

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

RECEIVED

By Alameda County Environmental Health at 1:37 pm, Jan 05, 2015

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



December 30, 2014

VIA ALAMEDA COUNTY FTP SITE

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

Re: **Groundwater Monitoring Report - Second Half 2014**
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. has prepared this *Groundwater Monitoring Report – Second Half 2014*. This report describes groundwater monitoring activities and results.

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

Sincerely,
Pangea Environmental Services, Inc.

A handwritten signature in blue ink, appearing to read "Bob Clark-Riddell".

Bob Clark-Riddell, P.E.
Principal Engineer

Attachment: *Groundwater Monitoring Report – Second Half 2014*

cc: Mr. Hooshang Hadjian, 2108 San Ramon Valley Blvd, San Ramon, CA 94583
Mr. Jim and Ellie 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



GROUNDWATER MONITORING REPORT – SECOND HALF 2014

Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California

December 30, 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:




Morgan Gillies
Project Manager


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

INTRODUCTION

On behalf of Mr. Hooshang Hadjian, Pangea Environmental Services, Inc. (Pangea) conducted groundwater monitoring during this period at the subject site (Figure 1). The purpose of the monitoring and sampling is to evaluate groundwater flow direction and dissolved contaminant concentrations, and to inspect site wells for separate-phase hydrocarbons (SPH). Current groundwater analytical results and elevation data are shown on Figure 2. Well construction details are presented in Table 1. Current and historical data are summarized on Table 2.

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

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 direction. 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.

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.

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 shutdown 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. The testing involved monitoring of key parameters, air injection testing, and injection of a bio-organic catalyst (BOC), water, and air into two source areas. After the BOC injection, periodic groundwater extraction was performed to evaluate capture of desorbed hydrocarbons and to assess dissolved hydrocarbon concentrations.

An air injection test was conducted on April 3, 2014 to determine the air pressure required to inject air into source area wells. Air injection was planned to help distribute the BOC catalyst and to provide oxygen for microbial bacteria use during bioremediation. To enhance biodegradation of subsurface hydrocarbons, Pangea introduced a bio-organic catalyst (BOC) into two source area wells on April 3, 2014. To help distribute the BOC, Pangea also injected water and air into the source area wells (MW-3A and MW-6A) on the same day. On subsequent days, Pangea extracted groundwater in an effort to recover hydrocarbons desorbed by the BOC material.

Following BOC injection on April 3, 2014, Pangea conducted periodic groundwater purging and sampling from the two injection wells to evaluate capture of desorbed hydrocarbons and to assess dissolved hydrocarbon concentrations. 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 of BOC or hydrocarbons to nearby wells MW-7A and MW-7AA was observed during subsequent well monitoring.

GROUNDWATER MONITORING AND SAMPLING

On September 16, 2014, groundwater monitoring and sampling was conducted at the site. The approved semi-annual groundwater monitoring program is summarized on Table A in Appendix A. The depth to water at survey point C-1 above the flood control channel was also measured.

Before well purging, the dissolved oxygen (DO) concentration was measured in each sampled well. DO was measured by lowering a downwell sensor to the approximate middle of the water column, and allowing the reading to stabilize during gentle height adjustment. Prior to sample collection, approximately three casing volumes of water (unless the well dewatered) were purged using disposable bailers, a PVC bailer, an electric submersible pump, positive air displacement pump, or a peristaltic pump. During well purging, field technicians measured the pH, temperature and conductivity. Groundwater samples were collected from each well with a disposable bailer, and decanted into the appropriate containers supplied by the analytical laboratory. Groundwater samples were labeled, placed in protective plastic bags, and stored on crushed ice at or below 4° C. All samples were transported under chain-of-custody to a State-certified analytical laboratory. Purge water was temporarily stored onsite in DOT-approved 55-gallon drums. Groundwater monitoring field data sheets are presented in Appendix B.

MONITORING RESULTS

Current and historical groundwater elevation data and analytical results are described below and summarized on Table 2. Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by modified EPA Method 8015C; and benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by EPA Method 8021B. Select samples were analyzed for naphthalene by EPA Method 8260. Samples were analyzed by McCampbell Analytical, Inc. of Pittsburg, California, a State-certified laboratory. The laboratory analytical report is included in Appendix B. DO concentrations ranged from 0.50 mg/L (wells MW-5 and MW-7A) to 1.07 mg/L (well MW-9A).

Groundwater Flow Direction

Based on depth-to-water data collected September 16, 2014 groundwater elevations in shallow and intermediate zones are shown on Figure 2 and discussed below. Groundwater flow at the site is complex due to the combined effects of a generally upward gradient, the nearby creek/flood control channel, seasonal fluctuations in flow direction, and possible influences of the city sewer line located beneath Dublin Boulevard.

Vertical Gradient Evaluation: A comparison of clustered well pairs screened at different depths indicates that a consistent *upward* gradient component of approximately 0.05 to 0.15 ft/ft is present between the shallow and intermediate water-bearing zones at the portion of the site north of the dispenser islands (MW-6A and 6B), and a much smaller *upward* gradient was present southwest of the dispenser islands (MW-7A and MW-7B) this event, as shown below on Table A. A *downward* gradient appears to be present between vapor wells VW-1, VW-2 and VW-3 and the upper shallow AA-zone monitoring wells, although this apparent gradient may be due to *perched* groundwater.

Table A – Vertical Gradient Evaluation using Paired Monitoring Wells

Monitoring Well Pair	Groundwater Elevation	Mean Screen Depth	Calculated Vertical Gradient
MW-6A	319.92	17.5	
MW-6B	320.52	28	
<i>Difference</i>	<i>0.6</i>	<i>10.5</i>	<i>0.06 (upwards)</i>
MW-7A	320.21	18	
MW-7B	320.37	28	
<i>Difference</i>	<i>0.16</i>	<i>10</i>	<i>0.016 (upwards)</i>

Horizontal Gradient Evaluation: Depth-to-water measurements collected during this and prior groundwater monitoring events indicate that the horizontal component of groundwater flow direction north of the site has been consistently *southward to southeastward* for the *shallow* wells. However, gradient directions onsite have fluctuated significantly, possibly due to the influence of the nearby flood control channel and/or City sewer line beneath Dublin Boulevard. As shown on Figure 2, the horizontal component of the groundwater flow direction in the *shallow* wells for the current monitoring event is primarily *southeastwards* north of the site and *northeastwards* onsite. This change from the typical groundwater flow direction at the site may have been influenced by drought conditions in the San Ramon Creek Flood Control Channel. The horizontal component

of groundwater flow in the *intermediate-depth* wells could not be determined since only two wells are screened at that depth.

Conclusion: The primary observation regarding the piezometric surface is that a moderately well-defined *upward* gradient is present in wells north of the dispenser islands. The horizontal gradient is complex and likely affected by the many factors described above. Historical depth-to-water and groundwater elevation data for the site are presented in Table 1.

Hydrocarbon Distribution in Groundwater

Based on recent data, hydrocarbon impact is concentrated in the upper shallow (AA) and shallow (A) water-bearing zones in the vicinity of the fuel dispensers. The extent of hydrocarbon impact this event is illustrated on Figure 2 and groundwater data is summarized on Table 2. The estimated extent of TPHg and benzene are shown on Figures 3 and 4, respectively. TPHg and benzene concentration trends in key site wells are graphed on Figures 5 and 6, respectively.

During this monitoring event, the highest TPHg (10,000 µg/L) and benzene (330 µg/L) concentrations were detected in well MW-3A.

Naphthalene was detected this event at concentrations of 350 µg/L and 63 µg/L, respectively, in wells MW-3A and MW-6A. Naphthalene was not detected above laboratory reporting limits in wells DPE-2, MW-7A, MW-8A and MW-9A. The extent of naphthalene in shallow groundwater at the site is limited and very similar to the extent of benzene shown on Figure 4. Based on these results, Pangea plans to discontinue analyzing monitoring well samples for naphthalene.

No separate-phase hydrocarbons (SPH) were detected in site wells this quarter. SPH was previously detected in MW-3 and replacement well MW-3A, but has not been detected in MW-3A since May 2006, shortly after well installation. Hydrocarbon concentrations generally show stable to decreasing trends in all site wells, although concentrations remain elevated in select source area wells (MW-3A and MW-6A).

Fuel Oxygenate Distribution in Groundwater

MTBE was detected above reporting limits in three of the ten sampled wells, as shown in Table 2 and on Figure 2. The highest MTBE concentration detected this quarter was 270 µg/L in well MW-3A. MTBE concentration trends in key wells are shown on Figure 5.

OTHER SITE ACTIVITIES

Site Assessment

Pangea submitted a *Workplan for Additional Assessment* (Workplan) dated October 24, 2014. The Workplan proposes two onsite and three offsite borings to address data gaps identified in the *Conceptual Site Model* dated June 23, 2014. ACEH approved the Workplan in a November 3, 2014 letter. Pangea will implement the approved workplan in the near future.

Future Groundwater Monitoring

Based on the limited extent of naphthalene detected in site monitoring wells Pangea plans to discontinue analyzing monitoring well samples for naphthalene.

The semi-annual groundwater monitoring program is shown in Appendix A. The next monitoring event will be performed during the first quarter of 2015. All program monitoring wells will be gauged for depth to water and inspected for SPH. All program wells will be sampled in accordance with the monitoring program. All groundwater samples will be analyzed for TPHg, BTEX and MTBE by EPA Method 8015Cm/8021B. Select annual samples will be analyzed for fuel oxygenates (TAME, TBA, DIPE, ETBE and MTBE) and naphthalene by EPA Method 8260B. Pangea will summarize groundwater monitoring activities and results in a technical report.

ATTACHMENTS

Figure 1 – Site Location Map

Figure 2 – Groundwater Elevation Contour and Hydrocarbon Concentration Map – Shallow

Figure 3 – Extent of TPHg in Shallow Groundwater

Figure 4 – Extent of Benzene in Shallow Groundwater

Figure 5 – TPHg Concentration Trends in Key Wells

Figure 6 – Benzene Concentration Trends in Key Wells

Figure 7 – MTBE Concentration Trends in Key Wells

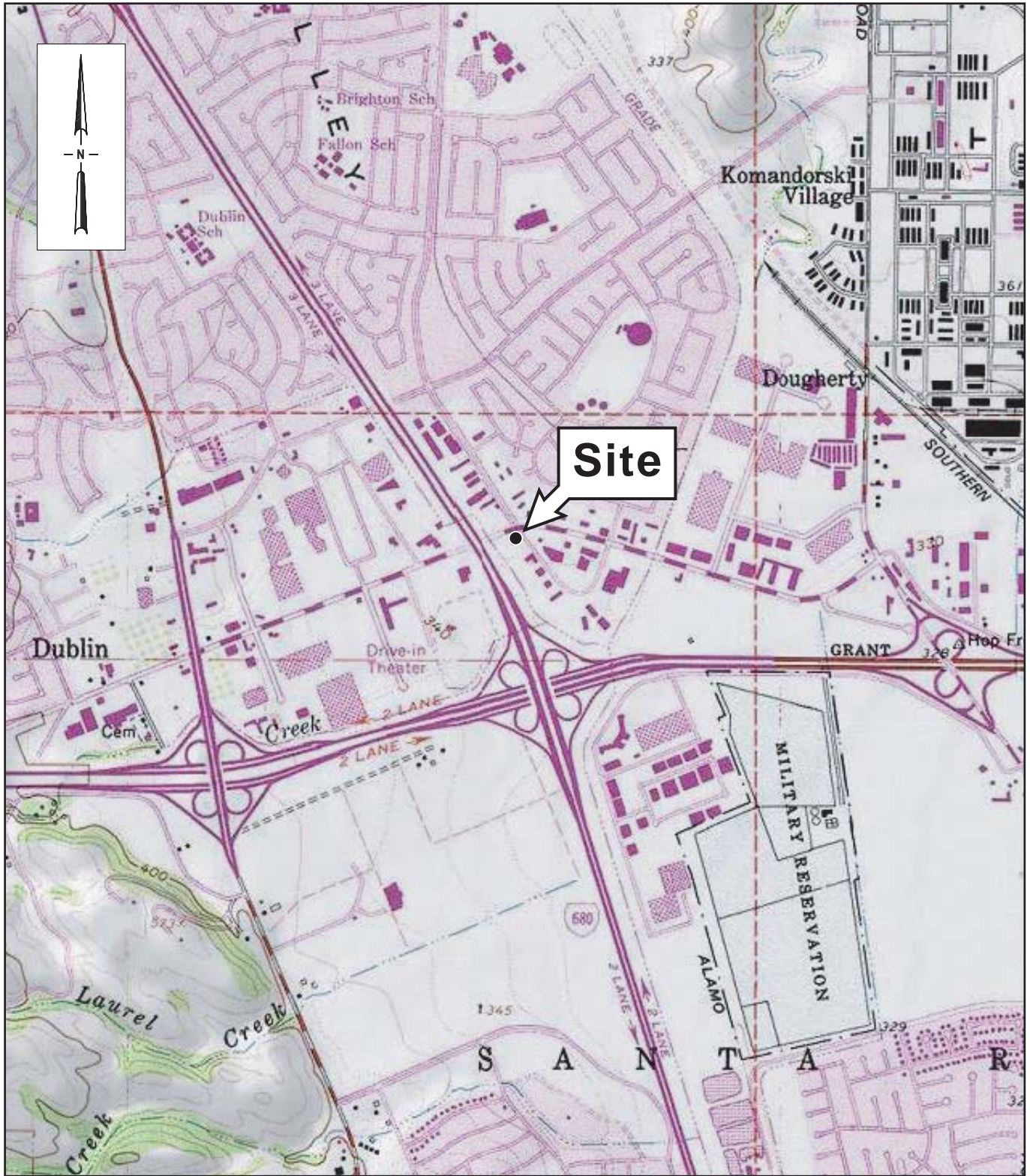
Table 1 – Well Construction Details

Table 2 – Groundwater Elevation and Analytical Data

Appendix A – Groundwater Monitoring Program

Appendix B – Groundwater Monitoring Field Data Sheets

Appendix C – Laboratory Analytical Results



SOURCE: TOPOI MAPS



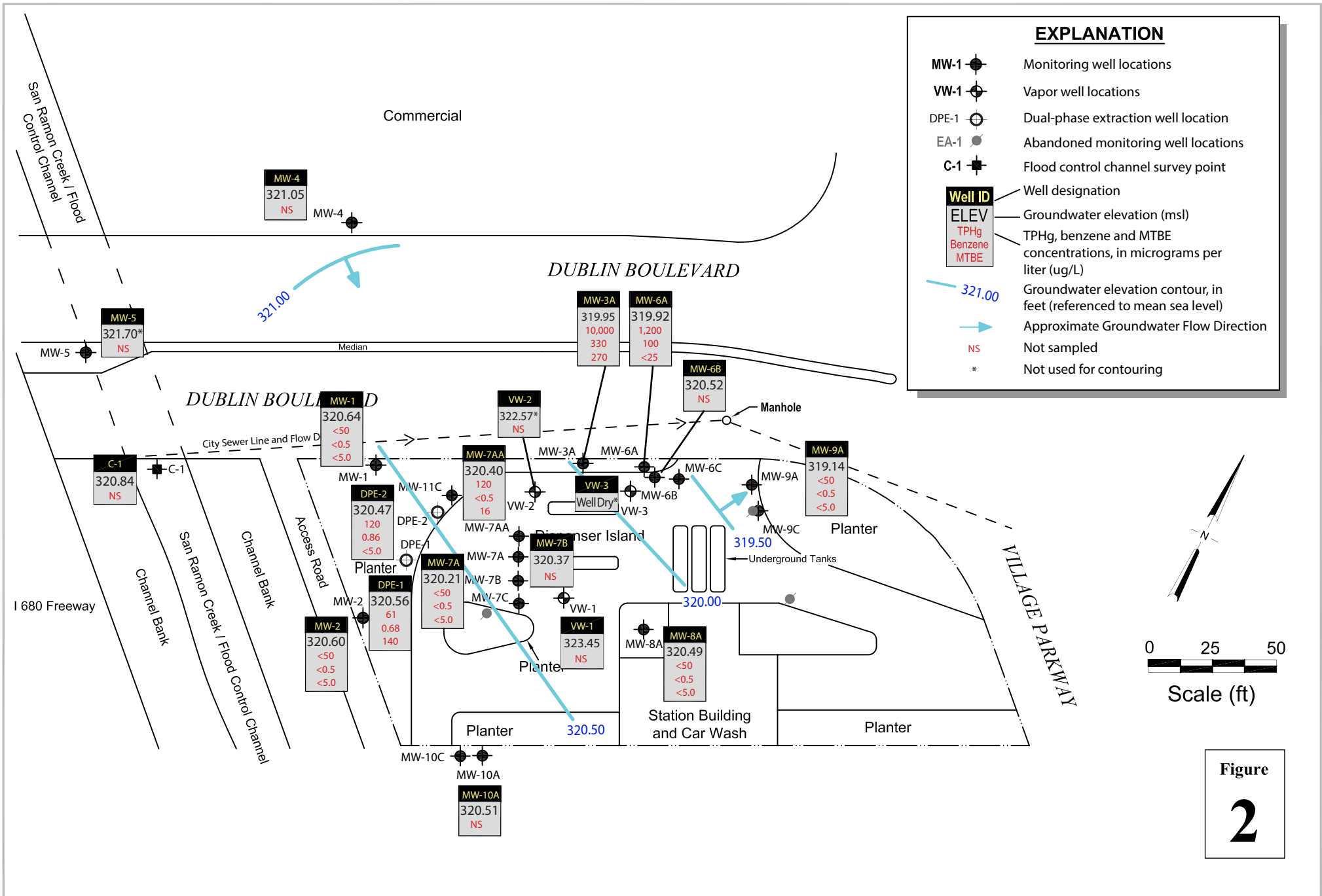
SCALE : 1" = 1/4 MILE

Figure 1

Dublin Auto Wash
 7240 Dublin Boulevard
 Dublin, California



Site Location Map

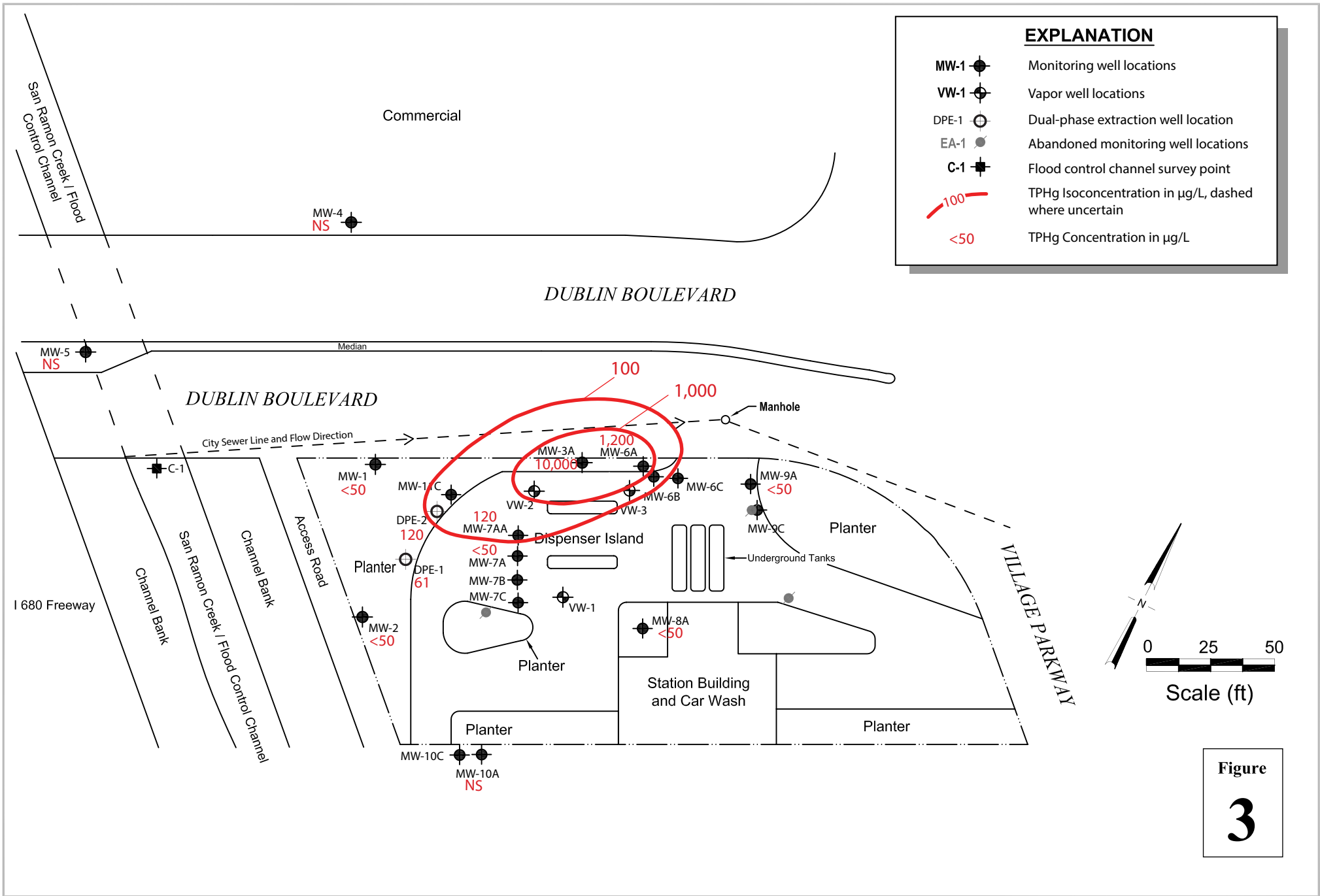


Dublin Auto Wash
 7240 Dublin Boulevard
 Dublin, California



**Groundwater Elevation Contour and
 Hydrocarbon Concentration Map**

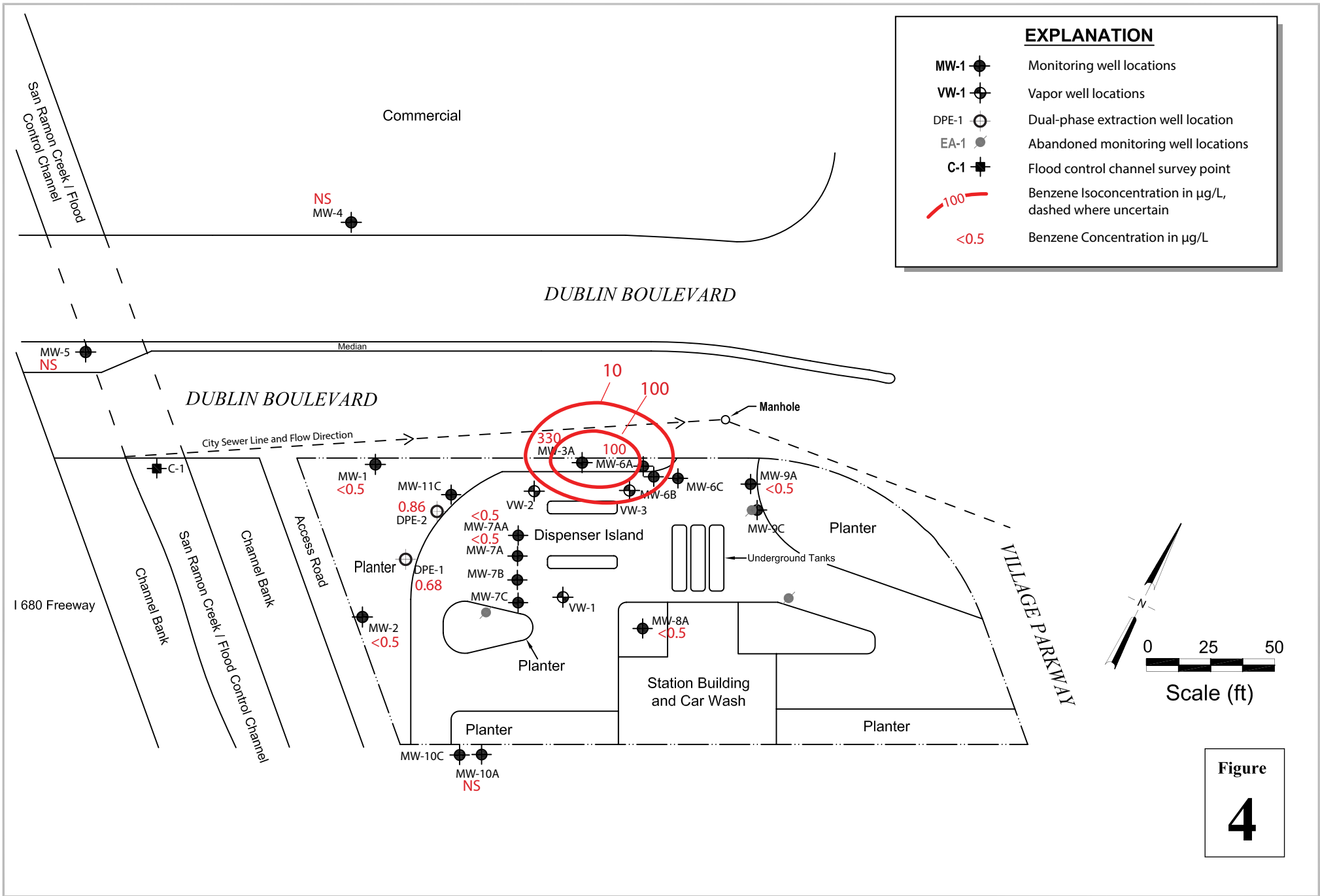
September 16, 2014



Dublin Auto Wash
 7240 Dublin Boulevard
 Dublin, California



**Extent of TPHg in
 Shallow Groundwater**
 September 16, 2014



Dublin Auto Wash
 7240 Dublin Boulevard
 Dublin, California



**Extent of Benzene in
 Shallow Groundwater**
 September 16, 2014

TPHg Concentration Trends in Key Wells

7240 Dublin Boulevard, Dublin

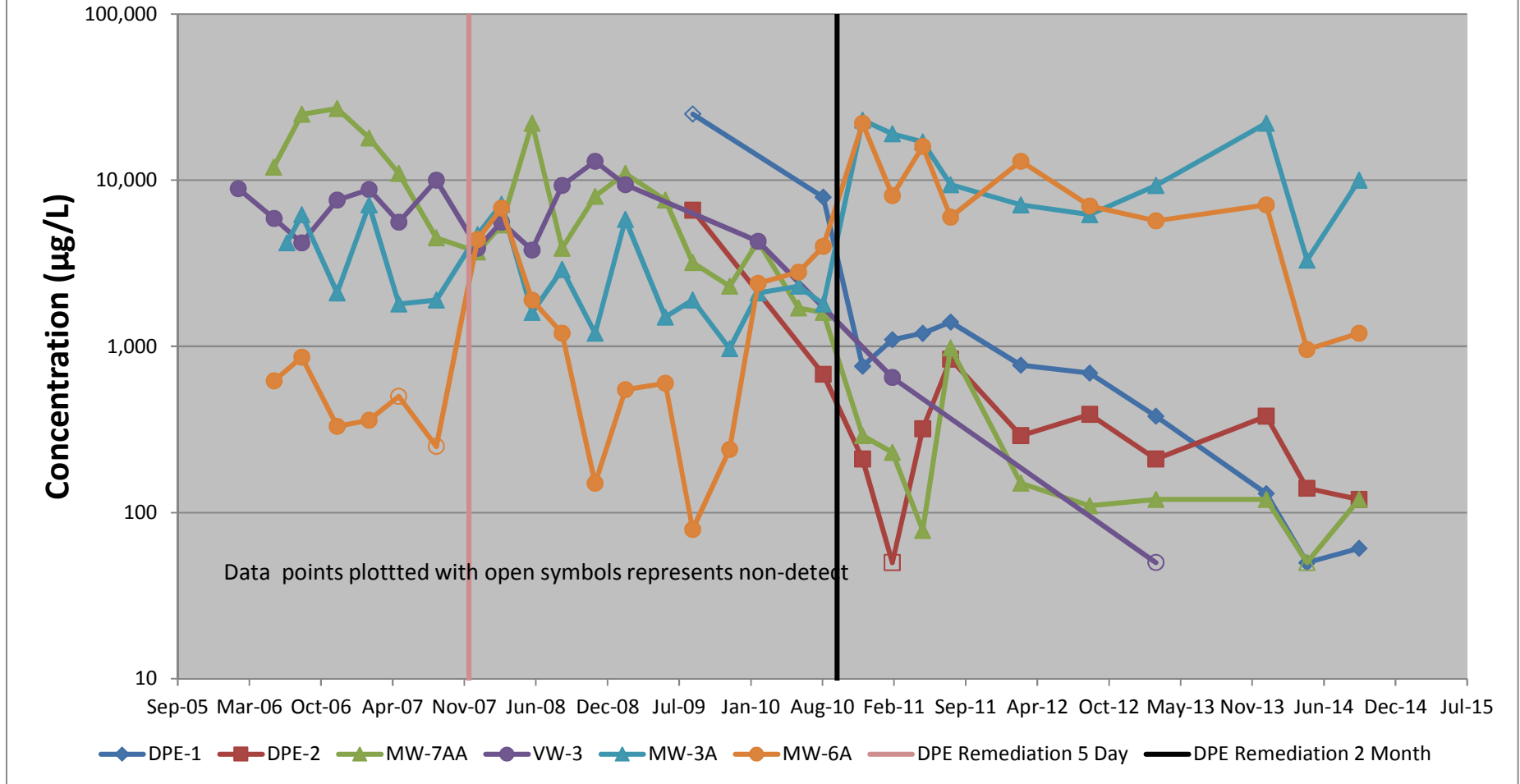


Figure 5. TPHg Concentration Trends in Key Wells

Benzene Concentration Trends in Key Wells

7240 Dublin Boulevard, Dublin

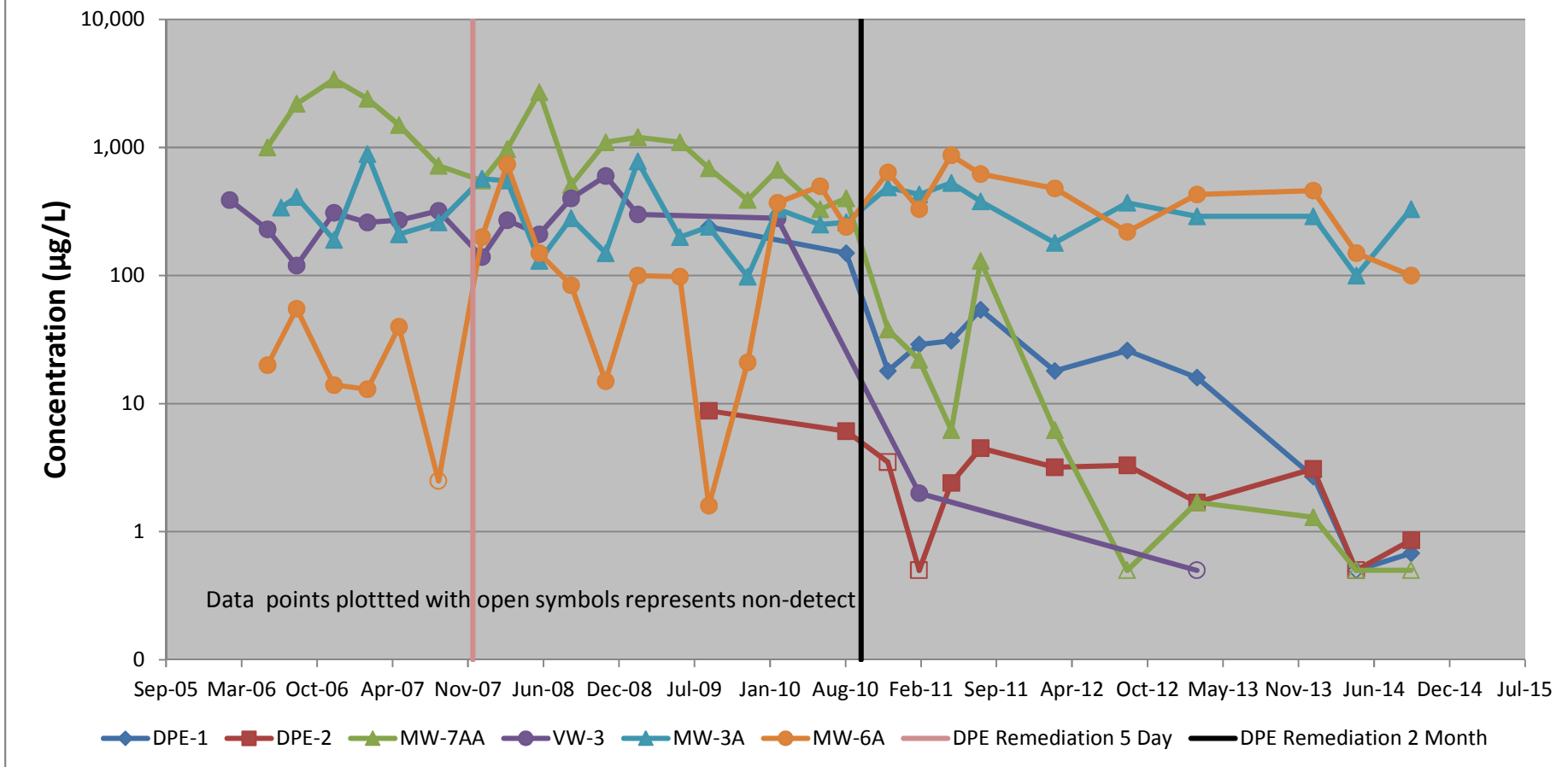


Figure 6. Benzene Concentration Trends in Key Wells

MTBE Concentration Trends in Key Wells

7240 Dublin Boulevard, Dublin

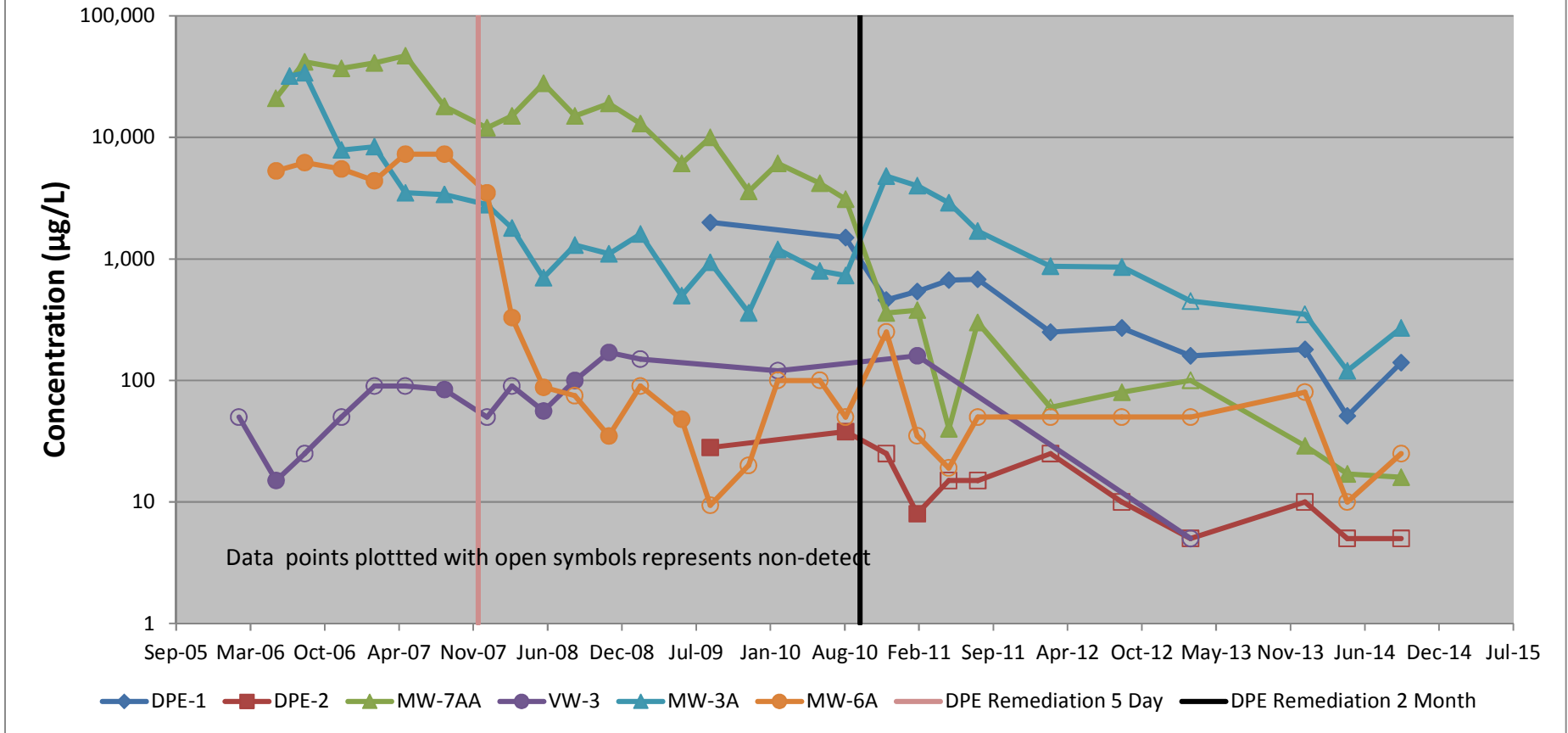


Figure 7. MTBE Concentration Trends in Key Wells

Table 1 –Well Construction Details –7240 Dublin Blvd., Dublin, CA

Well ID (TOC Elev)	Total Depth of Well (feet bgs)	Screened Interval (ft bgs)	Drill Hole Diameter (inches)	Casing Diameter (inches)	Surface Seal Depth (ft bgs)
DPE-1	14	9-14	10	4	0-8
DPE-2	14	9-14	10	4	0-8
MW-1	25	5-25	8	2	0-4
MW-2	20	5-20	8	2	0-4
MW-3A	17	10-17	10	4	0-9
MW-4	20	8.5-20	8	2	0-8
MW-5	21	8.5-21	8	2	0-8
MW-6A	20	15-20	10	2	0-14
MW-6B	30	26-30	8	2	0-25
MW-6C	44	34-44	8	2	0-33
MW-7AA	14	9-14	10	4	0-8
MW-7A	20	16-20	10	4	0-15
MW-7B	30	26-30	8	2	0-25
MW-7C	45	35-45	12	2	0-34
MW-8A	20	15-20	8	2	0-4
MW-9A	20	15-20	8	2	0-14
MW-9C	45	35-45	12	2	0-34
MW-10A	20	15-20	8	2	0-14
MW-10C	45	35-45	8	2	0-34
MW-11C	43.5	33.5-43.5	8	2	0-32
VW-1	9	3-9	8	2	0-2.5
VW-2	9	3-9	8	2	0-2.5
VW-3	9	3-9	8	2	0-2.5

Pangea

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

Well ID	Date	Depth	Groundwater	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved	Notes	
												TOC Elev
(ft)		(ft)	(ft, msl)							mg/L		
Surface Water (Flood Control Channel)												
C-1 332.89	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	--	--	--	--	--	--	--			
09/16/14	12.05	320.84	--	--	--	--	--	--	--			
Vapor Wells												
VW-1 330.43	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			
09/16/14	6.98	323.45	--	--	--	--	--	--	--			
VW-2 330.17	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		

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

Well ID	Date	Depth	Groundwater	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen	Notes
VW-2 (cont'd)	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		
	09/16/14	7.60	322.57	--	--	--	--	--	--	--	
VW-3 330.49	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	---	---	---		
	09/16/14	--	--	---	---	Well Dry	---	---	---		
Upper Shallow (AA-Zone) Wells											
DPE-1 331.01	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	
	09/16/14	10.45	320.56	61	0.68	0.61	<0.5	<0.5	140	1.04	
DPE-2 331.42	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	
	09/16/14	10.95	320.47	120	0.86	2.4	<0.5	<0.5	<5.0	0.91	Naphthalene = <0.5 µg/L

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

Well ID	Date	Depth	Groundwater	Analytical Data (µg/L)							Dissolved	Notes
TOC Elev	Measured	to Water	Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Oxygen		
(ft)		(ft)	(ft, msl)	←-----µg/L----->							mg/L	
MW-7AA 330.67	05/31/06	9.18	321.49	12,000	1,000	410	180	1,600	23,000 (21,000)	0.44	TAME, TBA, DIPE, ETBE=ND	
	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	After 2 months DPE.	
	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		
09/16/14	10.27	320.40	120	<0.5	2.2	<0.5	<0.5	16	0.86			

Shallow (A-Zone) Wells

MW-1 333.66	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	
333.69	06/01/06	12.47	321.22	<250	<2.5	<2.5	<2.5	<2.5	6,400 (6,300)	0.46	TAME, TBA, DIPE, ETBE=ND
	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	

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

Well ID	Date	Depth	Groundwater							Dissolved	Notes	
			TOC Elev	Measured	to Water	Elevation	TPHg	Benzene	Toluene			Ethylbenzene
(ft)	(ft)	(ft, msl)	←————— μg/L —————→							mg/L		
MW-1 (cont'd)	08/12/10	12.80	320.89	<50	<0.5	<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	<0.5	<5.0	0.72	
	02/21/11	12.38	321.31	<50	<0.5	<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	<0.5	<5.0	0.83	
	08/25/12	12.77	320.92	<50	<0.5	<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	<0.5	<5.0	2.8	
	12/31/13	13.10	320.59	<50	<0.5	<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	<0.5	<5.0	0.09	
	09/16/14	13.05	320.64	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	0.63	
MW-2 329.29	10/04/94	8.56	320.62	2300	160	280	96	480	--	--		
	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	TAME, TBA, DIPE, ETBE=ND	
	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		
	09/16/14	8.88	320.60	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.90		
MW-3A 331.39	05/29/06	10.13	321.28	--	--	--	--	--	--	--	0.03 SPH	
	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		

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

Well ID	Date	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
MW-3A (cont'd)	12/21/07	11.33	320.06	4,700	570	160	120	970	2,800	0.54	
	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	
	09/16/14	11.44	319.95	10,000	330	78	380	1,700	270	0.80	Naphthalene = 350 μg/L
MW-4 332.63	03/01/96	9.9	322.74	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	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			1.29	
	08/17/05	10.50	322.13				SAMPLED ANNUALLY			1.10	
	11/27/05	11.07	321.56				SAMPLED ANNUALLY			1.01	
	02/21/06	10.53	322.10	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.14/0.90	
	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	--	--	--	--	--	--	--		
02/11/10	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		

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

Well ID	Date	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg ←	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes	
												μg/L
MW-4 (cont'd)	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		
	09/16/14	11.59	321.05	--	--	--	--	--	--	--	--	
MW-5 333.47	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	
	08/17/05	10.40	322.64								SAMPLED ANNUALLY	
	333.13	11/27/05	10.43	322.61								SAMPLED ANNUALLY
		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			
09/16/14	11.43	321.70	--	--	--	--	--	--	--	--		
MW-6A 331.81	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		

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

Well ID	Date	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
<i>MW-6 (cont'd)</i>	11/24/09	11.15	320.66	240	21	3.7	5.8	20	<20	0.72	
	02/11/10	10.80	321.01	2,400	370	65	47	320	<100	0.55	
	06/04/10	10.44	321.37	2,800	500	85	87	500	<100	0.68	
	08/12/10	10.65	321.16	4,000	240	39	160	770	<50	0.72	
	11/30/10	10.69	321.12	22,000	640	210	940	4,300	<250	0.89	
	02/21/11	9.79	322.02	8,100	330	93	340	1,700	<35	0.62	
	05/17/11	10.78	321.03	16,000	870	75	780	2,500	<19	0.83	
	08/03/11	10.92	320.89	6,000	620	24	340	830	<50	0.47	
	02/15/12	11.95	319.86	13,000	480	49	580	1,300	<50	0.78	
	08/25/12	11.20	320.61	7,000	220	34	200	840	<50	0.47	
	02/26/13	11.90	319.91	5,700	430	31	190	730	<50	0.97	Naphthalene = 310 µg/L
	12/31/13	11.02	320.79	7,100	460	20	150	520	<80	0.61	Naphthalene = 330 µg/L
	04/04/14	10.28	321.53	920	94	2.7	9.8	35	3.2	2.44/0.97	Post AS/BOC Naphthalene = 25 µg/L
	04/07/14	10.44	321.37	1,000	130	3.1	5.3	42	<10	0.30/0.18	Naphthalene = 67 µg/L
	04/09/14	11.10	320.71	940	150	2.6	12	39	<10	0.34/3.11	Naphthalene = 35 µg/L
	04/10/14	10.75	321.06	800	140	2.4	12	50	<10	0.09/1.08	Naphthalene = 39 µg/L
	04/11/14	10.72	321.09	1,000	150	2.4	10	50	<10	0.02/1.41	Naphthalene = 46 µg/L
	04/18/14	10.94	320.87	920	160	2.9	13	43	<10	0.52/0.98	
	04/24/14	11.09	320.72	960	150	1.7	9.0	26	<10	0.00	Naphthalene = 68 µg/L
	09/16/14	11.89	319.92	1,200	100	4.2	23	70	<25	0.66	Naphthalene = 63 µg/L
MW-7A 330.71	05/31/06	9.19	321.52	<50	1.3	<0.5	0.79	0.82	760 (770)	0.40	TAME, TBA, DIPE, ETBE=ND
	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)	0.29	
	11/24/06	9.88	320.83	<50	<0.5	<0.5	<0.5	<0.5	260	0.20	
	02/21/07	9.59	321.12	<50	4.6	<0.5	0.62	2.2	270	0.35	
	05/15/07	10.15	320.56	<50	<0.5	<0.5	<0.5	<0.5	45	0.40	
	08/28/07	10.09	320.62	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.42	
	12/21/07	10.00	320.71	3,200	180	38	100	410	890	0.68	
	02/26/08	8.78	321.93	1,300	150	1.8	59	99	410	0.90	
	05/21/08	10.16	320.55	200	18	<0.5	3.3	<0.5	30	0.75	
	08/13/08	10.27	320.44	<50	<0.5	<0.5	<0.5	<0.5	24	0.81	
	11/13/08	10.27	320.44	<50	<0.5	<0.5	<0.5	<0.5	30	0.85	
	02/06/09	10.22	320.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.83	
	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	0.90	
	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	0.87	
	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	0.85	
	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	3.0		
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	0.10/0.01	Post AS/BOC Naphthalene = <0.5	
04/10/14	9.45	321.26	<50	0.56	<0.5	<0.5	<0.5	10	0.01/0.00	Naphthalene = <0.5	
04/24/14	9.82	320.89	<50	<0.5	<0.5	<0.5	<0.5	5.9	0.00		
09/16/14	10.50	320.21	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	0.50	Naphthalene = <0.5
MW-8A 331.19	05/29/06	9.55	321.64	<50	<0.5	<0.5	<0.5	<0.5	20 (18)	0.39	TAME, TBA, DIPE, ETBE=ND
	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)	0.26	
	11/24/06	9.80	321.39	<50	<0.5	<0.5	<0.5	<0.5	34	0.21	
	02/21/07	9.81	321.38	<50	<0.5	<0.5	<0.5	<0.5	16	0.29	
	05/15/07	10.05	321.14	<50	<0.5	<0.5	<0.5	<0.5	13	0.33	
	08/28/07	9.83	321.36	<50	<0.5	<0.5	<0.5	<0.5	19	0.35	
	12/21/07	10.36	320.83	<50	<0.5	<0.5	<0.5	<0.5	16	0.61	
	02/26/08	8.33	322.86	<50	<0.5	<0.5	<0.5	<0.5	38	0.77	
	05/21/08	9.99	321.20	<50	<0.5	<0.5	<0.5	<0.5	13	0.81	
	08/13/08	10.49	320.70	<50	<0.5	<0.5	<0.5	<0.5	68	0.65	
	11/13/08	10.39	320.80	<50	<0.5	<0.5	<0.5	<0.5	110	0.68	
	02/06/09	10.42	320.77	<50	<0.5	<0.5	<0.5	<0.5	75	0.70	
	05/28/09	9.90	321.29	<50	<0.5	<0.5	<0.5	<0.5	36	0.66	
	08/13/09	9.78	321.41	<50	<0.5	<0.5	<0.5	<0.5	68	0.74	
	11/24/09	9.76	321.43	<50	<0.5	<0.5	<0.5	<0.5	66	0.71	
	02/11/10	9.33	321.86	<50	<0.5	<0.5	<0.5	<0.5	56	0.63	
	06/04/10	8.95	322.24	<50	<0.5	<0.5	<0.5	<0.5	30	0.69	
	08/12/10	9.24	321.95	<50	<0.5	<0.5	<0.5	<0.5	28	0.75	
	11/30/10	13.19	318.00	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.69	
	02/21/11	12.65	318.54	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.68	
	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	<5.0	1.91	

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

Well ID <i>TOC Elev</i> <i>(ft)</i>	Date <i>Measured</i>	Depth <i>to Water</i> <i>(ft)</i>	Groundwater <i>Elevation</i> <i>(ft, msl)</i>	TPHg ←	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved <i>Oxygen</i> <i>mg/L</i>	Notes
<i>MW-8A (cont'd)</i>	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	
	09/16/14	10.70	320.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.05	Naphthalene = <0.5 μg/L
MW-9A <i>331.17</i>	05/29/06	10.13	321.04	<50	<0.5	<0.5	<0.5	<0.5	210 (210)	0.46	TAME, TBA, DIPE, ETBE=ND
	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		
09/16/14	12.03	319.14	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.07	Naphthalene = <0.5 μg/L	
MW-10A <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	TAME, TBA, DIPE, ETBE=ND
	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		
09/16/14	9.42	320.51	--	--	--	--	--	--	--		

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

Well ID	Date	Depth	Groundwater							Dissolved	Notes
TOC Elev	Measured	to Water	Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Oxygen	
(ft)		(ft)	(ft, msl)	←-----µg/L-----→						mg/L	
Intermediate-Depth (B-zone) Wells											
MW-6B 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		
	09/16/14	10.38	320.52	--	--	--	--	--	--	--	
MW-7B 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	--	--	--	--	--	--	--	
	02/11/10	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		
	09/16/14	10.32	320.37	--	--	--	--	--	--	--	

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

Well ID	Date	Depth	Groundwater	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved	Notes
<i>TOC Elev</i>	<i>Measured</i>	<i>to Water</i>	<i>Elevation</i>							<i>Oxygen</i>	
<i>(ft)</i>		<i>(ft)</i>	<i>(ft, msl)</i>	←————— μg/L —————→						<i>mg/L</i>	
Deep (C-Zone) Wells											
MW-6C 330.88	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	
MW-7C 330.74	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	
MW-9C 331.48	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	
MW-10C 329.66	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	
MW-11C 331.61	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	

Pangea

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

Well ID	Date	Depth	Groundwater	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved	Notes
(ft)	(ft)	(ft, msl)	(ft, msl)							mg/L	
Destroyed Wells											
MW-3 332.86	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	--	--	--	--	--	--	--	--	--	--	Well Destroyed
Well Destroyed											
EA-1 331.21	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	Notes
										Oxygen mg/L	
EA-1 (cont'd)	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	--	--	--	--	Well Destroyed			--	--	Well Destroyed	
EA-2 330.41	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	--		
	03/28/89	8.8	323.79	<250	<2	<0.5	<0.5	<0.5	--		
	08/02/89	9.44	323.15	<50	<0.1	<0.1	<0.1	<0.1	--		
	11/06/89	9.53	323.06	<500	<3.0	<5.0	<5.0	<5.0	--		
	01/25/90	9.27	323.32	<50	<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	--		
	10/24/90	10.08	322.51	<50	<0.5	<0.5	<0.5	<0.5	--		
	01/31/91	10.21	322.38	<50	<0.5	<0.5	<0.5	<0.5	--		
	01/31/91	10.21	322.38	<50	<0.5	<0.5	<0.5	<0.5	--		Duplicate
	08/21/91	9.8	322.79	<50	<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	--		
	06/05/92	9.86	322.73	<50	<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	--		
	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	--		
	03/29/94	9.3	323.29	<50	<0.5	0.6	<0.5	<0.5	--		
	06/22/94	9.49	323.1	<50	<0.5	<0.5	<0.5	<0.5	--		
	09/26/94	9.72	322.87	<50	<0.5	<0.5	<0.5	<0.5	--		
	10/04/94	9.58	323.01	<50	<0.5	<0.5	<0.5	<0.5	--		
	11/30/94	8.7	323.89	<50	<0.5	<0.5	<0.5	<0.5	--		
	03/02/95	8.54	321.67	<50	<0.5	<0.5	<0.5	<0.5	--		
	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	--	--	--	--	Well Destroyed			--	--	Well Destroyed	

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

Well ID	Date	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
EA-3 331.5	10/17/88	--	--	<50	1.8	<0.5	<0.5	3	--		
	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	Date	Depth	Groundwater							Dissolved	Notes
TOC Elev	Measured	to Water	Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Oxygen	
(ft)		(ft)	(ft, msl)	←————— μg/L —————→						mg/L	
SB-1A-W	05/18/06	11.20	NA	170	1.5	1.5	1.2	5.9	570 (500)	--	TAME=90μg/L, TBA,DIPE,ETBE=ND
DPB-1	05/01/03	16-20	NA	12,000	25	440	440	2,180	8,100	--	
DPB-2	04/22/03	NA	NA	710	1.1	<1	18	74	540	--	
DPB-3	04/17/03	16-20	NA	48,000	400	5,800	1,500	9,500	8,900	--	
DPB-3	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	--	
DPB-4	04/17/03	32-36	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
DPB-5	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	--	
DPB-6	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	--	
DPB-7	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	--	
DPB-8	05/01/03	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
DPB-S	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

Groundwater Monitoring Program

Table A. Semi-Annual Groundwater Monitoring Program - 7240 Dublin Boulevard, Dublin, CA

Well ID	Well Type	Screened Interval (ft bgs)	Well Location for Monitoring	Casing Diam. (in)	Gauge Frequency	Sample Frequency ^{1,2}
Surface Water						
C-1*	Gauging Point	--	W, Flood Control Channel	--	1st, 3rd	---
Vapor Wells						
VW-1	Mon+SVE (Proposed DPE)	3-9	Source	2	1st, 3rd	1st
VW-2	Mon+SVE (Proposed DPE)	3-9	Source	2	1st, 3rd	1st
VW-3	Mon+SVE (Proposed DPE)	3-9	Source	2	1st, 3rd	1st
Upper Shallow AA-Zone Wells						
DPE-1	DPE	9-14	W Intermediate	4	1st, 3rd	1st, 3rd
DPE-2	DPE	9-14	W Intermediate	4	1st, 3rd	1st, 3rd
MW-7AA	Mon (Proposed DPE)	9-14	Source	4	1st, 3rd	1st, 3rd
Shallow A-Zone Wells						
MW-1	Mon	5-25	W, Adjacent SS	2	1st, 3rd	1st, 3rd
MW-2	Mon	5-20	W, Adjacent Flood Channel	2	1st, 3rd	1st, 3rd
MW-3A	Mon (Proposed DPE)	10-17	N Source, Adjacent SS	4	1st, 3rd	1st, 3rd
MW-4	Mon	8.5-20	NW Upgradient, Offsite	2	1st, 3rd	1st
MW-5	Mon	8.5-21	W Upgradient, Offsite	2	1st, 3rd	1st
MW-6A	Mon (Proposed DPE)	15-20	N Source, Adjacent SS	4	1st, 3rd	1st, 3rd
MW-7A	Mon (Proposed DPE)	16-20	Source	4	1st, 3rd	1st, 3rd
MW-8A	Mon	15-20	S, Adjacent Building	2	1st, 3rd	1st, 3rd
MW-9A	Mon	15-20	NE Perimeter	2	1st, 3rd	1st, 3rd
MW-10A	Mon	15-20	S Perimeter	2	1st, 3rd	1st
Intermediate Depth B-Zone Wells						
MW-6B	Mon	26-30	N Source, Adjacent SS	2	1st, 3rd	1st
MW-7B	Mon	26-30	Source	2	1st, 3rd	1st
Deep C-Zone Wells						
MW-6C	Mon	34-44	N Source, Adjacent SS	2	---	---
MW-7C	Mon	35-45	Source	2	---	---
MW-9C	Mon	35-45	NE Perimeter	2	---	---
MW-10C	Mon	35-45	S Perimeter	2	---	---
MW-11C	Mon	33.5-43.5	W Intermediate	2	---	---

Notes and Abbreviations:

1 = Summary: 10 wells sampled 3rd quarter, 16 wells sampled 1st quarter. 5 C-zone wells not sampled.

2 = Sample Analytes: Total Petroleum Hydrocarbons as Gasoline (TPHg), benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8015Cm/8021B.

3 = Naphthalene by EPA Method 8260B.

1st = 1st quarter, typically February

3rd = 3rd quarter, typically August

Mon = Groundwater Monitoring Only

SVE = Soil Vapor Extraction

DPE = Dual Phase Extraction

N, S, W, E = Cardinal directions North, South, West, East and other directions (e.g., Northeast = NE)

SS = Sanitary Sewer beneath Dublin Blvd

* = Surface water level gauging point, not a well.

-- = Not gauged or sampled.

APPENDIX B

Groundwater Monitoring Field Data Sheets

Meter Calibration Log

EQUIPMENT MAKE	EQUIPMENT MODEL	SERIAL NUMBER	DATE	TIME	TEMP OF CALIBRATION STANDARD (°C or °F)	pH STANDARD	pH STANDARD	pH STANDARD	SPECIFIC CONDUCTANCE	ORP	DISSOLVED OXYGEN
						4	7	10			
YSI	O DO	10K101235	9/16/14	0620	—	—	—	—	1417 μ S/cm	— mV	100 mg/L of DO
Mycon L	Ultrameter	6216462	L	0605	18.5	4.0	7.0	10.0	1417	—	—

Well Gauging Data Sheet

Project Task #: M1-140916 Project Name: Dublin outwash
 Address: 7240 Dublin Blvd Date: 9/16/14
 Name: Eric Morse Signature: [Signature]

Well ID	Well Size (in.)	Time	Depth to Immiscible Liquid (ft)	Thickness of Immiscible Liquid (ft)	Depth to Water (ft)	Total Depth (ft)	Measuring Point	Pre DO.
DPE-1	4	823			10.45	13.73	TOC	1.04
DPE-2	4	820			10.95	13.73		0.91
VW-1	2	744			6.98	8.38		0.51
VW-2	2	800			7.60	8.30		0.73
VW-3	2	816			Dry	8.65		—
MW-1	2	727			13.05	25.30		0.63
MW-2	2	732			8.88	20.00		0.90
MW-3A	4	828			11.44	16.80		0.80
MW-4	2	841			11.59	19.75		0.65
MW-5	2	835			11.43	20.56		0.50
MW-6A	2	809			11.89	19.35		0.66

Comments: removed caps prior to gauging to allow for stabilization.
no SPK detected in MW-3A.

Well Gauging Data Sheet

Project Task #: MI-140916	Project Name: Dublin auto wash
Address: 7240 Dublin Blvd, Dublin	Date: 9/16/14
Name: Eric Morse	Signature: <i>[Signature]</i>

Well ID	Well Size (in.)	Time	Depth to Immiscible Liquid (ft)	Thickness of Immiscible Liquid (ft)	Depth to Water (ft)	Total Depth (ft)	Measuring Point	mg/L Pre.D.O.	
MW-6B	2	813			10.38	29.70	TOC	1.00	
MW-7A	4	752			10.50	19.50		0.50	
MW-7AA	4	757			10.27	13.83		0.86	
MW-7B	2	748			10.32	28.20		0.84	
MW-8A	2	740			10.70	19.00		1.05	
MW-9A	2	804			12.03	19.65		1.07	
MW-10A	2	737			9.42	19.50		0.61	
C-1	—	724			12.05	—		hashmark	—

Comments:

MONITORING FIELD DATA SHEET

Well ID: DPE-1

Project.Task #: 1001.001				Project Name: Dublin Auto Wash				
Address: 7240 Dublin Blvd., Dublin								
Date: <u>9/16/14</u>				Weather: <u>Clear</u>				
Well Diameter: <u>4</u>				Volume/ft.	1" = 0.04	3" = 0.37	6" = 1.47	radius ² * 0.163
Total Depth (TD): <u>13.73</u>				Depth to Product: <u>—</u>				
Depth to Water (DTW): <u>10.45</u>				Product Thickness: <u>—</u>				
Water Column Height: <u>3.28</u>				1 Casing Volume: <u>2.13</u>		gallons		
Reference Point: N side TOC				<u>3</u> Casing Volumes: <u>6.39</u>		gallons		
Purging Device: Disposable Bailer <u>2" Submersible</u>								
Sampling Device: Disposable Bailer								
Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
					Pre: <u>1.04</u>			
<u>1054</u>	<u>20.4</u>	<u>6.66</u>	<u>7105</u>	<u>18</u>	<u>—</u>	<u>—</u>	<u>2.25</u>	<u>—</u>
<u>Deaerated @ 2.5 gallons. return to sample.</u>								
<u>1130</u>	<u>21.0</u>	<u>6.77</u>	<u>6804</u>	<u>11</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>12.00</u>

odor

Comments: 11.11 = 80% Pre ORP - -88mv.

12.00 DTW sample (Site Dept)

Sample ID: <u>DPE-1</u>		Sample Time: <u>1130</u>	
Laboratory: <u>McC Campbell</u>		Sample Date: <u>9/16/14</u>	
Containers/Preservative: <u>2 HCL VOAs</u>			
Analyzed for: <u>TPHg/BTEX/MTBE</u>			
Sampler Name: <u>Eric Morse</u>		Signature: <u>[Signature]</u>	

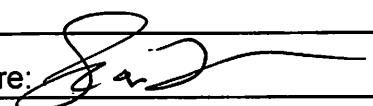
MONITORING FIELD DATA SHEET

Well ID: DPE-2

Project.Task #: 1001.001				Project Name: Dublin Auto Wash				
Address: 7240 Dublin Blvd., Dublin								
Date: <u>9/16/14</u>				Weather: <u>clear</u>				
Well Diameter: <u>4</u>				Volume/ft.	1" = 0.04	3" = 0.37	6" = 1.47	
				2" = 0.16	4" = 0.65	radius ² * 0.163		
Total Depth (TD): <u>13.73</u>				Depth to Product:				
Depth to Water (DTW): <u>10.95</u>				Product Thickness:				
Water Column Height: <u>2.78</u>				1 Casing Volume: <u>1.81</u>		gallons		
Reference Point: N side TOC				3 Casing Volumes: <u>5.43</u>		gallons		
Purging Device: Disposable Bailer <u>2" Submersible</u>								
Sampling Device: Disposable Bailer								
Time	Temp (°C)	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
					Pre:0.91			
10:10 <u>10:48</u>	<u>20.0</u>	<u>6.8</u>	<u>2327</u>	<u>155</u>	<u>—</u>	<u>—</u>	<u>2.0</u>	
		<u>Deaerated @</u>		<u>2.0 gallons</u>				
<u>11:20</u>	<u>20.7</u>	<u>6.90</u>	<u>2365</u>	<u>12</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>12.35</u>

Comments: 11.51 = 80% Pre ORP - -79mV

12.35 DTW @ sample (site Dept)

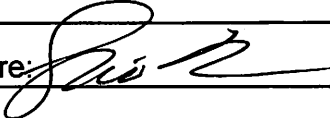
Sample ID: <u>DPE-2</u>	Sample Time: <u>1120</u>
Laboratory: <u>McC Campbell</u>	Sample Date: <u>9/16/14</u>
Containers/Preservative: <u>4 HCL VOAs</u>	
Analyzed for: <u>TPHg/BTEX/MTBE + Napth.</u>	
Sampler Name: <u>Eric Morse</u>	Signature: 

MONITORING FIELD DATA SHEET

Well ID: MW-1

Project.Task #: 1001.001				Project Name: Dublin Auto Wash				
Address: 7240 Dublin Blvd., Dublin								
Date: <u>9/16/14</u>				Weather: <u>clear</u>				
Well Diameter: <u>2</u>				Volume/ft.	1" = 0.04	3" = 0.37	6" = 1.47	
				2" = 0.16	4" = 0.65	radius ² * 0.163		
Total Depth (TD): <u>25.30</u>				Depth to Product:				
Depth to Water (DTW): <u>13.05</u>				Product Thickness:				
Water Column Height: <u>12.25</u>				1 Casing Volume: <u>1.96</u>		gallons		
Reference Point: N side TOC				3 Casing Volumes: <u>5.88</u>		gallons		
Purging Device: Disposable Bailer								
Sampling Device: Disposable Bailer								
Time	Temp @	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
					Pre: <u>0.63</u>			
<u>941</u>	<u>19.3</u>	<u>6.93</u>	<u>3485</u>	<u>135</u>	—	—	<u>2.0</u>	
<u>946</u>	<u>19.2</u>	<u>7.10</u>	<u>3494</u>	<u>215</u>	—	—	<u>4.0</u>	
<u>951</u>	<u>19.0</u>	<u>7.16</u>	<u>3483</u>	<u>265</u>	—	—	<u>6.0</u>	<u>15.50</u>
		<u>waited</u>	<u>for 80%</u>					

Comments: 15.50 = 80% Pre ORP: -35mv

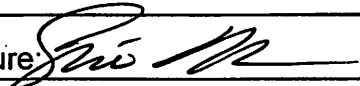
Sample ID: <u>MW-1</u>		Sample Time: <u>955</u>	
Laboratory: <u>McC Campbell</u>		Sample Date: <u>9/16/14</u>	
Containers/Preservative: <u>2</u> HCL VOAs			
Analyzed for: <u>TPHg/BTEX/MTBE</u>			
Sampler Name: <u>Eric Morse</u>		Signature: 	

MONITORING FIELD DATA SHEET

Well ID: MW-2

Project.Task #: 1001.001				Project Name: Dublin Auto Wash				
Address: 7240 Dublin Blvd., Dublin								
Date: <u>9/16/14</u>				Weather: <u>Clear</u>				
Well Diameter: <u>2</u>				Volume/ft.	1" = 0.04	3" = 0.37	6" = 1.47	radius ² * 0.163
				2" = 0.16	4" = 0.65			
Total Depth (TD): <u>20.0</u>				Depth to Product:				
Depth to Water (DTW): <u>8.88</u>				Product Thickness:				
Water Column Height: <u>11.12</u>				1 Casing Volume: <u>1.78</u>		gallons		
Reference Point: N side TOC				<u>3</u> Casing Volumes: <u>5.33</u>		gallons		
Purging Device: Disposable Bailer								
Sampling Device: Disposable Bailer								
Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
					Pre: <u>0.90</u>			
<u>956</u>	<u>20.1</u>	<u>7.15</u>	<u>2679</u>	<u>77</u>	—	—	<u>1.8</u>	
<u>1001</u>	<u>19.4</u>	<u>7.08</u>	<u>2605</u>	<u>115</u>	—	—	<u>3.6</u>	
<u>1005</u>	<u>19.3</u>	<u>7.04</u>	<u>2588</u>	<u>195</u>	—	—	<u>5.4</u>	<u>11.10</u>
		<u>waited for 80%</u>						

Comments: 110 = 80% Pre ORP - 49mv.

Sample ID: <u>MW-2</u>		Sample Time: <u>1010</u>	
Laboratory: <u>McC Campbell</u>		Sample Date: <u>9/16/14</u>	
Containers/Preservative: <u>2</u> HCL VOAs			
Analyzed for: <u>TPHg/BTEX/MTBE</u>			
Sampler Name: <u>Eric Morse</u>		Signature: 	

MONITORING FIELD DATA SHEET

Well ID: MW-3A

Project.Task #: 1001.001				Project Name: Dublin Auto Wash				
Address: 7240 Dublin Blvd., Dublin								
Date: <u>9/16/14</u>				Weather: <u>clear</u>				
Well Diameter: <u>4"</u>				Volume/ft.	1" = 0.04	3" = 0.37	6" = 1.47	radius ² * 0.163
Total Depth (TD): <u>16.80</u>				Depth to Product:				
Depth to Water (DTW): <u>11.44</u>				Product Thickness:				
Water Column Height: <u>5.36</u>				1 Casing Volume: <u>3.48</u>		gallons		
Reference Point: N side TOC				3 Casing Volumes: <u>10.45</u>		gallons		
Purging Device: Disposable Bailer								
Sampling Device: Disposable Bailer								
Time	Temp @	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
					Pre: <u>0.80</u>			
<u>1101</u>	<u>20.3</u>	<u>6.84</u>	<u>2110</u>	<u>395</u>	—	—	<u>3.5</u>	—
		<u>Deaerated</u>	<u>6.0</u>	<u>gallons, return to sample</u>				
<u>1140</u>	<u>20.5</u>	<u>6.98</u>	<u>2079</u>	<u>13</u>	—	—	—	<u>14.25</u>

0
0.4m

Comments: DSL = 80% Pre ORP - -78mv
 "soapy" bubbles on surface of water.

14.25 DTW e sample (site Dept)

Sample ID: <u>MW-3A</u>	Sample Time: <u>1140</u>
Laboratory: <u>McC Campbell</u>	Sample Date: <u>9/16/14</u>
Containers/Preservative: <u>4 HCL VOAs</u>	
Analyzed for: <u>TPHg/BTEX/MTBE & Napth.</u>	
Sampler Name: <u>Eric Morse</u>	Signature: <u>[Signature]</u>

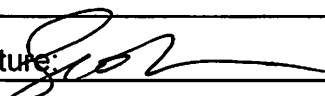
MONITORING FIELD DATA SHEET

Well ID: MW-6A

Project.Task #: 1001.001				Project Name: Dublin Auto Wash				
Address: 7240 Dublin Blvd., Dublin								
Date: <u>9/16/14</u>				Weather: <u>clear</u>				
Well Diameter: <u>2</u>				Volume/ft.	1" = 0.04	3" = 0.37	6" = 1.47	radius ² * 0.163
				2" = 0.16	4" = 0.65			
Total Depth (TD): <u>19.35</u>				Depth to Product:				
Depth to Water (DTW): <u>11.89</u>				Product Thickness:				
Water Column Height: <u>7.46</u>				1 Casing Volume: <u>1.21</u>		gallons		
Reference Point: N side TOC				<u>3</u> Casing Volumes: <u>3.63</u>		gallons		
Purging Device: Disposable Bailer								
Sampling Device: Disposable Bailer								
Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
					Pre: <u>0.66</u>			
<u>925</u>	<u>20.5</u>	<u>6.95</u>	<u>1693</u>	<u>>1000</u>			<u>1.25</u>	
<u>927</u>	<u>20.3</u>	<u>6.85</u>	<u>1768</u>	<u>↓</u>			<u>2.50</u>	
<u>930</u>	<u>20.4</u>	<u>6.81</u>	<u>1724</u>	<u>↓</u>			<u>3.75</u>	<u>13.35</u>
<u>Briefly waited for 80% to sample. →</u>								

Comments: 1338 = 80%

Pre ORP- 19mv

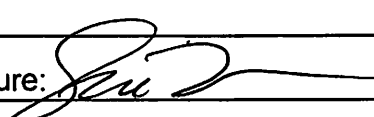
Sample ID: <u>MW-6A</u>	Sample Time: <u>935</u>
Laboratory: <u>McC Campbell</u>	Sample Date: <u>9/16/14</u>
Containers/Preservative: <u>4 HCL VOAs</u>	
Analyzed for: <u>TPHg/BTEX/MTBE & Napth.</u>	
Sampler Name: <u>Eric Morse</u>	Signature: 

MONITORING FIELD DATA SHEET

Well ID: MW-7A

Project.Task #: 1001.001				Project Name: Dublin Auto Wash				
Address: 7240 Dublin Blvd., Dublin								
Date: <u>9/16/14</u>				Weather: <u>Clear</u>				
Well Diameter: <u>4</u>				Volume/ft.	1" = 0.04	3" = 0.37	6" = 1.47	
				2" = 0.16	4" = 0.65	radius ² * 0.163		
Total Depth (TD): <u>19.50</u>				Depth to Product:				
Depth to Water (DTW): <u>10.50</u>				Product Thickness:				
Water Column Height: <u>9.0</u>				1 Casing Volume: <u>585</u>		gallons		
Reference Point: N side TOC				<u>3</u> Casing Volumes: <u>17.55</u>		gallons		
Purging Device: Disposable Bailer <u>2" Submersible</u>								
Sampling Device: Disposable Bailer								
Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
					Pre: <u>0.50</u>			
<u>1018</u>	<u>20.9</u>	<u>7.0</u>	<u>1688</u>	<u>5</u>	<u>—</u>	<u>—</u>	<u>6.0</u>	
<u>1023</u>	<u>20.7</u>	<u>6.95</u>	<u>1607</u>	<u>4</u>	<u>—</u>	<u>—</u>	<u>12.0</u>	
<u>1028</u>	<u>20.6</u>	<u>6.91</u>	<u>1595</u>	<u>4</u>	<u>—</u>	<u>—</u>	<u>18.0</u>	<u>12.30</u>
		<u>waited for</u>	<u>80%</u>					

Comments: 12.30 = 80% Pre ORP - 0mv.

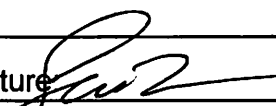
Sample ID: <u>MW-7A</u>	Sample Time: <u>1035</u>
Laboratory: <u>McC Campbell</u>	Sample Date: <u>9/16/14</u>
Containers/Preservative: <u>4</u> HCL VOAs	
Analyzed for: <u>TPHg/BTEX/MTBE + Naph.</u>	
Sampler Name: <u>Eric Morse</u>	Signature: 

MONITORING FIELD DATA SHEET

Well ID: MW-7AA

Project.Task #: 1001.001				Project Name: Dublin Auto Wash				
Address: 7240 Dublin Blvd., Dublin								
Date: <u>9/16/14</u>				Weather: <u>Clear</u>				
Well Diameter: <u>4</u>				Volume/ft.	1" = 0.04	3" = 0.37	6" = 1.47	radius ² * 0.163
Total Depth (TD): <u>13.83</u>				Depth to Product:				
Depth to Water (DTW): <u>10.27</u>				Product Thickness:				
Water Column Height: <u>3.56</u>				1 Casing Volume: <u>2.31</u>	gallons			
Reference Point: N side TOC				3 Casing Volumes: <u>6.93</u>	gallons			
Purging Device: Disposable Bailer <u>2" Submersible</u>								
Sampling Device: Disposable Bailer								
Time	Temp @	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
					Pre- <u>0.86</u>			
<u>1040</u>	<u>21.7</u>	<u>6.85</u>	<u>1668</u>	<u>9</u>	—	—	<u>2.5</u>	
		<u>Decont. @ 2.5 gallons, return to sample</u>						
<u>1110</u>	<u>21.3</u>	<u>7.10</u>	<u>1682</u>	<u>15</u>	—	—	—	<u>11.60</u>

Comments: 10.98 = 80% Pre ORP = -5mv.
Site Dept: 11.60


Sample ID: <u>MW-7AA</u>		Sample Time: <u>1110</u>	
Laboratory: <u>McC Campbell</u>		Sample Date: <u>9/16/14</u>	
Containers/Preservative: <u>2 HCL VOAs</u>			
Analyzed for: <u>TPHg/BTEX/MTBE</u>			
Sampler Name: <u>Eric Morse</u>		Signature: 	

MONITORING FIELD DATA SHEET

Well ID: MW-8A

Project.Task #: 1001.001				Project Name: Dublin Auto Wash				
Address: 7240 Dublin Blvd., Dublin								
Date: <u>9/16/14</u>				Weather: <u>Clear</u>				
Well Diameter: <u>2</u>				Volume/ft.	1" = 0.04	3" = 0.37	6" = 1.47	radius ² * 0.163
				2" = 0.16	4" = 0.65			
Total Depth (TD): <u>19.00</u>				Depth to Product:				
Depth to Water (DTW): <u>10.70</u>				Product Thickness:				
Water Column Height: <u>8.30</u>				1 Casing Volume: <u>1.33</u>		gallons		
Reference Point: N side TOC				<u>3</u> Casing Volumes: <u>3.99</u>		gallons		
Purging Device: Disposable Bailer								
Sampling Device: Disposable Bailer <u>1236 = 80%</u>								
Time	Temp @	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
				<u>2</u>	Pre: <u>1.05</u>		<u>1.4</u>	
<u>855</u>	<u>19.5</u>	<u>6.3</u>	<u>1377</u>	<u>26</u>	<u>---</u>	<u>---</u>	<u>2.814</u>	
<u>867</u>	<u>19.5</u>	<u>6.6</u>	<u>1342</u>	<u>57</u>	<u>---</u>	<u>---</u>	<u>4.028</u>	
<u>86A</u>	<u>19.4</u>	<u>6.65</u>	<u>1347</u>	<u>65</u>	<u>---</u>	<u>---</u>	<u>4.0</u>	<u>12.05</u>

Comments: PRE ORP 6mv


Sample ID: <u>MW-8A</u>	Sample Time: <u>900</u>
Laboratory: McCampbell	Sample Date: <u>9/16/14</u>
Containers/Preservative: <u>4</u> HCL VOAs	
Analyzed for: TPHg/BTEX/MTBE & <u>NaPh</u>	
Sampler Name: Eric Morse	Signature: 

MONITORING FIELD DATA SHEET

Well ID: MW-9A

Project.Task #: 1001.001				Project Name: Dublin Auto Wash				
Address: 7240 Dublin Blvd., Dublin								
Date: <u>9/16/14</u>				Weather: <u>C/cw</u>				
Well Diameter: <u>2</u>				Volume/ft.	1" = 0.04	3" = 0.37	6" = 1.47	radius ² * 0.163
				2" = 0.16	4" = 0.65			
Total Depth (TD): <u>19.65</u>				Depth to Product:				
Depth to Water (DTW): <u>12.03</u>				Product Thickness:				
Water Column Height: <u>7.62</u>				1 Casing Volume: <u>1.22</u>		gallons		
Reference Point: N side TOC				<u>3</u> Casing Volumes: <u>3.66</u>		gallons		
Purging Device: Disposable Bailer								
Sampling Device: Disposable Bailer								
Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
					Pre: <u>1.07</u>			
<u>911</u>	<u>21.3</u>	<u>7.10</u>	<u>799</u>	<u>155</u>			<u>1.25</u>	
<u>113</u>	<u>21.4</u>	<u>7.0</u>	<u>798</u>	<u>327</u>			<u>2.50</u>	
<u>915</u>	<u>21.4</u>	<u>7.0</u>	<u>797</u>	<u>695</u>			<u>3.75</u>	<u>13.07</u>

Comments: 13.55 = 80% PRE ORP -1

Sample ID: <u>MW-9A</u>	Sample Time: <u>920</u>
Laboratory: <u>McC Campbell</u>	Sample Date: <u>9/16/14</u>
Containers/Preservative: <u>4</u> HCL VOAs	
Analyzed for: <u>TPHg/BTEX/MTBE + Napth</u>	
Sampler Name: <u>Eric Morse</u>	Signature: 

APPENDIX C

Laboratory Analytical Results



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1409556

Report Created for: Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612

Project Contact: Elizabeth DeRubeis

Project P.O.:

Project Name: #M1-140916; 7240 Dublin Blvd, Dublin

Project Received: 09/16/2014

Analytical Report reviewed & approved for release on 09/22/2014 by:

Question about
your data?

[Click here to email
McC Campbell](#)

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: Pangea Environmental Svcs., Inc.
Project: #M1-140916; 7240 Dublin Blvd, Dublin
WorkOrder: 1409556

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

Analytical Qualifiers

d1 weakly modified or unmodified gasoline is significant



Analytical Report

Client: Pangea Environmental Svcs., Inc.
Project: #M1-140916; 7240 Dublin Blvd, Dublin
Date Received: 9/16/14 15:52
Date Prepared: 9/20/14-9/21/14

WorkOrder: 1409556
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Naphthalene by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-2	1409556-002B	Water	09/16/2014 11:20	GC38	95477

Analytes	Result	RL	DF	Date Analyzed
Naphthalene	ND	0.50	1	09/20/2014 00:14

Surrogates	REC (%)	Limits	Date Analyzed
4-BFB	91	70-130	09/20/2014 00:14

Analyst(s): AK

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-3A	1409556-005B	Water	09/16/2014 11:40	GC38	95477

Analytes	Result	RL	DF	Date Analyzed
Naphthalene	350	12	25	09/20/2014 04:45

Surrogates	REC (%)	Limits	Date Analyzed
4-BFB	92	70-130	09/20/2014 04:45

Analyst(s): AK

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-6A	1409556-006B	Water	09/16/2014 09:35	GC28	95477

Analytes	Result	RL	DF	Date Analyzed
Naphthalene	63	2.5	5	09/21/2014 01:14

Surrogates	REC (%)	Limits	Date Analyzed
4-BFB	87	70-130	09/21/2014 01:14

Analyst(s): KBO

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-7A	1409556-007B	Water	09/16/2014 10:35	GC38	95477

Analytes	Result	RL	DF	Date Analyzed
Naphthalene	ND	0.50	1	09/20/2014 00:53

Surrogates	REC (%)	Limits	Date Analyzed
4-BFB	90	70-130	09/20/2014 00:53

Analyst(s): AK

(Cont.)



Analytical Report

Client: Pangea Environmental Svcs., Inc.
Project: #M1-140916; 7240 Dublin Blvd, Dublin
Date Received: 9/16/14 15:52
Date Prepared: 9/20/14-9/21/14

WorkOrder: 1409556
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Naphthalene by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-8A	1409556-009B	Water	09/16/2014 09:00	GC38	95477

Analytes	Result	RL	DF	Date Analyzed
Naphthalene	ND	0.50	1	09/20/2014 01:32

Surrogates	REC (%)	Limits	Date Analyzed
4-BFB	90	70-130	09/20/2014 01:32

Analyst(s): AK

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-9A	1409556-010B	Water	09/16/2014 09:20	GC38	95477

Analytes	Result	RL	DF	Date Analyzed
Naphthalene	ND	0.50	1	09/20/2014 02:11

Surrogates	REC (%)	Limits	Date Analyzed
4-BFB	90	70-130	09/20/2014 02:11

Analyst(s): AK



Analytical Report

Client: Pangea Environmental Svcs., Inc.
Project: #M1-140916; 7240 Dublin Blvd, Dublin
Date Received: 9/16/14 15:52
Date Prepared: 9/19/14

WorkOrder: 1409556
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-1	1409556-001A	Water	09/16/2014 11:30	GC3	95428

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	61	50	1	09/19/2014 18:29
MTBE	140	5.0	1	09/19/2014 18:29
Benzene	0.68	0.50	1	09/19/2014 18:29
Toluene	0.61	0.50	1	09/19/2014 18:29
Ethylbenzene	ND	0.50	1	09/19/2014 18:29
Xylenes	ND	0.50	1	09/19/2014 18:29
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	Analytical Comments: d1	
aaa-TFT_2	104	70-130		09/19/2014 18:29

Analyst(s): IA

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
DPE-2	1409556-002A	Water	09/16/2014 11:20	GC3	95428

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	120	50	1	09/19/2014 18:59
MTBE	ND	5.0	1	09/19/2014 18:59
Benzene	0.86	0.50	1	09/19/2014 18:59
Toluene	2.4	0.50	1	09/19/2014 18:59
Ethylbenzene	ND	0.50	1	09/19/2014 18:59
Xylenes	ND	0.50	1	09/19/2014 18:59
<u>Surrogates</u>	<u>REC (%)</u>	<u>Limits</u>	Analytical Comments: d1	
aaa-TFT_2	108	70-130		09/19/2014 18:59

Analyst(s): IA



Analytical Report

Client: Pangea Environmental Svcs., Inc.
Project: #M1-140916; 7240 Dublin Blvd, Dublin
Date Received: 9/16/14 15:52
Date Prepared: 9/19/14

WorkOrder: 1409556
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-1	1409556-003A	Water	09/16/2014 09:55	GC3	95428

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	09/19/2014 01:54
MTBE	ND	5.0	1	09/19/2014 01:54
Benzene	ND	0.50	1	09/19/2014 01:54
Toluene	ND	0.50	1	09/19/2014 01:54
Ethylbenzene	ND	0.50	1	09/19/2014 01:54
Xylenes	ND	0.50	1	09/19/2014 01:54
Surrogates	REC (%)	Limits		
aaa-TFT_2	101	70-130		09/19/2014 01:54

Analyst(s): IA

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-2	1409556-004A	Water	09/16/2014 10:10	GC3	95428

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	09/19/2014 07:19
MTBE	ND	5.0	1	09/19/2014 07:19
Benzene	ND	0.50	1	09/19/2014 07:19
Toluene	ND	0.50	1	09/19/2014 07:19
Ethylbenzene	ND	0.50	1	09/19/2014 07:19
Xylenes	ND	0.50	1	09/19/2014 07:19
Surrogates	REC (%)	Limits		
aaa-TFT_2	100	70-130		09/19/2014 07:19

Analyst(s): IA



Analytical Report

Client: Pangea Environmental Svcs., Inc.
Project: #M1-140916; 7240 Dublin Blvd, Dublin
Date Received: 9/16/14 15:52
Date Prepared: 9/19/14

WorkOrder: 1409556
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-3A	1409556-005A	Water	09/16/2014 11:40	GC3	95428

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	10,000	500	10	09/19/2014 04:22
MTBE	270	50	10	09/19/2014 04:22
Benzene	330	5.0	10	09/19/2014 04:22
Toluene	78	5.0	10	09/19/2014 04:22
Ethylbenzene	380	5.0	10	09/19/2014 04:22
Xylenes	1700	5.0	10	09/19/2014 04:22

Surrogates	REC (%)	Limits	Analytical Comments: d1
aaa-TFT_2	109	70-130	09/19/2014 04:22

Analyst(s): IA

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-6A	1409556-006A	Water	09/16/2014 09:35	GC3	95428

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	1200	250	5	09/19/2014 05:50
MTBE	ND	25	5	09/19/2014 05:50
Benzene	100	2.5	5	09/19/2014 05:50
Toluene	4.2	2.5	5	09/19/2014 05:50
Ethylbenzene	23	2.5	5	09/19/2014 05:50
Xylenes	70	2.5	5	09/19/2014 05:50

Surrogates	REC (%)	Limits	Analytical Comments: d1
aaa-TFT_2	104	70-130	09/19/2014 05:50

Analyst(s): IA



Analytical Report

Client: Pangea Environmental Svcs., Inc.
Project: #M1-140916; 7240 Dublin Blvd, Dublin
Date Received: 9/16/14 15:52
Date Prepared: 9/19/14

WorkOrder: 1409556
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-7A	1409556-007A	Water	09/16/2014 10:35	GC3	95428

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	09/19/2014 06:20
MTBE	ND	5.0	1	09/19/2014 06:20
Benzene	ND	0.50	1	09/19/2014 06:20
Toluene	ND	0.50	1	09/19/2014 06:20
Ethylbenzene	ND	0.50	1	09/19/2014 06:20
Xylenes	ND	0.50	1	09/19/2014 06:20

Surrogates	REC (%)	Limits	Date Analyzed
aaa-TFT_2	103	70-130	09/19/2014 06:20

Analyst(s): IA

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-7AA	1409556-008A	Water	09/16/2014 11:10	GC3	95428

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	120	50	1	09/19/2014 06:49
MTBE	16	5.0	1	09/19/2014 06:49
Benzene	ND	0.50	1	09/19/2014 06:49
Toluene	2.2	0.50	1	09/19/2014 06:49
Ethylbenzene	ND	0.50	1	09/19/2014 06:49
Xylenes	ND	0.50	1	09/19/2014 06:49

Surrogates	REC (%)	Limits	Analytical Comments: d1	Date Analyzed
aaa-TFT_2	106	70-130		09/19/2014 06:49

Analyst(s): IA



Analytical Report

Client: Pangea Environmental Svcs., Inc.
Project: #M1-140916; 7240 Dublin Blvd, Dublin
Date Received: 9/16/14 15:52
Date Prepared: 9/19/14

WorkOrder: 1409556
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-8A	1409556-009A	Water	09/16/2014 09:00	GC3	95428

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	09/19/2014 07:48
MTBE	ND	5.0	1	09/19/2014 07:48
Benzene	ND	0.50	1	09/19/2014 07:48
Toluene	ND	0.50	1	09/19/2014 07:48
Ethylbenzene	ND	0.50	1	09/19/2014 07:48
Xylenes	ND	0.50	1	09/19/2014 07:48
Surrogates	REC (%)	Limits		
aaa-TFT_2	103	70-130		09/19/2014 07:48

Analyst(s): IA

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
MW-9A	1409556-010A	Water	09/16/2014 09:20	GC3	95428

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	09/19/2014 08:18
MTBE	ND	5.0	1	09/19/2014 08:18
Benzene	ND	0.50	1	09/19/2014 08:18
Toluene	ND	0.50	1	09/19/2014 08:18
Ethylbenzene	ND	0.50	1	09/19/2014 08:18
Xylenes	ND	0.50	1	09/19/2014 08:18
Surrogates	REC (%)	Limits		
aaa-TFT_2	99	70-130		09/19/2014 08:18

Analyst(s): IA



Quality Control Report

Client: Pangea Environmental Svcs., Inc.
Date Prepared: 9/20/14
Date Analyzed: 9/19/14
Instrument: GC38
Matrix: Water
Project: #M1-140916; 7240 Dublin Blvd, Dublin

WorkOrder: 1409556
BatchID: 95477
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-95477
 1409652-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	9.07	0.50	10	-	91	64-120
Benzene	ND	9.31	0.50	10	-	93	73-123
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	37.8	2.0	40	-	95	29-146
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	9.66	0.50	10	-	97	77-116
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	9.51	0.50	10	-	95	68-111
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	8.97	0.50	10	-	90	37-150
1,1-Dichloroethene	ND	9.17	0.50	10	-	92	37-153
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-

(Cont.)



Quality Control Report

Client: Pangea Environmental Svcs., Inc.
Date Prepared: 9/20/14
Date Analyzed: 9/19/14
Instrument: GC38
Matrix: Water
Project: #M1-140916; 7240 Dublin Blvd, Dublin

WorkOrder: 1409556
BatchID: 95477
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-95477
 1409652-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	9.08	0.50	10	-	91	62-125
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	9.06	0.50	10	-	91	63-126
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	9.04	0.50	10	-	90	56-126
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	9.68	0.50	10	-	97	78-114
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	9.58	0.50	10	-	96	67-133
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-

Surrogate Recovery

Dibromofluoromethane	23.8	20.5		25	95	82	77-120
Toluene-d8	23.2	21.2		25	93	85	78-118
4-BFB	2.27	2.03		2.5	91	81	63-129

(Cont.)



Quality Control Report

Client: Pangea Environmental Svcs., Inc.
Date Prepared: 9/20/14
Date Analyzed: 9/19/14
Instrument: GC38
Matrix: Water
Project: #M1-140916; 7240 Dublin Blvd, Dublin

WorkOrder: 1409556
BatchID: 95477
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-95477
 1409652-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	10.1	9.49	10	ND	101	95	70-130	5.90	20
Benzene	9.41	8.90	10	ND	94	89	70-130	5.56	20
t-Butyl alcohol (TBA)	47.1	48.5	40	ND	118	121	70-130	2.93	20
Chlorobenzene	9.67	9.18	10	ND	97	92	70-130	5.21	20
1,2-Dibromoethane (EDB)	10.4	9.97	10	ND	105	100	70-130	4.71	20
1,2-Dichloroethane (1,2-DCA)	9.59	9.13	10	ND	96	91	70-130	4.93	20
1,1-Dichloroethene	9.55	9.02	10	ND	96	90	70-130	5.72	20
Diisopropyl ether (DIPE)	9.51	8.89	10	ND	95	89	70-130	6.75	20
Ethyl tert-butyl ether (ETBE)	9.81	9.15	10	ND	98	91	70-130	6.98	20
Methyl-t-butyl ether (MTBE)	10.2	9.56	10	ND	102	96	70-130	6.18	20
Toluene	9.53	9.01	10	ND	95	90	70-130	5.65	20
Trichloroethene	9.58	9.03	10	ND	96	90	70-130	5.86	20
Surrogate Recovery									
Dibromofluoromethane	25.6	25.6	25		103	102	70-130	0.0910	20
Toluene-d8	23.3	23.4	25		93	93	70-130	0	20
4-BFB	2.26	2.26	2.5		90	90	70-130	0	20



Quality Control Report

Client: Pangea Environmental Svcs., Inc.
Date Prepared: 9/18/14
Date Analyzed: 9/18/14
Instrument: GC3
Matrix: Water
Project: #M1-140916; 7240 Dublin Blvd, Dublin

WorkOrder: 1409556
BatchID: 95428
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: µg/L
Sample ID: MB/LCS-95428
 1409556-003AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	66.3	40	60	-	110	70-130
MTBE	ND	10.4	5.0	10	-	100	70-130
Benzene	ND	10.6	0.50	10	-	106	70-130
Toluene	ND	10.7	0.50	10	-	105	70-130
Ethylbenzene	ND	10.7	0.50	10	-	107	70-130
Xylenes	ND	32.4	0.50	30	-	108	70-130

Surrogate Recovery

aaa-TFT_2	9.67	10.2		10	97	102	70-130
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Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	68.0	67.9	60	ND	113	113	70-130	0	20
MTBE	10.2	10.3	10	ND	97	99	70-130	1.30	20
Benzene	10.1	10.6	10	ND	100	104	70-130	4.49	20
Toluene	10.2	10.7	10	ND	100	105	70-130	4.75	20
Ethylbenzene	10.3	10.7	10	ND	103	107	70-130	3.39	20
Xylenes	31.4	32.0	30	ND	103	106	70-130	2.19	20

Surrogate Recovery

aaa-TFT_2	9.58	10.0	10		96	100	70-130	4.71	20
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1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1409556

ClientCode: PEO

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Report to:

Elizabeth DeRubeis
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612
(510) 836-3700 FAX: (510) 836-3709

Email: ederubeis@pangeaenv.com
cc/3rd Party:
PO:
ProjectNo: #M1-140916; 7240 Dublin Blvd, Dublin

Bill to:

Bob Clark-Riddell
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612

Requested TAT:

5 days

Date Received: 09/16/2014

Date Printed: 09/22/2014

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1409556-001	DPE-1	Water	9/16/2014 11:30	<input type="checkbox"/>		A	A										
1409556-002	DPE-2	Water	9/16/2014 11:20	<input type="checkbox"/>	B	A											
1409556-003	MW-1	Water	9/16/2014 9:55	<input type="checkbox"/>		A											
1409556-004	MW-2	Water	9/16/2014 10:10	<input type="checkbox"/>		A											
1409556-005	MW-3A	Water	9/16/2014 11:40	<input type="checkbox"/>	B	A											
1409556-006	MW-6A	Water	9/16/2014 9:35	<input type="checkbox"/>	B	A											
1409556-007	MW-7A	Water	9/16/2014 10:35	<input type="checkbox"/>	B	A											
1409556-008	MW-7AA	Water	9/16/2014 11:10	<input type="checkbox"/>		A											
1409556-009	MW-8A	Water	9/16/2014 9:00	<input type="checkbox"/>	B	A											
1409556-010	MW-9A	Water	9/16/2014 9:20	<input type="checkbox"/>	B	A											

Test Legend:

1	8260VOC_W	2	G-MBTX_W	3	PREDF REPORT	4		5	
6		7		8		9		10	
11		12							

Prepared by: Maria Venegas

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: PANGEA ENVIRONMENTAL SVCS., INC.

QC Level: LEVEL 2

Work Order: 1409556

Project: #M1-140916; 7240 Dublin Blvd, Dublin

Client Contact: Elizabeth DeRubeis

Date Received: 9/16/2014

Comments:

Contact's Email: ederubeis@pangeaenv.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1409556-001A	DPE-1	Water	SW8021B/8015Bm (G/MBTEX)	2	VOA w/ HCl	<input type="checkbox"/>	9/16/2014 11:30	5 days	Present	<input type="checkbox"/>	
1409556-002A	DPE-2	Water	SW8021B/8015Bm (G/MBTEX)	2	VOA w/ HCl	<input type="checkbox"/>	9/16/2014 11:20	5 days	Present	<input type="checkbox"/>	
1409556-002B	DPE-2	Water	SW8260B (VOCs) <Naphthalene>	2	VOA w/ HCl	<input type="checkbox"/>	9/16/2014 11:20	5 days	Present	<input type="checkbox"/>	
1409556-003A	MW-1	Water	SW8021B/8015Bm (G/MBTEX)	2	VOA w/ HCl	<input type="checkbox"/>	9/16/2014 9:55	5 days	Present	<input type="checkbox"/>	
1409556-004A	MW-2	Water	SW8021B/8015Bm (G/MBTEX)	2	VOA w/ HCl	<input type="checkbox"/>	9/16/2014 10:10	5 days	Present	<input type="checkbox"/>	
1409556-005A	MW-3A	Water	SW8021B/8015Bm (G/MBTEX)	2	VOA w/ HCl	<input type="checkbox"/>	9/16/2014 11:40	5 days	Present	<input type="checkbox"/>	
1409556-005B	MW-3A	Water	SW8260B (VOCs) <Naphthalene>	2	VOA w/ HCl	<input type="checkbox"/>	9/16/2014 11:40	5 days	Present	<input type="checkbox"/>	
1409556-006A	MW-6A	Water	SW8021B/8015Bm (G/MBTEX)	2	VOA w/ HCl	<input type="checkbox"/>	9/16/2014 9:35	5 days	Present	<input type="checkbox"/>	
1409556-006B	MW-6A	Water	SW8260B (VOCs) <Naphthalene>	2	VOA w/ HCl	<input type="checkbox"/>	9/16/2014 9:35	5 days	Present	<input type="checkbox"/>	
1409556-007A	MW-7A	Water	SW8021B/8015Bm (G/MBTEX)	2	VOA w/ HCl	<input type="checkbox"/>	9/16/2014 10:35	5 days	Present	<input type="checkbox"/>	
1409556-007B	MW-7A	Water	SW8260B (VOCs) <Naphthalene>	2	VOA w/ HCl	<input type="checkbox"/>	9/16/2014 10:35	5 days	Present	<input type="checkbox"/>	
1409556-008A	MW-7AA	Water	SW8021B/8015Bm (G/MBTEX)	2	VOA w/ HCl	<input type="checkbox"/>	9/16/2014 11:10	5 days	Present	<input type="checkbox"/>	
1409556-009A	MW-8A	Water	SW8021B/8015Bm (G/MBTEX)	2	VOA w/ HCl	<input type="checkbox"/>	9/16/2014 9:00	5 days	Present	<input type="checkbox"/>	
1409556-009B	MW-8A	Water	SW8260B (VOCs) <Naphthalene>	2	VOA w/ HCl	<input type="checkbox"/>	9/16/2014 9:00	5 days	Present	<input type="checkbox"/>	
1409556-010A	MW-9A	Water	SW8021B/8015Bm (G/MBTEX)	2	VOA w/ HCl	<input type="checkbox"/>	9/16/2014 9:20	5 days	Present	<input type="checkbox"/>	
1409556-010B	MW-9A	Water	SW8260B (VOCs) <Naphthalene>	2	VOA w/ HCl	<input type="checkbox"/>	9/16/2014 9:20	5 days	Present	<input type="checkbox"/>	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

VOA w/ HCl = 43mL VOA w/ HCl



Confluence Environmental, Inc.
 3308 El Camino Ave, Suite 300 #148
 Sacramento, CA 95821
 916-760-7641 - main
 916-473-8617 - fax
 www.confluence-env.com

Chain of Custody

Project Name: 7240 Dublin Blvd, Dublin

Job Number: ML-140916

TAT: STANDARD 5 DAY 2 DAY 24 HOUR OTHER:

1409556

Lab: McCampbell	Site Address: 7240 Dublin Blvd, Dublin	Confluence PM: Jason Brown
Address: 1534 Willow Pass Rd, Pittsburg, CA 94565	California Global ID No.: T0608100975 <i>puremail</i>	Phone / Fax: 916-760-7641 / 916-473-8617
Contact:	Include EDF w/ Report: <u>Yes</u> No	Confluence Log Code: CESC
Phone/ Fax: 925-252-9262	Consultant / PM: Pangea / Morgan Gillies	Report to: Elizabeth DeRubeiss
	Phone / Fax: 510-759-8000	Invoice to: Pangea

Sample ID	Time	Date	Matrix			Laboratory No.	No. of Containers	Preservative					Requested Analysis					Notes and Comments			
			Soil/Solid	Water/Liquid	Air			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	TPH-G, BTEX, MTBE (8015Cm/8021B)	Napthalene (8260)							
+ DPE-1	1130	9/16/14	X				2				X				X						
+ DPE-2	1120		X				4				X				X	X					
+ MW-1	955		X				2				X				X						
+ MW-2	1010		X				2				X				X						
+ MW-3A	1140		X				4				X				X	X					
+ MW-6A	935		X				4				X				X	X					
+ MW-7A	1035		X				4				X				X	X					
+ MW-7AA	1110		X				2				X				X						
+ MW-8A	900		X				4				X				X	X					
+ MW-9A	920		X				4				X				X	X					

Sampler's Name: <u>Eric Morse</u>	Relinquished By / Affiliation		Date	Time	Accepted By / Affiliation		Date	Time
Sampler's Company: Confluence Environmental	<i>Eric Morse</i>		9/16/14	1250	<i>Jason Brown</i>		9/16/14	1250
Shipment Date:								
Shipment Method:								
Special Instructions: <u>Upon sample receipt please email pdf copy of COC to Jason Brown [jbrown@confluence-env.com]</u>								

ICE/P
 GOOD CONDITION
 HEAD SPACE ABSENT
 APPROPRIATE CONTAINERS PRESERVED IN LAB
 PRESERVATION VOAS O&G METALS OTHER



Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.** Date and Time Received: **9/16/2014 3:52:29 PM**
 Project Name: **#M1-140916; 7240 Dublin Blvd, Dublin** LogIn Reviewed by: **Maria Venegas**
 WorkOrder No: **1409556** Matrix: Water Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present? Yes No
 Chain of custody signed when relinquished and received? Yes No
 Chain of custody agrees with sample labels? Yes No
 Sample IDs noted by Client on COC? Yes No
 Date and Time of collection noted by Client on COC? Yes No
 Sampler's name noted on COC? Yes No

Sample Receipt Information

Custody seals intact on shipping container/cooler? Yes No NA
 Shipping container/cooler in good condition? Yes No
 Samples in proper containers/bottles? Yes No
 Sample containers intact? Yes No
 Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes No
 Container/Temp Blank temperature Cooler Temp: 1.5°C NA
 Water - VOA vials have zero headspace / no bubbles? Yes No NA
 Sample labels checked for correct preservation? Yes No
 pH acceptable upon receipt (Metal: pH<2; 522: pH<4)? Yes No NA
 Samples Received on Ice? Yes No
 (Ice Type: WET ICE)
 Total Chlorine tested and acceptable upon receipt for EPA 522? Yes No NA

* NOTE: If the "No" box is checked, see comments below.

 Comments: