

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

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9:33 am, Feb 25, 2011

Alameda County
Environmental Health

Mr. Paresh Khatri
Alameda County Health Care Services Agency
Department of Environmental Health
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



February 22, 2011

VIA ALAMEDA COUNTY FTP SITE

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


Re: **Groundwater Monitoring and Remediation Summary Report - Fourth Quarter 2010**
Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California
ACEH Case No. 304

Dear Mr. Khatri:

On behalf of Mr. Hooshang Hadjian, Pangea Environmental Services, Inc. has prepared this *Groundwater Monitoring and Remediation Summary Report – Fourth Quarter 2010*. The report describes groundwater monitoring and sampling, site remediation and other site activities. Remediation system startup testing was initiated on September 15, 2010 and continuous operation began on September 20, 2010. The remediation system was shutdown on November 15, 2010 due to low contaminant removal rates, the small localized extent of residual contaminant mass, and high system operation costs (diesel and propane).

Pangea plans to continue *quarterly* groundwater monitoring of select wells to evaluate post-remediation conditions in five key wells (DPE-1, DPE-2, MW-3A, MW-6A and MW-7AA). To help control monitoring costs, Pangea proposes to reduce the groundwater monitoring frequency wells MW-1, MW-2 and MW-8A to annual (first quarter). The proposed groundwater monitoring program is shown in Appendix A. If you have any questions or comments, please call me at (510) 435-8664.

Sincerely,
Pangea Environmental Services, Inc.


Bob Clark-Riddell, P.E.
Principal Engineer

Attachment: *Groundwater Monitoring and Remediation Summary Report – Fourth Quarter 2010*

cc: Mr. Hooshang Hadjian, 2108 San Ramon Valley Blvd, San Ramon, CA 94583
Mr. Jim Lange, 6500 Dublin Blvd., Suite 202, Dublin, CA 94568
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 AND REMEDIATION SUMMARY REPORT –
FOURTH QUARTER 2010**

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

February 22, 2010

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.

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INTRODUCTION

On behalf of Mr. Hooshang Hadjian, Pangea Environmental Services, Inc. (Pangea) conducted groundwater monitoring and sampling, and remediation system operation and sampling during this quarter 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). The purpose of the remediation is to clean up petroleum hydrocarbons and methyl tert-butyl ether (MTBE) from a historic fuel release. Current groundwater analytical results and elevation data are shown on Figure 2. Current and historical data are summarized on Table 2. Site remediation data are summarized on Tables 3 and 4.

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.

From approximately 1988 to 1997, Chevron Products Company performed assessment and remediation of the site. A soil vapor extraction (SVE) system was operated at the site from December 1992 through June 1995. Mr. Hadjian is the responsible party for an unauthorized release from a leaking stainless steel flex-hose near the northernmost dispenser island in February 1997. Subsequently, a new product delivery system was installed and about 31 cubic yards of contaminated soil was removed from the release area. Gettler-Ryan, Inc. monitored the eight existing groundwater wells at the site until 2003, when SOMA Environmental Engineering, Inc., took over groundwater monitoring and conducted further characterization of the site using electrical conductivity logging to identify potential water-bearing zones. In November 2004, Pangea commenced coordination of groundwater monitoring and corrective action for the site. To delineate the contamination detected during SOMA's investigation, Pangea installed additional monitoring wells with shorter screen lengths in identified water-bearing zones in 2006. Pangea also 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.

The site subsurface consists primarily of clay, sandy clay, and clayey sand. The shallower soil (<34 ft bgs) is predominantly clay and sandy clay with thin lenses of clayey sand, while the deeper soil (>34 ft bgs) contains clayey sand units of apparently higher permeability than shallower materials. In March, April and May, 2006, Pangea installed fourteen monitoring wells to help define the vertical and lateral extent of groundwater contamination in the identified water-bearing zones. Wells with shorter screen lengths than existing wells were installed in the upper shallow (AA) zone from approximately 9 to 14 ft bgs (MW-7AA), the shallow (A) zone from approximately 15 to 20 ft bgs (MW-3A, MW-6A, MW-7A, MW-8A, MW-9A and MW-10A), the

middle (B) zone from approximately 25 to 30 ft bgs (MW-6B and MW-7B), and the deep (C) zone from approximately 34 to 45 ft bgs (MW-6C, MW-7C, MW-9C, MW-10C and MW-11C). The well screen in MW-3A was installed at a shallower depth than the other A-zone wells to intercept the SPH previously observed in destroyed well MW-3.

The shallower (AA, A and B) water-bearing zones primarily consist of thin lenses of clayey sand within sandy clay, while higher permeability silty sand and clayey sand are the predominant soil types constituting the deeper (C) water-bearing zone. Vapor wells VW-1 through VW-3 are screened from approximately 3 to 9 ft bgs in the upper shallow seasonal water-bearing zone, which appears to be a perched zone. In late March and early April 2006, wells EA-1, EA-2, EA-3 and MW-3 were destroyed to reduce the risk of vertical contaminant migration and improve the quality of contaminant concentration and groundwater elevation data. To compare the elevation of surface water in the flood control channel with site groundwater, point C-1 was surveyed on the roadway overpass above the channel. Well construction details are presented in Table 1.

An interim remedial action was conducted by Pangea in July 2006 by extracting approximately 40 gallons of impacted liquid from wells MW-3A and MW-7AA with a vacuum truck. 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 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.

GROUNDWATER MONITORING AND SAMPLING

On November 30, 2010, groundwater monitoring and sampling was conducted at the site. A revised monitoring program, which included reduced sampling frequency for several site wells, was approved in a letter from the Alameda County Environmental Health Department (ACEH) dated January 16, 2009. The approved groundwater monitoring program is summarized in Appendix A. Groundwater samples were obtained from groundwater monitoring wells MW-1, MW-2, MW-3A, MW-6A, MW-7AA, MW-8A and remediation wells DPE-1 and DPE-2. The depth to water at survey point C-1 above the flood control channel was also measured. Monitoring and sampling of deep monitoring wells MW-6C, MW-7C, MW-9C, MW-10C and MW-11C was discontinued beginning in the second quarter 2007, as approved by Barney Chan of

ACEH in a May 14, 2007 telephone conversation, because no significant contamination had been detected in these deeper site wells during four consecutive quarters.

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 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. 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 0.69 mg/L (well MW-8A) to 1.4 mg/L (well DPE-2).

Groundwater Flow Direction

Based on depth-to-water data collected November 30, 2010, groundwater elevations in shallow and intermediate zones are shown on Figure 2 and discussed below. Compared to the previous monitoring event groundwater elevation changes in site monitoring wells ranged from an increase of 0.14 ft to a decrease of 0.43 ft, except for well MW-8 which decreased 3.95 ft. Due to this anomalous elevation change, well MW-8 was not used in groundwater flow direction calculations. 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 0.07 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 significantly smaller *downward* gradient is present southwest of the dispenser islands (MW-7A and MW-7B), as shown below on Table A. A *downward* gradient appears to be present between the upper

shallow, AA-zone vapor wells (VW-1, VW-2 and VW-3) and the shallow A-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	321.12	17.5	
MW-6B	321.88	28	
<i>Difference</i>	<i>0.76</i>	<i>10.5</i>	<i>0.07 (upwards)</i>
MW-7A	320.98	18	
MW-7B	320.89	28	
<i>Difference</i>	<i>0.09</i>	<i>10</i>	<i>0.009 (downwards)</i>

Horizontal Gradient Evaluation: Depth-to-water measurements collected during prior monitoring events indicate that the horizontal component of the groundwater flow direction to the north of the site has been consistently *southward to southeastward* for the *shallow* wells, but gradient directions in the southern portion of the site have fluctuated significantly, possibly due to the influence of the nearby flood control channel. As shown on Figure 2, the horizontal component of the groundwater flow direction in the *shallow* wells at the site appears to flow towards the southeast in the northern portion of the site and towards the southeast in the southern portion of the site. Groundwater flow at the site is possibly influenced by permeable backfill around the sanitary sewer line beneath Dublin Boulevard and recently discontinued (November 15, 2010) DPE remediation at the site. The groundwater flow direction for the shallow water-bearing zone may also be affected by surface water infiltration from the onsite car wash. 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. Historical depth-to-water and groundwater elevation data for the site are presented in Table 1.

Hydrocarbon Distribution in Groundwater

Based on recent results, hydrocarbon contamination is concentrated in the upper shallow (AA) and shallow (A) water-bearing zones in the vicinity of the fuel dispensers, as shown in Table 2 and on Figure 2. Remediation wells DPE-1 and DPE-2 and monitoring well MW-7AA all contained *historic lows* for hydrocarbon concentrations. This monitoring event well MW-3A contained the highest TPHg concentration

(23,000 µg/L), while well MW-6A contained the highest benzene concentration (640 µg/L). Monitoring wells MW-3A and MW-6A contained significantly higher TPHg and benzene concentrations compared to the August 12, 2010 results; the concentration increase this event in these wells is likely due to short-term DPE events. Pangea suspects that hydrocarbon concentrations in these wells will attenuate in the near future due to the decreased contaminant mass and the oxygenation provided by the DPE activities. A similar concentration rise and subsequent fall was observed in these wells after the November 2007 DPE testing.

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. A brief interim remedial action conducted on July 7, 2006, and consisting of removal of approximately 40 gallons of impacted liquid from well MW-3A using a vacuum truck, may have improved site conditions near well MW-3A. Site conditions were also likely improved by the five-day DPE test/removal event conducted in November 2007 on source area wells MW-3A, MW-6A, MW-7A and MW-7AA. Hydrocarbon concentrations in wells MW-3A, MW-6A and MW-7A generally increased after the November 2007 DPE testing and then returned to near or below pre-test levels. 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 six of the eight sampled wells, as shown in Table 2 and on Figure 2. The highest MTBE concentration was detected in source area well MW-3A at 4,800 µg/L. MTBE concentrations in other sampled wells were within historic limits or trends, except wells DPE-1, DPE-2 and MW-7AA, which all contained *historic low* concentrations of MTBE (Table 2).

MTBE concentrations in well MW-1 had been steadily increasing over a three-year period before reaching a historic high of 8,400 µg/L during the fourth quarter 2006 monitoring event, but have decreased substantially since then (<5.0 µg/L this quarter). The concentration reductions in well MW-1 may be due to interim remediation, MTBE migration from the area, or natural attenuation.

REMEDIATION SYSTEM SUMMARY

Dual Phase Extraction System

The dual phase extraction (DPE) remediation system consists of the simultaneous extraction of groundwater and soil vapor, generally from the same wells. Extraction is performed using a powerful vacuum pump and “stinger” (vacuum tube inserted below the water table) to both depress the water table and extract soil vapor from the vadose zone in wells DPE-1, DPE-2, MW-3A, VW-3, MW-6A, MW-7AA and MW-7A. Extracted vapors are routed through a moisture separator then burned off by the thermal oxidizer. The treated vapor is discharged to the atmosphere in accordance with Bay Area Air Quality Management District (BAAQMD)

requirements. Groundwater remaining in the moisture separator is then pumped through two by two 1,000-lb canisters of granular activated carbon plumbed in series. The treated groundwater is discharged into the sewer in accordance with Dublin San Ramon Services District (DSRSD) requirements. The remediation system layout is shown on Figure 3 and the system process is shown on Figure 4.

Operation and Performance

DPE system startup began on September 15, 2010, with continuous operation beginning on September 20 and ending on November 15, 2010. The DPE system is monitored in accordance with the *Authority to Construct* permit issued by the Bay Area Air Quality Management District (BAAQMD) and groundwater discharge requirements of the *Industrial Wastewater Discharge Permit* issued by Dublin San Ramon District Services (DSRDS). System operation and performance data is summarized on Tables 3 and 4. As shown on Table 3, DPE efforts focused on the following wells with the highest contaminant removal as measured in the field: MW-3A, MW-6A, MW-7AA and VW-3.

As of November 15, 2010, the DPE system operated for a total of about 1,189 hours (approximately 49.51 days). Based on laboratory analytical data, the soil vapor TPHg removal rates observed during system operation ranged from 2.6 to 20 lbs/day and the benzene removal rate ranged from 0.01 to 0.34 lbs/day. As of November 15, 2010, 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 and the small, localized extent of site contamination. In addition, DPE operation was very costly due to the high energy costs (diesel fuel is used by the diesel generator that powers the system, and propane is used as supplementary fuel for the oxidizer). Diesel and propane were required because Pacific Gas and Electric (PG&E) would not re-energize electrical service to the existing panel without an expensive (\$20,000+) service upgrade. The costly electrical service upgrade would delay DPE cleanup into the winter rainy season. Therefore, Pangea estimated that short-term DPE in the last dry full months would be more appropriate and cost beneficial than long-term DPE later using the costly electrical service upgrade by PG&E. DPE activities apparently contributed to the historic low concentrations in key source area well MW-7AA and DPE wells DPE-1 and DPE-2. Pangea anticipates that concentrations in wells MW-3A and MW-6A will attenuate, as observed in these wells after prior short-term DPE in November 2007.

OTHER SITE ACTIVITIES

Future Groundwater Monitoring

Pangea plans to continue *quarterly* groundwater monitoring of select wells to evaluate post-remediation conditions in five key wells (DPE-1, DPE-2, MW-3A, MW-6A and MW-7AA). To help control monitoring costs, Pangea proposes to reduce the groundwater monitoring frequency wells MW-1, MW-2 and MW-8A to annual (first quarter). The proposed groundwater monitoring program is shown in Appendix A. Pangea will summarize groundwater monitoring activities and results in a groundwater monitoring report.

Electronic Reporting

The report, laboratory data, and other applicable information will be uploaded to the State Water Resource Control Board's Geotracker database.

ATTACHMENTS

Figure 1 – Site Location Map

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

Figure 3 – Remediation System Piping Layout

Figure 4 – DPE System Process and Instrumentation Diagram

Table 1 – Well Construction Details

Table 2 – Groundwater Elevation and Analytical Data

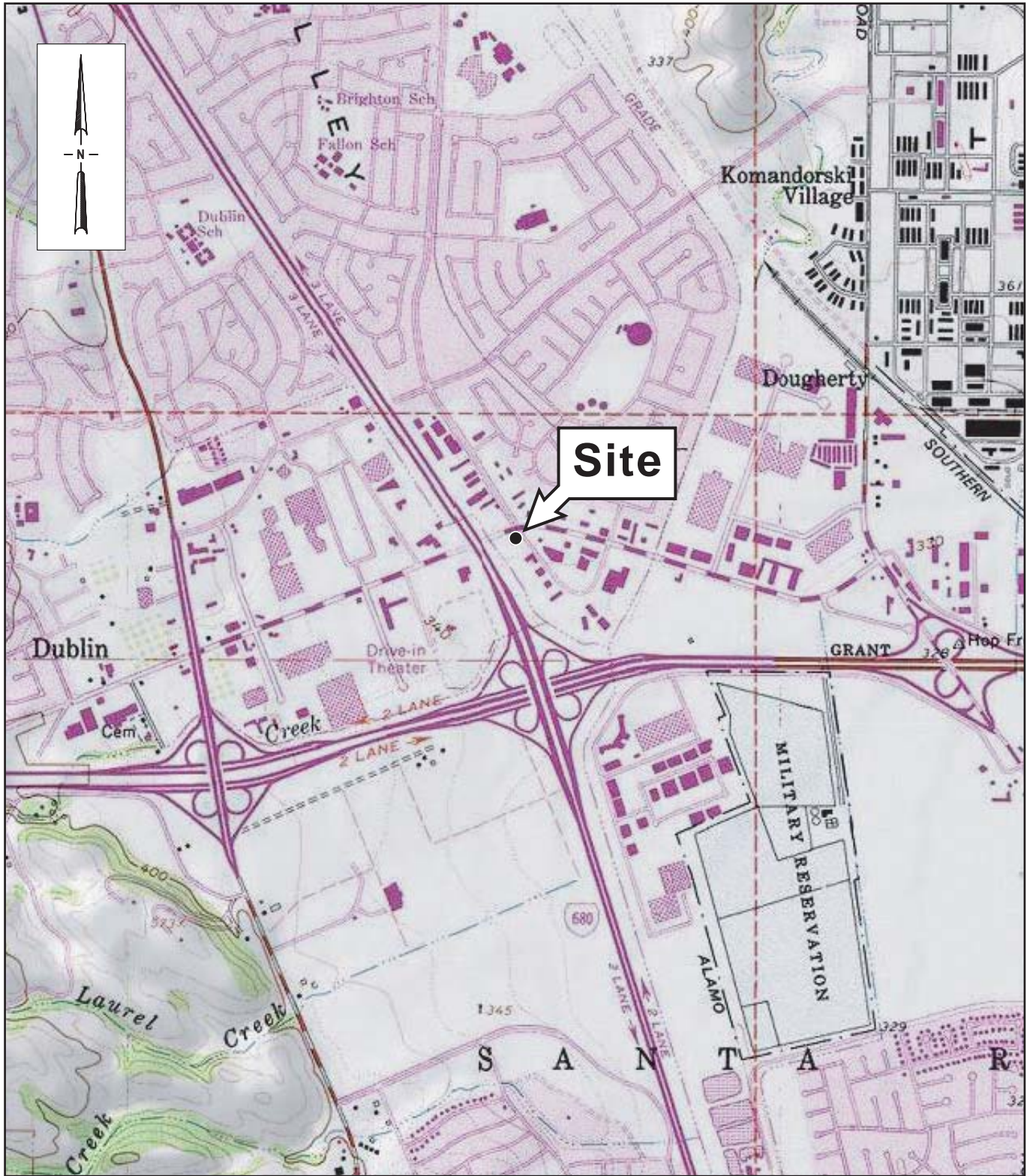
Table 3 – SVE (DPE) Performance Data

Table 4 – GWE (DPE) Performance Data

Appendix A – Groundwater Monitoring Program

Appendix B – Groundwater Monitoring Field Data Sheets

Appendix C – Laboratory Analytical Results



SOURCE: TOPOI MAPS



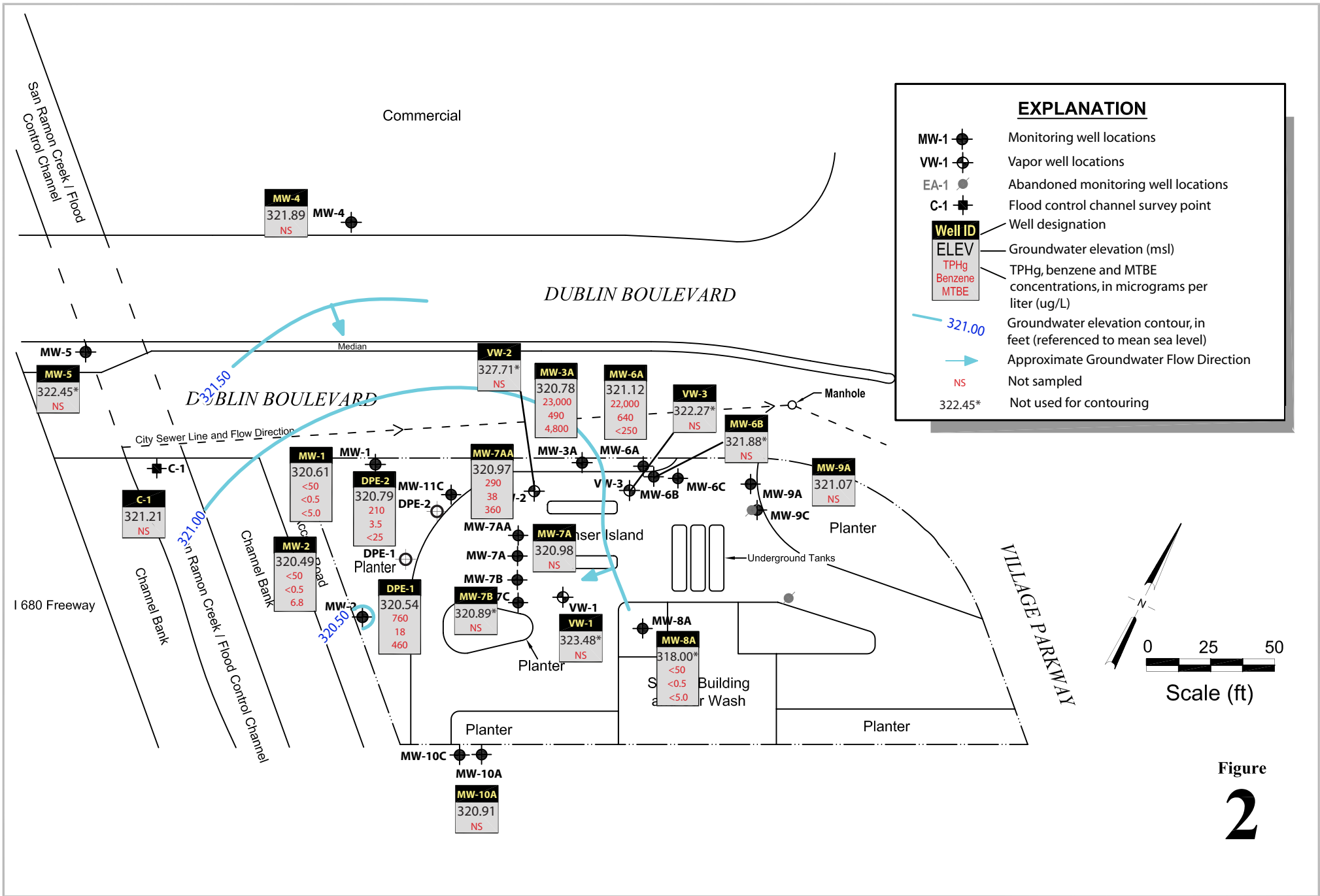
SCALE : 1" = 1/4 MILE

Figure 1

Dublin Auto Wash
 7240 Dublin Boulevard
 Dublin, California



Site Location Map



Figure

2

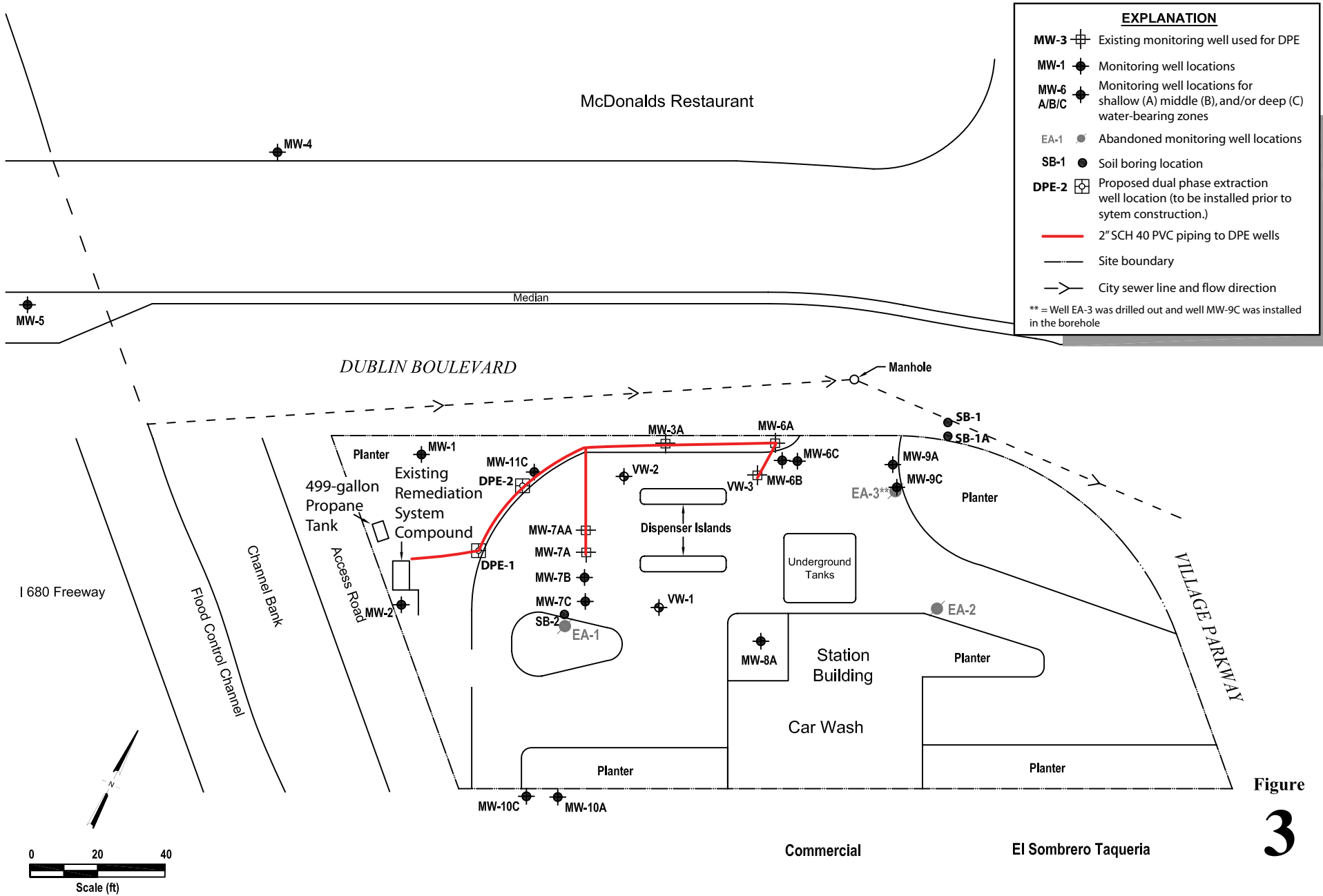


Figure
3

Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California



**Remediation System
Piping Layout**

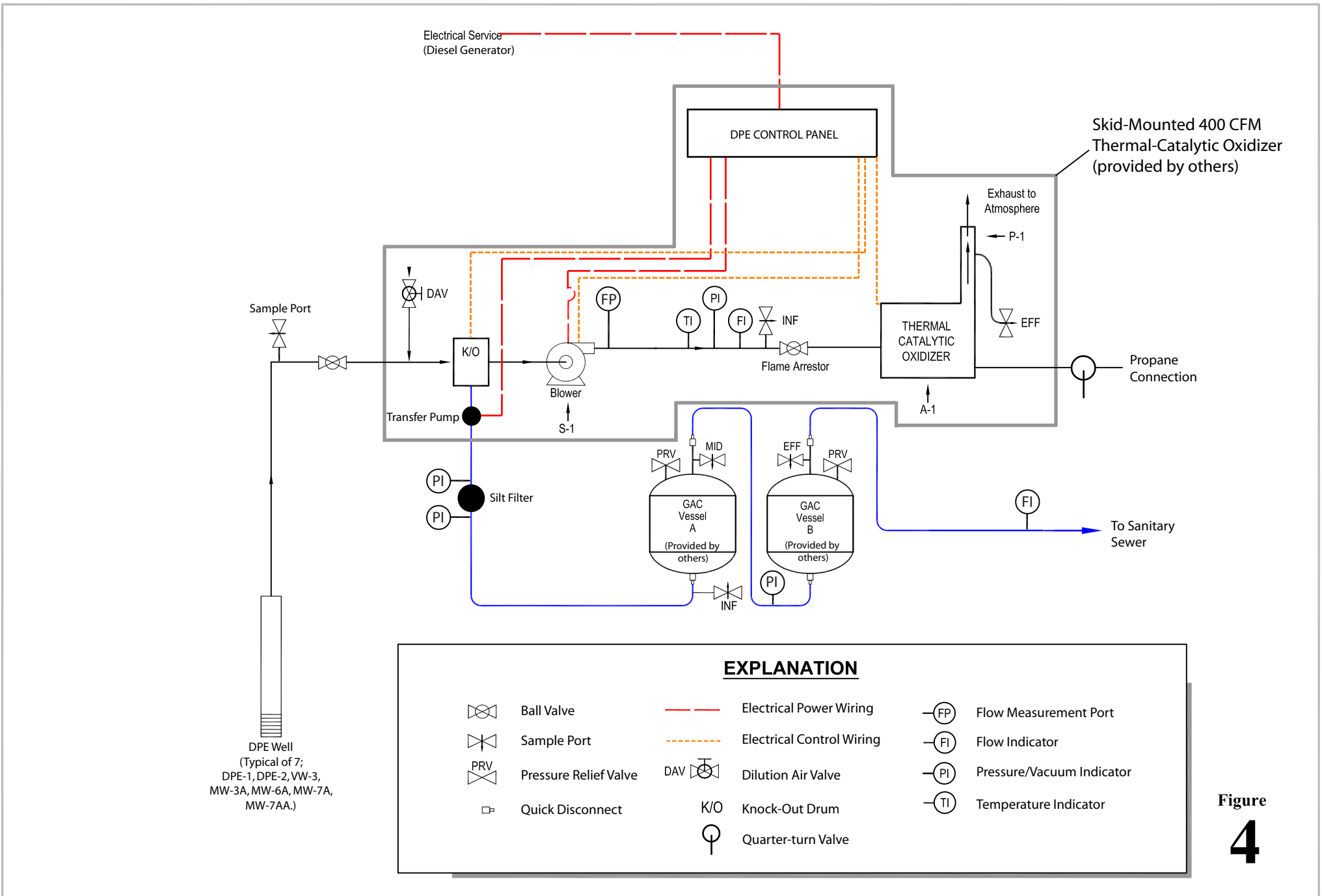


Figure 4

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	4	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 <i>TOC Elev</i> <i>(ft)</i>	Date Sampled	Depth to Water <i>(ft)</i>	Groundwater Elevation <i>(ft, msl)</i>	←----- μg/L -----→						Dissolved Oxygen <i>mg/L</i>	Notes
				TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE		
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	--	--	--	--	--	--	--	
<hr/>											
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	
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	
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		
	11/30/10	9.70	320.97	290	38	0.95	6.1	19	360	0.89	
VW-1 330.43	02/21/06	7.95	322.48	860	120	1.4	32	4.4	390 (440)	1.97	TAME=12μg/L, TBA,DIPE,ETBE=ND
	06/01/06	7.89	322.54	1,100	92	2.2	11	1.4	600 (550)	0.11	
	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	---	---	---	---	---	---	---		

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

Well ID TOC Elev (ft)	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft, msl)	←----- µg/L -----→						Dissolved Oxygen mg/L	Notes
				TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE		
<i>VW-1 (cont'd)</i>	11/30/10	6.95	323.48	---	---	---	---	---	---	---	
VW-2 <i>330.17</i>	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	
	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	---	---	---	---	---	---	---	
VW-3 <i>330.49</i>	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	4.4 *	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	---	---	---	---	---	---	---	
Shallow (A-Zone) Wells											
MW-1 <i>333.66</i>	10/04/94	12.8	320.76	2,100	150	170	61	320	--		
	11/30/94	12.38	321.18	1,500	210	17	73	130	--		
	03/02/95	12.88	320.68	2,600	510	<10	160	<10	--		
	06/07/95	12.58	320.98	710	160	<2.0	45	<2.0	<10		
	09/26/95	13.15	320.41	1,100	140	1.4	92	1.8	<5.0		
	12/28/95	13.09	320.47	750	96	2.5	61	7.4	37		
	02/29/96	12.17	321.39	250	17	<0.5	18	0.81	9		
	06/27/96	12.95	320.61	710	72	<2.0	92	2.2	<10		
	09/12/96	13.11	320.55	300	53	<0.5	32	0.65	21		
	03/31/97	12.99	320.67	<200	4.1	<2.0	4.8	<2.0	640		
	12/23/98	13.87	319.79	<50	<5.0	<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	
<i>333.69</i>	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	--	--	--	--	--	--	--	

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

Well ID	Date	Depth	Groundwater							Dissolved	Notes		
TOC Elev	Sampled	to Water	Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Oxygen			
(ft)		(ft)	(ft, msl)	←————— μg/L —————→						mg/L			
MW-1 (cont'd)	08/17/06	11.93	321.76	<250	<2.5	<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	<2.5	8,400	0.29		
	02/21/07	12.91	320.78	<50	<0.5	<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	<0.5	2,500	0.29		
	08/28/07	13.40	320.29	<50	<0.5	<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	<0.5	<5.0	0.68		
	02/26/08	12.60	321.09	<50	<0.5	<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	<0.5	<5.0	0.94		
	08/13/08	13.37	320.32	<50	<0.5	<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	<0.5	<5.0	0.94		
	02/06/09	13.67	320.02	<50	<0.5	<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	<0.5	<5.0	0.71		
	08/13/09	13.26	320.43	<50	<0.5	<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	<0.5	<5.0	0.80		
	02/11/10	13.04	320.65	<50	<0.5	<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	<0.5	<5.0	0.94		
	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	
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			
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			
	12/21/07	11.33	320.06	4,700	570	160	120	970	2,800	0.54			

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

Well ID TOC Elev (ft)	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft, msl)	←----- μg/L ----->						Dissolved Oxygen mg/L	Notes	
				TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE			
MW-3A 332.63	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		
	MW-4 332.63 332.64	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	---	---	---	---	---	---	---			
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			1.47		
	08/17/05	10.40	322.64				SAMPLED ANNUALLY			1.18		
	11/27/05	10.43	322.61				SAMPLED ANNUALLY			1.19		
	02/21/06	10.32	322.81	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.48/0.76		

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

Well ID TOC Elev (ft)	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg ←	Benzene	Toluene	Ethylbenzene μg/L	Xylenes	MTBE →	Dissolved	Notes
										Oxygen mg/L	
MW-5 (cont'd)	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	--	--	--	--	--	--	--	--
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	
	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	
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	--	--	--	--	--	--	--	--
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	

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

Well ID TOC Elev (ft)	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg ←	Benzene	Toluene	Ethylbenzene μg/L	Xylenes	MTBE →	Dissolved Oxygen mg/L	Notes
<i>MW-8A (cont'd)</i>	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	
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	---	---	---	---	---	---	---		
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	---	---	---	---	---	---	---		
Intermediate-Depth (B-zone) Wells											
MW-6B <i>330.9</i>	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	---	---	---	---	---	---	---		
MW-7B <i>330.69</i>	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	

Pangea

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

Well ID TOC Elev (ft)	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg ←	Benzene	Toluene	Ethylbenzene μg/L	Xylenes	MTBE →	Dissolved Oxygen mg/L	Notes
MW-7B (cont'd)	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	---	---	---	---	---	---	---	

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	

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
EA-1	10/17/88	--	--	<50	<0.5	<0.5	<0.5	<0.5	--		

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

Well ID TOC Elev (ft)	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft, msl)	←----- µg/L ----->						MTBE	Dissolved Oxygen mg/L	Notes
				TPHg	Benzene	Toluene	Ethylbenzene	Xylenes				
331.21	10/24/88	10.64	322.77	--	--	--	--	--	--	--		
EA-1 (cont'd)	11/02/88	10.69	322.72	--	--	--	--	--	--	--		
	12/20/88	10.51	322.9	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--		
	03/28/89	9.87	323.54	<250	<0.5	<0.5	<0.5	<0.5	<0.5	--		
	08/02/89	10.34	323.07	<50	<0.1	<0.1	<0.1	<0.1	<0.1	--		
	11/06/89	10.65	322.76	<500	<3.0	<5.0	<5.0	<5.0	<5.0	--		
	01/25/90	10.6	322.81	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--		
	04/23/90	10.58	322.83	71	2	5	3	8	8	--		
	08/01/90	10.88	322.53	300	86	21	10	33	33	--		
	10/24/91	11.12	322.29	280	69	13	11	16	16	--		
	01/31/91	11.16	322.25	460	160	11	17	17	17	--		
	08/21/91	10.8	322.61	2,400	400	220	44	120	120	--		
	08/21/91	10.8	322.61	2,300	390	210	42	120	120	--	Duplicate	
	10/07/91	10.79	322.62	--	--	--	--	--	--	--		
	01/28/92	10.79	322.62	3,600	320	360	110	310	310	--		
	01/28/92	10.79	322.62	3,000	290	320	99	270	270	--	Duplicate	
	06/05/92	10.84	322.57	1,700	290	89	61	130	130	--		
	09/30/92	11.06	322.35	2,100	160	260	80	350	350	--		
	12/30/92	10.15	323.26	3,200	240	180	110	310	310	--		
	03/29/93	9.42	323.99	23,000	700	3,000	610	3,000	3,000	--		
	06/25/93	10.42	322.99	2.7	130	590	130	590	590	--		
	09/16/93	10.66	322.75	3.9	410	830	220	890	890	--		
	12/20/93	10.6	322.81	27	1,200	2,600	1,100	4,200	4,200	--		
	03/29/94	10.41	323	6.3	250	700	200	830	830	--		
	06/22/94	10.4	323.01	4.1	71	240	110	460	460	<30		
	09/20/94	10.37	323.04	8,500	1,200	1,300	370	1,400	1,400	--		
	10/04/94	10.34	323.07	7,600	97	360	150	620	620	--		
	11/30/94	9.46	323.95	8,800	180	490	240	900	900	--		
	03/02/95	9.96	321.07	6.9	82	570	210	970	970	--		
	06/15/95	9.8	321.23	4.8	44	210	160	620	620	<25		
	09/26/95	10.48	320.55	13,000	150	620	370	1,400	1,400	<125		
	12/28/95	10.14	320.89	11,000	74	250	200	750	750	79		
	02/29/96	8.74	322.29	17,000	59	480	350	1,600	1,600	<125		
	06/27/96	10.21	320.82	3,600	22	130	130	49	46	46		
09/12/96	10.49	320.72	2,000	20	<10	18	44	44	<50			
03/31/97	10.19	321.02	17,000	87	230	330	1,200	310	310			
12/23/98	9.83	321.38	290	20	0.88	1.1	16	16	<2.5			
03/25/99	9.13	322.08	500	21	<0.5	21	<0.5	18	18			
02/03/00	9.05	322.16	2,310	35.7	90	21.8	147	1,280 (365)	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	31.8			
08/28/01	10.04	321.17	4,800	69	<25	50	140	160	160			
11/27/01	10.05	321.16	5,300	25	<5.0	30	120	<20	<20			
02/28/02	--	--	--	--	--	--	--	--	--	Inaccessible		
05/22/02	9.05	322.16	110	<1.0	<0.50	1	<1.5	<2.5	<2.5			
08/20/02	9.21	322	410	2.6	<0.50	8.5	29	<5.0	<5.0			
11/11/02	9.01	322.2	3,800	<0.50	1.3	17	47	<5.0	<5.0			
05/08/03	8.23	322.98	1,700	11	0.97	63	161	<2.0	<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	<0.5	--		
	03/28/89	8.8	323.79	<250	<2	<0.5	<0.5	<0.5	<0.5	--		
	08/02/89	9.44	323.15	<50	<0.1	<0.1	<0.1	<0.1	<0.1	--		
	11/06/89	9.53	323.06	<500	<3.0	<5.0	<5.0	<5.0	<5.0	--		
	01/25/90	9.27	323.32	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--		
	04/23/90	9.35	323.24	<50	0.6	0.8	<0.5	2	--	--		
	08/01/90	9.71	322.88	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--		
	10/24/90	10.08	322.51	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--		
	01/31/91	10.21	322.38	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--		
	01/31/91	10.21	322.38	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--		
	08/21/91	9.8	322.79	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--		
	10/07/91	9.98	322.61	--	--	--	--	--	--	--		
	01/28/92	9.81	322.78	<50	0.8	<0.5	<0.5	<0.5	<0.5	--		
	06/05/92	9.86	322.73	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--		
	09/30/92	10.6	321.99	66	1	3.2	1.3	7.4	7.4	--		
	12/30/92	9.11	323.48	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--		
	03/29/93	7.73	324.86	<50	<0.5	<0.5	<0.5	<1.5	<1.5	--		
06/25/93	9.22	323.37	<50	<0.5	<0.5	<0.5	<1.5	<1.5	--			
09/16/93	10	322.59	<50	<0.5	<0.5	<0.5	<1.5	<1.5	--			
12/20/93	9.38	323.21	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--			
03/29/94	9.3	323.29	<50	<0.5	0.6	<0.5	<0.5	<0.5	--			

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

Well ID TOC Elev (ft)	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft, msl)	←----- µg/L ----->						Dissolved Oxygen mg/L	Notes	
				TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE			
EA-2 (cont'd)	06/22/94	9.49	323.1	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--		
	09/26/94	9.72	322.87	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--		
	10/04/94	9.58	323.01	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--		
	11/30/94	8.7	323.89	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--		
	03/02/95	8.54	321.67	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--		
	06/07/95	8.42	321.79	<50	<0.5	<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	<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	<0.5	<2.5		
	09/12/96	9.4	321.01	<50	<0.5	<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	<0.5	<2.5		
	12/23/98	8.91	321.5	<50	<0.5	<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	<0.5	2.7		
	02/03/00	8.36	322.05	<50	<0.5	<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	<0.5	2.2/0.9		
	12/15/04	8.96	321.45	<50	<0.5	<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	<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	<0.5	<5.0	0.51/0.68	
	03/28/06	--	--	--	--	Well Destroyed			--	--	--	Well Destroyed
	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							

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

Well ID TOC Elev (ft)	Date Sampled	Depth to Water (ft)	Groundwater Elevation (ft, msl)	←----- μg/L -----→						Dissolved Oxygen mg/L	Notes
				TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE		
EA-3 (cont'd)	05/08/03	8.83	322.67	<50	<0.5	<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	<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

Grab Groundwater Analytical Data

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	--	
DPB-6	04/17/03	36-40	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
	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	--	
DPB-7	04/18/03	35-39	NA	2,900	8.8	24	54	249	100	--	
	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	--	
DPB-8	04/18/03	35-39	NA	150	<0.5	1.8	0.8	5.7	<0.5	--	
	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

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Table 3. SVE (DPE) Performance Data - 7240 Dublin Blvd, Dublin, CA											Removal				Emission Reporting						Notes	
Date	Wells	Oxidizer Hr Meter Reading (hours)	Total Time (days)	Interval Time (days)	System Vapor Flow Rate (cfm)	Lab Applied Vacuum ID ("Hg)	Lab Sample ID	Influent TPHg Lab (ppmv)	Influent Benzene Lab Data (ppmv)	Influent OVA Reading (ppmv)	SVE TPHg Removal Rate (lbs/day)	SVE Benzene Removal Rate (lbs/day)	Cumulative SVE TPHg Removal (lbs)	Cumulative SVE Benzene Removal (lbs)	Effluent TPHg Lab (ppmv)	Effluent Benzene Lab (ppmv)	TPHg Abatement Efficiency (lbs/day)	Benzene Abatement Efficiency (lbs/day)	Benzene Emission Rate (lbs/day)	Cumulative Benzene Emission (lbs)		Cumulative Vapor Flow (cf)
09/15/10	All	1079.8	0.00	0.00	63	15	---	700	10	504	14.1	0.18	0.0	0	---	< 0.077	---	---	< 0.001	< 0.000	0	Startup Test
09/16/10	MW-3A,6A,7AA+VW-3	1082.7	0.12	0.12	65	21	---	800	10	596	16.7	0.19	2.0	0.02	---	< 0.077	---	---	< 0.001	< 0.000	11,310	Off on arrival. Suspect water backflow.
09/17/10	MW-3A,6A,7AA+VW-3	1086.0	0.26	0.14	65	21	---	800	10	596	16.7	0.19	4.3	0.05	---	< 0.077	---	---	< 0.001	< 0.000	24,180	Installed water check valve. Restart uni
09/20/10	MW-3A,6A,7AA+VW-3	1090.8	0.46	0.20	58	22	Influent	810	11	586	15.1	0.19	7.3	0.09	< 7.0	< 0.077	> 99.1	> 99.3	< 0.001	< 0.001	40,884	Off. Turn on. Collect vapor samples.
09/21/10	MW-3A,6A,7AA+VW-3	1111.2	1.31	0.85	78	20	---	800	15	940	20.0	0.34	24.3	0.38	---	< 0.077	---	---	< 0.002	< 0.002	136,356	On. Water samples.
09/23/10	MW-3A,6A,7AA+VW-3	1163.0	3.47	2.16	78	20	---	800	15	NM	20.0	0.34	67.6	1.11	---	< 0.077	---	---	< 0.002	< 0.006	378,780	Off about noon. Refuel 2:45pm. Off.
09/24/10	MW-3A,6A,7AA+VW-3	1163.0	3.47	0.00	78	20	---	750	12	NM	18.8	0.27	67.6	1.11	---	< 0.077	---	---	< 0.002	< 0.006	378,780	Turn On 6:30 am.
09/25/10	MW-3A,6A,7AA+VW-3	1179.0	4.13	0.67	78	20	---	700	10	NM	17.5	0.23	79.2	1.26	---	< 0.077	---	---	< 0.002	< 0.007	453,660	On. Diesel delivery.
09/27/10	MW-3A,6A,7AA+VW-3	1226.5	6.11	1.98	78	20	---	700	10	NM	17.5	0.23	113.9	1.71	---	< 0.077	---	---	< 0.002	< 0.011	675,960	Off. Diesel delivery. Restart 8 pm.
09/29/10	MW-3A,6A,7AA+VW-3	1230.7	6.29	0.18	87	20	Influent	640	6.8	388	17.9	0.17	117.0	1.74	< 7.0	< 0.077	> 98.9	> 98.9	< 0.002	< 0.011	697,884	Off. Restart. Hi temp issue addressed.
10/08/10	MW-3A,6A,7AA+VW-3	1384.0	12.68	6.39	94	16.5	---	640	6.8	477	19.3	0.19	240.2	2.93	---	< 0.077	---	---	< 0.0021	< 0.024	1,561,576	
10/14/10	MW-3A,6A,7AA+VW-3	1498.5	17.45	4.77	92	15.5	INF-A	410	2.5	295	12.1	0.07	297.7	3.25	< 7.0	< 0.077	> 98.3	> 96.9	< 0.0021	< 0.034	2,191,555	Off on arrival. Out of diesel. Restart.
10/20/10	MW-3A,6A,7AA+VW-3	1641.1	23.39	5.94	97	12.0	---	350	1.5	140	10.9	0.04	362.2	3.50	---	< 0.077	---	---	< 0.0022	< 0.047	3,018,920	
10/27/10	MW-3A,6A,7AA+VW-3	1811.0	30.47	7.08	76	12.5	INF-A	140	0.67	78	3.4	0.01	386.2	3.60	< 7.0	< 0.077	> 95.0	> 88.5	< 0.0017	< 0.059	3,788,567	
11/03/10	MW-3A,6A,7AA+VW-3	1979.1	37.47	7.00	90	12.5	---	120	0.5	65	3.4	0.01	410.4	3.69	---	< 0.077	---	---	< 0.002	0.073	4,692,374	
11/10/10	MW-3A,6A,7AA+VW-3	2134.6	43.95	6.48	90	12.5	INF-A	99	0.35	50	2.9	0.01	429.0	3.75	< 7.0	< 0.077	> 92.9	> 78.0	< 0.002	< 0.086	5,533,940	
11/12/10	MW-3A,6A,7AA+VW-3	2191.5	46.32	2.37	90	12.5	---	90	0.3	NM	2.6	0.01	435.1	3.77	---	< 0.077	---	---	< 0.002	< 0.091	5,841,200	On. Water samples.
11/15/10	MW-3A,6A,7AA+VW-3	2268.1	49.51	3.19	90	12.5	---	90	0.3	NM	2.6	0.01	443.4	3.80	---	< 0.077	---	---	< 0.002	< 0.097	6,254,840	System shut down.

Notes:
 ALL = Wells DPE-1, DPE-2, MW-3A, MW-6A, MW-7AA, MW-7A and VW-3
 NA = not analyzed; NM = not measured; --- = not available
 System data estimated when specific data not available.
 cfm = actual cubic feet (cf) per minute based on anemometer readings (from near wellhead and/or from pressure side of vacuum pump during SVE).
 ppmv = parts per million on volume to volume basis. Actual lab data shown in **bold**. Lab data estimated for dates without lab data to allow mass removal calculation.
 lbs = Pounds
 "Hg = Inches of mercury vacuum
 SVE = Soil Vapor Extraction
 OVA = Organic Vapor Analyzer (Horiba Model MEXA 324JU)
 TPHg and Benzene Removal Rates = For dates where no laboratory analytical data was collected, the previous lab data entry was used to calculate period and cumulative mass removal.
 Hydrocarbon Removal/Emission Rate = Rate based on Bay Area Air Quality Management District's Manual of Procedures for Soil Vapor Extraction dated July 17, 1991.
 Rate = lab concentration (ppmv) x system flowrate (scfm) x (11b-mole/386 ft³) x molecular weight (86 lb/lb-mole for TPH-Gas hexane) x 1440 min/day x 1/1,000,000.

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Table 4. GWE (DPE) System Performance Summary - 7240 Dublin Blvd, Dublin, California

Well ID	Date	Totalizer Reading ¹ (gallons)	Interval Flow Volume (gallons)	Interval Duration (days)	Average Flow Rate (gpm)	TPHd Concentration (ug/L)	TPHg Concentration (ug/L)	Benzene Concentration (ug/L)	MTBE Concentration (ug/L)	TPHg Removed (Lbs)	Benzene Removed (Lbs)	MTBE Removed (Lbs)	Comments
System	09/20/10	0	0	0	--	---	---	---	---	0.000	0.000	0.000	System startup testing
Influent	09/21/10	1,725	1,725	1	1.20	1,900	3,400	110	1,800	0.049	0.002	0.026	Startup water sampling of influent
	09/29/10	7,104	5,379	8	0.47	---	---	---	---	0.152	0.005	0.081	
	10/08/10	13,091	5,987	9	0.46	---	---	---	---	0.169	0.005	0.090	
	10/14/10	17,023	3,931	6	0.46	430	220	ND (<0.5)	500	0.007	0.000	0.016	O&M Visit; sample collection
	10/20/10	19,351	2,329	6	0.27	---	---	---	---	0.004	0.000	0.010	
	10/27/10	21,052	1,700	7	0.17	---	---	---	---	0.003	0.000	0.007	
	11/03/10	22,889	1,838	7	0.18	---	---	---	---	0.003	0.000	0.008	
	11/10/10	24,814	1,925	7	0.19	---	---	---	---	0.004	0.000	0.008	
	11/12/10	25,392	578	2	0.20	210	380	2.6	250	0.002	0.000	0.001	Sample collection; system shutoff soon
	11/15/10	26,433	1,040	3	0.24	---	---	---	---	0.003	0.000	0.002	System Shutoff; final totalizer reading
										0.397	0.012	0.248	Total Cumulative Removal (Lbs)
System	09/20/10	---	---	---	---	---	---	---	---	---	---	---	
Midpoint	09/21/10	---	---	---	---	ND (<50)	ND (<50)	ND (<0.5)	ND (<5.0)	---	---	---	Startup water sampling of midpoint
	10/14/10	---	---	---	---	ND (<50)	ND (<50)	ND (<0.5)	ND (<5.0)	---	---	---	O&M Visit; sample collection
	11/12/10	---	---	---	---	ND (<50)	ND (<50)	ND (<0.5)	ND (<5.0)	---	---	---	Sample collection; system shutoff soon
System	09/20/10	---	---	---	---	---	---	---	---	---	---	---	
Effluent	09/21/10	---	---	---	---	ND (<50)	ND (<50)	ND (<0.5)	ND (<5.0)	---	---	---	Startup water sampling of effluent
	10/14/10	---	---	---	---	ND (<50)	ND (<50)	ND (<0.5)	ND (<5.0)	---	---	---	O&M Visit; sample collection
	11/12/10	---	---	---	---	ND (<50)	ND (<50)	ND (<0.5)	ND (<5.0)	---	---	---	Sample collection, system shutoff soon

<i>Discharge Limit</i>	<i>15,000</i>	<i>15,000</i>	<i>1,000</i>	<i>1,000,000</i>
	<i>(TPHg+TPHd)</i>	<i>(TPHg+TPHd)</i>	<i>(BTEX Total)</i>	<i>(MTBE)</i>

ABBREVIATIONS AND NOTES:

1 = Initial totalizer reading was 9,997,126 (or -2,874 gallons). After reaching 9,999,999 the meter returns to 0,000,000. Therefore, shown reading above 0 is actual reading plus 2,874. The 9/21/10 reading of 9,998,851 less 9,997,126 equals 1,725 gallons discharged.

gpm = Gallons per minute

TPHd = Total Petroleum Hydrocarbon as Diesel analyzed by EPA Method 8015B with silica gel cleanup

TPHg = Total Petroleum Hydrocarbon as Gasoline analyzed by EPA Method 8015B

Benzene analyzed by EPA Method 8021B

MTBE = Methyl tertiary butyl ether analyzed by EPA Method 8021 Cm

-- = not measured/not available

* Estimated contaminant mass calculated by multiplying average concentration detected during period (Table 1) by volume of extracted groundwater. Uses most recent lab data.

APPENDIX A

Groundwater Monitoring Program

Table A - Quarterly Groundwater Monitoring Program - Post Remediation

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	--	Q	---
Upper Shallow AA-Zone Wells						
DPE-1	DPE	9-14	W Intermediate	4	Q	Q
DPE-2	DPE	9-14	W Intermediate	4	Q	Q
MW-7AA	Mon (Proposed DPE)	9-14	Source	4	Q	Q
VW-1	Mon+SVE (Proposed DPE)	3-9	Source	2	Q	1st
VW-2	Mon+SVE (Proposed DPE)	3-9	Source	2	Q	1st
VW-3	Mon+SVE (Proposed DPE)	3-9	Source	2	Q	1st
Shallow A-Zone Wells						
MW-1	Mon	5-25	W, Adjacent SS	2	Q	1st
MW-2	Mon	5-20	W, Adjacent Flood Channel	2	Q	1st
MW-3A	Mon (Proposed DPE)	10-17	N Source, Adjacent SS	4	Q	Q
MW-4	Mon	8.5-20	NW Upgradient, Offsite	2	Q	1st
MW-5	Mon	8.5-21	W Upgradient, Offsite	2	Q	1st
MW-6A	Mon (Proposed DPE)	15-20	N Source, Adjacent SS	4	Q	Q
MW-7A	Mon (Proposed DPE)	16-20	Source	4	Q	1st
MW-8A	Mon	15-20	S, Adjacent Building	2	Q	1st
MW-9A	Mon	15-20	NE Perimeter	2	Q	1st
MW-10A	Mon	15-20	S Perimeter	2	Q	1st
Intermediate Depth B-Zone Wells						
MW-6B	Mon	26-30	N Source, Adjacent SS	2	Q	1st
DW-7B	Mon	26-30	Source	2	Q	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: 6 wells sampled each 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.

Q = All four quarters. Typically B months (February, May, August, November)

1st = 1st quarter only, typically February

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

Well Gauging Data Sheet

Project.Task #:1001.001 <u>224</u>			Project Name: Dublin Car Wash					
Address: 7420 Dublin Boulevard, Dublin, CA						Date: <u>11/30/10</u>		
Name: Sanjiv Gill			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	
MW-1	2	5:45			13.08	25.32	TOC	
MW-2	2	5:47			8.99	20.00		
MW-3A	4	6:55			10.61	16.78		
MW-4	2	5:35			10.75	19.78		
MW-5	2	5:40			10.68	20.56		
MW-6A	2	6:15			10.69	19.13		
MW-6B	2	6:12			9.02	29.73		
MW-7AA	4	6:50			9.70	13.84		
MW-7A	4	6:45			9.73	19.53		
MW-7B	2	6:40			9.80	28.42		
MW-8A	2	6:00			13.19	19.01		*

Comments:

Well Gauging Data Sheet

Project, Task #: 1001.001 <u>224</u>				Project Name: Dublin Car Wash			
Address: 7420 Dublin Boulevard, Dublin, CA						Date: <u>11/30/10</u>	
Name: Sanjiv Gill				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
MLI-9A	2	5:51			10.10	19.66	TOC
MLI-10A	2	5:55			9.02	19.51	
VW-1	2	6:05			6.95	8.40	
VW-2	2	6:09			2.46	8.30	
VW-3	2	6:20			8.22	8.40	
C-1	-	6:25			11.68	-	
DPE-1	4	6:30			10.47	13.80	
DPE-2	4	6:35			10.63	13.80	

Comments:


MONITORING FIELD DATA SHEET

Well ID: **MW-1**

Project Task #: 1001.001 224.			Project Name: Dublin Car Wash					
Address: 7420 Dublin Boulevard, Dublin, CA								
Date: 11/30/10			Weather: Cloudy					
Well Diameter: 2"			Volume/ft. <small>1" = 0.04 3" = 0.37 6" = 1.47 2" = 0.16 4" = 0.65 radius** 0.163</small>					
Total Depth (TD): 25.32			Depth to Product:					
Depth to Water (DTW): 13.08			Product Thickness: .					
Water Column Height: 12.24			1 Casing Volume: 1.95			gallons		
Reference Point: TOC			3 Casing Volumes: 5.85			gallons		
Purging Device: Disposable Bailer , 3" PVC Bailer, Peristaltic Pump, Whal Pump								
Sampling Device: Disposable Bailer								
Time	Temp (°)	pH	Cond (µs)	NTU	DO (mg/L)	ORP (mV)	Vol (gal)	DTW
7:45	17.0	7.20	1390				2	
7:50	16.9	7.23	1397				4	
8:00	16.7	7.27	1412				6	

Comments: YSI 550A DO meter pre purge DO = **0.72** mg/l
post purge DO = mg/l

turbid

Sample ID: MW-1	Sample Time: 8:05
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/30/10
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: **MW-2**

Project Task #: 1001.001 224	Project Name: Dublin Car Wash						
Address: 7420 Dublin Boulevard, Dublin, CA							
Date: 11/30/10	Weather: Cloudy						
Well Diameter: 2"	Volume/ft. <table border="1"> <tr> <td>1" = 0.04</td> <td>3" = 0.37</td> <td>6" = 1.47</td> </tr> <tr> <td>2" = 0.16</td> <td>4" = 0.65</td> <td>radius = 0.163</td> </tr> </table>	1" = 0.04	3" = 0.37	6" = 1.47	2" = 0.16	4" = 0.65	radius = 0.163
1" = 0.04	3" = 0.37	6" = 1.47					
2" = 0.16	4" = 0.65	radius = 0.163					
Total Depth (TD): 20.00	Depth to Product:						
Depth to Water (DTW): 8.99	Product Thickness:						
Water Column Height: 11.01	1 Casing Volume: 1.76 gallons						
Reference Point: TOC	3 Casing Volumes: 5.28 gallons						


Purging Device: Disposable Bailer, 3" PVC Bailer, Parastaffic Pump, What Pump

Sampling Device: Disposable Bailer

Time	Temp (°C)	pH	Cond (µS)	NTU	DO (mg/L)	ORP (mV)	Vol (gal)	DTW
8:20	18.1	7.19	1476				1.5	
8:25	18.0	7.23	1510				3.0	
8:30	18.0	7.20	1529				5.0	

Comments: YSI 550A DO meter pre purge DO = **0.93** mg/l
 post purge DO = mg/l

turbid

Sample ID: MW-2	Sample Time: 8:35
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/30/10
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: MW-3A

Project Task #: 1001.001 224 Project Name: Dublin Car Wash
 Address: 7420 Dublin Boulevard, Dublin, CA.
 Date: 11/30/10 Weather: cloudy
 Well Diameter: 4" Volume/ft.

1" = 0.04	3" = 0.37	6" = 1.47
2" = 0.16	4" = 0.65	radius = 0.163

 Total Depth (TD): 16.78 Depth to Product:
 Depth to Water (DTW): 10.61 Product Thickness:
 Water Column Height: 6.17 1 Casing Volume: 4.01 gallons
 Reference Point: TOC 3 Casing Volumes: 12.03 gallons


Purging Device: Disposable Bailer 3" PVC Bailer Parastaltic Pump, Whal Pump

Sampling Device: Disposable Bailer

Time	Temp @	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
9:45	17.2	6.89	1095				4	
9:50	17.4	6.92	1116				8	
10:00	17.5	6.94	1142				12	

Comments: YSI 550A DO meter pre purge DO = 0.80 mg/l
 post purge DO = mg/l

turbid

Sample ID: MW-3A Sample Time: 10:12
 Laboratory: McCampbell Analytical, INC. Sample Date: 11/30/10
 Containers/Preservative: Voac/HCl
 Analyzed for: 8015, 8021
 Sampler Name: Sanjiv Gill Signature: 

MONITORING FIELD DATA SHEET

Well ID: MW-6A

Project Task #: 1001.001 224 Project Name: Dublin Car Wash

Address: 7420 Dublin Boulevard, Dublin, CA

Date: 11/30/10 Weather: cloudy

Well Diameter: 2" Volume/ft. 1" = 0.04 3" = 0.37 6" = 1.47
2" = 0.16 4" = 0.65 radius = 0.163

Total Depth (TD): 19.13 Depth to Product:

Depth to Water (DTW): 10.69 Product Thickness:

Water Column Height: 8.44 1 Casing Volume: 1.35 gallons

Reference Point: TOC 3 Casing Volumes: 4.05 gallons


Purging Device: Disposable Bailer, 3" PVC Bailer, Peristaltic Pump, Whal Pump

Sampling Device: Disposable Bailer

Time	Temp @	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
9:20	17.3	6.80	1512				1.5	
9:23	17.5	6.77	1516				3.0	
9:26	17.7	6.79	1542				4.0	

Comments: YSI 550A DO meter pre purge DO = 0.89 mg/l
post purge DO = mg/l

turbid

Sample ID: MW-6A	Sample Time: 9:28
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/30/10
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: MW-7AA

Project Task #: 1001.001 Project Name: Dublin Car Wash

Address: 7420 Dublin Boulevard, Dublin, CA

Date: 11/30/10

Weather: Cloudy

Well Diameter: 4"

Volume/ft. 1" = 0.04 3" = 0.37 6" = 1.47
2" = 0.16 4" = 0.65 radius = 0.163

Total Depth (TD): 13.84

Depth to Product:

Depth to Water (DTW): 9.70

Product Thickness:

Water Column Height: 4.14

1 Casing Volume: 2.69 gallons

Reference Point: TOC

3 Casing Volumes: 8.07 gallons

Purging Device: Disposable Bailer, 3" PVC Bailer, Parastatic Pump, Whal Pump


Sampling Device: Disposable Bailer

Time	Temp @	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
8:50	17.5	6.91	1643				3.0	
8:55	17.2	6.90	1656				6.0	
9:00	17.0	6.90	1659				8.0	

Comments: YSI 550A DO meter

pre purge DO = 0.89 mg/l

post purge DO = mg/l

Sample ID: MW-7AA	Sample Time: 9:05
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/30/10
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: MW-8A

Project Task #: 1001.001	Project Name: Dublin Car Wash						
Address: 7420 Dublin Boulevard, Dublin, CA							
Date: 11/30/10	Weather: Cloudy						
Well Diameter: 2"	Volume/ft. <table border="1"> <tr> <td>1" = 0.04</td> <td>3" = 0.37</td> <td>6" = 1.47</td> </tr> <tr> <td>2" = 0.16</td> <td>4" = 0.65</td> <td>radius * 0.163</td> </tr> </table>	1" = 0.04	3" = 0.37	6" = 1.47	2" = 0.16	4" = 0.65	radius * 0.163
1" = 0.04	3" = 0.37	6" = 1.47					
2" = 0.16	4" = 0.65	radius * 0.163					
Total Depth (TD): 19.01	Depth to Product:						
Depth to Water (DTW): 13.19	Product Thickness:						
Water Column Height: 5.82	1 Casing Volume: 0.93 gallons						
Reference Point: TOC	3 Casing Volumes: 2.79 gallons						


Purging Device: Disposable Bailer, 3" PVC Bailer, Parastatic Pump, Whal Pump

Sampling Device: Disposable Bailer

Time	Temp (°C)	pH	Cond (µS)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
7:25	17.2	7.49	1019				1	
7:27	17.4	7.58	1039				2	
7:30	17.7	7.60	1036				3	

Comments: YSI 550A DO meter pre purge DO = 0.69 mg/l
post purge DO = mg/l

turbid

Sample ID: MW-8A	Sample Time: 7:33
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/30/10
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: **DPE-1**

Project Task #: 1001.001 **224** Project Name: Dublin Car Wash

Address: 7420 Dublin Boulevard, Dublin, CA

Date: **11/30/10** Weather: **Cloudy**

Well Diameter: **4"** ~~13.80~~ Volume/ft. 1" = 0.04 3" = 0.37 6" = 1.47
2" = 0.16 4" = 0.65 radius = 0.163

Total Depth (TD): **13.80** ~~10.47~~ Depth to Product:

Depth to Water (DTW): **10.47** ~~3.33~~ Product Thickness:

Water Column Height: **3.33** 1 Casing Volume: **2.16** gallons

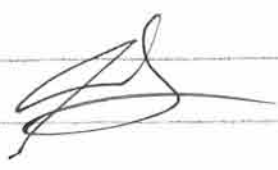
Reference Point: TOC 3 Casing Volumes: **6.48** gallons

Purging Device: Disposable Bailer, 3" PVC Bailer, Peristaltic Pump, Whal Pump

Sampling Device: Disposable Bailer

Time	Temp @	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
10:27		Deaerated					2 4 65	
12:28		Recharged						11.09

Comments: YSI 550A DO meter pre purge DO = **0.97** mg/l
post purge DO = **mg/l**

Sample ID: DPE-1	Sample Time: 12:30
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/30/10
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: **DPE-2**

Project Task #: 1001.001	Project Name: Dublin Car Wash						
Address: 7420 Dublin Boulevard, Dublin, CA							
Date: 11/30/10	Weather: Cloudy						
Well Diameter: 4"	Volume/ft. <table border="1"> <tr> <td>1" = 0.04</td> <td>3" = 0.37</td> <td>6" = 1.47</td> </tr> <tr> <td>2" = 0.16</td> <td>4" = 0.65</td> <td>radius = 0.163</td> </tr> </table>	1" = 0.04	3" = 0.37	6" = 1.47	2" = 0.16	4" = 0.65	radius = 0.163
1" = 0.04	3" = 0.37	6" = 1.47					
2" = 0.16	4" = 0.65	radius = 0.163					
Total Depth (TD): 13.80	Depth to Product:						
Depth to Water (DTW): 10.63	Product Thickness:						
Water Column Height: 3.17	1 Casing Volume: 2.06 gallons						
Reference Point: TOC	3 Casing Volumes: 6.18 gallons						

Purging Device: Disposable Bailer, 3" PVC Bailer, Parastatic Pump, Whal Pump

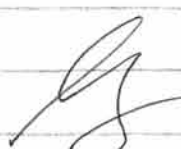
Sampling Device: Disposable Bailer

Time	Temp (°C)	pH	Cond (µS)	NTU	DO (mg/L)	ORP (mV)	Vol (gal)	DTW
10:50		Dewatered					2 4 6	
12:48		Recharge						11.52

Comments: YSI 550A DO meter

pre purge DO = **1.40** mg/l

post purge DO = mg/l

Sample ID: DPE-2	Sample Time: 12:50
Laboratory: McCampbell Analytical, INC.	Sample Date: 11/30/10
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature: 

APPENDIX C

Laboratory Analytical Results



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #1001.001 224; Dublin Car Wash	Date Sampled: 11/30/10
	Client Contact: Tina De La Fuente	Date Received: 11/30/10
	Client P.O.:	Date Reported: 12/03/10
		Date Completed: 12/02/10

WorkOrder: 1011801

December 03, 2010

Dear Tina:

Enclosed within are:

- 1) The results of the **8** analyzed samples from your project: **#1001.001 224; Dublin Car Wash,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.



McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701

Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

101801

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

GeoTracker EDF PDF Excel Write On (DW)

Check if sample is effluent and "J" flag is required

Report To: Tina de la Fuente Bill To: Pangea
 Company: Pangea Environmental Services
1710 Franklin St.
Oakland, CA E-Mail: tedela@pangeaenv.com
 Tele: (510) 836-3702 Fax: (510) 836-3709
 Project #: 1001.001 224 Project Name: Dublin Car Wash
 Project Location: 7420 Dublin Boulevard, Dublin, CA
 Sampler Signature: Muskan Environmental Sampling

Analysis Request										Other	Comments	
BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE												**Indicate here if these samples are potentially dangerous to handle:
TPH as Diesel (8015)												
Total Petroleum Oil & Grease (1664 / 5520 E/B&F)												
Total Petroleum Hydrocarbons (418.1)												
EPA 502.2 / 601 / 8010 / 8021 (HYOCs)												
MTBE / BTEX ONLY (EPA 602 / 8021)												
EPA 505/ 608 / 8081 (CI Pesticides)												
EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners												
EPA 507 / 8141 (NP Pesticides)												
EPA 515 / 8151 (Acidic CI Herbicides)												
EPA 524.2 / 624 / 8260 (VOCs)												
EPA 525.2 / 625 / 8270 (SVOCs)												
EPA 8270 SIM / 8310 (PAHs / PNAAs)												
CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)												
LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)												
Lead (200.7 / 200.8 / 6010 / 6020)												
Filter sample for DISSOLVED metals analysis												

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED						
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other			
ML-1		11/30/12	8:05	3	VFA *							X	X	X			
ML-2			8:35														
ML-3A			10:12														
ML-6A			9:28														
ML-7A			9:05														
ML-8A			7:33														
DPE-1			12:30														
DPE-2			12:50														

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of being gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By: <u>[Signature]</u>	Date: <u>11/30</u>	Time: <u>2:05pm</u>	Received By: <u>[Signature]</u>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/r* 3.22 COMMENTS:
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____
 VOAS O&G METALS OTHER
 PRESERVATION pH<2

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1011801

ClientCode: PEO

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:
 Tina De La Fuente
 Pangea Environmental Svcs., Inc.
 1710 Franklin Street, Ste. 200
 Oakland, CA 94612
 (510) 836-3700 FAX (510) 836-3709

Email: tdelafuente@pangeaenv.com
cc:
PO:
ProjectNo: #1001.001 224; Dublin Car Wash

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

Requested TAT: 5 days

Date Received: 11/30/2010
Date Printed: 11/30/2010

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	
1011801-001	MW-1	Water	11/30/2010 8:05	<input type="checkbox"/>	A	A											
1011801-002	MW-2	Water	11/30/2010 8:35	<input type="checkbox"/>	A												
1011801-003	MW-3A	Water	11/30/2010 10:12	<input type="checkbox"/>	A												
1011801-004	MW-6A	Water	11/30/2010 9:28	<input type="checkbox"/>	A												
1011801-005	MW-7AA	Water	11/30/2010 9:05	<input type="checkbox"/>	A												
1011801-006	MW-8A	Water	11/30/2010 7:33	<input type="checkbox"/>	A												
1011801-007	DPE-1	Water	11/30/2010 12:30	<input type="checkbox"/>	A												
1011801-008	DPE-2	Water	11/30/2010 12:50	<input type="checkbox"/>	A												

Test Legend:

1	G-MBTX W	2	PREDF REPORT	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana 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.



Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.**

Date and Time Received: **11/30/2010 2:31:34 PM**

Project Name: **#1001.001 224; Dublin Car Wash**

Checklist completed and reviewed by: **Ana Venegas**

WorkOrder N°: **1011801** 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: 3.2°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
- Sample labels checked for correct preservation? Yes No
- Metal - pH acceptable upon receipt (pH<2)? Yes No NA
- Samples Received on Ice? Yes No

(Ice Type: WET ICE)

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

Client contacted:

Date contacted:

Contacted by:

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #1001.001 224; Dublin Car Wash	Date Sampled: 11/30/10
	Client Contact: Tina De La Fuente	Date Received: 11/30/10
	Client P.O.:	Date Extracted: 12/01/10-12/02/10
		Date Analyzed: 12/01/10-12/02/10

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1011801

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	MW-1	W	ND	ND	ND	ND	ND	ND	1	109	
002A	MW-2	W	ND	6.8	ND	ND	ND	ND	1	104	
003A	MW-3A	W	23,000	4800	490	140	220	5800	20	118	d1
004A	MW-6A	W	22,000	ND<250	640	210	940	4300	50	108	d1,b1
005A	MW-7AA	W	290	360	38	0.95	6.1	19	1	105	d1
006A	MW-8A	W	ND	ND	ND	ND	ND	ND	1	97	
007A	DPE-1	W	760	460	18	1.6	25	87	1	104	
008A	DPE-2	W	210	ND<25	3.5	1.7	0.70	1.8	1	107	d1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment
d1) weakly modified or unmodified gasoline is significant



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 54707

WorkOrder 1011801

EPA Method SW8021B/8015Bm		Extraction SW5030B							Spiked Sample ID: 1011801-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	60	96.3	90.2	6.57	94.5	90.1	4.77	70 - 130	20	70 - 130	20
MTBE	ND	10	105	107	1.68	113	109	3.48	70 - 130	20	70 - 130	20
Benzene	ND	10	108	113	4.77	112	110	1.76	70 - 130	20	70 - 130	20
Toluene	ND	10	94.5	101	6.55	98.5	96.3	2.25	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	92.9	98.4	5.73	96.8	93.9	3.10	70 - 130	20	70 - 130	20
Xylenes	ND	30	103	109	5.44	109	106	2.90	70 - 130	20	70 - 130	20
%SS:	109	10	104	111	5.91	107	107	0	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 54707 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1011801-001A	11/30/10 8:05 AM	12/01/10	12/01/10 4:38 AM	1011801-002A	11/30/10 8:35 AM	12/01/10	12/01/10 5:07 AM
1011801-002A	11/30/10 8:35 AM	12/01/10	12/01/10 9:17 PM	1011801-003A	11/30/10 10:12 AM	12/01/10	12/01/10 4:17 PM
1011801-004A	11/30/10 9:28 AM	12/01/10	12/01/10 4:47 PM	1011801-005A	11/30/10 9:05 AM	12/02/10	12/02/10 9:37 AM
1011801-006A	11/30/10 7:33 AM	12/01/10	12/01/10 3:03 PM	1011801-007A	11/30/10 12:30 PM	12/01/10	12/01/10 7:30 PM
1011801-007A	11/30/10 12:30 PM	12/02/10	12/02/10 7:46 PM	1011801-008A	11/30/10 12:50 PM	12/01/10	12/01/10 5:36 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/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, or inconsistency in sample containers.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #7240 Dublin Blvd	Date Sampled: 09/20/10
		Date Received: 09/20/10
	Client Contact: Tina De La Fuente	Date Reported: 09/23/10
	Client P.O.:	Date Completed: 09/21/10

WorkOrder: 1009520

September 23, 2010

Dear Tina:

Enclosed within are:

- 1) The results of the **2** analyzed samples from your project: **#7240 Dublin Blvd**,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

1009520

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Road
Pittsburg, CA 94565

Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND-TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Tina de la Fuente Bill To: Pangea
Company: Pangea Environmental Services, Inc.
1710 Franklin Street, Suite 200, Oakland, CA 94612
E-Mail: tdelafuente@pangeaenv.com
Tele: (510) 836-3702 Fax: (510) 836-3709
Project #: 7240 Dublin Blvd Project Name: 7240 Dublin Blvd
Project Location: 7240 Dublin Blvd., Dublin, CA
Sampler Signature: *T. de la Fuente*

Analysis Request										Other	Comments						
BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015) w/ Silica Gel Cleanup	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010 / 8021	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8081	EPA 608 / 8082 PCB's ONLY	EPA 8140 / 8141	EPA 8150 / 8151	EPA 524.2 / 624 / 8260	EPA 525 / 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals (6010 / 6020)	LUFT 5 Metals (6010 / 6020)	Lead (200.8 / 200.9 / 6010)		Filter Samples for Metals analysis: Yes / No
INF	INF	9/20/10	12:32	1	TEDECO BAG		X										
EFF	EFF	9/20/10	12:30	1	↓		X										

Relinquished By: *T. de la Fuente* Date: 9/20 Time: 13:42 Received By: **ENVIRO-TECH SERVICES AA**

Relinquished By: **ENVIRO-TECH SERVICES AA** Date: 9/20/10 Time: 15:30 Received By: *[Signature]*

Relinquished By: *[Signature]* Date: 9/20/10 Time: 16:30 Received By: *[Signature]*

ICE/I° _____ COMMENTS: _____
GOOD CONDITION _____
HEAD SPACE ABSENT _____
DECHLORINATED IN LAB _____
APPROPRIATE CONTAINERS _____
PRESERVED IN LAB _____
VOAS O&G METALS OTHER
PRESERVATION pH<2

McC Campbell Analytical, Inc.



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 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1009520

ClientCode: PEO

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Tina De La Fuente
 Pangea Environmental Svcs., Inc.
 1710 Franklin Street, Ste. 200
 Oakland, CA 94612
 (510) 836-3700 FAX (510) 836-3709

Email: tdelafuente@pangeaenv.com
 cc:
 PO:
 ProjectNo: #7240 Dublin Blvd

Bill to:

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

Requested TAT: 5 days

Date Received: 09/20/2010

Date Printed: 09/20/2010

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	
1009520-001	INF	Air	9/20/2010 12:32	<input type="checkbox"/>	A	A											
1009520-002	EFF	Air	9/20/2010 12:30	<input type="checkbox"/>	A												

Test Legend:

1	G-MBTEX AIR	2	PREDF REPORT	3		4		5	
6		7		8		9		10	
11		12							

The following SampleIDs: 001A, 002A contain testgroup.

Prepared by: Ana 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.



Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.**

Date and Time Received: **9/20/2010 4:55:51 PM**

Project Name: **#7240 Dublin Blvd**

Checklist completed and reviewed by: **Ana Venegas**

WorkOrder N°: **1009520** Matrix Air

Carrier: Rob Pringle (MAI Courier)

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: NA
- Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
- Sample labels checked for correct preservation? Yes No
- Metal - pH acceptable upon receipt (pH<2)? Yes No NA
- Samples Received on Ice? Yes No

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

Client contacted:

Date contacted:

Contacted by:

Comments:



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Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #7240 Dublin Blvd	Date Sampled: 09/20/10
		Date Received: 09/20/10
	Client Contact: Tina De La Fuente	Date Extracted: 09/20/10
	Client P.O.:	Date Analyzed: 09/20/10

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1009520

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	INF	A	2900	ND<250	35	21	38	150	4	114	d1
002A	EFF	A	ND	ND	ND	ND	ND	ND	1	100	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	25	2.5	0.25	0.25	0.25	0.25	0.25	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant



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Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #7240 Dublin Blvd	Date Sampled: 09/20/10
		Date Received: 09/20/10
	Client Contact: Tina De La Fuente	Date Extracted: 09/20/10
	Client P.O.:	Date Analyzed: 09/20/10

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1009520

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	INF	A	810	ND<60	11	5.5	8.7	34	4	114	d1
002A	EFF	A	ND	ND	ND	ND	ND	ND	1	100	

ppm (mg/L) to ppmv (uL/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	7.0	0.68	0.077	0.065	0.057	0.057	1	uL/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* vapor samples are reported in µL/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L, water samples and all TCLP & SPLP extracts are reported in µg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

%SS = Percent Recovery of Surrogate Standard
 DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Air

QC Matrix: Water

BatchID: 53219

WorkOrder 1009520

EPA Method SW8021B/8015Bm		Extraction SW5030B							Spiked Sample ID: 1009527-003A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) ^f	ND	60	88.5	88.8	0.307	94.8	85.5	10.4	70 - 130	20	70 - 130	20
MTBE	ND	10	109	113	3.67	111	115	3.78	70 - 130	20	70 - 130	20
Benzene	ND	10	103	103	0	101	105	3.70	70 - 130	20	70 - 130	20
Toluene	ND	10	92.2	92.4	0.198	92.5	94.3	1.86	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	91	91.1	0.0964	88.9	93.1	4.53	70 - 130	20	70 - 130	20
Xylenes	ND	30	103	102	0.559	101	104	2.99	70 - 130	20	70 - 130	20
%SS:	106	10	102	101	0.308	106	105	0.213	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 53219 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1009520-001A	09/20/10 12:32 PM	09/20/10	09/20/10 10:52 PM	1009520-002A	09/20/10 12:30 PM	09/20/10	09/20/10 11:22 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = 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.



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Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: 7240 Dublin Blvd	Date Sampled: 09/21/10
		Date Received: 09/22/10
	Client Contact: Tina De La Fuente	Date Reported: 09/24/10
	Client P.O.:	Date Completed: 09/23/10

WorkOrder: 1009594

September 24, 2010

Dear Tina:

Enclosed within are:

- 1) The results of the **3** analyzed samples from your project: **7240 Dublin Blvd,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

RUSH

1009594

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Road
Pittsburg, CA 94565

Website: www.mccampbell.com Email: main@mccampbell.com

Telephone: (925) 252-9262

Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Tina de la Fuente Bill To: Pangea
Company: Pangea Environmental Services, Inc.
1710 Franklin Street, Suite 200, Oakland, CA 94612
E-Mail: tdelafuente@pangeaenv.com
Tele: (510) 836-3702 Fax: (510) 836-3709
Project #: 7240 Dublin Blvd Project Name: 7240 Dublin Blvd
Project Location: 7240 Dublin Blvd., Dublin, CA
Sampler Signature: *[Signature]*

Analysis Request

Other Comments

SAMPLE ID	LOCATION (Field Point Name)	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				Analysis Request	Other	Comments
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other			
+ INF	INF	9/21/10	0812	5	Yok 200g	X						X	X				Filter Samples for Metals analysis: Yes / No
✓ MID	MID	↓	0810	5	↓												
✓ EFF	EFF	↓	0808	5	↓												

Relinquished By: *[Signature]* Date: 9/21/10 Time: 12:15 Received By: *[Signature]*

Relinquished By: *[Signature]* Date: 9/22/10 Time: 1:50 Received By: *[Signature]*

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

COMMENTS:

ICE# 1.9i

GOOD CONDITION ✓

HEAD SPACE ABSENT ✓

DECHLORINATED IN LAB ✓

APPROPRIATE CONTAINERS ✓

PRESERVED IN LAB ✓

VOAS O&G METALS OTHER
PRESERVATION pH<2

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1009594

ClientCode: PEO

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:		Bill to:	Requested TAT: 2 days
Tina De La Fuente	Email: tdelafuente@pangeaenv.com	Bob Clark-Riddell	
Pangea Environmental Svcs., Inc.	cc:	Pangea Environmental Svcs., Inc.	<i>Date Received: 09/22/2010</i>
1710 Franklin Street, Ste. 200	PO:	1710 Franklin Street, Ste. 200	<i>Date Printed: 09/22/2010</i>
Oakland, CA 94612	ProjectNo: 7240 Dublin Blvd	Oakland, CA 94612	
(510) 836-3700 FAX (510) 836-3709			

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
1009594-001	INF	Water	9/21/2010 8:12	<input type="checkbox"/>	A	A	B									
1009594-002	MID	Water	9/21/2010 8:10	<input type="checkbox"/>	A		B									
1009594-003	EFF	Water	9/21/2010 8:08	<input type="checkbox"/>	A		B									

Test Legend:

1	G-MBTEX_W	2	PREDF REPORT	3	TPH(D)WGS_W	4		5	
6		7		8		9		10	
11		12							

Prepared by: Melissa Valles

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.



Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.**

Date and Time Received: **9/22/2010 3:36:40 PM**

Project Name: **7240 Dublin Blvd**

Checklist completed and reviewed by: **Melissa Valles**

WorkOrder N°: **1009594** Matrix Water

Carrier: Rob Pringle (MAI Courier)

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: 1.8°C NA
 - Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 - Sample labels checked for correct preservation? Yes No
 - Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 - Samples Received on Ice? Yes No
- (Ice Type: WET ICE)

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

Client contacted:

Date contacted:

Contacted by:

Comments:



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Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: 7240 Dublin Blvd	Date Sampled: 09/21/10
		Date Received: 09/22/10
	Client Contact: Tina De La Fuente	Date Extracted: 09/22/10-09/23/10
	Client P.O.:	Date Analyzed: 09/22/10-09/23/10

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1009594

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	INF	W	3400	1800	110	93	21	520	10	96	d1
002A	MID	W	ND	ND	ND	ND	ND	ND	1	100	
003A	EFF	W	ND	ND	ND	ND	ND	ND	1	102	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant



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Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: 7240 Dublin Blvd	Date Sampled: 09/21/10
		Date Received: 09/22/10
	Client Contact: Tina De La Fuente	Date Extracted: 09/22/10
	Client P.O.:	Date Analyzed 09/22/10-09/23/10

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method SW3510C/3630C

Analytical methods: SW8015B

Work Order: 1009594

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments
1009594-001B	INF	W	1900	1	100	e4
1009594-002B	MID	W	ND	1	85	
1009594-003B	EFF	W	ND	1	81	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract/matrix interference.

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

e4) gasoline range compounds are significant.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 53294

WorkOrder 1009594

Analyte	EPA Method SW8021B/8015Bm		Extraction SW5030B						Spiked Sample ID: 1009594-003A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	60	92.3	89.9	2.61	90.8	91.2	0.497	70 - 130	20	70 - 130	20
MTBE	ND	10	106	112	5.71	101	108	6.41	70 - 130	20	70 - 130	20
Benzene	ND	10	95.3	95.7	0.332	94.9	94	0.987	70 - 130	20	70 - 130	20
Toluene	ND	10	92.8	93.6	0.850	93.8	94.6	0.823	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	92.4	93.2	0.903	94.4	94.1	0.322	70 - 130	20	70 - 130	20
Xylenes	ND	30	96.2	96.8	0.710	96.7	97.4	0.693	70 - 130	20	70 - 130	20
%SS:	102	10	99	98	0.842	98	94	4.31	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 53294 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1009594-001A	09/21/10 8:12 AM	09/23/10	09/23/10 7:48 AM	1009594-002A	09/21/10 8:10 AM	09/22/10	09/22/10 6:08 PM
1009594-003A	09/21/10 8:08 AM	09/22/10	09/22/10 6:41 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/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, or inconsistency in sample containers.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 53298

WorkOrder 1009594

EPA Method SW8015B		Extraction SW3510C/3630C							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	105	105	0	N/A	N/A	70 - 130	30
%SS:	N/A	625	N/A	N/A	N/A	114	115	0.586	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 53298 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1009594-001B	09/21/10 8:12 AM	09/22/10	09/23/10 6:00 PM	1009594-002B	09/21/10 8:10 AM	09/22/10	09/22/10 5:50 PM
1009594-003B	09/21/10 8:08 AM	09/22/10	09/22/10 6:56 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = 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.



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: 7240 Dublin Blvd	Date Sampled: 09/29/10
		Date Received: 09/29/10
	Client Contact: Bob Clark-Riddell	Date Reported: 10/04/10
	Client P.O.:	Date Completed: 10/04/10

WorkOrder: 1009797

October 04, 2010

Dear Bob:

Enclosed within are:

- 1) The results of the **2** analyzed samples from your project: **7240 Dublin Blvd,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

1009797

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Road
Pittsburg, CA 94565

Website: www.mccampbell.com Email: main@mccampbell.com

Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR

EDF Required? Coelt (Normal) No Write On (DW) No

5 DAY

Report To: Bob Clark-Riddell Bill To: Pangea
 Company: Pangea Environmental Services, Inc.
 1710 Franklin Street, Suite 200, Oakland, CA 94612
 E-Mail: briddell@pangeaenv.com
 Tele: (510) 435-8664 Fax: (510) 836-3709
 Project #: 7240 Dublin Blvd Project Name: 7240 Dublin Blvd
 Project Location: 7240 Dublin Blvd., Dublin, CA
 Sampler Signature:

Analysis Request

Other

Comments

SAMPLE ID	LOCATION (Field Point Name)	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED												
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other									
SYS-INF		9/29/10	14:05	1	BAG			X															
SYS-EFF		↓	14:00	1	BAG			X															

BTEX & TPH as Gas (602/8020 + 8015)/MTBE	
TPH as Diesel (8015) w/ Silica Gel Cleanup	
Total Petroleum Oil & Grease (5520 E&F/B&F)	
Total Petroleum Hydrocarbons (418.1)	
EPA 601 / 8010 / 8021	
BTEX ONLY (EPA 602 / 8020)	
EPA 608 / 8081	
EPA 608 / 8082 PCB's ONLY	
EPA 8140 / 8141	
EPA 8150 / 8151	
EPA 524.2 / 624 / 8260	
EPA 525 / 625 / 8270	
PAH's / PNA's by EPA 625 / 8270 / 8310	
CAM-17 Metals (6010 / 6020)	
LUFT 5 Metals (6010 / 6020)	
Lead (200.8 / 200.9 / 6010)	

Filter Samples for Metals analysis: Yes / No

Relinquished By: *Bob Clark-Riddell* Date: 9/29/10 Time: 3:20 PM Received By: *Enviro Tech DM*
 Relinquished By: *Enviro Tech Sr* Date: 9/29/10 Time: 1:50 PM Received By: *[Signature]*
 Relinquished By: *[Signature]* Date: 9/29/10 Time: 1:05 PM Received By: *[Signature]*

ICE/r* _____ COMMENTS: *Report in ug/L + ppmv*
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____
 VOAS O&G METALS OTHER
 PRESERVATION pH<2

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1009797

ClientCode: PEO

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:	Bill to:	Requested TAT: 5 days
Bob Clark-Riddell	Bob Clark-Riddell	
Pangea Environmental Svcs., Inc.	Pangea Environmental Svcs., Inc.	<i>Date Received: 09/29/2010</i>
1710 Franklin Street, Ste. 200	1710 Franklin Street, Ste. 200	<i>Date Printed: 09/29/2010</i>
Oakland, CA 94612	Oakland, CA 94612	
(510) 836-3700 FAX (510) 836-3709		

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	
1009797-001	SYS-INF	Air	9/29/2010 14:05	<input type="checkbox"/>	A	A											
1009797-002	SYS-EFF	Air	9/29/2010 14:00	<input type="checkbox"/>	A												

Test Legend:

1	G-MBTEX AIR	2	PREDF REPORT	3		4		5	
6		7		8		9		10	
11		12							

The following SampleIDs: 001A, 002A contain testgroup.

Prepared by: Ana 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.



Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.**

Date and Time Received: **9/29/2010 5:02:22 PM**

Project Name: **7240 Dublin Blvd**

Checklist completed and reviewed by: **Ana Venegas**

WorkOrder N°: **1009797** Matrix Air

Carrier: Benjamin Yslas (MAI Courier)

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: NA
- Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
- Sample labels checked for correct preservation? Yes No
- Metal - pH acceptable upon receipt (pH<2)? Yes No NA
- Samples Received on Ice? Yes No

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

Client contacted:

Date contacted:

Contacted by:

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

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Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: 7240 Dublin Blvd	Date Sampled: 09/29/10
		Date Received: 09/29/10
	Client Contact: Bob Clark-Riddell	Date Extracted: 09/29/10
	Client P.O.:	Date Analyzed: 09/29/10

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1009797

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	SYS-INF	A	2300	ND<60	22	37	22	140	2	87	d1
002A	SYS-EFF	A	ND	ND	ND	ND	ND	ND	1	104	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	25	2.5	0.25	0.25	0.25	0.25	0.25	μg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in μg/L, soil/sludge/solid samples in mg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant



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Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: 7240 Dublin Blvd	Date Sampled: 09/29/10
		Date Received: 09/29/10
	Client Contact: Bob Clark-Riddell	Date Extracted: 09/29/10
	Client P.O.:	Date Analyzed: 09/29/10

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1009797

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	SYS-INF	A	640	ND<15	6.8	9.7	5.1	32	2	87	d1
002A	SYS-EFF	A	ND	ND	ND	ND	ND	ND	1	104	

ppm (mg/L) to ppmv (uL/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	7.0	0.68	0.077	0.065	0.057	0.057	1	uL/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* vapor samples are reported in $\mu\text{L/L}$, soil/sludge/solid samples in mg/kg, wipe samples in $\mu\text{g/wipe}$, product/oil/non-aqueous liquid samples in mg/L, water samples and all TCLP & SPLP extracts are reported in $\mu\text{g/L}$.

cluttered chromatogram; sample peak coelutes with surrogate peak.

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Air

QC Matrix: Water

BatchID: 53422

WorkOrder 1009797

EPA Method SW8021B/8015Bm		Extraction SW5030B							Spiked Sample ID: 1009796-003A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) ^f	ND	60	98.2	103	4.66	100	99.7	0.593	70 - 130	20	70 - 130	20
MTBE	ND	10	100	111	9.79	107	113	5.67	70 - 130	20	70 - 130	20
Benzene	ND	10	92.5	99.8	7.60	95.1	99.9	4.93	70 - 130	20	70 - 130	20
Toluene	ND	10	92.6	101	8.43	95.1	99.7	4.69	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	91.1	98.6	7.84	93.2	98.6	5.65	70 - 130	20	70 - 130	20
Xylenes	ND	30	93.5	101	7.87	96.1	101	5.25	70 - 130	20	70 - 130	20
%SS:	100	10	97	101	3.48	96	98	2.49	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 53422 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1009797-001A	09/29/10 2:05 PM	09/29/10	09/29/10 8:14 PM	1009797-002A	09/29/10 2:00 PM	09/29/10	09/29/10 7:43 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = 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.



McC Campbell Analytical, Inc.

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Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #7240 Dublin Blvd	Date Sampled: 10/14/10
		Date Received: 10/14/10
	Client Contact: Tina De La Fuente	Date Reported: 10/21/10
	Client P.O.:	Date Completed: 10/21/10

WorkOrder: 1010410

October 21, 2010

Dear Tina:

Enclosed within are:

- 1) The results of the **5** analyzed samples from your project: **#7240 Dublin Blvd**,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

1010410

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Road
Pittsburg, CA 94565

Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME
RUSH 24 HR 48 HR 72 HR 5 DAY
EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Tina de la Fuente	Bill To: Pangea
Company: Pangea Environmental Services, Inc.	
1710 Franklin Street, Suite 200, Oakland, CA 94612	
E-Mail: tdelafuente@pangeaenv.com	
Tele: (510) 836-3702	Fax: (510) 836-3709
Project #: 7240 Dublin Blvd	Project Name: 7240 Dublin Blvd
Project Location: 7240 Dublin Blvd., Dublin, CA	
Sampler Signature: <i>T. de la Fuente</i>	

SAMPLE ID	LOCATION (Field Point Name)	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				Analysis Request	Other	Comments	
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other				
INF-A	INF	10/14/10	1206	1	Fedlar			X									Filter Samples for Metals analysis: Yes / No	
EFF-A	EFF	16/14/10	1205	1	↓			X										
X INF-W	INF	↓	1152	5	VIA Ambient	X					X	X						
✓ MID-W	MID	↓	1220	↓	↓	X					X	X						
- EFF-W	EFF	↓	1150	↓	↓	X					X	X						

Relinquished By: <i>T. de la Fuente</i>	Date: 10/14/10	Time: 1342	Received By: <i>Envirotech DM</i>	COMMENTS: Report AIR IN PPMV ✓ VOAS O&G METALS OTHER PRESERVATION pH<2
Relinquished By: <i>Envirotech DM</i>	Date: 10/14/10	Time: 3:20p	Received By: <i>Dark Co</i>	
Relinquished By: <i>Dark Co</i>	Date: 10/14	Time: 1545	Received By: <i>Crack</i>	

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1010410

ClientCode: PEO

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to: Tina De La Fuente Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612 (510) 836-3700 FAX (510) 836-3709	Email: tdelafuente@pangeaenv.com cc: PO: ProjectNo: #7240 Dublin Blvd	Bill to: Bob Clark-Riddell Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Requested TAT: 5 days Date Received: 10/14/2010 Date Printed: 10/14/2010
--	--	--	---

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	
1010410-001	INF-A	Air	10/14/2010 12:06	<input type="checkbox"/>	A		A										
1010410-002	EFF-A	Air	10/14/2010 12:05	<input type="checkbox"/>	A												
1010410-003	INF-W	Water	10/14/2010 11:52	<input type="checkbox"/>		B	A										
1010410-004	MID-W	Water	10/14/2010 12:20	<input type="checkbox"/>		B	A										
1010410-005	EFF-W	Water	10/14/2010 11:50	<input type="checkbox"/>		B	A										

Test Legend:

1	G-MBTEX_AIR	2	G-MBTEX_W	3	PREFD REPORT	4	TPH(D)WSG_W	5	
6		7		8		9		10	
11		12							

The following SampIDs: 001A, 002A contain testgroup.

Prepared by: Ana 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.



Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.**

Date and Time Received: **10/14/2010 5:20:50 PM**

Project Name: **#7240 Dublin Blvd**

Checklist completed and reviewed by: **Ana Venegas**

WorkOrder N°: **1010410** Matrix Air/Water

Carrier: Derik Cartan (MAI Courier)

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: 6.2°C NA
 - Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
 - Sample labels checked for correct preservation? Yes No
 - Metal - pH acceptable upon receipt (pH<2)? Yes No NA
 - Samples Received on Ice? Yes No
- (Ice Type: WET ICE)

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

Client contacted:

Date contacted:

Contacted by:

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #7240 Dublin Blvd	Date Sampled: 10/14/10
		Date Received: 10/14/10
	Client Contact: Tina De La Fuente	Date Extracted: 10/14/10-10/15/10
	Client P.O.:	Date Analyzed: 10/14/10-10/15/10

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1010410

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	INF-A	A	1500	ND<25	8.2	31	13	100	2	85	d1
002A	EFF-A	A	ND	ND	ND	ND	ND	ND	1	96	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	25	2.5	0.25	0.25	0.25	0.25	0.25	μg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in μg/L, soil/sludge/solid samples in mg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #7240 Dublin Blvd	Date Sampled: 10/14/10
		Date Received: 10/14/10
	Client Contact: Tina De La Fuente	Date Extracted: 10/15/10-10/18/10
	Client P.O.:	Date Analyzed: 10/15/10-10/18/10

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1010410

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
003B	INF-W	W	220	500	ND	ND	ND	ND	1	85	d2,d9
004B	MID-W	W	ND	ND	ND	ND	ND	ND	1	90	
005B	EFF-W	W	ND	ND	ND	ND	ND	ND	1	94	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

d2) heavier gasoline range compounds are significant (aged gasoline?)
d9) no recognizable pattern



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Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #7240 Dublin Blvd	Date Sampled: 10/14/10
		Date Received: 10/14/10
	Client Contact: Tina De La Fuente	Date Extracted: 10/14/10
	Client P.O.:	Date Analyzed 10/20/10

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method SW3510C/3630C

Analytical methods: SW8015B

Work Order: 1010410

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments
1010410-003A	INF-W	W	430	1	83	e4,e2
1010410-004A	MID-W	W	ND	1	80	
1010410-005A	EFF-W	W	ND	1	75	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract/matrix interference.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern
e4) gasoline range compounds are significant.



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Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #7240 Dublin Blvd	Date Sampled: 10/14/10
		Date Received: 10/14/10
	Client Contact: Tina De La Fuente	Date Extracted: 10/14/10-10/15/10
	Client P.O.:	Date Analyzed: 10/14/10-10/15/10

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1010410

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	INF-A	A	410	ND<5.0	2.5	8.1	3.0	23	2	85	d1
002A	EFF-A	A	ND	ND	ND	ND	ND	ND	1	96	

ppm (mg/L) to ppmv (ul/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	7.0	0.68	0.077	0.065	0.057	0.057	1	uL/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* vapor samples are reported in µL/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L, water samples and all TCLP & SPLP extracts are reported in µg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water/Air

QC Matrix: Water

BatchID: 53705

WorkOrder 1010410

EPA Method SW8021B/8015Bm		Extraction SW5030B							Spiked Sample ID: 1010362-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	60	104	105	0.887	106	108	1.16	70 - 130	20	70 - 130	20
MTBE	ND	10	101	102	1.35	109	107	1.71	70 - 130	20	70 - 130	20
Benzene	ND	10	94.5	91.2	3.56	94.4	93.9	0.515	70 - 130	20	70 - 130	20
Toluene	ND	10	95.7	90.4	5.76	94.8	94.1	0.748	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	94.6	91.1	3.76	93.3	93.5	0.185	70 - 130	20	70 - 130	20
Xylenes	ND	30	97.1	93.2	4.09	95.8	95.8	0	70 - 130	20	70 - 130	20
%SS:	104	10	97	96	1.44	97	97	0	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 53705 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010410-001A	10/14/10 12:06 PM	10/15/10	10/15/10 6:55 PM	1010410-002A	10/14/10 12:05 PM	10/14/10	10/14/10 8:17 PM
1010410-003B	10/14/10 11:52 AM	10/15/10	10/15/10 9:44 PM	1010410-003B	10/14/10 11:52 AM	10/18/10	10/18/10 7:36 PM
1010410-004B	10/14/10 12:20 PM	10/15/10	10/15/10 10:52 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = 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.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 53812

WorkOrder 1010410

EPA Method SW8021B/8015Bm		Extraction SW5030B							Spiked Sample ID: 1010410-005B			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) ^f	ND	60	108	106	2.19	109	106	2.46	70 - 130	20	70 - 130	20
MTBE	ND	10	107	111	3.05	110	110	0	70 - 130	20	70 - 130	20
Benzene	ND	10	96.4	98.5	2.20	98.4	98.2	0.178	70 - 130	20	70 - 130	20
Toluene	ND	10	96.9	99.3	2.43	101	99	1.91	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	96.5	98	1.46	98.1	98.2	0.0453	70 - 130	20	70 - 130	20
Xylenes	ND	30	99.4	101	1.32	100	101	0.184	70 - 130	20	70 - 130	20
%SS:	94	10	95	97	1.26	98	98	0	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 53812 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010410-005B	10/14/10 11:50 AM	10/15/10	10/15/10 11:25 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/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, or inconsistency in sample containers.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 53813

WorkOrder 1010410

EPA Method SW8015B		Extraction SW3510C/3630C							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	120	120	0	N/A	N/A	70 - 130	30
%SS:	N/A	625	N/A	N/A	N/A	105	105	0	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 53813 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010410-003A	10/14/10 11:52 AM	10/14/10	10/20/10 7:23 PM	1010410-004A	10/14/10 12:20 PM	10/14/10	10/20/10 8:29 PM
1010410-005A	10/14/10 11:50 AM	10/14/10	10/20/10 9:34 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = 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.



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Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: 7240 Dublin Blvd	Date Sampled: 10/27/10
		Date Received: 10/27/10
	Client Contact: Tina De La Fuente	Date Reported: 11/01/10
	Client P.O.:	Date Completed: 10/29/10

WorkOrder: 1010755

November 01, 2010

Dear Tina:

Enclosed within are:

- 1) The results of the **2** analyzed samples from your project: **7240 Dublin Blvd**,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

1010755

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Road
Pittsburg, CA 94565

Website: www.mccampbell.com Email: main@mccampbell.com

Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

EDF Required? Coelt (Normal)

RUSH 24 HR 48 HR 72 HR 5 DAY
No Write On (DW) No

Report To: Tina de la Fuente Bill To: Pangea
Company: Pangea Environmental Services, Inc.
1710 Franklin Street, Suite 200, Oakland, CA 94612
E-Mail: tdelafuente@pangeaenv.com
Tele: (510) 836-3702 Fax: (510) 836-3709
Project #: 7240 Dublin Blvd Project Name: 7240 Dublin Blvd
Project Location: 7240 Dublin Blvd., Dublin, CA
Sampler Signature: *[Signature]*

Analysis Request										Other	Comments	
BTEX & TPH as Gas (602/8020 + 8015)/MTBE												Filter Samples for Metals analysis: Yes / No
TPH as Diesel (8015) w/ Silica Gel Cleanup												
Total Petroleum Oil & Grease (5520 E&F/B&F)												
Total Petroleum Hydrocarbons (418.1)												
EPA 601 / 8010 / 8021												
BTEX ONLY (EPA 602 / 8020)												
EPA 608 / 8081												
EPA 608 / 8082 PCB's ONLY												
EPA 8140 / 8141												
EPA 8150 / 8151												
EPA 524.2 / 624 / 8260												
EPA 525 / 625 / 8270												
PAH's / PNA's by EPA 625 / 8270 / 8310												
CAM-17 Metals (6010 / 6020)												
LUFT 5 Metals (6010 / 6020)												
Lead (200.8 / 200.9 / 6010)												

SAMPLE ID	LOCATION (Field Point Name)	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED							
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other				
INF-A	INF	10/27/10	1026	1	Field Bag			X										
EFF-A	EFF	10/27/10	1024	1	Field Bag			X										

Relinquished By: <i>[Signature]</i>	Date: 10/27/10	Time: 1105	Received By: Envirotech DM
Relinquished By: Enviro-Tech SR	Date: 10/27/10	Time: 1530	Received By: <i>[Signature]</i>
Relinquished By: <i>[Signature]</i>	Date: 10/27	Time: 1620	Received By: <i>[Signature]</i>

ICE/r GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

VOAS O&G METALS OTHER
PRESERVATION pH<2

COMMENTS:

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1010755

ClientCode: PEO

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:	Tina De La Fuente	Email: tdelafuente@pangeaenv.com	Bill to:	Bob Clark-Riddell	Requested TAT:	5 days
	Pangea Environmental Svcs., Inc.	cc:		Pangea Environmental Svcs., Inc.	Date Received:	10/27/2010
	1710 Franklin Street, Ste. 200	PO:		1710 Franklin Street, Ste. 200	Date Printed:	10/27/2010
	Oakland, CA 94612	ProjectNo: 7240 Dublin Blvd		Oakland, CA 94612		
	(510) 836-3700 FAX (510) 836-3709					

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	
1010755-001	INF-A	Air	10/27/2010 10:26	<input type="checkbox"/>	A	A											
1010755-002	EFF-A	Air	10/27/2010 10:24	<input type="checkbox"/>	A												

Test Legend:

1	G-MBTEX AIR	2	PREDF REPORT	3		4		5	
6		7		8		9		10	
11		12							

The following SampleIDs: 001A, 002A contain testgroup.

Prepared by: Ana 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.



Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.**

Date and Time Received: **10/27/2010 4:35:07 PM**

Project Name: **7240 Dublin Blvd**

Checklist completed and reviewed by: **Ana Venegas**

WorkOrder N°: **1010755** Matrix Air

Carrier: Derik Cartan (MAI Courier)

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: NA
- Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
- Sample labels checked for correct preservation? Yes No
- Metal - pH acceptable upon receipt (pH<2)? Yes No NA
- Samples Received on Ice? Yes No

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

Client contacted:

Date contacted:

Contacted by:

Comments:



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Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: 7240 Dublin Blvd	Date Sampled: 10/27/10
		Date Received: 10/27/10
	Client Contact: Tina De La Fuente	Date Extracted: 10/28/10
	Client P.O.:	Date Analyzed: 10/28/10

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1010755

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	INF-A	A	490	ND<15	2.2	12	4.3	42	1	112	d1
002A	EFF-A	A	ND	ND	ND	ND	ND	ND	1	104	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	25	2.5	0.25	0.25	0.25	0.25	0.25	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant



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Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: 7240 Dublin Blvd	Date Sampled: 10/27/10
		Date Received: 10/27/10
	Client Contact: Tina De La Fuente	Date Extracted: 10/28/10
	Client P.O.:	Date Analyzed: 10/28/10

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1010755

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	INF-A	A	140	ND<5.0	0.67	3.2	0.98	9.4	1	112	d1
002A	EFF-A	A	ND	ND	ND	ND	ND	ND	1	104	

ppm (mg/L) to ppmv (ul/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	7.0	0.68	0.077	0.065	0.057	0.057	1	uL/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* vapor samples are reported in µL/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L, water samples and all TCLP & SPLP extracts are reported in µg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

%SS = Percent Recovery of Surrogate Standard
DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant

OC for
_____ Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Air

QC Matrix: Water

BatchID: 54009

WorkOrder 1010755

EPA Method SW8021B/8015Bm		Extraction SW5030B							Spiked Sample ID: 1010706-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	60	93.6	95.1	1.61	96.4	98.9	2.61	70 - 130	20	70 - 130	20
MTBE	ND	10	119	118	0.856	118	121	2.76	70 - 130	20	70 - 130	20
Benzene	ND	10	105	109	2.97	106	106	0	70 - 130	20	70 - 130	20
Toluene	ND	10	95.5	97.2	1.69	94.5	96.3	1.89	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	95.3	96.7	1.45	94.5	95.1	0.646	70 - 130	20	70 - 130	20
Xylenes	ND	30	107	109	1.28	105	107	1.50	70 - 130	20	70 - 130	20
%SS:	100	10	103	104	0.992	104	106	1.91	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 54009 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1010755-001A	10/27/10 10:26 AM	10/28/10	10/28/10 2:28 AM	1010755-001A	10/27/10 10:26 AM	10/28/10	10/28/10 2:28 AM
1010755-002A	10/27/10 10:24 AM	10/28/10	10/28/10 2:58 AM	1010755-002A	10/27/10 10:24 AM	10/28/10	10/28/10 2:58 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = 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.



McC Campbell Analytical, Inc.

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1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: 7240 Dublin Blvd	Date Sampled: 11/10/10
		Date Received: 11/10/10
	Client Contact: Tina De La Fuente	Date Reported: 11/15/10
	Client P.O.:	Date Completed: 11/11/10

WorkOrder: 1011330

November 15, 2010

Dear Tina:

Enclosed within are:

- 1) The results of the **2** analyzed samples from your project: **7240 Dublin Blvd,**
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1011330

ClientCode: PEO

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:		Bill to:	Requested TAT: 5 days
Tina De La Fuente	Email: tdelafuente@pangeaenv.com	Bob Clark-Riddell	
Pangea Environmental Svcs., Inc.	cc:	Pangea Environmental Svcs., Inc.	Date Received: 11/10/2010
1710 Franklin Street, Ste. 200	PO:	1710 Franklin Street, Ste. 200	Date Printed: 11/10/2010
Oakland, CA 94612	ProjectNo: 7240 Dublin Blvd	Oakland, CA 94612	
(510) 836-3700 FAX (510) 836-3709			

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	
1011330-001	INF-A	Air	11/10/2010 11:27	<input type="checkbox"/>	A	A											
1011330-002	EFF-A	Air	11/10/2010 11:25	<input type="checkbox"/>	A												

Test Legend:

1	G-MBTEX AIR	2	PREDF REPORT	3		4		5	
6		7		8		9		10	
11		12							

The following SampleIDs: 001A, 002A contain testgroup.

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.



Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.**

Date and Time Received: **11/10/2010 4:07:56 PM**

Project Name: **7240 Dublin Blvd**

Checklist completed and reviewed by: **Maria Venegas**

WorkOrder N°: **1011330** Matrix Air

Carrier: Rob Pringle (MAI Courier)

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: NA
- Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
- Sample labels checked for correct preservation? Yes No
- Metal - pH acceptable upon receipt (pH<2)? Yes No NA
- Samples Received on Ice? Yes No

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

Client contacted:

Date contacted:

Contacted by:

Comments:



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Air

QC Matrix: Water

BatchID: 54314

WorkOrder 1011330

Analyte	EPA Method SW8021B/8015Bm		Extraction SW5030B						Spiked Sample ID: 1011292-005B			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	60	96.5	97.8	1.32	99.5	97.7	1.78	70 - 130	20	70 - 130	20
MTBE	ND	10	124	120	3.28	124	118	5.16	70 - 130	20	70 - 130	20
Benzene	ND	10	111	109	1.22	110	115	3.96	70 - 130	20	70 - 130	20
Toluene	ND	10	95.4	94.5	0.925	96.8	96.8	0	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	96.2	94.4	1.87	95.7	97.1	1.43	70 - 130	20	70 - 130	20
Xylenes	ND	30	109	107	1.98	108	109	1.28	70 - 130	20	70 - 130	20
%SS:	104	10	100	99	1.01	103	101	1.94	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 54314 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1011330-001A	11/10/10 11:27 AM	11/10/10	11/10/10 6:37 PM	1011330-002A	11/10/10 11:25 AM	11/10/10	11/10/10 7:10 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = 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.



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Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: 7240 Dublin Blvd	Date Sampled: 11/12/10
		Date Received: 11/12/10
	Client Contact: Tina De La Fuente	Date Reported: 11/18/10
	Client P.O.:	Date Completed: 11/18/10

WorkOrder: 1011393

November 22, 2010

Dear Tina:

Enclosed within are:

- 1) The results of the **3** analyzed samples from your project: **7240 Dublin Blvd**,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McC Campbell Analytical, Inc.

1011393

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Road
Pittsburg, CA 94565

Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (925) 252-9262 Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME 5 DAY
RUSH 24 HR 48 HR 72 HR 5 DAY
EDF Required? Coelt (Normal) No Write On (DW) No

Report To: Tina de la Fuente Bill To: Pangea
Company: Pangea Environmental Services, Inc.
1710 Franklin Street, Suite 200, Oakland, CA 94612
E-Mail: tdelafuente@pangeaenv.com
Tele: (510) 836-3702 Fax: (510) 836-3709
Project #: 7240 Dublin Blvd Project Name: 7240 Dublin Blvd
Project Location: 7240 Dublin Blvd., Dublin, CA
Sampler Signature: *T. de la Fuente*

Analysis Request														Other	Comments		
BTEX & TPH as Gas (602/8020 + 8015)/MTBE	TPH as Diesel (8015) w/ Silica Gel Cleanup	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010 / 8021	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8081	EPA 608 / 8082 PCB's ONLY	EPA 8140 / 8141	EPA 8150 / 8151	EPA 524.2 / 624 / 8260	EPA 525 / 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals (6010 / 6020)	LUFT 5 Metals (6010 / 6020)	Lead (200.8 / 200.9 / 6010)		Filter Samples for Metals analysis: Yes / No

SAMPLE ID	LOCATION (Field Point Name)	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED						
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other			
INF-W	INF	11/12/10	1035	4	YOA	X					X	X					
MID-W	MID	↓	1038	↓	↓						↓	↓					
EFF-W	EFF	↓	1033	↓	↓						↓	↓					

Relinquished By: *T. de la Fuente* | Date: 11/12/10 | Time: 12:30 | Received By: *Envirotech DM*
Relinquished By: *M. J. Verc* | Date: 11/12/10 | Time: 15:50 | Received By: *Life Vall*
Relinquished By: _____ | Date: _____ | Time: _____ | Received By: _____

ICE/r° 104 COMMENTS:
GOOD CONDITION _____
HEAD SPACE ABSENT _____
DECHLORINATED IN LAB _____
APPROPRIATE CONTAINERS _____
PRESERVED IN LAB _____
VOAS O&G METALS OTHER
PRESERVATION pH<2

McC Campbell Analytical, Inc.



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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1011393

ClientCode: PEO

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Tina De La Fuente
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612
(510) 836-3700 FAX (510) 836-3709

Email: tdelafuente@pangeaenv.com
cc:
PO:
ProjectNo: 7240 Dublin Blvd

Bill to:

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

Requested TAT: 5 days

Date Received: 11/12/2010

Date Printed: 11/15/2010

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	
1011393-001	INF-W	Water	11/12/2010 10:35	<input type="checkbox"/>	A	A											
1011393-002	MID-W	Water	11/12/2010 10:38	<input type="checkbox"/>	A	A											
1011393-003	EFF-W	Water	11/12/2010 10:33	<input type="checkbox"/>	A	A											

Test Legend:

1	G-MBTEX_W	2	TPH(D)WSG_W	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Ana 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.



Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.**

Date and Time Received: **11/12/2010 4:55:51 PM**

Project Name: **7240 Dublin Blvd**

Checklist completed and reviewed by: **Julia Venegas**

WorkOrder N°: **1011393** Matrix Water

Carrier: EnviroTech (RC)

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: 10.4°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
- Sample labels checked for correct preservation? Yes No
- Metal - pH acceptable upon receipt (pH<2)? Yes No NA
- Samples Received on Ice? Yes No

(Ice Type: WET ICE)

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

Client contacted:

Date contacted:

Contacted by:

Comments:



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Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: 7240 Dublin Blvd	Date Sampled: 11/12/10
		Date Received: 11/12/10
	Client Contact: Tina De La Fuente	Date Extracted: 11/15/10-11/17/10
	Client P.O.:	Date Analyzed: 11/15/10-11/17/10

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Bm

Work Order: 1011393

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	INF-W	W	380	250	2.6	16	5.5	48	1	107	d1
002A	MID-W	W	ND	ND	ND	ND	ND	ND	1	108	
003A	EFF-W	W	ND	ND	ND	ND	ND	ND	1	104	

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

d1) weakly modified or unmodified gasoline is significant



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Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: 7240 Dublin Blvd	Date Sampled: 11/12/10
		Date Received: 11/12/10
	Client Contact: Tina De La Fuente	Date Extracted: 11/12/10
	Client P.O.:	Date Analyzed 11/13/10-11/19/10

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method SW3510C/3630C

Analytical methods: SW8015B

Work Order: 1011393

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments
1011393-001A	INF-W	W	210	1	100	e4
1011393-002A	MID-W	W	ND	1	101	
1011393-003A	EFF-W	W	ND	1	99	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract/matrix interference.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation:

e4) gasoline range compounds are significant.



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 54414

WorkOrder 1011393

Analyte	EPA Method SW8021B/8015Bm		Extraction SW5030B						Spiked Sample ID: 1011384-013A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	60	96.9	97.7	0.830	93.5	92.7	0.898	70 - 130	20	70 - 130	20
MTBE	ND	10	119	111	6.97	117	115	1.89	70 - 130	20	70 - 130	20
Benzene	ND	10	110	106	3.72	113	108	4.39	70 - 130	20	70 - 130	20
Toluene	ND	10	93.9	92.3	1.69	98.8	96	2.83	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	96.8	94.7	2.25	98.1	95.5	2.70	70 - 130	20	70 - 130	20
Xylenes	ND	30	108	107	1.18	110	108	2.25	70 - 130	20	70 - 130	20
%SS:	103	10	104	99	5.32	107	101	5.98	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 54414 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1011393-001A	11/12/10 10:35 AM	11/15/10	11/15/10 11:38 PM	1011393-001A	11/12/10 10:35 AM	11/17/10	11/17/10 1:20 AM
1011393-002A	11/12/10 10:38 AM	11/16/10	11/16/10 12:07 AM	1011393-003A	11/12/10 10:33 AM	11/16/10	11/16/10 12:37 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/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, or inconsistency in sample containers.



QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 54416

WorkOrder 1011393

EPA Method SW8015B		Extraction SW3510C/3630C							Spiked Sample ID: N/A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	100	99.7	0.637	N/A	N/A	70 - 130	30
%SS:	N/A	625	N/A	N/A	N/A	96	96	0	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 54416 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1011393-001A	11/12/10 10:35 AM	11/12/10	11/13/10 11:07 PM	1011393-002A	11/12/10 10:38 AM	11/12/10	11/13/10 9:57 PM
1011393-003A	11/12/10 10:33 AM	11/12/10	11/19/10 12:55 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / ((MS + MSD) / 2)$.

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = 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.