in shallow soil have been detected historically. Please present proposed plans for the soil borings in the Work Plan requested below.
- 3. Groundwater Contamination – Lateral Delineation of Shallow Groundwater.** The CSM recommends considering soil borings to address the lack of lateral delineation of shallow groundwater contamination north of wells MW-3A and MW-6A. We have no objection to

Responsible Parties

RO0000304

August 12, 2014

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advancing soil borings to complete lateral delineation of shallow groundwater contamination. Please present proposed plans for soil borings in the Work Plan requested below.

4. **Soil Vapor.** The LTCP does not require soil vapor sampling at active commercial fueling facilities unless an unacceptable health risk can reasonably be expected. No unacceptable health risks are likely to exist for the current active commercial service station. Therefore, ACEH is not requesting soil vapor sampling at the site. Soil vapor sampling could be included in the Work Plan for implementation at the same time as the other data gap investigation activities. However, since the soil vapor sampling is not a regulatory requirement, the costs for these activities are not expected to be eligible for reimbursement by the Underground Storage Tank Cleanup Fund.
5. **Buried Conduits.** The CSM indicates that a conduit study is complete but limited evaluation of migration potential has been performed. The CSM recommends that borings along the sewer or other investigation techniques be considered. Based on review of data collected along the sewer line to date, ACEH is not requesting additional conduit studies at this time.

#### **TECHNICAL REPORT REQUEST**

Please upload technical reports to the ACEH ftp site (Attention: Jerry Wickham), and to the State Water Resources Control Board's GeoTracker website according to the following schedule and file-naming convention:

- **October 14, 2014** – Work Plan  
File to be named: WP\_R\_yyyy-mm-dd RO304
- **January 15, 2015** – Groundwater Monitoring Report – Second Half 2014  
File to be named: GWM\_R\_yyyy-mm-dd RO304

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at [jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org). Online case files are available for review at the following website: <http://www.acgov.org/aceh/index.htm>. As your email address does not appear on the cover page of this notification ACEH is requesting you provide your email address so that we can correspond with you quickly and efficiently regarding your case.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297  
Senior Hazardous Materials Specialist

Responsible Parties

RO0000304

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Attachments: Responsible Party(ies) Legal Requirements/Obligations

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Colleen Winey (QIC 8021), Zone 7 Water Agency, 100 North Canyons Pkwy, Livermore, CA 94551 (*Sent via E-mail to: [cwiney@zone7water.com](mailto:cwiney@zone7water.com)*)

Robert Clark-Ridell, Pangea, 1710 Franklin Street, Suite 200, Oakland, CA 94612 (*Sent via E-mail to: [BRiddell@pangeaenv.com](mailto:BRiddell@pangeaenv.com)*)

Jerry Wickham, ACEH (*Sent via E-mail to: [jerry.wickham@acgov.org](mailto:jerry.wickham@acgov.org)*)

GeoTracker, eFile

## **Attachment 1**

### **Responsible Party(ies) Legal Requirements / Obligations**

#### **REPORT REQUESTS**

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

#### **ELECTRONIC SUBMITTAL OF REPORTS**

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements ([http://www.waterboards.ca.gov/water\\_issues/programs/ust/electronic\\_submittal/](http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/)).

#### **PERJURY STATEMENT**

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

#### **PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS**

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

#### **UNDERGROUND STORAGE TANK CLEANUP FUND**

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

#### **AGENCY OVERSIGHT**

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

<b>Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)</b>	<b>REVISION DATE:</b> May 15, 2014 <b>ISSUE DATE:</b> July 5, 2005 <b>PREVIOUS REVISIONS:</b> October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010, July 25, 2010
<b>SECTION:</b> Miscellaneous Administrative Topics & Procedures	<b>SUBJECT:</b> Electronic Report Upload (ftp) Instructions

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

## REQUIREMENTS

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

RO#\_Report Name\_Year-Month-Date (e.g., RO#5555\_WorkPlan\_2005-06-14)

## Submission Instructions

- 1) Obtain User Name and Password
  - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
    - i) Send an e-mail to [deh.loptoxic@acgov.org](mailto:deh.loptoxic@acgov.org)
  - b) In the subject line of your request, be sure to include “**ftp PASSWORD REQUEST**” and in the body of your request, include the **Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
  - a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
    - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
  - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
  - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
  - d) Open “My Computer” on your computer and navigate to the file(s) you wish to upload to the ftp site.
  - e) With both “My Computer” and the ftp site open in separate windows, drag and drop the file(s) from “My Computer” to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
  - a) Send email to [deh.loptoxic@acgov.org](mailto:deh.loptoxic@acgov.org) notify us that you have placed a report on our ftp site.
  - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
  - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
  - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

## **APPENDIX B**

Standard Operating Procedures

## STANDARD FIELD PROCEDURES FOR SOIL BORINGS

This document describes Pangea Environmental Services' standard field methods for drilling and sampling soil borings. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

### Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor odor or staining, estimate ground water depth and quality, and to submit samples for chemical analysis.

### Soil Classification/Logging

All soil samples are classified according to the Unified Soil Classification System by a trained geologist, scientist or engineer working under the supervision of a California Registered Engineer, California Registered Geologist (RG) or a Certified Engineering Geologist (CEG). The following soil properties are noted for each soil sample:

- Principal and secondary grain size category (i.e. sand, silt, clay or gravel)
- Approximate percentage of each grain size category,
- Color,
- Approximate water or product saturation percentage,
- Observed odor and/or discoloration,
- Other significant observations (i.e. cementation, presence of marker horizons, mineralogy), and
- Estimated permeability.

### Soil Boring and Sampling

Soil borings are typically drilled using hollow-stem augers or hydraulic-push technologies. At least one and one half ft of the soil column is collected for every five ft of drilled depth. Additional soil samples are collected near the water table and at lithologic changes. With hollow-stem drilling, samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments beyond the bottom of the borehole. With hydraulic-push drilling, samples are typically collected using acetate liners. The vertical location of each soil sample is determined by measuring the distance from the middle of the soil sample tube to the end of the drive rod used to advance the split barrel sampler or the acetate tube. All sample depths use the ground surface immediately adjacent to the boring as a datum. The horizontal location of each boring is measured in the field from an onsite permanent reference using a measuring wheel or tape measure.

Drilling and sampling equipment is steam-cleaned prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

### Sample Storage, Handling and Transport

Sampling tubes or cut acetate liners chosen for analysis are trimmed of excess soil and capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

## **Field Screening**

Soil samples collected during drilling will be analyzed in the field for ionizable organic compounds using a photo-ionization detector (PID) with a 10.2 eV lamp. The screening procedure will involve placing an undisturbed soil sample in a sealed container (either a zip-lock bag, glass jar, or a capped soil tube). The container will be set aside, preferably in the sun or warm location. After approximately fifteen minutes, the head space within the container will be tested for total organic vapor, measured in parts per million on a volume to volume basis (ppmv) by the PID. The PID instrument will be calibrated prior to boring using hexane or isobutylene. PID measurements are used along with the field observations, odors, stratigraphy and ground water depth to select soil samples for analysis.

## **Water Sampling**

Water samples collected from borings are either collected from the open borehole, from within screened PVC inserted into the borehole, or from a driven Hydropunch-type sampler. Groundwater is typically extracted using a bailer, check valve and/or a peristaltic pump. The ground water samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory.

Pangea often performs electrical conductivity (EC) logging and/or continuous coring to identify potential water-bearing zones. Hydropunch-type sampling is then performed to provide discrete-depth grab groundwater sampling within potential water-bearing zones for vertical contaminant delineation. Hydropunch-type sampling typically involves driving a cylindrical sheath of hardened steel with an expendable drive point to the desired depth within undisturbed soil. The sheath is retracted to expose a stainless steel or PVC screen that is sealed inside the sheath with Neoprene O-rings to prevent infiltration of formation fluids until the desired depth is attained. The groundwater is extracted using tubing inserted down the center of the rods into the screened sampler.

## **Duplicates and Blanks**

Blind duplicate water samples are collected usually collected only for monitoring well sampling programs, at a rate of one blind sample for every 10 wells sampled. Laboratory-supplied trip blanks accompany samples collected for all sampling programs to check for cross-contamination caused by sample handling and transport. These trip blanks are analyzed if the internal laboratory QA/QC blanks contain the suspected field contaminants. An equipment blank may also be analyzed if non-dedicated sampling equipment is used.

## **Grouting**

If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

## **Waste Handling and Disposal**

Soil cuttings from drilling activities are usually stockpiled onsite on top of and covered by plastic sheeting. At least four individual soil samples are collected from the stockpiles for later compositing at the analytic laboratory. The composite sample is analyzed for the same constituents analyzed in the borehole samples. Soil cuttings are transported by licensed waste haulers and disposed in secure, licensed facilities based on the composite analytic results.

Ground water removed during sampling and/or rinsate generated during decontamination procedures are stored onsite in sealed 55 gallon drums. Each drum is labeled with the drum number, date of generation, suspected contents, generator identification and consultant contact. Disposal of the water is based on the analytic results for the well samples. The water is either pumped out using a vacuum truck for transport to a licensed waste treatment/disposal facility or the individual drums are picked up and transported to the waste facility where the drum contents are removed and appropriately disposed.