May 31, 2007

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

Re: **Groundwater Monitoring Report - First Quarter 2007**
Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California
ACHCSA Case No. 304

Dear Mr.Chan:

On behalf of Mr. Hooshang Hadjian, Pangea Environmental Services, Inc. has prepared this *Groundwater Monitoring Report – First Quarter 2007*. The report describes groundwater monitoring, sampling, and other site activities.

Please note that the report recommends cessation of monitoring of deep wells MW-6C, MW-7C, MW-9C, MW-10C and MW-11C due to the lack of any historical detections in these wells over more than a year of monitoring. We request that you concur with this recommendation.

Sincerely,
Pangea Environmental Services, Inc.

Bob Clark-Riddell, P.E.
Principal Engineer

Attachment: *Groundwater Monitoring Report – First Quarter 2007*

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)

GROUNDWATER MONITORING REPORT – FIRST QUARTER 2007

Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California

May 31, 2007

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

REGISTERED PROFESSIONAL ENGINEER
ROBERT G. CLARK-RIDDELL
No. C 049629
Exp. SEPT 2008
CIVIL
STATE OF CALIFORNIA

Bob Clark-Riddell, P.E.
Principal Engineer

INTRODUCTION

On behalf of Mr. Hooshang Hadjian, Pangea Environmental Services, Inc. (Pangea) conducted groundwater monitoring and sampling activities 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). Current groundwater analytical results and elevation data are shown on Figure 2 and 3. Current and historical data are summarized on Table 1.

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 with residential land use further from the site.

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 at the site 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 in 2006 installed additional monitoring wells with shorter screen lengths in identified water-bearing zones.

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 seams 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 abandoned well MW-3.

The shallower (AA, A and B) water-bearing zones primarily consist of thin seams 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 above 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 abandoned to reduce the risk of vertical contaminant migration and improve the quality 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 2.

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

GROUNDWATER MONITORING AND SAMPLING

From February 21 through February 23, 2007, groundwater monitoring and sampling was conducted at the site. Site monitoring wells were initially gauged for depth to water and inspected for SPH on February 21, 2007. All well caps were removed the night before monitoring was conducted in order to allow water levels to stabilize. Groundwater samples were obtained from all groundwater monitoring wells (MW-1, MW-2, MW-3A,MW-4, MW-5, MW-6A, MW-6B, MW-6C, MW-7AA, MW-7A, MW-7B, MW-7C, MW-8A, MW-9A, MW-9C, MW-10A, MW-10C and MW-11C) and from the three vapor wells (VW-1, VW-2 and VW-3). Sampling of the three vapor wells was initially requested in a February 9, 2006 letter from Alameda County Environmental Health (ACEH). The depth to water at survey point C-1 above the flood control channel was also measured.

Before well purging, the dissolved oxygen (DO) concentration was measured in each 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, 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^{o} 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 A.

MONITORING RESULTS

Current and historical groundwater elevation data and analytical results are described below and summarized on Table 1. 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 0.17 mg/L (well MW-3A) to 0.73 mg/L (well MW-5).

Groundwater Flow Direction

Groundwater elevations in shallower and deeper zones, based on depth-to-water data collected February 21, 2007, are shown on Figures 2 and 3, respectively.

Groundwater elevation contours and the inferred groundwater flow direction for A-zone wells are shown on Figure 2. The shallow (A) zone is defined by monitoring wells MW-1, MW-2, MW-3A, MW-4, MW-6A, MW-7A, MW-8A, MW-9A and MW-10A, and survey point C-1 in the flood control channel. Groundwater in the A-zone at the central portion of the site appears to be mounded beneath the car wash and apparently radiates outwards towards the south, east and west, while groundwater beneath Dublin Boulevard appears to flow towards the southeast (Figure 2). The permeable backfill around the sanitary sewer line (present down to approximately 17 ft depth) beneath Dublin Boulevard may influence the direction of groundwater flow.

Groundwater elevation contours and the inferred groundwater flow direction for C-zone wells are shown on Figure 3. The C-zone is defined by monitoring wells MW-6C, MW-7C, MW-9C, MW-10C, and MW-11C. Groundwater appears to flow approximately towards the west and northwest (Figure 3).

The inferred groundwater flow directions are fairly consistent with previous monitoring results. Comparison of groundwater elevation data from A-zone and C-zone wells indicates that an upward vertical hydraulic gradient is present. Groundwater elevation data are presented in Table 1.

Hydrocarbon Distribution in Groundwater

No separate-phase hydrocarbons (SPH) were detected in site wells this quarter. The lack of SPH in well MW-3A, where SPH were detected in May 2006 shortly after well installation, could be due to the brief interim remedial action conducted on July 7, 2006, which resulted in removal of approximately 40 gallons of impacted liquid from well MW-3A using a vacuum truck.

Petroleum hydrocarbons were detected in six of the twenty-two sampled wells (MW-3A, MW-6A, MW-7AA, MW-7A, VW-1 and VW-3), as shown on Table 1 and Figures 2 and 3. Well MW-7AA, located adjacent to the former release point, had the highest TPHg (18,000 µg/L) and benzene (2,400 µg/L) concentrations for all

site groundwater wells. Vapor well VW-3 contained the second highest TPHg (8,800 µg/L) concentration, while well MW-3A had the second highest benzene (890 µg/L) concentration.

In general, hydrocarbon contamination is concentrated in the upper shallow (AA) and shallow (A) water-bearing zones. No petroleum hydrocarbons were detected above reporting limits for any of the middle (B) zone or deep (C) zone groundwater wells. Generally, petroleum hydrocarbon concentration data were consistent with data collected during prior monitoring events.

Fuel Oxygenate Distribution in Groundwater

MTBE was detected above reporting limits in nine of the twenty-two sampled site wells. The four highest concentrations of MTBE were in wells MW-7AA (41,000 µg/L), MW-3A (8,400 µg/L), MW-6A (4,400 µg/L) and MW-1 (3,600 µg/L) (Table 1 and Figure 2). The recent MTBE concentrations in well MW-3A are substantially lower than the concentrations measured previously in this well and in adjacent abandoned well MW-3; the concentration reduction may be due to interim remediation in July 2006. MTBE concentrations in well MW-1 had been steadily increasing over the past three years reaching a historic high of 8,400 µg/L during the fourth quarter 2006 monitoring event, but during this quarter the MTBE concentration decreased to 3,600 µg/L, less than half the concentration recorded during the previous quarter. Other than the results obtained from these two wells, MTBE concentration data were consistent with data collected during prior monitoring events.

OTHER SITE ACTIVITIES

Upcoming Monitoring and Proposed Frequency

Since no significant contamination has ever been detected in deep wells MW-6C, MW-7C, MW-9C, MW-10C and MW-11C, and all wells have been sampled during each of the past four consecutive quarters, Pangea recommends that monitoring of these wells be curtailed. Pangea requests that ACEH concur with this recommendation.

Pangea will continue quarterly groundwater monitoring and sampling at the site. Pangea will sample site groundwater monitoring wells quarterly, except MW-6C, MW-7C, MW-9C, MW-10C and MW-11C, which will not be monitored or sampled, and MW-4 and MW-5, which will be sampled annually during the first quarter of each year. All monitored wells will be gauged for depth to water and inspected for SPH. All groundwater samples will be analyzed for TPHg/BTEX/MTBE by EPA Method 8015Cm/8021B.

The upcoming monitoring will also include the following activities:

- To evaluate shallow conditions at the site, Pangea will continue to gauge vapor wells VW-1 through VW-3 and to sample these wells if they contain sufficient water.

- To compare surface water and groundwater elevation and help evaluate whether groundwater is impacting the flood control channel, Pangea will measure the depth to water at survey point C-1 at the overpass of the flood control channel.

- To address apparently non-representative water levels measured in some site wells due to slow recovery, Pangea will open well caps approximately 24 hours prior to monitoring for future monitoring events.

Pangea will summarize groundwater monitoring activities and results in a groundwater monitoring report.

Additional Assessment and Remediation

On August 11, 2006, Pangea submitted a *Site Investigation Report* documenting recent site assessment, well installation, and interim remediation activities. In the report, Pangea recommended the installation of additional shallow monitoring wells and implementation of short-term remediation activities. Pangea is awaiting regulatory response prior to implementing these recommendations.

Electronic Reporting

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

ATTACHMENTS

Figure 1 – Vicinity Map
Figure 2 – Groundwater Elevation Contour and Hydrocarbon Concentration Map – Shallow
Figure 3 – Groundwater Elevation Contour and Hydrocarbon Concentration Map – Deep

Table 1 – Groundwater Elevation and Analytical Data
Table 2 – Well Construction Details

Appendix A – Groundwater Monitoring Field Data Sheets
Appendix B – Laboratory Analytical Report

2/17/2005

SOURCE: TOPO! MAPS

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Figure

1

Dublin Auto Wash

7240 Dublin Boulevard
Dublin, California

PANGEA

Site Location Map

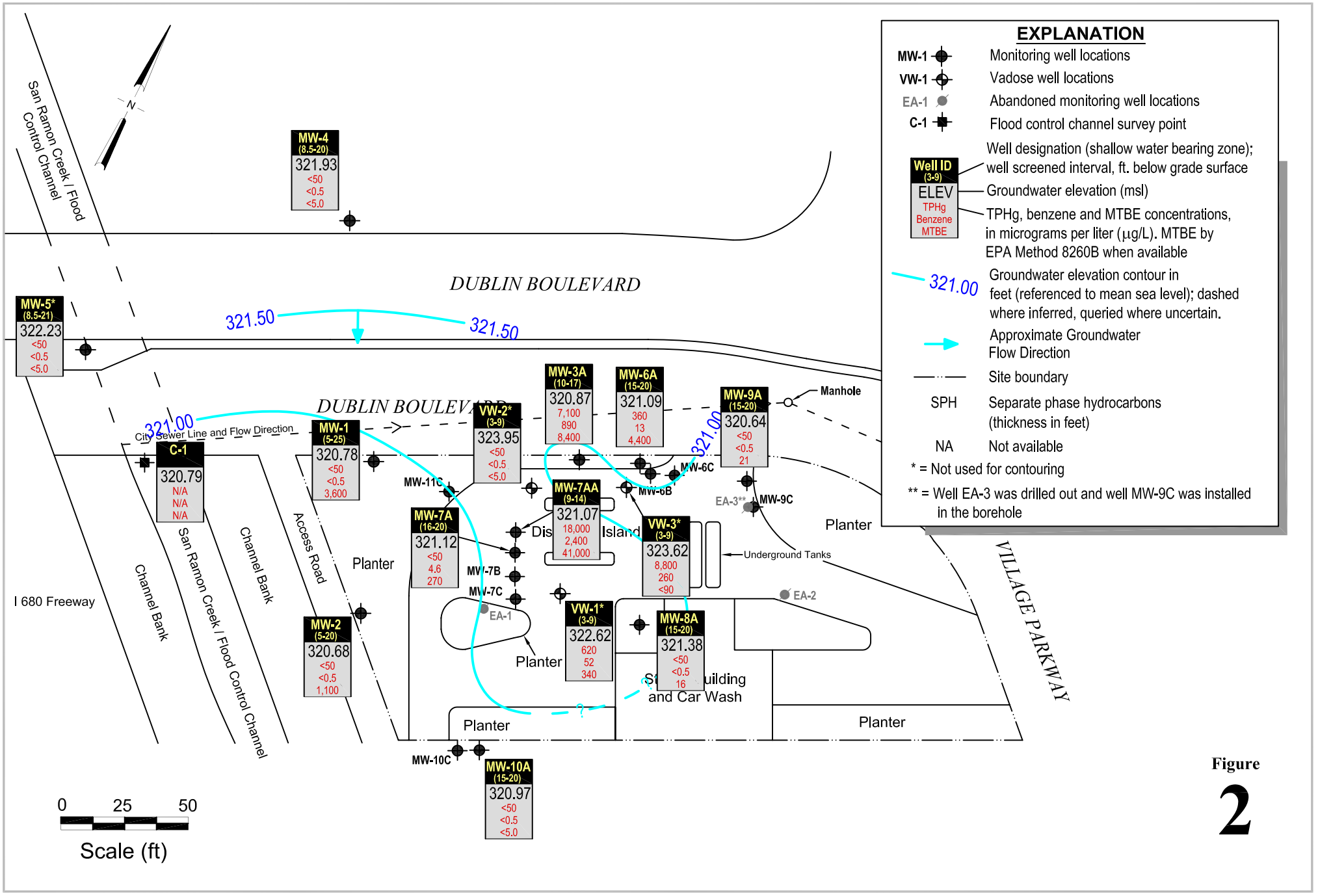

Figure 2

Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California

PANGEA

Groundwater Elevation and Hydrocarbon Concentration Map (Shallow)
February 21, 2007

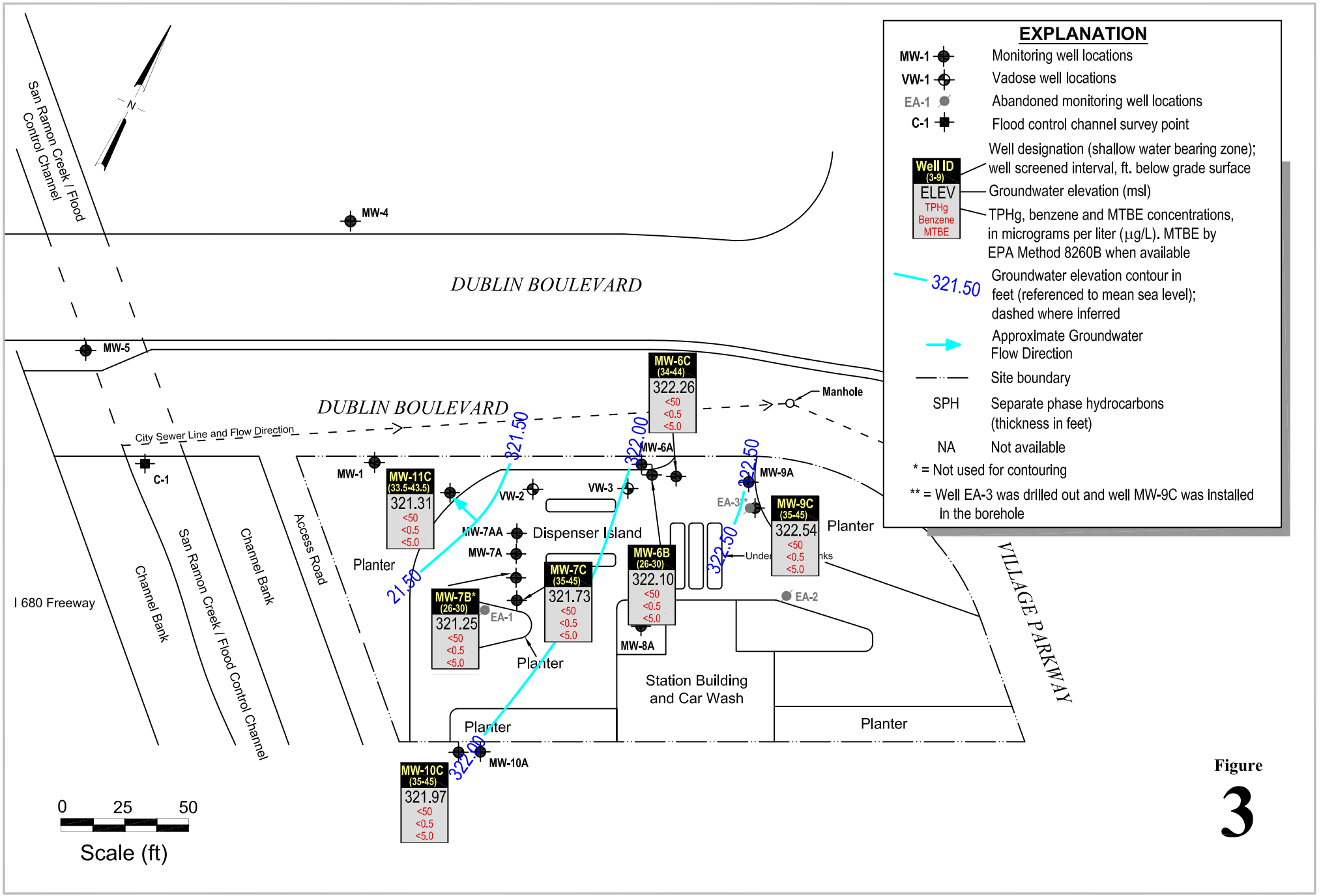

Figure 3

5/29/2007

Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California

PANGEA

Groundwater Elevation and Hydrocarbon Concentration Map (Deep)
February 21, 2007

Table 1. 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	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
				←			µg/L		→		
EA-1	10/17/88	--	--	<50	<0.5	<0.5	<0.5	<0.5	--		
331.21	10/24/88	10.64	322.77	--	--	--	--	--	--		
	11/02/88	10.69	322.72	--	--	--	--	--	--		
	12/20/88	10.51	322.9	<50	<0.5	<0.5	<0.5	<0.5	--		
	03/28/89	9.87	323.54	<250	<0.5	<0.5	<0.5	<0.5	--		
	08/02/89	10.34	323.07	<50	<0.1	<0.1	<0.1	<0.1	--		
	11/06/89	10.65	322.76	<500	<3.0	<5.0	<5.0	<5.0	--		
	01/25/90	10.6	322.81	<50	<0.5	<0.5	<0.5	<0.5	--		
	04/23/90	10.58	322.83	71	2	5	3	8	--		
	08/01/90	10.88	322.53	300	86	21	10	33	--		
	10/24/91	11.12	322.29	280	69	13	11	16	--		
	01/31/91	11.16	322.25	460	160	11	17	17	--		
	08/21/91	10.8	322.61	2,400	400	220	44	120	--		
	08/21/91	10.8	322.61	2,300	390	210	42	120	--		Duplicate
	10/07/91	10.79	322.62	--	--	--	--	--	--		
	01/28/92	10.79	322.62	3,600	320	360	110	310	--		
	01/28/92	10.79	322.62	3,000	290	320	99	270	--		Duplicate
	06/05/92	10.84	322.57	1,700	290	89	61	130	--		
	09/30/92	11.06	322.35	2,100	160	260	80	350	--		
	12/30/92	10.15	323.26	3,200	240	180	110	310	--		
	03/29/93	9.42	323.99	23,000	700	3,000	610	3,000	--		
	06/25/93	10.42	322.99	2.7	130	590	130	590	--		
	09/16/93	10.66	322.75	3.9	410	830	220	890	--		
	12/20/93	10.6	322.81	27	1,200	2,600	1,100	4,200	--		
	03/29/94	10.41	323	6.3	250	700	200	830	--		
	06/22/94	10.4	323.01	4.1	71	240	110	460	<30		
	09/20/94	10.37	323.04	8,500	1,200	1,300	370	1,400	--		
	10/04/94	10.34	323.07	7,600	97	360	150	620	--		
	11/30/94	9.46	323.95	8,800	180	490	240	900	--		
	03/02/95	9.96	321.07	6.9	82	570	210	970	--		
	06/15/95	9.8	321.23	4.8	44	210	160	620	<25		
	09/26/95	10.48	320.55	13,000	150	620	370	1,400	<125		
	12/28/95	10.14	320.89	11,000	74	250	200	750	79		
	02/29/96	8.74	322.29	17,000	59	480	350	1,600	<l25		
	06/27/96	10.21	320.82	3,600	22	130	130	49	46		
	09/12/96	10.49	320.72	2,000	20	<10	18	44	<50		
	03/31/97	10.19	321.02	17,000	87	230	330	1,200	310		
	12/23/98	9.83	321.38	290	20	0.88	1.1	16	<2.5		
	03/25/99	9.13	322.08	500	21	<0.5	21	<0.5	18		
	02/03/00	9.05	322.16	2,310	35.7	90	21.8	147	1,280 (365)		
	01/23/01	--	--	--	--	--	--	--	--		Inaccessible
	05/01/01	9.82	321.39	7,710	19.9	12.6	22.3	64	31.8		
	08/28/01	10.04	321.17	4,800	69	<25	50	140	160		
	11/27/01	10.05	321.16	5,300	25	<5.0	30	120	<20		

Table 1. 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	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
				←			µg/L		→		
EA-1 (Cont'd)	02/28/02	--	--	--	--	--	--	--	--		Inaccessible
	05/22/02	9.05	322.16	110	<1.0	<0.50	1	<1.5	<2.5		
	08/20/02	9.21	322	410	2.6	<0.50	8.5	29	<5.0		
	11/11/02	9.01	322.2	3,800	<0.50	1.3	17	47	<5.0		
	05/08/03	8.23	322.98	1,700	11	0.97	63	161	<2.0		
	12/15/04	--	--	--	--	--	--	--	--		Inaccessible
	02/21/05	--	--	--	--	--	--	--	--		Inaccessible
	05/17/05	--	--	--	--	--	--	--	--		Inaccessible
	08/17/05	--	--	--	--	--	--	--	--		Inaccessible
	11/27/05	--	--	--	--	--	--	--	--		Inaccessible
	02/21/06	--	--	--	--	--	--	--	--		Inaccessible
	03/31/06	--	--	--	--	--	--	--	--		Well Abandoned
EA-2	10/17/88	--	--	<50	<0.5	<0.5	<0.5	1.2	--		
330.41	10/24/88	9.7	322.89	--	--	--	--	--	--		
	11/02/88	10.03	322.56	--	--	--	--	--	--		
	12/20/88	9.98	322.61	<50	<0.5	<0.5	<0.5	<0.5	--		
	03/28/89	8.8	323.79	<250	<2	<0.5	<0.5	<0.5	--		
	08/02/89	9.44	323.15	<50	<0.1	<0.1	<0.1	<0.1	--		
	11/06/89	9.53	323.06	<500	<3.0	<5.0	<5.0	<5.0	--		
	01/25/90	9.27	323.32	<50	<0.5	<0.5	<0.5	<0.5	--		
	04/23/90	9.35	323.24	<50	0.6	0.8	<0.5	2	--		
	08/01/90	9.71	322.88	<50	<0.5	<0.5	<0.5	<0.5	--		
	10/24/90	10.08	322.51	<50	<0.5	<0.5	<0.5	<0.5	--		
	01/31/91	10.21	322.38	<50	<0.5	<0.5	<0.5	<0.5	--		
	01/31/91	10.21	322.38	<50	<0.5	<0.5	<0.5	<0.5	--		Duplicate
	08/21/91	9.8	322.79	<50	<0.5	<0.5	<0.5	<0.5	--		
	10/07/91	9.98	322.61	--	--	--	--	--	--		
	01/28/92	9.81	322.78	<50	0.8	<0.5	<0.5	<0.5	--		
	06/05/92	9.86	322.73	<50	<0.5	<0.5	<0.5	<0.5	--		
	09/30/92	10.6	321.99	66	1	3.2	1.3	7.4	--		
	12/30/92	9.11	323.48	<50	<0.5	<0.5	<0.5	<0.5	--		
	03/29/93	7.73	324.86	<50	<0.5	<0.5	<0.5	<1.5	--		
	06/25/93	9.22	323.37	<50	<0.5	<0.5	<0.5	<1.5	--		
	09/16/93	10	322.59	<50	<0.5	<0.5	<0.5	<1.5	--		
	12/20/93	9.38	323.21	<50	<0.5	<0.5	<0.5	<0.5	--		
	03/29/94	9.3	323.29	<50	<0.5	0.6	<0.5	<0.5	--		
	06/22/94	9.49	323.1	<50	<0.5	<0.5	<0.5	<0.5	--		
	09/26/94	9.72	322.87	<50	<0.5	<0.5	<0.5	<0.5	--		
	10/04/94	9.58	323.01	<50	<0.5	<0.5	<0.5	<0.5	--		
	11/30/94	8.7	323.89	<50	<0.5	<0.5	<0.5	<0.5	--		
	03/02/95	8.54	321.67	<50	<0.5	<0.5	<0.5	<0.5	--		
	06/07/95	8.42	321.79	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	09/26/95	9.34	320.87	540	6.8	<0.5	47	29	13		
	12/28/95	8.84	321.37	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	02/29/96	7.44	322.77	<50	<0.5	<0.5	<0.5	1.5	<2.5		
	06/27/96	8.83	321.38	<50	<0.5	<0.5	<0.5	<0.5	<2.5		

Table 1. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA

Well ID	Date	Depth	Groundwater						Dissolved	
TOC Elev	Sampled	to Water	Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Oxygen	Notes
(ft)		(ft)	(ft, msl)	←			µg/L		→	mg/L	
EA-2 (Cont'd)	09/12/96	9.4	321.01	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	03/31/97	9.11	321.3	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	12/23/98	8.91	321.5	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	03/25/99	8.1	322.31	<50	<0.5	<0.5	<0.5	<0.5	2.7		
	02/03/00	8.36	322.05	<50	<0.5	<0.5	<0.5	<0.5	<2.5 (<2.0)		
	01/23/01	9.08	321.33	441 (1)	1.27	0.542	40.3	31	72.9		
	05/01/01	8.87	321.54			SAMPLED ANNUALLY					
	08/28/01	9.45	320.96			SAMPLED ANNUALLY					
	11/27/01	9.5	320.91			SAMPLED ANNUALLY					
	02/28/02	9.05	321.36	<50	<0.50	<0.50	<0.5	<1.5	74		
	05/22/02	9.04	321.37			SAMPLED ANNUALLY					
	08/20/02	9	321.41			SAMPLED ANNUALLY					
	11/11/02	9.03	321.38			SAMPLED ANNUALLY					
	05/08/03	7.26	323.15	<50	<0.5	<0.5	<0.5	<0.5	2.2/0.9		
	12/15/04	8.96	321.45	<50	<0.5	<0.5	<0.5	<0.5	<5.0		
	02/21/05	7.20	323.21	<50	<0.5	<0.5	<0.5	<0.5	13 (11)	0.64	
	05/17/05	8.21	322.20			SAMPLED ANNUALLY				0.77	
	08/17/05	7.97	322.44			SAMPLED ANNUALLY				0.85	
	11/27/05	9.83	320.58			SAMPLED ANNUALLY				0.84	
	02/21/06	8.78	321.63	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.51/0.68	
	03/28/06	--	--	--	--	--	--	--	--	--	Well Abandoned
EA-3	10/17/88	--	--	<50	1.8	<0.5	<0.5	3	--		
331.5	10/24/88	11.03	322.61	--	--	--	--	--	--		
	11/02/88	11.03	322.61	--	--	--	--	--	--		
	12/20/88	10.96	322.68	240	90	1.2	13	3.3	--		
	03/28/89	9.77	323.87	2,300	380	130	240	910	--		
	08/02/89	10.65	322.99	<50	<0.1	<0.1	<0.1	<0.1	--		
	11/06/89	10.78	322.86	<500	<3.0	<5.0	<5.0	<5.0	--		
	01/25/90	10.66	322.98	<50	<0.5	<0.5	<0.5	<0.5	--		
	04/23/90	10.68	322.96	<50	0.8	<0.5	0.9	<0.5	--		
	08/01/90	11.03	322.61	<50	<0.5	<0.5	<0.5	<0.5	--		
	10/24/90	11.35	322.29	<50	<0.5	<0.5	<0.5	<0.5	--		
	01/31/91	11.52	322.12	<50	<0.5	<0.5	<0.5	<0.5	--		
	08/21/91	--	--	--	--	--	--	--	--		
	10/07/91	11.15	322.49	180	40	20	4.7	8.4	--		
	10/7/1991	--	--	200	43	17	4.1	6.7	--		Duplicate
	01/28/92	11.08	322.56	640	69	85	13	46	--		
	06/05/92	10.98	322.66	250	63	8.3	3	9.5	--		
	09/30/92	11.38	322.26	330	120	33	6.3	22	--		
	12/30/92	10.48	323.16	58	7.6	1.3	2.5	5.4	--		
	03/29/93	9.3	324.34	120	11	4.5	6.2	13	--		
	06/25/93	10.46	323.18	<50	<0.5	<0.5	<0.5	<1.5	--		
	09/16/93	10.9	322.74	85	3.9	8.8	4.5	22	--		
	12/20/93	10.66	322.98	190	12	12	13	50	--		
	03/29/94	10.5	323.14	<50	<0.5	1.2	<0.5	0.9	--		
	06/22/94	10.64	323	<50	<0.5	<0.5	<0.5	<0.5	<3.0		

Table 1. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA

Well ID	Date	Depth	Groundwater						Dissolved	
TOC Elev	Sampled	to Water	Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Oxygen	Notes
(ft)		(ft)	(ft, msl)	← µg/L →						mg/L	
EA-3 (Cont'd)	09/26/94	10.72	322.92	<50	<0.5	<0.5	<0.5	<0.5	--		
	10/04/94	10.68	322.96	<50	<0.5	<0.5	<0.5	0.7	--		
	11/30/94	9.66	323.98	170	6.1	3	6.5	28	--		
	03/02/95	9.92	321.38	<50	<0.5	<0.5	<0.5	<0.5	--		
	06/07/95	9.72	321.58	<50	<0.5	<0.5	<0.5	<0.5	3.2		
	09/26/95	10.6	320.7	2,000	140	<5.0	<5.0	190	280		
	12/28/95	9.82	321.48	<50	<0.5	<0.5	<0.5	<0.5	26		
	02/29/96	8.28	323.02	<50	2.1	<0.5	2.5	6	31		
	06/27/96	9.91	321.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
	09/12/96	10.59	320.91	13,000	<20	<20	<20	<20	48		
	03/31/97	--	--	--	--	--	--	--	--		Inaccessible
	04/15/97	10.25	321.25	<125	2	<1.2	<1.2	<1.2	680		
	12/23/98	--	--	--	--	--	--	--	--		Inaccessible
	03/25/99	--	--	--	--	--	--	--	--		Inaccessible
	02/03/00	--	--	--	--	--	--	--	--		Inaccessible
	01/23/01	10.31	321.19	862 (1)	3.97	1.15	18.9	48.6	289		
	05/01/01	10.15	321.35	SAMPLED SEMI-ANNUALLY							
	08/28/01	10.56	320.94	<50	<0.5	<0.5	<0.5	<0.5	37		
	11/27/01	10.65	320.85	SAMPLED SEMI-ANNUALLY							
	02/28/02	10.37	321.13	<50	1.3	<0.50	2	1.8	90		
	05/22/02	10.27	321.23	SAMPLED SEMI-ANNUALLY							
	08/20/02	10.3	321.2	<50	<0.50	<0.50	<0.50	<1.5	40		
	11/11/02	9.05	322.45	SAMPLED SEMI-ANNUALLY							
	05/08/03	8.83	322.67	<50	<0.5	<0.5	<0.5	<0.5	39/37		
	12/15/04	10.39	321.11	<50	<0.5	<0.5	<0.5	<0.5	18 (17)		
	02/21/05	8.80	322.70	<50	<0.5	<0.5	2.3	1.4	180 (290)	0.69	
	05/17/05	9.57	321.93	140	0.68	<0.5	6.6	0.94	250 (340)	0.86	
	08/17/05	9.23	322.27	3,800	11	3.7	110	24	200 (200)	0.99	
	11/27/05	11.05	320.45	150	<0.5	1.8	2.4	0.56	88 (85)	0.81	
	02/21/06	10.10	321.40	83	<0.5	0.72	1.7	<0.5	40 (49)	0.38/0.65	
	04/03/06	--	--	--	--	--	--	--	--	--	Well Abandoned
MW-1	10/04/94	12.8	320.76	2,100	150	170	61	320	--		
333.66	11/30/94	12.38	321.18	1,500	210	17	73	130	--		
	03/02/95	12.88	320.68	2,600	510	<10	160	<10	--		
	06/07/95	12.58	320.98	710	160	<2.0	45	<2.0	<10		
	09/26/95	13.15	320.41	1,100	140	1.4	92	1.8	<5.0		
	12/28/95	13.09	320.47	750	96	2.5	61	7.4	37		
	02/29/96	12.17	321.39	250	17	<0.5	18	0.81	9		
	06/27/96	12.95	320.61	710	72	<2.0	92	2.2	<10		
	09/12/96	13.11	320.55	300	53	<0.5	32	0.65	21		
	03/31/97	12.99	320.67	<200	4.1	<2.0	4.8	<2.0	640		
	12/23/98	13.87	319.79	<50	<50	<0.5	<0.5	<0.5	3200		
	03/25/99	12.01	321.65	<50	<0.5	<0.5	<0.5	<0.5	5,200 (5,200)		
	02/03/00	11.91	321.75	<500	<5.0	<5.0	<5.0	<5.0	3,180 (3,350)		
	01/23/01	12.57	321.09	<50.0	<0.5	<0.5	<0.5	<0.5	4,420		
	05/01/01	12.6	321.06	SAMPLED SEMI-ANNUALLY							

Table 1. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA

Well ID	Date	Depth	Groundwater							Dissolved	
TOC Elev	Sampled	to Water	Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Oxygen	Notes
(ft)		(ft)	(ft, msl)	←			µg/L		→	mg/L	
MW-1 (Cont'd)	08/28/01	12.74	320.92	<50	<0.5	<0.5	<0.5	<0.5	4,800		
	11/27/01	12.7	320.96				SAMPLED SEMI-ANNUALLY				
	02/28/02	12.7	320.96	<50	<0.5	<0.5	<0.5	<1.5	1,400		
	05/22/02	12.38	321.28				SAMPLED SEMI-ANNUALLY				
	08/20/02	12.57	321.09	<50	<0.5	<0.5	<0.5	<1.5	1,400		
	11/11/02	11.31	322.35				SAMPLED SEMI-ANNUALLY				
	05/08/03	11.85	321.81	<50	<0.5	<0.5	<0.5	<0.5	1,300 (1,200)		
	12/15/04	12.80	320.86	<50	<0.5	<0.5	<0.5	<0.5	1,700 (1,900)		
	02/21/05	11.81	321.85	<100	<1.0	<1.0	<1.0	<1.0	3,000 (3,800)	0.82	
	05/17/05	12.51	321.15	<120	<1.2	<1.2	<1.2	<1.2	3,400 (4,400)	0.75	
	08/17/05	12.35	321.31	<170	<1.7	<1.7	<1.7	<1.7	4,500 (4,900)	0.77	
	11/27/05	13.18	320.48	<170	<1.7	<1.7	<1.7	<1.7	5,400 (4,400)	0.90	
	02/21/06	12.61	321.05	<170	<1.7	<1.7	<1.7	<1.7	5,000 (5,400)	0.29/0.71	
333.69	06/01/06	12.47	321.22	<250	<2.5	<2.5	<2.5	<2.5	6,400 (6,300)	0.46	TAME, TBA, DIPE, ETBE=ND
	07/07/06	12.60	321.09	--	--	--	--	--	--	--	
	08/17/06	11.93	321.76	<250	<2.5	<2.5	<2.5	<2.5	7,700 (9,100)	0.43	
	11/24/06	13.01	320.68	<250	<2.5	<2.5	<2.5	<2.5	8,400	0.29	
	02/21/07	**12.91**	**320.78**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**3,600**	**0.24**	
MW-2	10/04/94	8.56	320.62	2300	160	280	96	480	--		
329.29	11/30/94	8.33	320.85	1,600	170	16	110	120	--		
	03/02/95	8.35	320.83	1,200	220	5.6	140	36	--		
	06/07/95	8.62	320.56	160	25	<0.5	16	<0.5	240		
	09/26/95	8.71	320.47	150	15	<0.5	7.2	<0.5	120		
	12/28/95	8.78	320.4	400	34	1.3	26	5.1	170		
	02/29/96	7.82	321.36	120	29	<0.5	<0.5	<0.5	790		
	06/27/96	8.72	320.46	150	13	<0.5	7	<0,5	850		
	09/12/96	8.81	320.48	<1,000	18	<10	<10	<10	3,100		
	03/31/97	8.65	320.64	<500	<5.0	<5.0	<5.0	<5.0	1,400		
	12/23/98	8.32	320.97	<50	<0.5	<0.5	<0.5	<1.5	900		
	03/25/99	7.89	321.4	<50	2.6	<0.5	<0.5	<0.5	1,100 (670)		
	02/03/00	7.53	321.76	<125	<1.25	<1.25	<1.25	<1.25	1,020 (1,100)		
	01/23/01	8.18	321.11	<50.0	<0.5	<0.5	<0.5	<0.5	642		
	05/01/01	8.43	320.86	70.8	<0.5	<0.5	<0.5	<0.5	342		
	08/28/01	8.39	320.9	<50	<0.5	<0.5	<0.5	<0.5	530		
	11/27/01	8.46	320.83	210	<0.5	<0.5	<0.5	<1.5	260		
	02/28/02	8.48	320.81	<50	<0.5	<0.5	<0.5	<1.5	180		
	05/22/02	8.14	321.15	<50	<0.5	<0.5	<0.5	<1.5	180		
	08/20/02	8.24	321.05	<50	<0.5	<0.5	<0.5	<1.5	160		
	11/11/02	8.06	321.23	<50	<0.5	<0.5	<0.5	<1.5	130		
	05/08/03	7.86	321.43	<50	<0.5	<0.5	<0.5	<0.5	180 (160)		
	12/15/04	8.60	320.69	<50	<0.5	<0.5	<0.5	<0.5	1,400 (1,600)		
	02/21/05	7.55	321.74	<50	<0.5	<0.5	<0.5	<0.5	800 (1,100)	1.35	
	05/17/05	8.52	320.77	<50	<0.5	<0.5	<0.5	<0.5	160 (210)	1.06	
	08/17/05	8.16	321.13	<50	<0.5	<0.5	<0.5	<0.5	190 (210)	0.90	
	11/27/05	9.00	320.29	<50	<0.5	<0.5	<0.5	<0.5	200 (210)	0.92	
	02/21/06	8.51	320.78	<50	<0.5	<0.5	<0.5	<0.5	240 (270)	0.33/0.46	
329.48	06/01/06	8.50	320.98	<50	<0.5	<0.5	<0.5	<0.5	120 (110)	0.38	TAME, TBA, DIPE, ETBE=ND

Table 1. 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	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
				←			µg/L		→		
MW-2 (Cont'd)	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**	
MW-3	10/04/94	12.06	320.67	6,300	610	750	68	670	--		
332.86	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	<l00	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 Abandoned
MW-3A	05/29/06	10.13	321.28	--	--	--	--	--	--	--	0.03 SPH
331.39	07/07/06	10.15	321.24	4,200	340	27	75	79	32,000	--	
	08/17/06	9.56	321.83	6,200	410	68	100	650	28,000(34,000)	0.19	
	11/24/06	10.73	320.66	2,100	190	11	72	220	7,900	0.10	
	02/21/07	**10.52**	**320.87**	**7,100**	**890**	**28**	**440**	**470**	**8,400**	**0.17**	
MW-4	03/01/96	9.9	322.74	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
332.63	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)		

Table 1. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA

Well ID	Date	Depth	Groundwater							Dissolved	
TOC Elev	Sampled	to Water	Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Oxygen	Notes
(ft)		(ft)	(ft, msl)	←			µg/L		→	mg/L	
MW-4 (Cont'd)	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	
332.64	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**	
MW-5	03/01/96	10.62	322.58	<50	<0.5	<0.5	<0.5	<0.5	<2.5		
333.47	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	322.72	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.48/0.76	
333.13	05/29/06	10.41	322.72				SAMPLED ANNUALLY			--	
	07/07/06	10.46	322.67	--	--	--	--	--	--	--	
	08/17/06	10.49	322.64	--	--	--	--	--	--	--	
	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**	

Table 1. 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	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
				←			µg/L		→		
MW-6A	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
331.81	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**	
MW-6B	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
330.9	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**	
MW-6C	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
330.88	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-7AA	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
330.67	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**	
MW-7A	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
330.71	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**	
MW-7B	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
330.69	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**	
MW-7C	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
330.74	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-8A	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
331.19	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**	

Table 1. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA

Well ID	Date	Depth	Groundwater							Dissolved	
TOC Elev	Sampled	to Water	Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Oxygen	Notes
(ft)		(ft)	(ft, msl)	←			µg/L		→	mg/L	
MW-9A	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
331.17	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**	
MW-9C	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
331.48	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-10A	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
329.93	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**	
MW-10C	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
329.66	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	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
331.61	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**	
VW-1	02/21/06	7.95	322.48	860	120	1.4	32	4.4	390 (440)	1.97	
330.43	06/01/06	7.89	322.54	1,100	92	2.2	11	1.4	600 (550)	0.11	TAME=12µg/L, TBA,DIPE,ETBE=ND
	07/07/06	7.71	322.72	--	--	--	--	--	--	--	
	08/17/06	7.65	322.78	--	--	--	--	--	--	0.07	
	11/24/06	7.75	322.68	Insufficient Water to Sample						0.48	
	02/21/07	**7.81**	**322.62**	**620**	**52**	**4.3**	**<0.5**	**2.7**	**340**	**0.22**	
VW-2	02/21/06	6.01	324.16	1,600	150	2.7	55	20	1,700 (1,600)	1.97	
330.17	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**	
VW-3	02/21/06	6.10	324.39	8,900	390	29	490	650	<50	2.28	
330.49	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**	

Table 1. Groundwater Elevation and Analytical Data - Dublin Auto Wash, 7240 Dublin Boulevard, Dublin, CA

Well ID	Date	Depth	Groundwater							Dissolved	
TOC Elev	Sampled	to Water	Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Oxygen	Notes
(ft)		(ft)	(ft, msl)	←			µg/L		→	mg/L	
C-1	08/17/06	11.60	321.29	--	--	--	--	--	--	--	Flood control channel location.
332.89	11/24/06	12.10	320.79	--	--	--	--	--	--	--	
	02/21/07	**12.10**	**320.79**	--	--	--	--	--	--	--	

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 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 = Diispopropyl 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.

Table 2 –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)
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

APPENDIX A

Groundwater Monitoring Field Data Sheets

Pangea
ENVIRONMENTAL SERVICES, INC.

Well Gauging Data Sheet

Project.Task #: 1001.001.212 | Project Name: Dublin Car Wash

Address: 7420 Dublin Boulevard, Dublin, CA | Date: 2-21-07

Name: Sanjiv Gill | Signature:

Well ID	Well Size (in.)	Time	Depth to Water (ft)	Time	Depth to Water (ft)	Time	Depth to Water (ft)	Total Depth (ft)	Measuring Point
MW-1	2"	10:25	12.91	11:30	12.91			25.32	TOC
MW-2	2"	10:27	8.80	11:33	8.80			20.00	
MW-3A	4"	11:13	10.50	12:25	10.52			16.78	
MW-4	2"	10:15	10.73	11:25	10.71			19.78	
MW-5	2"	10:18	10.90	11:27	10.90			20.56	
MW-6A	2"	10:57	10.71	12:02	10.72			19.13	
MW-6B	2"	10:55	8.80	11:59	8.80			29.73	
MW-7A	4"	11:06	9.58	12:11	9.59			19.53	
MW-7B	2"	11:04	9.414	12:09	9.414			28.42	
MW-7C	2"	11:02	9.01	12:07	9.01			44.45	
MW-8A	2"	10:36	9.81	11:44	9.81			19.01	

Comments:

Pangea
ENVIRONMENTAL SERVICES, INC.

Well Gauging Data Sheet

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash	
Address: 7420 Dublin Boulevard, Dublin, CA		Date: 2-21-07
Name: Sanjiv Gill	Signature:	

Well ID	Well Size (in.)	Time	Depth to Water (ft)	Time	Depth to Water (ft)	Time	Depth to Water (ft)	Total Depth (ft)	Measuring Point
MW-9A	2"	10:32	10.51	11:40	10.53			14.66	TOC
MW-9C	2"	10:30	8.95	11:38	8.94			44.16	
MW-10A	2"	10:43	8.97	11:50	8.96			19.51	
MW-10C	2"	10:40	7.70	11:47	7.69			114.60	
MW-11C	2"	10:47	10.30	11:53	10.30			42.95	
VW-1	2"	11:17	7.82	12:12	7.81			8.40	
VW-2	2"	11:20	6.19	12:20	6.22			8.30	
VW-3	2"	11:23	6.86	12:23	6.87			8.40	
MW-6C	2"	10:52	8.60	11:57	8.62			44.15	
MW-7AA	4"	11:08	9.58	12:14	9.60			13.84	X
C-1		10:20	12.10	—	—				

Comments:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-1

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather: Cloudy
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD): 25.32	Depth to Product:
Depth to Water (DTW): 12.91	Product Thickness:
Water Column Height: 12.41	1 Casing Volume: 1.98 gallons
Reference Point: TOC	3 Casing Volumes: 5.95 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
3:30	19.0	6.94	2428				2	
3:34	19.5	6.97	2445				4	
3:38	19.5	7.05	2404				6	

Comments: Oakton DO meter

pre purge DO = 0.24 mg/l

post purge DO = mg/l

very turbid, silty

Sample ID: MW-1	Sample Time: 3:40
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/21/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-2

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather: Cloudy
Well Diameter: 2"	Volume/ft. 1" = 0.04, 3" = 0.37, 6" = 1.47, 2" = 0.16, 4" = 0.65, radius^2 * 0.163
Total Depth (TD): 20.00	Depth to Product:
Depth to Water (DTW): 8.80	Product Thickness:
Water Column Height: 11.20	1 Casing Volume: 1.79 gallons
Reference Point: TOC	3 Casing Volumes: 5.37 gallons

Purging Device: (Disposable Bailer), 3" PVC Bailer, Whal Pump

Sampling Device: Disposable Bailer

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
3:10	17.4	7.11	1599				1.5	
3:13	16.7	7.13	1632				3	
3:15	169	7.22	1553				5	

Comments: Oakton DO meter

pre purge DO = 0.21 mg/l

post purge DO = mg/l

Sample ID: MW-2	Sample Time: 3:18
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/21/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-3A

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather: Cloudy
Well Diameter: 4"	Volume/ft. 1" = 0.04, 2" = 0.16, 3" = 0.37, 4" = 0.65, 6" = 1.47, radius² * 0.163
Total Depth (TD): 16.78	Depth to Product:
Depth to Water (DTW): 10.52	Product Thickness:
Water Column Height: 6.20	1 Casing Volume: 1.03 gallons
Reference Point: TOC	3 Casing Volumes: 12.03 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
7:50	16.8	7.51	1347				4	
7:55	16.9	7.56	1371				8	
8:00	16.9	7.61	1394				12	

Comments: Oakton DO meter — pre purge DO = 0.17 mg/l

post purge DO = mg/l

turbid

Sample ID: MW-3A	Sample Time: 8:05
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/23/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-4

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather: Cloudy
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD): 19.78	Depth to Product:
Depth to Water (DTW): 10.71	Product Thickness:
Water Column Height: 9.07	1 Casing Volume: 1.45 gallons
Reference Point: TOC	3 Casing Volumes: 4.35 gallons

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

Sampling Device: Disposable Bailer

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
2:27	70.1	6.78	2019				1.5	
2:29	70.4	6.81	2036				3	
2:31	70.1	6.89	2008				4	

Comments: Oakton DO meter
turbid

pre purge DO = 0.40 mg/l
post purge DO = mg/l

Sample ID: MW-4	Sample Time: 2:35
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/21/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-5

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather: Cloudy
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius² * 0.163
Total Depth (TD): 20.56	Depth to Product:
Depth to Water (DTW): 10.90	Product Thickness:
Water Column Height: 9.66	1 Casing Volume: 1.54 gallons
Reference Point: TOC	3 Casing Volumes: 4.63 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
2:50	18.4	7.49	1202				1.5	
2:52	18.1	7.40	1305				3	
2:55	18.6	7.40	1311				4.5	

Comments: Oakton DO meter

pre purge DO = 0.73 mg/l

post purge DO = mg/l

Very turbid

Sample ID: MW-5	Sample Time: 2:57
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/21/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-6A

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather: Cloudy (Rain)
Well Diameter: 2"	Volume/ft. 1" = 0.04, 2" = 0.16, 3" = 0.37, 4" = 0.65, 6" = 1.47, radius² * 0.163
Total Depth (TD): 19.13	Depth to Product:
Depth to Water (DTW): 10.72	Product Thickness:
Water Column Height: 8.41	1 Casing Volume: 1.34 gallons
Reference Point: TOC	3 Casing Volumes: 4.03 gallons

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

Sampling Device: Disposable Bailer

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
12:30	16.1	7.42	1641				1.5	
12:35	16.8	7.37	1709				3	
12:40	16.8	7.39	1720				4	

Comments: Oakton DO meter

pre purge DO = 0.50 mg/l

post purge DO = mg/l

very turbid, silty

Sample ID: MW-6A	Sample Time: 12:45
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/22/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-6B

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather: Cloudy (Rain)
Well Diameter: 2"	Volume/ft. 1" = 0.04, 2" = 0.16, 3" = 0.37, 4" = 0.65, 6" = 1.47, radius^2 * 0.163
Total Depth (TD): 29.73	Depth to Product:
Depth to Water (DTW): 8.80	Product Thickness:
Water Column Height:	1 Casing Volume: 20.63 gallons
Reference Point: TOC	3 Casing Volumes: 3.30 gallons
Purging Device: ~~Disposable Bailer~~, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
11:55	16.9	7.61	2024				3.5	
12:00	16.8	7.56	1944				7	
12:05	16.3	7.51	2005				10	

Comments: Oakton DO meter

pre purge DO = 0.37 mg/l

post purge DO = mg/l

Very turbid

Sample ID: MW-6B	Sample Time: 12:10
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/22/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-6C

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather: Rain
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD): 44.15	Depth to Product:
Depth to Water (DTW): 8.62	Product Thickness:
Water Column Height: 35.53	1 Casing Volume: 5.68 gallons
Reference Point: TOC	3 Casing Volumes: 17.05 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
10:40	17.0	7.50	2133				5.5	
11:05	17.2	7.59	2097				11	
11:35	17.2	7.51	2099				17	

Comments: Oakton DO meter — pre purge DO = 0.21 mg/l

post purge DO = mg/l

turbid

Sample ID: MW-6C	Sample Time: 11:40
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/22/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-7AA

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather: Cloudy
Well Diameter: 4"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius² * 0.163
Total Depth (TD): 13.84	Depth to Product:
Depth to Water (DTW): 9.60	Product Thickness:
Water Column Height: 4.24	1 Casing Volume: 2.75 gallons
Reference Point: TOC	3 Casing Volumes: 8.26 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
7:20	16.7	7.15	1578				3	
7:25	16.4	7.19	1510				6	
7:30	16.7	7.24	1539				8	

Comments: Oakton DO meter

pre purge DO = 0.58 mg/l

post purge DO = mg/l

very turbid

Sample ID: MW-7AA	Sample Time: 7:35
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/23/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-7A

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather: Cloudy
Well Diameter: 4"	Volume/ft. 1" = 0.04, 2" = 0.16, 3" = 0.37, 4" = 0.65, 6" = 1.47, radius² * 0.163
Total Depth (TD): 19.53	Depth to Product:
Depth to Water (DTW): 9.59	Product Thickness:
Water Column Height: 9.94	1 Casing Volume: 6.46 gallons
Reference Point: TOC	3 Casing Volumes: 19.38 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
6:30	16.9	7.30	1522				6.5	
6:50	16.3	7.27	1519				13	
7:00	16.3	7.23	1523				19	

Comments: Oakton DO meter

pre purge DO = 0.35 mg/l

post purge DO = mg/l

very turbid, silty

Sample ID: MW-7A	Sample Time: 7:05
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/23/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-7B

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather: Cloudy
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD): 28.42	Depth to Product:
Depth to Water (DTW): 9.44	Product Thickness:
Water Column Height: 18.98	1 Casing Volume: 3.03 gallons
Reference Point: TOC	3 Casing Volumes: 9.09 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
5:50	16.2	8.47	788				3	
6:00	15.7	8.33	802				6	
6:10	16.1	8.29	826				9	

Comments: Oakton DO meter

pre purge DO = 0.29 mg/l

post purge DO = mg/l

very turbid

Sample ID: MW-7B	Sample Time: 6:15
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/23/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-7C

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather: Cloudy
Well Diameter: 2"	Volume/ft. 1" = 0.04, 2" = 0.16, 3" = 0.37, 4" = 0.65, 6" = 1.47, radius² * 0.163
Total Depth (TD): 44.45	Depth to Product:
Depth to Water (DTW): 9.01	Product Thickness:
Water Column Height: 35.44	1 Casing Volume: 5.67 gallons
Reference Point: TOC	3 Casing Volumes: 17.01 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ℃	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
4:30	17.1	7.48	896				5.5	
5:00	16.5	7.49	894				11	
5:30	16.5	7.43	895				17	

Comments: Oakton DO meter

pre purge DO = 0.31 mg/l

post purge DO = mg/l

Sample ID: MW-7C	Sample Time: 5:35
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/23/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-8A

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather: Cloudy
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius² * 0.163
Total Depth (TD): 19.01	Depth to Product:
Depth to Water (DTW): 9.81	Product Thickness:
Water Column Height: 9.20	1 Casing Volume: 1.47 gallons
Reference Point: TOC	3 Casing Volumes: 4.47 gallons
Purging Device: (Disposable Bailer), 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
4:55	15.1	7.49	1610				1.5	
4:57	15.5	7.52	1685				3	
5:10	15.6	7.55	1682				4.5	

Comments: Oakton DO meter — pre purge DO = 0.29 mg/l

post purge DO = mg/l

very turbid, silty

Sample ID: MW-8A	Sample Time: 5:15
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/21/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-9A

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather: Cloudy
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD): 19.66	Depth to Product:
Depth to Water (DTW): 10.53	Product Thickness:
Water Column Height: 9.13	1 Casing Volume: 1.46 gallons
Reference Point: TOC	3 Casing Volumes: 4.38 gallons
Purging Device: ~~Disposable Bailer~~, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
4:30	14.9	8.43	1423				1.5	
4:35	14.7	8.29	1443				3	
4:40	14.9	8.37	1418				4.5	

Comments: Oakton DO meter — pre purge DO = 0.33 mg/l

post purge DO = mg/l

very turbid, silty

Sample ID: MW-9A	Sample Time: 4:45
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/21/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-9C

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather: Cloudy
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius² * 0.163
Total Depth (TD): 44.16	Depth to Product:
Depth to Water (DTW): 8.94	Product Thickness:
Water Column Height: 35.22	1 Casing Volume: 5.63 gallons
Reference Point: TOC	3 Casing Volumes: 16.90 gallons
Purging Device: ~~Disposable Bailer~~, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
3:55	18.4	7.38	over limit of meter				5.5	
4:00	18.1	7.50	over limit of meter				11	
4:05	17.9	7.47	over limit of meter				17	

Comments: Oakton DO meter

pre purge DO = 0.46 mg/l

post purge DO = mg/l

very turbid, silty

Sample ID: MW-9C	Sample Time: 4:07
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/21/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-10A

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather: Cloudy
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius² * 0.163
Total Depth (TD): 19.51	Depth to Product:
Depth to Water (DTW): 8.96	Product Thickness:
Water Column Height: 10.55	1 Casing Volume: 1.68 gallons
Reference Point: TOC	3 Casing Volumes: 5.06 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

2-22-07

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
8:15	16.7	7.24	2129				1.5	
8:20	16.8	7.30	2176				3	
8:22	Dewatered after 3.5gallons						5	

Comments: Oakton DO meter

pre purge DO = 0.25 mg/l

post purge DO = mg/l

Sample ID: MW-10A	Sample Time: 8:20
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/23/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-10C

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather: Cloudy (Rain)
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius² * 0.163
Total Depth (TD): 44.60	Depth to Product:
Depth to Water (DTW): 7.69	Product Thickness:
Water Column Height: 36.91	1 Casing Volume: 5.90 gallons
Reference Point: TOC	3 Casing Volumes: 17.71 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
7:10	16.4	7.91	1334				6	
7:30	16.6	7.85	1331				12	
7:55	16.5	7.82	1317				18	

Comments: Oakton DO meter — pre purge DO = 0.39 mg/l

post purge DO = mg/l

very turbid, silty

Sample ID: MW-10C	Sample Time: 8:00
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/22/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: MW-11C

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather: Cloudy
Well Diameter: 2"	Volume/ft. 1" = 0.04, 2" = 0.16, 3" = 0.37, 4" = 0.65, 6" = 1.47, radius² * 0.163
Total Depth (TD): 42.95	Depth to Product:
Depth to Water (DTW): 10.30	Product Thickness:
Water Column Height: 32.65	1 Casing Volume: 5.22 gallons
Reference Point: TOC	3 Casing Volumes: 15.67 gallons

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

Sampling Device: Disposable Bailer

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
9:10	16.1	7.73	1066				5	
9:30	16.9	7.75	1052				10	
9:50	15.9	7.71	1058				15.5	

Comments: Oakton DO meter

pre purge DO = 0.43 mg/l

post purge DO = mg/l

Very turbid

Sample ID: MW-11C	Sample Time: 9:55
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/22/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: VW-1

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather: Cloudy
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius^2 * 0.163
Total Depth (TD): 8.40	Depth to Product:
Depth to Water (DTW): 7.81	Product Thickness:
Water Column Height: 0.59	1 Casing Volume: 0.09 gallons
Reference Point: TOC	3 Casing Volumes: 0.27 gallons
Purging Device: ~~Disposable Bailer~~, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
2-21-07 1:33	Dewatered after purging				1/4 (bailer 1.4 liter)			

Comments: Oakton DO meter

pre purge DO = 0.72 mg/l

post purge DO = mg/l

Sample ID: VW-1	Sample Time: 8:30
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/23/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: VW-2

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather:
Well Diameter: 2"	Volume/ft. 1" = 0.04 | 2" = 0.16 | 3" = 0.37 | 4" = 0.65 | 6" = 1.47 | radius² * 0.163
Total Depth (TD): 8.30	Depth to Product:
Depth to Water (DTW): 6.22	Product Thickness:
Water Column Height: 2.08	1 Casing Volume: 0.33 gallons
Reference Point: TOC	3 Casing Volumes: 0.99 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
2.21.07 1:50	Dewatered after purging 1 (1 Liter bailer)							

Comments: Oakton DO meter

pre purge DO = 0.42 mg/l

post purge DO = mg/l

Sample ID: VW-2	Sample Time: 8:40
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/23/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

Pangea
ENVIRONMENTAL SERVICES, INC.

MONITORING FIELD DATA SHEET

Well ID: VW-3

Project.Task #: 1001.001 210	Project Name: Dublin Car Wash
Address: 7420 Dublin Boulevard, Dublin, CA	
Date: 2/21/07	Weather:
Well Diameter: 2"	Volume/ft. 1" = 0.04, 2" = 0.16, 3" = 0.37, 4" = 0.65, 6" = 1.47, radius² * 0.163
Total Depth (TD): 8.40	Depth to Product:
Depth to Water (DTW): 6.87	Product Thickness:
Water Column Height: 1.53	1 Casing Volume: 0.24 gallons
Reference Point: TOC	3 Casing Volumes: 0.73 gallons
Purging Device: Disposable Bailer, 3" PVC Bailer, Whal Pump	
Sampling Device: Disposable Bailer	

Time	Temp ©	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
2-21-07 2:15	Dewatered after purging 1 (1 liter bailer)							

Comments: Oakton DO meter

pre purge DO = 0.29 mg/l

post purge DO = mg/l

Sample ID: VW-3	Sample Time: 8:55
Laboratory: McCampbell Analytical, INC.	Sample Date: 2/23/07
Containers/Preservative: Voa/HCL	
Analyzed for: 8015, 8021	
Sampler Name: Sanjiv Gill	Signature:

APPENDIX B

Laboratory Analytical Report

McCampbell 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: #1001.001	Date Sampled: 02/21/07-02/23/07
		Date Received: 02/26/07
	Client Contact: Bob Clark-Riddell	Date Reported: 03/02/07
	Client P.O.: 7420 Dublin Blvd., Dublin, CA	Date Completed: 03/02/07

WorkOrder: 0702616

March 02, 2007

Dear Bob:

Enclosed are:

1). the results of **21** analyzed samples from your **#1001.001 project,**

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill 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 please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Best regards,

Angela Rydelius, Lab Manager

0702616 PEO

McCAMPBELL ANALYTICAL, INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ■ 5 DAY

EDF Required? Yes (No)

Report To: Bob Clark-Riddel Bill To: Pangea Environmental

Company: Pangea Environmental Services Inc.

1710 Franklin Street Sutie 200

Oakland, CA 94612 E-Mail: bcr@pangeaenv.com

Tele: 510-836-3702 Fax: 510-836-3709

Project #: 1001.001 Project Name: 7420 Dublin Blvd., Dublin, CA

Project Location: 7420 Dublin Blvd., Dublin, CA

Sampler Signature: Muskan Environmental Sampling

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED ICE	HCL	HNO_3	Other	MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Arochlors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	Fuel Additives (MTBE, ETBE, TAME, DIPE, TBA, 1,2 – DCA, 1,2 – EDB, ethanol) by 8260B	If Mthe is detected by 8021 confirm by 8260B	Other	Comments
MW-1		2-21-07	3:40	3	VOA	X					X	X			X														
MW-2		2-21-07	3:18																										
MW-3A		2-23-07	8:05																										
MW-4		2-21-07	2:35																										
MW-5		2-21-07	2:57																										
MW-6A		2-22-07	12:45																										
MW-6B		2-22-07	12:10																										
MW-6C		2-2207	11:40																										
MW-7AA		2-23-07	7:35																										
MW-7A		2-23-07	7:05																										
MW-7B		2-23-07	6:15																										
MW-7C		2-23-07	5:35																										
MW-8A		2-21-07	5:15																										
MW-9A		2-21-07	4:45																										
MW-9C		2-21-07	4:07	↓	↓	↓					↓	↓			↓														

Relinquished By: Date: 2-26-07 Time: 8:30 Received By: Muskan Environmental 2/26/07

Relinquished By: Date: Time: Received By:

Comments: Filter Samples for Metals analysis: Yes / No

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0702616 **ClientID: PEO**

☑ EDF ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty

Report to:
Bob Clark-Riddell
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612
Email: bcr@pangeaenv.com
TEL: (510) 409-8980 FAX: (510) 836-3709
ProjectNo: #1001.001
PO: 7420 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: 02/26/2007
Date Printed: 02/26/2007

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0702616-001	MW-1	Water	2/21/07 3:40:00 AM	☐	A	A										
0702616-002	MW-2	Water	2/21/07 3:18:00 AM	☐	A											
0702616-003	MW-3A	Water	2/21/07 8:05:00 AM	☐	A											
0702616-004	MW-4	Water	2/21/07 2:35:00 AM	☐	A											
0702616-005	MW-5	Water	2/21/07 2:57:00 AM	☐	A											
0702616-006	MW-6A	Water	2/22/07 12:45:00	☐	A											
0702616-007	MW-6B	Water	2/22/07 12:10:00	☐	A											
0702616-008	MW-6C	Water	2/22/07 11:40:00	☐	A											
0702616-009	MW-7AA	Water	2/23/07 7:35:00 AM	☐	A											
0702616-010	MW-7A	Water	2/23/07 7:05:00 AM	☐	A											
0702616-011	MW-7B	Water	2/23/07 6:15:00 AM	☐	A											
0702616-012	MW-7C	Water	2/23/07 5:35:00 AM	☐	A											
0702616-013	MW-8A	Water	2/21/07 5:15:00 AM	☐	A											
0702616-014	MW-9A	Water	2/21/07 4:45:00 AM	☐	A											
0702616-015	MW-9C	Water	2/21/07 4:07:00 AM	☐	A											

Test Legend:

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

Prepared by: Sheli Cryderman

Comments:

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

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0702616 **ClientID: PEO**

☑ EDF ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty

Report to:
Bob Clark-Riddell
Pangea Environmental Svcs., Inc.
1710 Franklin Street, Ste. 200
Oakland, CA 94612
Email: bcr@pangeaenv.com
TEL: (510) 409-8980 FAX: (510) 836-3709
ProjectNo: #1001.001
PO: 7420 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: **02/26/2007**
Date Printed: **02/26/2007**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
0702616-016	MW-10A	Water	2/23/07 8:20:00 AM	☐	A											
0702616-017	MW-10C	Water	2/22/07 8:00:00 AM	☐	A											
0702616-018	MW-11C	Water	2/22/07 9:55:00 AM	☐	A											
0702616-019	VW-1	Water	2/23/07 8:30:00 AM	☐	A											
0702616-020	VW-2	Water	2/23/07 8:40:00 AM	☐	A											
0702616-021	VW-3	Water	2/23/07 8:55:00 AM	☐	A											

Test Legend:

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

Prepared by: Sheli Cryderman

Comments:

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

McCampbell 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.	Client Project ID: #1001.001	Date Sampled: 02/21/07-02/23/07
1710 Franklin Street, Ste. 200		Date Received: 02/26/07
Oakland, CA 94612	Client Contact: Bob Clark-Riddell	Date Extracted: 02/27/07-03/01/07
	Client P.O.: 7420 Dublin Blvd., Dublin, CA	Date Analyzed 02/27/07-03/01/07

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

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0702616

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	ND	3600	ND	ND	ND	ND	1	90
002A	MW-2	W	ND	1100	ND	ND	ND	ND	1	90
003A	MW-3A	W	7100,a	8400	890	28	440	470	10	106
004A	MW-4	W	ND	ND	ND	ND	ND	ND	1	97
005A	MW-5	W	ND	ND	ND	ND	ND	ND	1	99
006A	MW-6A	W	360,a	4400	13	1.8	16	34	3.3	91
007A	MW-6B	W	ND	ND	ND	ND	ND	ND	1	94
008A	MW-6C	W	ND	ND	ND	ND	ND	ND	1	97
009A	MW-7AA	W	18,000,a	41,000	2400	670	200	2800	50	102
010A	MW-7A	W	ND	270	4.6	ND	0.62	2.2	1	94
011A	MW-7B	W	ND	ND	ND	ND	ND	ND	1	99
012A	MW-7C	W	ND	ND	ND	ND	ND	ND	1	98
013A	MW-8A	W	ND	16	ND	ND	ND	ND	1	100
014A	MW-9A	W	ND	21	ND	ND	ND	ND	1	95
015A	MW-9C	W	ND	ND	ND	ND	ND	ND	1	103
016A	MW-10A	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	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/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.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

McCampbell 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.	Client Project ID: #1001.001	Date Sampled: 02/21/07-02/23/07
1710 Franklin Street, Ste. 200		Date Received: 02/26/07
Oakland, CA 94612	Client Contact: Bob Clark-Riddell	Date Extracted: 02/27/07-03/01/07
	Client P.O.: 7420 Dublin Blvd., Dublin, CA	Date Analyzed 02/27/07-03/01/07

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

Extraction method SW5030B Analytical methods SW8021B/8015Cm Work Order: 0702616

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
017A	MW-10C	W	ND	ND	ND	ND	ND	ND	1	99
018A	MW-11C	W	ND	ND	ND	ND	ND	ND	1	100
019A	VW-1	W	620,a	340	52	4.3	ND	2.7	1	111
020A	VW-2	W	ND	ND	ND	ND	ND	ND	1	98
021A	VW-3	W	8800,a	ND<90	260	5.1	130	160	5	91

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	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/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.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request; p) see attached narrative.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

McCampbell 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

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0702616

EPA Method SW8021B/8015Cm	Extraction SW5030B				BatchID: 26484				Spiked Sample ID: 0702616-012A			
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	95.9	103	7.28	101	102	1.32	70 - 130	30	70 - 130	30
MTBE	ND	10	101	88.5	13.3	95.1	97.4	2.40	70 - 130	30	70 - 130	30
Benzene	ND	10	97.4	100	2.78	97.3	99	1.68	70 - 130	30	70 - 130	30
Toluene	ND	10	90.6	103	12.8	88.8	90.2	1.53	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	97.4	104	6.22	82.5	100	19.2	70 - 130	30	70 - 130	30
Xylenes	ND	30	96.7	96.3	0.345	96.7	96.7	0	70 - 130	30	70 - 130	30
%SS:	98	10	94	107	12.0	93	95	2.04	70 - 130	30	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 26484 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0702616-001	2/21/07 3:40 AM	2/28/07	2/28/07 7:27 PM	0702616-001	2/21/07 3:40 AM	2/28/07	2/28/07 10:41 PM
0702616-002	2/21/07 3:18 AM	2/27/07	2/27/07 7:14 PM	0702616-002	2/21/07 3:18 AM	2/28/07	2/28/07 6:54 PM
0702616-002	2/21/07 3:18 AM	3/01/07	3/01/07 11:40 PM	0702616-003	2/21/07 8:05 AM	2/27/07	2/27/07 6:45 PM
0702616-003	2/21/07 8:05 AM	3/01/07	3/01/07 2:25 AM	0702616-004	2/21/07 2:35 AM	2/27/07	2/27/07 8:13 PM
0702616-005	2/21/07 2:57 AM	2/27/07	2/27/07 8:42 PM	0702616-006	2/22/07 12:45 PM	2/27/07	2/27/07 9:11 PM
0702616-006	2/22/07 12:45 PM	2/28/07	2/28/07 8:31 PM	0702616-007	2/22/07 12:10 PM	3/01/07	3/01/07 2:57 AM
0702616-008	2/22/07 11:40 AM	2/27/07	2/27/07 10:10 PM	0702616-009	2/23/07 7:35 AM	2/27/07	2/27/07 10:39 PM
0702616-009	2/23/07 7:35 AM	3/01/07	3/01/07 3:29 AM	0702616-010	2/23/07 7:05 AM	3/01/07	3/01/07 4:01 AM
0702616-011	2/23/07 6:15 AM	2/28/07	2/28/07 12:36 AM	0702616-012	2/23/07 5:35 AM	2/28/07	2/28/07 1:05 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.

DHS ELAP Certification N° 1644

QA/QC Officer

McCampbell 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

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0702616

EPA Method SW8021B/8015Cm	Extraction SW5030B				BatchID: 26488				Spiked Sample ID: 0702616-020A			
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	100	96.7	3.87	98.8	109	9.89	70 - 130	30	70 - 130	30
MTBE	ND	10	120	111	7.43	104	99.4	4.19	70 - 130	30	70 - 130	30
Benzene	ND	10	108	113	4.37	111	105	5.76	70 - 130	30	70 - 130	30
Toluene	ND	10	107	111	3.41	111	109	1.97	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	108	109	1.37	110	104	6.08	70 - 130	30	70 - 130	30
Xylenes	ND	30	100	100	0	100	96.3	3.74	70 - 130	30	70 - 130	30
%SS:	98	10	109	116	6.01	113	109	2.97	70 - 130	30	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 26488 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0702616-013	2/21/07 5:15 AM	2/28/07	2/28/07 1:34 AM	0702616-014	2/21/07 4:45 AM	3/01/07	3/01/07 4:33 AM
0702616-015	2/21/07 4:07 AM	2/28/07	2/28/07 2:32 AM	0702616-016	2/23/07 8:20 AM	2/28/07	2/28/07 3:01 AM
0702616-017	2/22/07 8:00 AM	2/28/07	2/28/07 3:30 AM	0702616-018	2/22/07 9:55 AM	2/28/07	2/28/07 3:59 AM
0702616-019	2/23/07 8:30 AM	2/28/07	2/28/07 4:28 AM	0702616-020	2/23/07 8:40 AM	2/27/07	2/27/07 11:30 AM
0702616-021	2/23/07 8:55 AM	3/01/07	3/01/07 8:20 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.