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

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

Re: Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California
ACHCSA Case No. 304

Dear Mr. Chan:

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

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

Sincerely,

Hooshang Hadjian

May 12, 2015

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

Re: **Site Assessment Report and Case Closure Request**
Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California
ACEH Case No. 304

Dear Mr. Wickham:

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

Based on results of this investigation and our evaluation of LTCP criteria, Pangea respectfully requests case closure for this site. 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: *Site Assessment Report*

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

SITE ASSESSMENT REPORT AND CASE CLOSURE REQUEST

Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California

May 12, 2015

Prepared for:

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

Prepared by:

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

Written by:

Elizabeth Avery
Staff Geologist

Bob Clark-Riddell, P.E.
Principal Engineer

INTRODUCTION

On behalf of Mr. Hooshang Hadjian, Pangea Environmental Services, Inc. (Pangea) has prepared this *Site Assessment Report* (Report) as requested in an Alameda County Environmental Health (ACEH) letter dated November 3, 2014. The purpose of the report is to evaluate site conditions with respect to Low-Threat Closure Policy (LTCP) soil criteria for direct contact and to delineate shallow groundwater impact north of site wells MW-3A and MW-6A. Based on results of this investigation and our evaluation of LTCP criteria, Pangea respectfully requests case closure for this site.

SITE BACKGROUND

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

Summary of Previous Environmental Work

Chevron Release – 1988 to 1996

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

New Release – February 1997

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

from the release area to a depth of 8 feet bgs. The results of subsequent groundwater monitoring events in December 1998 and March 1999 indicated free product was present in well MW-3. The detection of free product in MW-3 (up to 0.1 feet thick) corresponds to the historically lowest groundwater elevation observed during site monitoring activities, when the depth to groundwater in well MW-3 was 12.92 feet in December 1998.

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

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

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

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

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

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

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

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

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

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

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

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

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

SITE INVESTIGATION ACTIVITIES

In the *Workplan for Additional Assessment* (Workplan) dated October 24, 2014, Pangea proposed two onsite borings to assess shallow onsite soil conditions and three offsite borings to delineate shallow groundwater contamination north of the site. The Workplan was approved in a letter from Alameda County Environmental Health (ACEH), dated November 3, 2014.

Pre-Drilling Activities

A comprehensive site safety plan was prepared to protect site workers and the plan was kept onsite during all field activities. A drilling permit was obtained from the Zone 7 Water Agency and an encroachment permit was obtained from the City of Dublin (Appendix C). The proposed drilling locations were marked and Underground Service Alert was notified at least 48 hours before the proposed field activities.

Drilling Procedures

All soil borings were installed in general accordance with the procedures described in Pangea's October 24, 2014 Workplan. Pangea retained Vapor Tech Services (VTS) of Hayward, California, to advance three borings on February 23, 2015, and Penecore Environmental Drilling (Penecore) of Woodland, California, to advance one boring on March 20, 2015.

Boring Activities

On February 23 and March 20, 2015, Pangea coordinated drilling of two onsite soil borings (SB-3 and SB-4) to evaluate soil conditions with respect to LTCP criteria and two offsite borings (SB-5 and SB-6) to assess the lateral extent of groundwater contamination north of the site (Figure 2). While Pangea proposed three offsite borings north of the site in the Workplan, only two borings could be completed due to the density of subsurface utilities. Proposed boring SB-7 was attempted at three locations within the median and one in the roadway, but unmarked utilities were encountered in each location. Pangea also evaluated drilling borings on the other side of the median in westbound Dublin Boulevard, but there were too many subsurface utilities. All field activities were conducted in general accordance with the Standard Operating Procedures (SOPs) provided in Appendix B.

Soil sampling was conducted at all four boring locations. Soil samples were collected from onsite borings SB-3 and SB-4 at approximately 2 ft, 4 ft, and 8 ft below grade surface (bgs). Soil samples from offsite borings SB-5 and SB-6 were collected approximately every four feet to the approximate total boring depth of 25 ft bgs. A groundwater sample was collected for laboratory analysis from boring SB-5 using temporary PVC casing. Pangea attempted to collect a groundwater sample from boring SB-6, but no groundwater entered the boring after waiting over one hour. Completed borings were tremie-grouted from the bottom of the hole to the surface.

Both VTS on February 23, 2015, and Penecore on March 20, 2015, conducted the associated soil and groundwater sampling using a direct push rig equipped with dual tube sampling equipment. Dual-tube direct-push drilling methods employ an outer tube to help avoid cross contamination within the inner sampling tube. This drilling method allows collection of continuously cored soil samples. All borings were first hand augered to approximately five feet below grade surface (bgs) to avoid damaging any unmarked subsurface utilities. Boring locations SB-3, SB-4, and SB-5 required concrete coring. Onsite borings SB-3 and SB-4 were both advanced to 10 ft bgs. Offsite borings SB-5 and SB-6 were both advanced to 25 ft bgs.

Select soil and water samples were collected from each boring in accordance with Pangea's Standard Field Procedures for Soil Borings (Appendix B). Soil samples were collected for laboratory analysis in acetate liners, and capped with Teflon tape and plastic end caps. To sample first-encountered groundwater in boring SB-5, the inner drilling rods were removed, temporary PVC piping and well screen was installed within the boring, and the outer drill rods were then removed. The grab groundwater sample was collected with a disposable bailer and was then decanted into the appropriate laboratory supplied containers. Boring logs are included in Appendix D. All samples were shipped under chain of custody to McCampbell Analytical, Inc., of Pittsburg, California, a California-certified laboratory.

The drilling was observed in the field by Pangea staff and supervised by Bob Clark-Riddell, a California Registered Professional Civil Engineer (P.E.). Soil characteristics such as color, texture, and relative water content were noted in the field using the USCS classification system and entered onto a field boring log. Field screening of soil samples for potential hydrocarbons and volatile organic compounds included visual and olfactory observations.

Sample Analyses

Groundwater and select soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg); benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA Method 8015B/8021B; and naphthalene by EPA Method 8260.

Waste Management and Disposal

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

ASSESSMENT RESULTS

Soil Analytical Results

No contaminant concentrations were detected above the State Water Resources Control Board's (SWRCB) Low Threat Closure Policy (LTCP) direct contact and outdoor air exposure criteria. The highest TPHg concentration detected in soil was in onsite boring B-3 at 1,900 mg/kg (4 ft bgs). The highest benzene concentration detected in soil was 1.6 mg/kg (8 ft bgs), which is well below the applicable LTCP criteria of 12 mg/Kg. Ethylbenzene concentrations in boring SB-3 were detected at concentrations of 19 mg/kg (4 ft bgs) and 32 mg/kg (8 ft bgs), both well below the applicable LTCP criteria of 89 mg/Kg. No hydrocarbons or MTBE were detected in soil samples from boring SB-4, SB-5 or SB-6. The highest naphthalene concentration detected in soil was 11 mg/kg (8 ft bgs) in SB-3, which is well below the applicable LTCP criteria of 45 mg/Kg. These results indicate that the site appears to meet the LTCP criteria for direct contact and outdoor air exposure. Soil analytical results are summarized in Table 1. The laboratory analytical reports are included in Appendix E.

Groundwater Analytical Results

No hydrocarbons or fuel oxygenates were detected in the grab groundwater sample from boring SB-5. Pangea attempted to collect a groundwater sample from boring SB-6, but no groundwater entered the boring after waiting over one hour. Groundwater analytical results are summarized in Table 2. The laboratory analytical reports are included in Appendix E.

LOW THREAT CLOSURE POLICY EVALUATION

This report section presents an evaluation of site conditions with respect to criteria of the recently adopted LTCP. The LTCP includes general criteria as well as media-specific criteria for soil, groundwater, and soil gas

General Criteria of LTCP

As described in the LTCP, a low-threat case must satisfy the following general criteria:

- The unauthorized release is located within the service area of a public water system;
- The unauthorized release consists only of petroleum;
- The unauthorized ("primary") release from the UST system has been stopped;
- Free product has been removed to the maximum extent practicable;
- A conceptual site model that assesses the nature, extent, and mobility of the release has been developed;
- Secondary source has been removed to the extent practicable;
- Soil or groundwater has been tested for methyl tert-butyl ether (MTBE) and results reported in accordance with Health and Safety Code section 25296.15; and,
- Nuisance as defined by Water Code section 13050 does not exist at the site.

Each of the general criteria are evaluated with respect to the site conditions in Table A.

Table A – Evaluation of General Criteria of LTCP[1]

Satisfy Criteria?	Criteria	Discussion
✓	Located in service area of a public water system	The site is located in an area serviced by the Alameda County Zone 7 Water Agency.
✓	Release consists only of petroleum.	The site is an operating gasoline station and automated car wash facility. USTs at the site were removed in February 1989 and tank replacement and renovation work was completed. The product delivery system was replaced in 1997. Only petroleum hydrocarbons are identified as chemicals of concern.
✓	Release has been stopped	The case was opened in 1989. The USTs were replaced in 1989. The product delivery system was replaced in 1997. Groundwater monitoring data suggests both the discovered releases have been stopped.
✓	Free product has been removed	Separate phase hydrocarbons or free product has been observed onsite in destroyed well MW-3 at a maximum measured thickness of 1.29 ft (2/21/05) and in replacement well MW-3A at a maximum measured thickness of 0.03 ft (5/29/06). Free product has not been observed onsite since May 2006. April 2014 pilot test results suggest that no significant mass of residual free product is present at the site.
✓	A conceptual site model has been developed	The Conceptual Site Model (CSM) is dated June 23, 2014.

Satisfy Criteria?	Criteria	Discussion
✓	Secondary Source has been removed	An SVE system operated for the original release between March 1992 and April 1996. The SVE system removed approximately 15,000 pounds of hydrocarbons. Approximately 31 cubic yards of soil were excavated in July 1997, following the discovery of the second release. In July 2006, Pangea conducted vacuum extraction from well MW-3A and MW-7AA using a vacuum truck. In November 2007, Pangea conducted a five-day dual-phase extraction (DPE) test to evaluate the effectiveness of DPE as remedial technique and to provide additional source removal. To remediate the small localized impact area, DPE was conducted between September 15, 2010 and November 15, 2010 until low contaminant removal rates were observed. The DPE system operated for approximately 50 days. Laboratory analytical data indicates that the system removed a total of approximately 443 lbs TPHg and 3.8 lbs benzene in vapor phase, and 0.4 lbs TPHg, 0.01 lbs benzene and 0.25 lbs MTBE in aqueous phase. On April 3, 2014, Pangea conducted pilot testing of enhanced bioremediation to help determine if residual free product persists at the site, and if bioremediation techniques could accelerate attenuation of source area hydrocarbons. The test involved injection of bio-organic catalyst (BOC), water, and air into the hydrocarbon secondary source area, followed by extraction of groundwater from select site wells. Air sparging successfully increased dissolved oxygen (DO) concentrations in source area wells MW-3A and MW-6A. BOC injection did not increase hydrocarbon concentrations within source area wells MW-3A and MW-6A or increase hydrocarbon recovery rates from these wells (during groundwater extraction). This suggests that there is no significant mass of residual free product at the site.
✓	Soil or groundwater has been tested for MTBE	Site and offsite groundwater has been tested for MTBE since 2006. MTBE concentrations are below LTCP criteria.
✓	Nuisance does not exist at the site	The site is currently an operating gas station and car wash and is not a nuisance. The site is not injurious to health, nor indecent or offensive to the senses, nor an obstruction to the free use of property

[1] April 19, 2012 SWRCB, *Low-Threat Underground Storage Tank Closure Policy*.

Media-Specific Criteria of LTCP

As described in the LTCP, a low-threat case must satisfy the *media*-specific criteria. Releases from USTs can impact human health and the environment through contact with any or all of the following contaminated media: groundwater, surface water, soil, and soil vapor. Although this contact can occur through ingestion, dermal contact, or inhalation of the various media, the most common drivers of health risk are ingestion of

groundwater from drinking water wells, inhalation of vapors accumulated in buildings, contact with near surface contaminated soil, and inhalation of vapors in the outdoor environment.

To simplify implementation of the LTCP, these media and pathways have been evaluated and the most common exposure scenarios have been combined into three media-specific criteria:

1. Groundwater
2. Vapor Intrusion to Indoor Air
3. Direct Contact and Outdoor Air Exposure

Candidate sites must satisfy all three of these media-specific criteria. Each of the general criteria are evaluated with respect to the site conditions in Table B.

Table B – Evaluation of Media-Specific Criteria of LTCP[1]

Satisfy Criteria?	Criteria	Discussion
✓	1. Groundwater	The recent maximum hydrocarbon concentrations in groundwater (April 2015) are 2,800 ug/L TPHg (MW-3A), 270 ug/L benzene (MW-6A), and 130 ug/L MTBE (MW-3A). TPHg and benzene are the chemicals of concern for this site. Historic TPHg and benzene plume maps included in Appendix A indicate the TPHg and benzene plumes have dramatically reduced in size over the years, and are primarily localized in one area shown on Figure 3. TPHg and benzene reduction trends in key wells are also included in Appendix A. The current plume length is <250 feet, benzene is <3,000 ug/L, and MTBE is <1,000 ug/L. San Ramon Creek/Flood Control Channel is <1,000 ft from the defined plume boundary. Since the flood control channel apparently does not interact with the groundwater beneath the subject site, the agency may apply groundwater criteria 2a. Otherwise, the agency has the discretion to close the case under criteria 5 of the LTCP.
✓	2. Vapor Intrusion to Indoor Air (Soil Gas)	As an active service station this site is exempt from this media-specific criteria.
✓	3. Direct Contact and Outdoor Exposure (Soil)	Table 1 presents historic soil data for onsite and offsite soil borings/monitoring wells. Elevated contaminant concentrations were detected west of the dispenser island.Historic hydrocarbon concentrations in soil near the northern dispenser island exceeded the LTCP criteria for direct exposure. Boring B-1 (1997) at 9 ft depth contained 13 mg/Kg benzene, B-2 (2003) at 4 ft contained 12 mg/Kg benzene and 240 mg/Kg ethylbenzene, boring B-7 (2003) at 4 ft depth contained 170 mg/Kg ethylbenzene.

Satisfy Criteria?	Criteria	Discussion
		However, soil concentrations following site remediation are below Table 1 criterial of the LTCP. As shown on Table 1, the maximum benzene (1.6 mg/kg, ethylbenzene (32 mg/kg), and naphthalene (11 mg/kg) are below media specific LTCP criteria.

REQUEST FOR REGULATORY CASE CLOSURE

Based on our review of current and historical data and our evaluation of the LTCP policy, Pangea offers the following conclusions and recommendations:

- Soil analytical results from the onsite soil borings (SB-3 and SB-4) suggest that the site meets the media-specific LTCP criteria for direct contact and outdoor air exposure.

- Based on the lack of hydrocarbons detected in soil and/or groundwater in offsite borings SB-5 and SB-6, the lateral extent of hydrocarbons is adequately characterized north of the site.

- Having apparently satisfied LTCP criteria, Pangea recommends issuance of regulatory case closure using the LTCP policy.

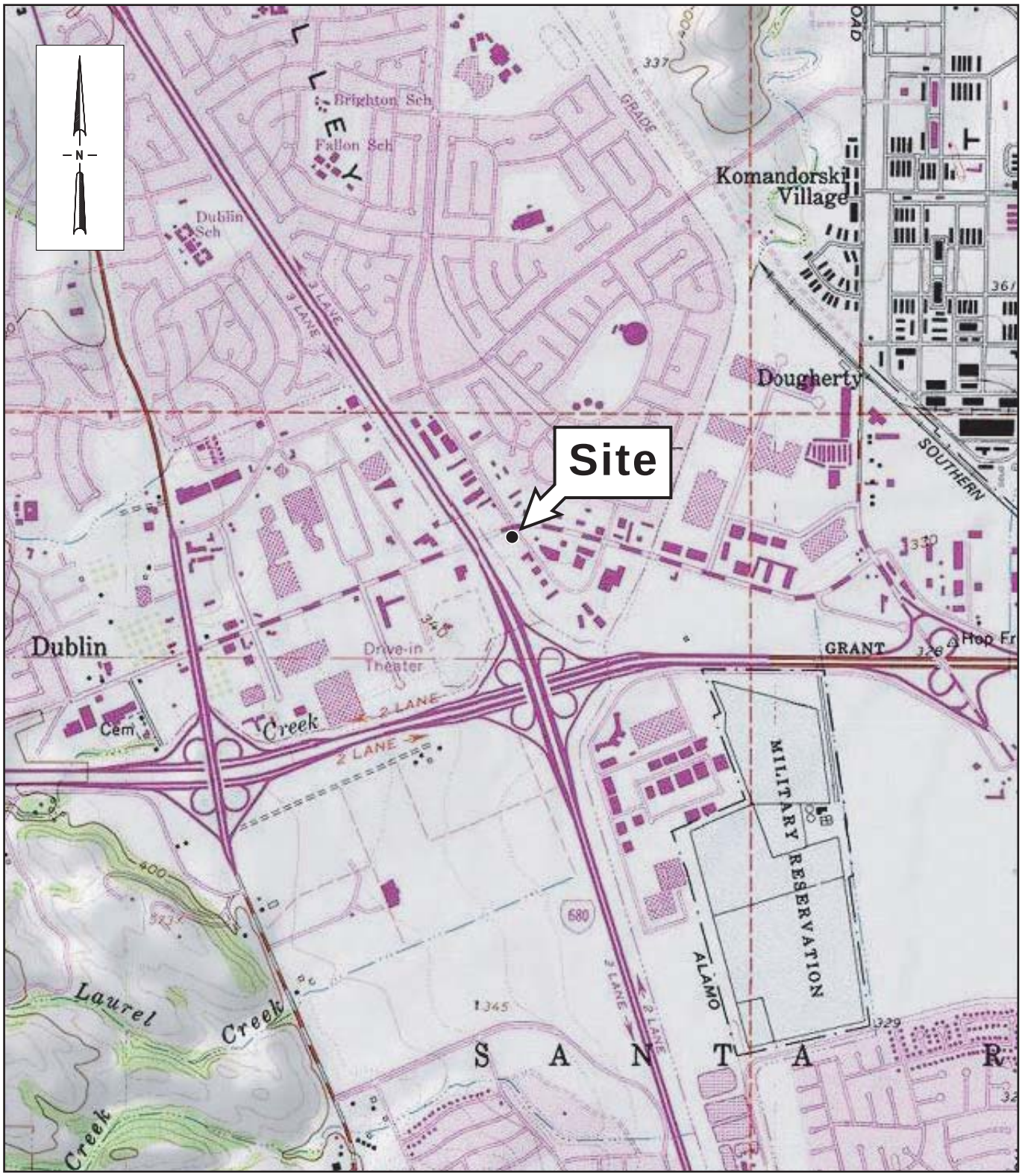
ATTACHMENTS

Figure 1 – Vicinity Map
Figure 2 – Boring Location Map

Table 1 – Soil Analytical Data
Table 2 – Groundwater Analytical Data

Appendix A – Regulatory Letter
Appendix B – Standard Operating Procedures
Appendix C – Permits
Appendix D – Boring Logs
Appendix E – Laboratory Analytical Reports
Appendix F – Waste Manifest

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

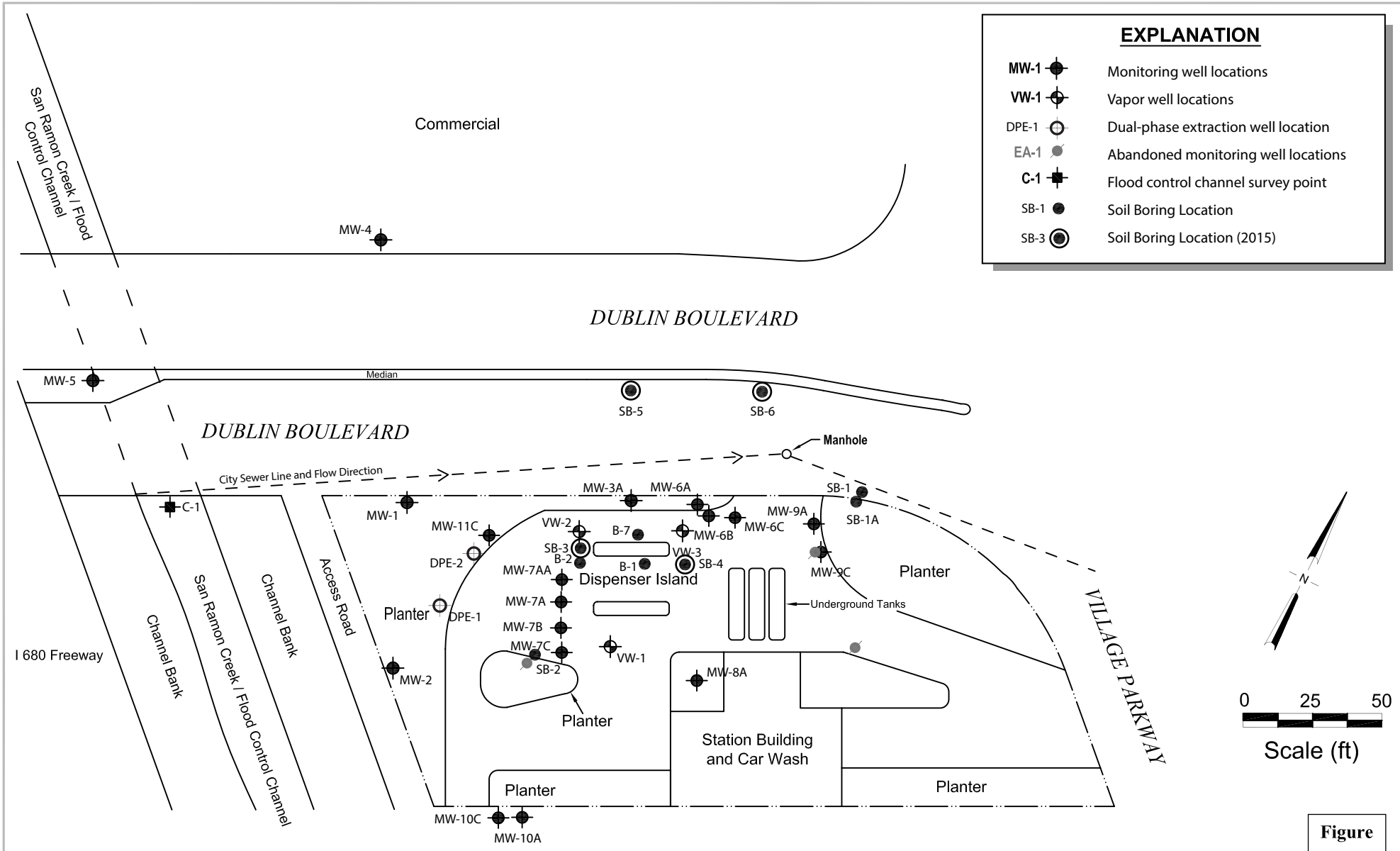


Figure 2

Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California

PANGEA

Soil Boring Locations

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

Boring/Well ID	Consultant	Date Sampled	Sample Depth (feet)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	MTBE	TAME	TBA	Ethanol	Notes
				← mg/kg →										
Final ESL - Commercial, Drinking Water Resource				**500**	**0.044**	**2.9**	**3.3**	**2.3**	**1.2**	**0.023**	NE	**0.075**	NE	
LTCP Commercial/Industrial Criteria (0 to 5 feet bgs)				--	**8.2**	--	**89**	--	**45**	--	--	--	--	
LTCP Commercial/Industrial Criteria (5 to 10 feet bgs)				--	**12**	--	**134**	--	**45**	--	--	--	--	
SOIL BORINGS - 2015														
SB-3-2'	PANGEA	2/23/2015	2	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
SB-3-4'	PANGEA	2/23/2015	4	**1,900**	<1.0	**4.0**	**19**	**160**	<0.005[A]	<10	--	--	--	
SB-3-8'	PANGEA	2/23/2015	8	**1,700**	**1.6**	**38**	**32**	**210**	**11[A]**	<10	--	--	--	
SB-4-2'	PANGEA	2/23/2015	2	<1.0	<0.005	<0.005	<0.005	0.020	--	<0.05	--	--	--	
SB-4-4'	PANGEA	2/23/2015	4	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
SB-4-8'	PANGEA	2/23/2015	8	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
SB-5-20'	PANGEA	2/23/2015	20	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
SB-6-8'	PANGEA	3/20/2015	8	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
SB-6-12'	PANGEA	3/20/2015	12	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
SB-6-16'	PANGEA	3/20/2015	16	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
SB-6-20'	PANGEA	3/20/2015	20	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
SB-6-24'	PANGEA	3/20/2015	24	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
WELL INSTALLATION & SOIL BORINGS - 2006														
MW-3A-10	PANGEA	3/30/2006	10	**1,500**	**2.4**	**5.2**	**19**	**83**	--	<10 **(0.54)**	<0.33	<3.3	--	
MW-3A-15	PANGEA	3/30/2006	15	**140**	**2.3**	2.6	2.4	**16**	--	**2.7 (2.6)**	<0.10	<1.0	--	
MW-6C-5	PANGEA	3/30/2006	5	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
MW-6C-10	PANGEA	3/30/2006	10	50	0.024	0.072	0.13	**1.5**	--	<0.05	--	--	--	
MW-6C-15	PANGEA	3/30/2006	15	**130**	**0.61**	0.29	1.4	**9.3**	--	<0.50 **(0.050)**	<0.020	<0.20	--	
MW-7B-5	PANGEA	3/29/2006	5	<1.0	<0.005	<0.005	<0.005	<0.005	--	**0.17 (0.11)**	<0.005	<0.05	--	
MW-7B-11	PANGEA	3/29/2006	11	**1,800**	**7.8**	**14**	**30**	**170**	--	**16 (13)**	<0.50	<5.0	--	
MW-8A-5	PANGEA	5/17/2006	5	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
MW-8A-10	PANGEA	5/17/2006	10	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
MW-8A-15	PANGEA	5/17/2006	15	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
MW-9A-5	PANGEA	4/3/2006	5	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
MW-9A-10	PANGEA	4/3/2006	10	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
MW-9A-15	PANGEA	4/3/2006	15	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
MW-10C-5	PANGEA	3/27/2006	5	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
MW-10C-10	PANGEA	3/27/2006	10	17	**0.14**	0.063	0.46	1.3	--	<0.05	--	--	--	
MW-10C-15	PANGEA	3/27/2006	15	<1.0	<0.005	<0.005	0.0065	0.023	--	<0.05	--	--	--	

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

Boring/Well ID	Consultant	Date Sampled	Sample Depth (feet)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	MTBE	TAME	TBA	Ethanol	Notes
				← mg/kg →										
Final ESL - Commercial, Drinking Water Resource				**500**	**0.044**	**2.9**	**3.3**	**2.3**	**1.2**	**0.023**	NE	**0.075**	NE	
LTCP Commercial/Industrial Criteria (0 to 5 feet bgs)				--	**8.2**	--	**89**	--	**45**	--	--	--	--	
LTCP Commercial/Industrial Criteria (5 to 10 feet bgs)				--	**12**	--	**134**	--	**45**	--	--	--	--	
MW-11C-5	PANGEA	3/28/2006	5	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
MW-11C-11	PANGEA	3/28/2006	11	**700**	**1.4**	**12**	**14**	**65**	--	<10 **(3.1)**	<0.33	<3.3	--	
MW-11C-15	PANGEA	3/28/2006	15	<1.0	<0.005	0.023	0.014	0.073	--	**1.0 (0.80)**	<0.033	**0.41**	--	
SB-1-7	PANGEA	5/18/2006	7	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
SB-1-11	PANGEA	5/18/2006	11	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
SB-1-14	PANGEA	5/18/2006	14	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
SB-1A-15	PANGEA	5/18/2006	15	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
SB-2-5	PANGEA	5/18/2006	5	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
SB-2-10	PANGEA	5/18/2006	10	**790**	<1.0	**2.9**	**10**	**58**	--	<10	--	--	--	
SB-2-15	PANGEA	5/18/2006	15	**310**	**2.5**	2.4	**6.4**	**27**	--	<5.0	--	--	--	
SB-2-20	PANGEA	5/18/2006	20	<1.0	<0.005	<0.005	<0.005	<0.005	--	<0.05	--	--	--	
WELL INSTALLATION & SOIL BORINGS - HISTORICAL														
EA-1	EA	10/17/1988	6.5 & 11.5	<0.05	0.0019	0.0097	<0.0005	0.0018	--	--	--	--	--	
			16	<0.05	0.0007	0.0015	<0.0005	0.0008	--	--	--	--	--	
			21	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	
EA-2	EA	10/20/1988	6	0.14	0.02	0.0013	0.0037	0.0018	--	--	--	--	--	
			11	0.11	0.0093	0.0034	0.0013	<0.0005	--	--	--	--	--	
			16	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	
			21	0.14	0.02	0.0059	0.0045	0.0043	--	--	--	--	--	
EA-3	EA	10/21/1988	6	0.086	0.0054	0.0013	0.0049	0.0024	--	--	--	--	--	
			11	0.27	0.032	0.0043	0.0067	<0.0005	--	--	--	--	--	
			16	<0.05	0.0016	0.0037	<0.0005	<0.0005	--	--	--	--	--	
			21-36	<0.05	<0.0005	<0.0005	<0.0005	<0.0005	--	--	--	--	--	
B-1	WGR	3/17/1989	3-4	<0.5	**0.24**	<0.5	<0.5	<0.5	--	--	--	--	--	
			4.5-5.5	<0.5	**0.43**	<0.5	<0.5	<0.5	--	--	--	--	--	
			6.5-7.5	<0.5	**0.13**	<0.5	<0.5	<0.5	--	--	--	--	--	
			9.5-10.5	<0.5	**0.09**	<0.5	<0.5	<0.5	--	--	--	--	--	
			14.5-15.5	1.8	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
B-2	WGR	3/17/1989	3.5-4.5	NA	NA	NA	NA	NA	--	--	--	--	--	
			5.5-6.5	<0.5	**0.06**	<0.5	<0.5	<0.5	--	--	--	--	--	
			9.5-10.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
			14.5-15.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
B-3	WGR	3/17/1989	5.5-6.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
		3/18/1989	9.5-10.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
B-4	WGR	3/18/1989	3-4	<0.5	**0.06**	<0.5	<0.5	<0.5	--	--	--	--	--	
			5.5-6.5	<0.5	**0.07**	<0.5	<0.5	<0.5	--	--	--	--	--	
			9.5-10.5	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
B-5	WGR	3/18/1989	3-4	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--	
			5.5-6.5	<0.5	**0.06**	0.2	<0.5	0.1	--	--	--	--	--	
			9.5-10.5	<0.5	**0.9**	0.4	0.08	0.09	--	--	--	--	--	

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Boring/Well ID	Consultant	Date Sampled	Sample Depth (feet)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	MTBE	TAME	TBA	Ethanol	Notes
				← mg/kg →										
Final ESL - Commercial, Drinking Water Resource				**500**	**0.044**	**2.9**	**3.3**	**2.3**	**1.2**	**0.023**	NE	**0.075**	NE	
LTCP Commercial/Industrial Criteria (0 to 5 feet bgs)				--	**8.2**	--	**89**	--	**45**	--	--	--	--	
LTCP Commercial/Industrial Criteria (5 to 10 feet bgs)				--	**12**	--	**134**	--	**45**	--	--	--	--	
MW-1	GTI	9/13/1994	10	ND	ND	0.0099	ND	ND	--	--	--	--	--	
			15	23	**0.14**	0.47	0.37	**1.5**	--	--	--	--	--	
MW-2	GTI	9/13/1994	10	**980**	**2.7**	**19**	**15**	**78**	--	--	--	--	--	
			15	ND	ND	ND	ND	ND	--	--	--	--	--	
MW-3	GTI	9/13/1994	10	**2,500**	**0.8**	**4.8**	**5.1**	**120**	--	--	--	--	--	
			15	37	**0.21**	0.48	0.32	**1.5**	--	--	--	--	--	
MW-4	GRI	2/22/1996	9.5	<1	<0.005	<0.005	<0.005	<0.005	--	<0.025	--	--	--	
MW-5	GRI	2/22/1996	9.5	<1	<0.005	<0.005	<0.005	<0.005	--	<0.025	--	--	--	
B-1	PES	7/14/1997	5	10	**0.41**	0.027	0.16	0.01	--	**6**	--	--	--	hand augered
			9	**1,400**	**13**	**45**	**26**	**130**	--	**4.5**	--	--	--	
B-2	PES	7/14/1997	5	1.8	0.006	0.007	0.013	0.033	--	**0.33**	--	--	--	hand augered
			10	**1,100**	**11**	**35**	**18**	**91**	--	**20**	--	--	--	
B-3	PES	7/15/1997	7	230	**2.4**	2	**3.8**	**19**	--	**6**	--	--	--	hand augered
			10	**1,000**	**9.8**	**32**	**17**	**84**	--	**10**	--	--	--	
B-4	PES	7/15/1997	7	33	**0.11**	0.034	0.39	0.87	--	**1.5**	--	--	--	hand augered
			10	**1,900**	**2.2**	**14**	**19**	**170**	--	<4.5	--	--	--	
B-1	SOMA	4/23/2003	3.5-4	<0.2	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.0005	<0.1	<1	hand augered
B-2	SOMA	4/23/2003	3.5-4	**92,000**	**12**	**560**	**240**	**1,550**	--	**21**	20	<100	<1,000	hand augered
B-3	SOMA	4/23/2003	3.5-4	<0.19	<0.0043	<0.0043	<0.0043	<0.0043	--	<0.0043	<0.0043	**0.086**	0.86	hand augered
B-4	SOMA	4/23/2003	2.5-3	<0.17	<0.0042	<0.0042	<0.0042	<0.0042	--	<0.0042	<0.0042	**0.083**	0.83	hand augered
B-5	SOMA	4/23/2003	3.5-4	<0.19	<0.0047	<0.0047	<0.0047	0.0079	--	<0.0047	<0.0047	**0.094**	0.94	hand augered
B-6	SOMA	4/23/2003	2.5-3	<0.17	<0.0043	<0.0043	<0.0043	<0.0043	--	<0.0043	<0.0043	**0.086**	0.86	hand augered
B-7	SOMA	4/23/2003	3.5-4	**8,700**	**7.7**	**270**	**170**	**920**	--	**7.1**	<10	<140	<1,400	hand augered
B-8	SOMA	4/23/2003	4-5.75	9.9	0.0064	<0.0044	0.033	0.2	--	**0.047**	0.012	**0.088**	0.88	hand augered
DPB-3	SOMA	4/17/2003	14-15	**3,500**	**6.6**	**120**	**43**	**251**	--	**17**	--	--	--	
			18.5-19.5	<0.16	<0.0042	<0.0042	<0.0042	<0.0042	--	**1.4**	--	--	--	
DPB-4	SOMA	4/17/2003	9-10	0.2	<0.0039	<0.0039	<0.0039	<0.0039	--	**0.041**	--	--	--	
DPB-5	SOMA	4/17/2003	11-12	<0.17	<0.0041	<0.0041	<0.0041	<0.0041	--	**0.0045**	--	--	--	
DPB-6	SOMA	4/18/2003	18-18.75	<0.15	<0.004	<0.004	<0.004	<0.004	--	<0.004	--	--	--	
DPB-7	SOMA	4/18/2003	15.5-16.5	<0.2	<0.005	<0.005	<0.005	<0.005	--	<0.005	--	--	--	
DPB-S	SOMA	4/18/2003	15-16	1.2	<0.13	<0.13	<0.13	0.36	--	**3.5**	--	--	--	

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

Boring/Well ID	Consultant	Date Sampled	Sample Depth (feet)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	MTBE	TAME	TBA	Ethanol	Notes
				← mg/kg →										
Final ESL - Commercial, Drinking Water Resource				**500**	**0.044**	**2.9**	**3.3**	**2.3**	**1.2**	**0.023**	NE	**0.075**	NE	
LTCP Commercial/Industrial Criteria (0 to 5 feet bgs)				--	**8.2**	--	**89**	--	**45**	--	--	--	--	
LTCP Commercial/Industrial Criteria (5 to 10 feet bgs)				--	**12**	--	**134**	--	**45**	--	--	--	--	

ABBREVIATIONS AND NOTES:

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8015M.
MTBE = Methyl tert-butyl ether by EPA Method 8020/8021. (Concentrations in parentheses are by EPA Method 8260B)
TAME = Tert-amyl methyl ether by EPA Method 8020/8021. (Concentrations in parentheses are by EPA Method 8260B)
TBA = Tert-butyl alcohol by EPA Method 8020/8021. (Concentrations in parentheses are by EPA Method 8260B)
mg/kg = milligram per kilogram
EA = EA Engineering Science and Technology Inc.
WGR = Western Geologic Resources
GTI = Groundwater Technology
GRI = Gettler-Ryan Inc.
PES = Parker Environmental Services
SOMA = SOMA Environmental Engineering Inc.
ESL =Environmental Screening Levels for Shallow soil with commercial/industrial land use where groundwater is a current or potential drinking water resource from Table A-2, established by SFBRWQCB, Interim Final - November 2007 (Revised February 2013).
LTCP = Low Threat Closure Policy established by the State Water Resources Control Board and adopted May 1, 2012. Direct contact and outdoor air exposure.
= Above LTCP criteria for direct contact or outdoor air exposure (based on depth of sample).
-- = Not analyzed
< = Not detected at or above indicated detection limit
Bold = Analytical results at or above the final ESL
NE = Not established
A = Samples were analyzed for naphthalene out of holding time

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

Well ID *TOC Elev* *(ft)*	Date Measured	Depth to Water (ft)	Groundwater Elevation (ft, msl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Dissolved Oxygen mg/L	Notes
				←			µg/L		→		
Residential ESL, drinking water				100	1.0	40	30	20	5.0		
Commercial ESL, drinking water				100	1.0	40	30	20	5.0		
Residential ESL, non-drinking water				100	27	130	43	100	1,800		
Commercial ESL, non-drinking water				500	46	130	43	100	1,800		
Grab Groundwater Analytical Data - 2015											
SB-5	02/23/15	20-25	NA	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	
Grab Groundwater Analytical Data - 2006											
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
Grab Groundwater Analytical Data - 2003											
DPB-1	05/01/03	16-20	NA	12,000	25	440	440	2,180	8,100	--	
DPB-2	04/22/03	NA	NA	710	1.1	<1	18	74	540	--	
DPB-3	04/17/03	16-20	NA	48,000	400	5,800	1,500	9,500	8,900	--	
DPB-3	04/17/03	27-31	NA	62,000	700	9,900	1,300	7,900	4,200	--	
	04/17/03	39-43	NA	27,000	210	3,200	640	4,100	7,700	--	
DPB-4	04/17/03	32-36	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
DPB-5	04/30/03	7-11	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
	04/17/03	11-15	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
	04/30/03	26-30	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
	04/17/03	36-40	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
DPB-6	04/18/03	15-19	NA	7,700	18	77	170	640	5.9	--	
	04/18/03	26-30	NA	4,700	21	76	160	650	6.2	--	
	04/18/03	35-39	NA	2,900	8.8	24	54	249	100	--	
DPB-7	04/18/03	15-19	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
	04/18/03	20-24	NA	7,000	42	640	190	990	300	--	
	04/18/03	35-39	NA	150	<0.5	1.8	0.8	5.7	<0.5	--	
DPB-8	05/01/03	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	
DPB-S	04/18/03	14-18	NA	20,000	<170	<170	380	6,600	53,000	--	
	04/18/03	26-30	NA	1,500	7.1	<3.1	7.4	170	760	--	
	04/18/03	35-39	NA	4,300	<63	<63	<63	910	42,000	--	
Surface Water (Flood Control Channel)											
C-1	08/17/06	11.60	321.29	--	--	--	--	--	--	--	Gauge data - flood control channel
332.89	11/24/06	12.10	320.79	--	--	--	--	--	--	--	
	02/21/07	12.10	320.79	--	--	--	--	--	--	--	
	05/15/07	12.05	320.84	--	--	--	--	--	--	--	
	08/28/07	11.90	320.99	--	--	--	--	--	--	--	
	12/21/07	12.16	320.73	--	--	--	--	--	--	--	
	02/26/08	12.21	320.68	--	--	--	--	--	--	--	
	05/21/08	12.40	320.49	--	--	--	--	--	--	--	
	08/13/08	11.95	320.94	--	--	--	--	--	--	--	
	11/13/08	12.40	320.49	--	--	--	--	--	--	--	
	02/06/09	12.02	320.87	--	--	--	--	--	--	--	
	05/28/09	11.98	320.91	--	--	--	--	--	--	--	
	08/13/09	12.01	320.88	--	--	--	--	--	--	--	
	11/24/09	11.92	320.97	--	--	--	--	--	--	--	
	02/11/10	11.95	320.94	--	--	--	--	--	--	--	
	06/04/10	11.98	320.91	--	--	--	--	--	--	--	
	08/12/10	11.94	320.95	--	--	--	--	--	--	--	
	11/30/10	11.68	321.21	--	--	--	--	--	--	--	
	02/21/11	10.27	322.62	--	--	--	--	--	--	--	
	05/17/11	12.02	320.87	--	--	--	--	--	--	--	
	08/03/11	12.10	320.79	--	--	--	--	--	--	--	
	02/15/12	12.51	320.38	--	--	--	--	--	--	--	
	08/25/12	10.33	322.56	--	--	--	--	--	--	--	
	02/26/13	12.27	320.62	--	--	--	--	--	--	--	
	12/31/13	12.38	320.51	--	--	--	--	--	--	--	
	04/24/14	13.21	319.68	--	--	--	--	--	--	--	
	09/16/14	12.05	320.84	--	--	--	--	--	--	--	

Vapor Wells

VW-1	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	
	05/15/07	7.94	322.49	2,000	270	6.4	1.2	15	720	0.10	
	08/28/07	8.07	322.36	2,400	400	4.6	<0.5	23	610	0.27	
	12/21/07	8.20	322.23			Insufficient Water to Sample					
	02/26/08	8.20	322.23			Insufficient Water to Sample					
	05/21/08	8.21	322.22			Insufficient Water to Sample					
	08/13/08	8.27	322.16			Insufficient Water to Sample					
	11/13/08	5.97	324.46	<50	<0.5	<0.5	<0.5	<0.5	46	1.10	
	02/06/09	6.04	324.39	<50	<0.5	<0.5	<0.5	<0.5	80	0.97	
	05/28/09	6.30	324.13	--	--	--	--	--	--	--	
	08/13/09	6.61	323.82	--	--	--	--	--	--	--	
	11/24/09	6.99	323.44	--	--	--	--	--	--	--	
	02/11/10	7.30	323.13	<50	<0.5	<0.5	<0.5	<0.5	29	1.16	
	06/04/10	6.00	324.43	---	---	---	---	---	---	---	
	08/12/10	6.30	324.13	---	---	---	---	---	---	---	
	11/30/10	6.95	323.48	---	---	---	---	---	---	---	
	02/21/11	7.25	323.18	<50	<0.5	<0.5	<0.5	<0.5	15	0.93	
	05/17/11	5.72	324.71	---	---	---	---	---	---	---	
	08/03/11	7.08	323.35	---	---	---	---	---	---	---	
	02/15/12	7.22	323.21	<50	<0.5	<0.5	<0.5	<0.5	13	1.03	
	08/25/12	7.85	322.58	--	--	--	--	--	--	--	
	02/26/13	6.48	323.95	<50	<0.5	<0.5	<0.5	<0.5	11	1.7	
	12/31/13	6.39	324.04	--	--	--	--	--	--	2.53	
	04/24/14	6.11	324.32	<50	<0.5	<0.5	<0.5	<0.5	8.6	0.12	
	09/16/14	6.98	323.45	--	--	--	--	--	--	--	
VW-2	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	
	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	---	---	---	---	---	---	---	
	02/21/11	4.06	326.11	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.03	
	05/17/11	3.58	326.59	---	---	---	---	---	---	---	
	08/03/11	7.01	323.16	---	---	---	---	---	---	---	
	02/15/12	4.62	325.55	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.62	
	08/25/12	6.89	323.28	--	--	--	--	--	--	--	
	02/26/13	6.30	323.87	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.7	
	12/31/13	6.00	324.17	--	--	--	--	--	--	0.42	
	04/24/14	6.53	323.64	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.00	
	09/16/14	7.60	322.57	--	--	--	--	--	--	--	
VW-3	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	4.40*	326.09	4,200	120	1.7	39	30	<25	0.10	
	11/24/06	6.15	324.34	7,600	310	9.9	270	420	<50	0.21	
	02/21/07	6.87	323.62	8,800	260	5.1	130	160	<90	0.29	
	05/15/07	7.13	323.36	5,600	270	6.9	110	110	<90	0.36	
	08/28/07	7.41	323.08	10,000	320	5.9	150	140	84	0.39	
	12/21/07	6.28	324.21	3,900	140	1.9	54	29	<50	0.66	
	02/26/08	6.09	324.40	5,600	270	4.5	68	130	<90	0.69	
	05/21/08	6.46	324.03	3,800	210	3.0	32	47	56	0.77	
	08/13/08	6.93	323.56	9,300	400	4.8	87	60	100	0.59	
	11/13/08	7.45	323.04	13,000	600	9.6	220	120	170	2.79	
	02/06/09	7.41	323.08	9,400	300	9.1	140	230	<150	2.16	
	05/28/09	5.93	324.56	--	--	--	--	--	--	--	
	08/13/09	6.40	324.09	--	--	--	--	--	--	--	
	11/24/09	6.75	323.74	--	--	--	--	--	--	--	
	02/11/10	6.08	324.41	4300	280	3.7	52	80	<120	1.77	

VW-3 (cont'd)	06/04/10	6.41	324.08	---	---	---	---	---	---	---	
	08/12/10	6.51	323.98	---	---	---	---	---	---	---	
	11/30/10	8.22	322.27	---	---	---	---	---	---	---	
	02/21/11	7.45	323.04	650	2.0	<0.5	<0.5	87	160	1.25	
	05/17/11	7.51	322.98	---	---	---	---	---	---	---	
	08/03/11	7.36	323.13	---	---	---	---	---	---	---	
	02/15/12	---	---				Well Dry				
	08/25/12	8.36	322.13	--	--	--	--	--	--	--	
	02/26/13	5.56	324.93	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.1	
	12/31/13	5.68	324.81	--	--	--	--	--	--	1.85	
	04/24/14	--	--				Well Dry				
	09/16/14	--	--				Well Dry				

Upper Shallow (AA-Zone) Wells

DPE-1	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	
331.01	11/30/10	10.47	320.54	760	18	1.6	25	87	460	0.97	
	02/21/11	9.91	321.10	1,100	29	1.1	5.3	97	540	0.73	
	05/17/11	10.21	320.80	1,200	31	2.4	62	65	670	0.69	
	08/03/11	10.28	320.73	1,400	54	1.7	160	42	680	0.73	
	02/15/12	10.71	320.30	770	18	2.2	20	37	250	0.69	
	08/25/12	10.21	320.80	690	26	0.95	27	78	270	0.86	
	02/26/13	10.42	320.59	380	16	2.3	9.8	49	160	2.6	
	12/31/13	10.42	320.59	130	2.7	1.6	<0.5	0.75	180	0.81	
	04/24/14	10.40	320.61	<50	<0.5	0.69	<0.5	<0.5	51	1.06	
	09/16/14	10.45	320.56	61	0.68	0.61	<0.5	<0.5	140	1.04	
DPE-2	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	
331.42	11/30/10	10.63	320.79	210	3.5	1.7	0.70	1.8	<25	1.40	
	02/21/11	9.83	321.59	<50	<0.5	<0.5	<0.5	<0.5	8.0	1.12	
	05/17/11	10.50	320.92	320	2.4	1.5	12	3.0	<15	1.34	
	08/03/11	10.62	320.80	840	4.5	3.5	24	5.4	<15	0.62	
	02/15/12	11.19	320.23	290	3.2	4.5	<0.5	1.1	<25	0.79	
	08/25/12	10.57	320.85	390	3.3	5.0	2.8	0.79	<10	0.97	
	02/26/13	10.83	320.59	210	1.7	5.5	<0.5	<0.5	<5.0	2.7	
	12/31/13	10.65	320.77	380	3.1	6.4	11	4.1	<10	0.65	
	04/24/14	10.66	320.76	140	<0.5	4.2	<0.5	<0.5	<5.0	0.00	
	09/16/14	10.95	320.47	120	0.86	2.4	<0.5	<0.5	<5.0	0.91	Naphthalene = <0.5 µg/L
MW-7AA	05/31/06	9.18	321.49	12,000	1,000	410	180	1,600	3,000 (21,00	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	6,000(42,00	0.24	
	11/24/06	9.84	320.83	27,000	3,400	1,100	1,300	3,400	37,000	0.33	
	02/21/07	9.60	321.07	18,000	2,400	670	200	2,800	41,000	0.58	
	05/15/07	10.20	320.47	11,000	1,500	200	520	1,100	47,000	0.49	
	08/28/07	10.20	320.47	4,500	720	13	73	100	18,000	0.33	
	12/21/07	10.09	320.58	3,700	550	32	74	330	12,000	0.58	
	02/26/08	8.96	321.71	5,400	970	7.2	320	100	15,000	0.74	
	05/21/08	10.28	320.39	22,000	2,700	19	940	440	28,000	0.71	
	08/13/08	10.38	320.29	3,900	510	<5.0	150	42	15,000	0.77	
	11/13/08	10.35	320.32	8,000	1,100	20	290	280	19,000	0.80	
	02/06/09	10.31	320.36	11,000	1,200	37	500	800	13,000	0.79	
	05/28/09	10.05	320.62	7,600	1,100	34	390	870	6,100	0.73	
	08/13/09	10.15	320.52	3,200	690	5.4	54	92	10,000	0.87	
	11/24/09	10.06	320.61	2,300	390	7.2	50	150	3,600	0.81	
	02/11/10	9.56	321.11	4,300	670	9.0	73	240	6,100	0.64	
	06/04/10	9.51	321.16	1,700	330	3.7	<1.7	120	4,200	0.61	
	08/12/10	9.63	321.04	1,600	400	3.0	50	7.0	3,100	0.70	After 2 months DPE.
	11/30/10	9.70	320.97	290	38	0.95	6.1	19	360	0.89	
	02/21/11	8.57	322.10	230	22	<0.5	<0.5	7.2	380	0.54	
	05/17/11	9.51	321.16	78	6.2	1.1	<0.5	<0.5	40	1.31	
	08/03/11	9.71	320.96	980	130	1.4	49	53	300	0.83	
	02/15/12	10.42	320.25	150	6.2	1.7	<0.5	<0.5	<60	0.86	
	08/25/12	9.74	320.93	110	<0.5	1.8	<0.5	<0.5	80	0.49	
	02/26/13	9.89	320.78	120	1.7	2.1	<0.5	<0.5	<100	2.5	
	12/31/13	9.99	320.68	120	1.3	2.5	<0.5	1.1	29	0.57	
	04/24/14	9.85	320.82	<50	<0.5	0.87	<0.5	<0.5	17	0.24	
	09/16/14	10.27	320.40	120	<0.5	2.2	<0.5	<0.5	16	0.86	

Shallow (A-Zone) Wells

MW-1	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					
	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	5,400 (6,300	0.46	TAME, TBA, DIPE, ETBE=ND
	07/07/06	12.60	321.09	--	--	--	--	--	--	--	
	08/17/06	11.93	321.76	<250	<2.5	<2.5	<2.5	<2.5	7,700 (9,100	0.43	
	11/24/06	13.01	320.68	<250	<2.5	<2.5	<2.5	<2.5	8,400	0.29	
	02/21/07	12.91	320.78	<50	<0.5	<0.5	<0.5	<0.5	3,600	0.24	
	05/15/07	13.40	320.29	<50	<0.5	<0.5	<0.5	<0.5	2,500	0.29	
	08/28/07	13.40	320.29	<50	<0.5	<0.5	<0.5	<0.5	170	0.40	
	12/21/07	13.40	320.29	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.68	
	02/26/08	12.60	321.09	<50	<0.5	<0.5	<0.5	<0.5	7.0	0.86	
	05/21/08	13.45	320.24	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.94	
	08/13/08	13.37	320.32	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.91	
	11/13/08	13.50	320.19	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.94	
	02/06/09	13.67	320.02	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.87	
	05/28/09	13.25	320.44	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.71	
	08/13/09	13.26	320.43	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.77	
	11/24/09	13.28	320.41	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.80	
	02/11/10	13.04	320.65	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.81	
	06/04/10	12.93	320.76	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.94	
	08/12/10	12.80	320.89	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.77	
	11/30/10	13.08	320.61	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.72	
	02/21/11	12.38	321.31	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.91	
	05/17/11	12.82	320.87	---	---	---	---	---	---	---	
	08/03/11	12.88	320.81	---	---	---	---	---	---	---	
	02/15/12	13.42	320.27	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.83	
	08/25/12	12.77	320.92	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.73	
	02/26/13	13.15	320.54	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.8	
	12/31/13	13.10	320.59	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.38	
	04/24/14	12.91	320.78	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.09	
	09/16/14	13.05	320.64	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.63	
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)		

MW-2 (cont'd)	02/21/05	7.55	321.74	<50	<0.5	<0.5	<0.5	<0.5	800 (1,100)	1.35	
	05/17/05	8.52	320.77	<50	<0.5	<0.5	<0.5	<0.5	160 (210)	1.06	
	08/17/05	8.16	321.13	<50	<0.5	<0.5	<0.5	<0.5	190 (210)	0.90	
	11/27/05	9.00	320.29	<50	<0.5	<0.5	<0.5	<0.5	200 (210)	0.92	
	02/21/06	8.51	320.78	<50	<0.5	<0.5	<0.5	<0.5	240 (270)	0.33/0.46	
329.48	06/01/06	8.50	320.98	<50	<0.5	<0.5	<0.5	<0.5	120 (110)	0.38	TAME, TBA, DIPE, ETBE=ND
	07/07/06	8.57	320.91	--	--	--	--	--	--	--	
	08/17/06	8.21	321.27	<50	<0.5	<0.5	<0.5	<0.5	230(230)	0.30	
	11/24/06	8.87	320.61	<50	<0.5	<0.5	<0.5	<0.5	760	0.24	
	02/21/07	8.80	320.68	<50	<0.5	<0.5	<0.5	<0.5	1,100	0.21	
	05/15/07	8.94	320.54	<50	<0.5	<0.5	<0.5	<0.5	1,400	0.25	
	08/28/07	8.83	320.65	<50	<0.5	<0.5	<0.5	<0.5	1,800	0.33	
	12/21/07	8.93	320.55	<50	<0.5	<0.5	<0.5	<0.5	1,700	0.49	
	02/26/08	8.49	320.99	<50	<0.5	<0.5	<0.5	<0.5	590	0.51	
	05/21/08	9.06	320.42	<50	<0.5	<0.5	<0.5	<0.5	230	0.67	
	08/13/08	8.89	320.59	<50	<0.5	<0.5	<0.5	<0.5	190	0.77	
	11/13/08	9.16	320.32	<50	<0.5	<0.5	<0.5	<0.5	77	0.86	
	02/06/09	9.39	320.09	<50	<0.5	<0.5	<0.5	<0.5	20	0.81	
	05/28/09	8.86	320.62	<50	<0.5	<0.5	<0.5	<0.5	12	0.74	
	08/13/09	8.81	320.67	<50	<0.5	<0.5	<0.5	<0.5	10	0.69	
	11/24/09	9.04	320.44	<50	<0.5	<0.5	<0.5	<0.5	13	0.80	
	02/11/10	7.50	321.98	<50	<0.5	<0.5	<0.5	<0.5	7.8	0.76	
	06/04/10	8.80	320.68	<50	<0.5	<0.5	<0.5	<0.5	6.5	0.82	
	08/12/10	8.61	320.87	<50	<0.5	<0.5	<0.5	<0.5	8.0	0.85	
	11/30/10	8.99	320.49	<50	<0.5	<0.5	<0.5	<0.5	6.8	0.93	
	02/21/11	8.46	321.02	<50	<0.5	<0.5	<0.5	<0.5	7.5	0.95	
	05/17/11	8.58	320.90	---	---	---	---	---	---	---	
	08/03/11	8.82	320.66	---	---	---	---	---	---	---	
	02/15/12	9.09	320.39	<50	<0.5	<0.5	<0.5	<0.5	7.2	1.31	
	08/25/12	8.72	320.76	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.74	
	02/26/13	8.90	320.58	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.1	
	12/31/13	8.81	320.67	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.41	
	04/24/14	8.85	320.63	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.00	
	09/16/14	8.88	320.60	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.90	
MW-3A	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	8,000(34,00	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	
	02/26/08	10.25	321.14	7,200	550	32	440	690	1,800	0.49	
	05/21/08	11.52	319.87	1,600	130	2.9	40	94	700	0.55	
	08/13/08	11.62	319.77	2,900	280	3.4	52	56	1,300	0.52	
	11/13/08	11.55	319.84	1,200	150	3.5	22	31	1,100	0.64	
	02/06/09	11.70	319.69	5,800	780	25	260	390	1,600	0.69	
	05/28/09	11.30	320.09	1,500	200	9.0	57	190	500	0.70	
	08/13/09	11.40	319.99	1,900	240	6.3	29	72	940	0.81	
	11/24/09	11.22	320.17	970	98	5.2	25	41	360	0.79	
	02/11/10	10.87	320.52	2,100	330	8.6	27	34	1,200	0.72	
	06/04/10	10.60	320.79	2,300	250	31	40	330	800	0.69	
	08/12/10	10.75	320.64	1,800	260	9.2	50	120	730	0.63	
	11/30/10	10.61	320.78	23,000	490	140	220	5,800	4,800	0.80	
	02/21/11	9.59	321.80	19,000	430	33	160	3,500	4,000	0.74	
	05/17/11	10.56	320.83	17,000	530	27	390	3,000	2,900	0.43	
	08/03/11	10.68	320.71	9,400	380	13	380	730	1,700	0.56	
	02/15/12	11.46	319.93	7,100	180	15	89	360	870	0.62	
	08/25/12	10.76	320.63	6,200	370	10	39	80	860	0.92	
	02/26/13	10.35	321.04	9,300	290	37	290	1,600	<450	1.0	Naphthalene = 240 µg/L
	12/31/13	10.30	321.09	22,000	290	25	400	3,000	<350	0.41	Naphthalene = 660 µg/L
	04/04/14	10.09	321.30	3,700	100	5.1	50	240	87	1.30/1.56	Post AS/BOC Naphthalene = 110 µg/L
	04/07/14	10.35	321.04	3,300	110	5.1	46	270	100	0.04/0.63	Naphthalene = 130 µg/L
	04/09/14	10.45	320.94	3,600	130	6.6	60	320	130	0.06/0.86	Naphthalene = 130 µg/L
	04/10/14	10.49	320.90	3,600	150	7.4	75	360	130	0.06/0.81	Naphthalene = 160 µg/L
	04/11/14	10.72	320.67	3,300	130	4.8	54	280	<180	0.14/0.33	Naphthalene = 150 µg/L
	04/18/14	10.65	320.74	3,700	140	7.2	72	280	130	0.00/1.09	
	04/24/14	10.79	320.60	3,300	100	7.6	54	230	120	0.00	Naphthalene = 170 µg/L
	09/16/14	11.44	319.95	10,000	330	78	380	1,700	270	0.80	Naphthalene = 350 µg/L
MW-4	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)		
	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					

MW-4 (cont'd)	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	
	05/15/07	11.24	321.40	--	--	--	--	--	--	--	
	08/28/07	11.42	321.22	--	--	--	--	--	--	0.52	
	12/21/07	11.26	321.38	--	--	--	--	--	--	0.81	
	02/26/08	10.12	322.52	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.06	
	05/21/08	11.30	321.34	--	--	--	--	--	--	0.98	
	08/13/08	11.23	321.41	--	--	--	--	--	--	0.71	
	11/13/08	10.93	321.71	--	--	--	--	--	--	--	
	02/06/09	10.98	321.66	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.67	
	05/28/09	10.96	321.68	--	--	--	--	--	--	--	
	08/13/09	11.23	321.41	--	--	--	--	--	--	--	
	11/24/09	11.15	321.49	--	--	--	--	--	--	--	
	02/11/10	10.17	322.47	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.69	
	06/04/10	10.52	322.12	---	---	---	---	---	---	---	
	08/12/10	10.72	321.92	---	---	---	---	---	---	---	
	11/30/10	10.75	321.89	---	---	---	---	---	---	---	
	02/21/11	9.29	323.35	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.61	
	05/17/11	10.37	322.27	---	---	---	---	---	---	---	
	08/03/11	10.49	322.15	---	---	---	---	---	---	---	
	02/15/12	11.18	321.46	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.89	
	08/25/12	10.83	321.81	--	--	--	--	--	--	--	
	02/26/13	11.00	321.64	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.7	
	12/31/13	11.15	321.49	--	--	--	--	--	--	0.73	
	04/24/14	10.90	321.74	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.06	
	09/16/14	11.59	321.05	--	--	--	--	--	--	--	
MW-5	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	
333.13	11/27/05	10.43	322.61			SAMPLED ANNUALLY				1.19	
	02/21/06	10.32	322.81	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.48/0.76	
	05/29/06	10.41	322.72			SAMPLED ANNUALLY				--	
	07/07/06	10.46	322.67	--	--	--	--	--	--	--	
	08/17/06	10.49	324.19	--	--	--	--	--	--	--	
	11/24/06	10.92	322.21	--	--	--	--	--	--	0.27	
	02/21/07	10.90	322.23	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.73	
	05/15/07	10.97	322.16	--	--	--	--	--	--	--	
	08/28/07	11.07	322.06	--	--	--	--	--	--	0.55	
	12/21/07	10.80	322.33	--	--	--	--	--	--	0.97	
	02/26/08	10.38	322.75	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.01	
	05/21/08	10.97	322.16	--	--	--	--	--	--	0.95	
	08/13/08	10.98	322.15	--	--	--	--	--	--	0.99	
	11/13/08	11.01	322.12	--	--	--	--	--	--	--	
	02/06/09	11.05	322.08	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.82	
	05/28/09	10.80	322.33	--	--	--	--	--	--	--	
	08/13/09	10.90	322.23	--	--	--	--	--	--	--	
	11/24/09	10.96	322.17	--	--	--	--	--	--	--	
	02/11/10	10.50	322.63	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.80	

MW-5 (cont'd)	06/04/10	10.68	322.45	---	---	---	---	---	---	---	
	08/12/10	10.61	322.52	---	---	---	---	---	---	---	
	11/30/10	10.68	322.45	---	---	---	---	---	---	---	
	02/21/11	10.35	322.78	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.78	
	05/17/11	10.56	322.57	---	---	---	---	---	---	---	
	08/03/11	10.66	322.47	---	---	---	---	---	---	---	
	02/15/12	10.82	322.31	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.02	
	08/25/12	10.70	322.43	--	--	--	--	--	--	--	
	02/26/13	10.65	322.48	<50	<0.5	<0.5	<0.5	<0.5	7.0	2.7	
	12/31/13	10.91	322.22	--	--	--	--	--	--	0.49	
	04/24/14	10.88	322.25	<50	<0.5	<0.5	<0.5	<0.5	5.5	0.09	
	09/16/14	11.43	321.70	--	--	--	--	--	--	--	
MW-6A	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	
	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	
	02/21/11	9.79	322.02	8,100	330	93	340	1,700	<35	0.62	
	05/17/11	10.78	321.03	16,000	870	75	780	2,500	<19	0.83	
	08/03/11	10.92	320.89	6,000	620	24	340	830	<50	0.47	
	02/15/12	11.95	319.86	13,000	480	49	580	1,300	<50	0.78	
	08/25/12	11.20	320.61	7,000	220	34	200	840	<50	0.47	
	02/26/13	11.90	319.91	5,700	430	31	190	730	<50	0.97	Naphthalene = 310 µg/L
	12/31/13	11.02	320.79	7,100	460	20	150	520	<80	0.61	Naphthalene = 330 µg/L
	04/04/14	10.28	321.53	920	94	2.7	9.8	35	3.2	2.44/0.97	Post AS/BOC Naphthalene = 25 µg/L
	04/07/14	10.44	321.37	1,000	130	3.1	5.3	42	<10	0.30/0.18	Naphthalene = 67 µg/L
	04/09/14	11.10	320.71	940	150	2.6	12	39	<10	0.34/3.11	Naphthalene = 35 µg/L
	04/10/14	10.75	321.06	800	140	2.4	12	50	<10	0.09/1.08	Naphthalene = 39 µg/L
	04/11/14	10.72	321.09	1,000	150	2.4	10	50	<10	0.02/1.41	Naphthalene = 46 µg/L
	04/18/14	10.94	320.87	920	160	2.9	13	43	<10	0.52/0.98	
	04/24/14	11.09	320.72	960	150	1.7	9.0	26	<10	0.00	Naphthalene = 68 µg/L
	09/16/14	11.89	319.92	1,200	100	4.2	23	70	<25	0.66	Naphthalene = 63 µg/L
MW-7A	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	
	05/15/07	10.15	320.56	<50	<0.5	<0.5	<0.5	<0.5	45	0.40	
	08/28/07	10.09	320.62	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.42	
	12/21/07	10.00	320.71	3,200	180	38	100	410	890	0.68	
	02/26/08	8.78	321.93	1,300	150	1.8	59	99	410	0.90	
	05/21/08	10.16	320.55	200	18	<0.5	3.3	<0.5	30	0.75	
	08/13/08	10.27	320.44	<50	<0.5	<0.5	<0.5	<0.5	24	0.81	
	11/13/08	10.27	320.44	<50	<0.5	<0.5	<0.5	<0.5	30	0.85	
	02/06/09	10.22	320.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.83	
	05/28/09	9.91	320.80	--	--	--	--	--	--	--	
	08/13/09	9.98	320.73	--	--	--	--	--	--	--	
	11/24/09	9.93	320.78	--	--	--	--	--	--	--	
	02/11/10	9.39	321.32	360	75	0.83	4.8	62	200	0.90	
	06/04/10	9.43	321.28	---	---	---	---	---	---	---	
	08/12/10	9.50	321.21	---	---	---	---	---	---	---	
	11/30/10	9.73	320.98	---	---	---	---	---	---	---	
	02/21/11	8.37	322.34	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.87	
	05/17/11	9.33	321.38	---	---	---	---	---	---	---	
	08/03/11	9.58	321.13	---	---	---	---	---	---	---	
	02/15/12	10.54	320.17	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.85	
	08/25/12	9.66	321.05	--	--	--	--	--	--	--	
	02/26/13	9.77	320.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0	3.0	
	12/31/13	9.94	320.77	--	--	--	--	--	--	0.49	
	04/07/14	9.30	321.41	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.10/0.01	Post AS/BOC Naphthalene = <0.5
	04/10/14	9.45	321.26	<50	0.56	<0.5	<0.5	<0.5	10	0.01/0.00	Naphthalene = <0.5
	04/24/14	9.82	320.89	<50	<0.5	<0.5	<0.5	<0.5	5.9	0.00	
	09/16/14	10.50	320.21	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.50	Naphthalene = <0.5

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	
	05/15/07	10.05	321.14	<50	<0.5	<0.5	<0.5	<0.5	13	0.33	
	08/28/07	9.83	321.36	<50	<0.5	<0.5	<0.5	<0.5	19	0.35	
	12/21/07	10.36	320.83	<50	<0.5	<0.5	<0.5	<0.5	16	0.61	
	02/26/08	8.33	322.86	<50	<0.5	<0.5	<0.5	<0.5	38	0.77	
	05/21/08	9.99	321.20	<50	<0.5	<0.5	<0.5	<0.5	13	0.81	
	08/13/08	10.49	320.70	<50	<0.5	<0.5	<0.5	<0.5	68	0.65	
	11/13/08	10.39	320.80	<50	<0.5	<0.5	<0.5	<0.5	110	0.68	
	02/06/09	10.42	320.77	<50	<0.5	<0.5	<0.5	<0.5	75	0.70	
	05/28/09	9.90	321.29	<50	<0.5	<0.5	<0.5	<0.5	36	0.66	
	08/13/09	9.78	321.41	<50	<0.5	<0.5	<0.5	<0.5	68	0.74	
	11/24/09	9.76	321.43	<50	<0.5	<0.5	<0.5	<0.5	66	0.71	
	02/11/10	9.33	321.86	<50	<0.5	<0.5	<0.5	<0.5	56	0.63	
	06/04/10	8.95	322.24	<50	<0.5	<0.5	<0.5	<0.5	30	0.69	
	08/12/10	9.24	321.95	<50	<0.5	<0.5	<0.5	<0.5	28	0.75	
	11/30/10	13.19	318.00	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.69	
	02/21/11	12.65	318.54	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.68	
	05/17/11	9.44	321.75	---	---	---	---	---	---	---	
	08/03/11	9.14	322.05	---	---	---	---	---	---	---	
	02/15/12	9.33	321.86	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.91	
	08/25/12	13.25	317.94	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.40	
	02/26/13	11.86	319.33	<50	<0.5	<0.5	<0.5	<0.5	<5.0	4.3	
	12/31/13	10.91	320.28	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.56	
	04/24/14	11.80	319.39	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.53	
	09/16/14	10.70	320.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.05	Naphthalene = <0.5 µg/L
MW-9A	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	
	05/15/07	10.81	320.36	86	<0.5	<0.5	<0.5	<0.5	31	0.45	
	08/28/07	11.11	320.06	95	<0.5	1.4	<0.5	<0.5	10	0.38	
	12/21/07	10.76	320.41	120	<0.5	2.9	<0.5	0.51	9.5	0.50	
	02/26/08	9.71	321.46	120	<0.5	1.2	<0.5	<0.5	9.5	0.86	
	05/21/08	10.75	320.42	86	<0.5	<0.5	<0.5	<0.5	6.3	0.84	
	08/13/08	11.31	319.86	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.76	
	11/13/08	11.14	320.03	52	<0.5	<0.5	<0.5	<0.5	5.5	0.63	
	02/06/09	11.16	320.01	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.61	
	05/28/09	10.75	320.42	--	--	--	--	--	--	--	
	08/13/09	10.65	320.52	--	--	--	--	--	--	--	
	11/24/09	10.48	320.69	--	--	--	--	--	--	--	
	02/11/10	10.16	321.01	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.63	
	06/04/10	9.80	321.37	---	---	---	---	---	---	---	
	08/12/10	10.08	321.09	---	---	---	---	---	---	---	
	11/30/10	10.10	321.07	---	---	---	---	---	---	---	
	02/21/11	9.45	321.72	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.73	
	05/17/11	10.07	321.10	---	---	---	---	---	---	---	
	08/03/11	10.38	320.79	---	---	---	---	---	---	---	
	02/15/12	11.52	319.65	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.73	
	08/25/12	10.78	320.39	--	--	--	--	--	--	--	
	02/26/13	11.00	320.17	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.0	
	12/31/13	11.21	319.96	--	--	--	--	--	--	0.61	
	04/24/14	11.11	320.06	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.03	
	09/16/14	12.03	319.14	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.07	Naphthalene = <0.5 µg/L
MW-10A	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	
	05/15/07	9.22	320.71	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.30	
	08/28/07	8.44	321.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.35	
	12/21/07	8.81	321.12	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.47	
	02/26/08	7.34	322.59	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.70	
	05/21/08	9.22	320.71	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.64	
	08/13/08	9.25	320.68	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.61	
	11/13/08	9.47	320.46	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.70	
	02/06/09	9.50	320.43	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.68	
	05/28/09	9.11	320.82	--	--	--	--	--	--	--	
	08/13/09	9.21	320.72	--	--	--	--	--	--	--	
	11/24/09	9.26	320.67	--	--	--	--	--	--	--	
	02/11/10	8.35	321.58	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.64	
	06/04/10	8.73	321.20	---	---	---	---	---	---	---	
	08/12/10	8.85	321.08	---	---	---	---	---	---	---	
	11/30/10	9.02	320.91	---	---	---	---	---	---	---	
	02/21/11	7.78	322.15	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.70	
	05/17/11	11.61	318.32	---	---	---	---	---	---	---	

MW-10A (cont'd)	08/03/11	11.39	318.54	---	---	---	---	---	---	---	
	02/15/12	9.68	320.25	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.26	
	08/25/12	9.11	320.82	--	--	--	--	--	--	--	
	02/26/13	9.16	320.77	<50	<0.5	<0.5	<0.5	<0.5	<5.0	3.0	
	12/31/13	9.32	320.61	--	--	--	--	--	--	0.70	
	04/24/14	9.10	320.83	<50	<0.5	<0.5	<0.5	0.54	<5.0	0.07	
	09/16/14	9.42	320.51	--	--	--	--	--	--	--	

Intermediate-Depth (B-zone) Wells

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	
	05/15/07	9.21	321.69	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.31	
	08/28/07	9.60	321.30	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.51	
	12/21/07	9.42	321.48	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.82	
	02/26/08	7.87	323.03	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.80	
	05/21/08	9.37	321.53	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.87	
	08/13/08	9.70	321.20	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.81	
	11/13/08	9.62	321.28	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.78	
	02/06/09	9.53	321.37	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.71	
	05/28/09	9.23	321.67	--	--	--	--	--	--	--	
	08/13/09	9.63	321.27	--	--	--	--	--	--	--	
	11/24/09	9.63	321.27	--	--	--	--	--	--	--	
	02/11/10	8.41	322.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.68	
	06/04/10	8.72	322.18	---	---	---	---	---	---	---	
	08/12/10	9.10	321.80	---	---	---	---	---	---	---	
	11/30/10	9.02	321.88	---	---	---	---	---	---	---	
	02/21/11	8.11	322.79	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.66	
	05/17/11	8.83	322.07	---	---	---	---	---	---	---	
	08/03/11	9.16	321.74	---	---	---	---	---	---	---	
	02/15/12	9.83	321.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.91	
	08/25/12	9.81	321.09	--	--	--	--	--	--	--	
	02/26/13	9.41	321.49	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.1	
	12/31/13	9.88	321.02	--	--	--	--	--	--	0.68	
	04/24/14	9.64	321.26	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.25	
	09/16/14	10.38	320.52	--	--	--	--	--	--	--	
MW-7B	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	
	02/21/07	9.44	321.25	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.29	
	05/15/07	9.97	320.72	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.33	
	08/28/07	9.96	320.73	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.51	
	12/21/07	9.87	320.82	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.53	
	02/26/08	8.64	322.05	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.59	
	05/21/08	10.05	320.64	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.56	
	08/13/08	10.17	320.52	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.51	
	11/13/08	10.15	320.54	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.53	
	02/06/09	10.18	320.51	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.55	
	05/28/09	9.80	320.89	--	--	--	--	--	--	--	
	08/13/09	9.89	320.80	--	--	--	--	--	--	--	
	11/24/09	9.85	320.84	--	--	--	--	--	--	--	
	02/11/10	9.24	321.45	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.81	
	06/04/10	9.35	321.34	---	---	---	---	---	---	---	
	08/12/10	9.37	321.32	---	---	---	---	---	---	---	
	11/30/10	9.80	320.89	---	---	---	---	---	---	---	
	02/21/11	8.69	322.00	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.85	
	05/17/11	9.23	321.46	---	---	---	---	---	---	---	
	08/03/11	9.42	321.27	---	---	---	---	---	---	---	
	02/15/12	10.18	320.51	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.73	
	08/25/12	9.64	321.05	--	--	--	--	--	--	--	
	02/26/13	9.70	320.99	<50	<0.5	<0.5	<0.5	<0.5	<5.0	5.0	
	12/31/13	9.90	320.79	--	--	--	--	--	--	4.62	
	04/24/14	9.74	320.95	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.00	
	09/16/14	10.32	320.37	--	--	--	--	--	--	--	

Deep (C-Zone) Wells

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-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-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-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	

Destroyed Wells

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	7,000 (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	5,000 (70,000)		
	12/15/04	11.97	320.89	33,000	1,700	430	1,300	7,000	0,000 (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	2,000 (47,00	0.93	
	11/27/05	12.29	320.72	--	--	--	--	--	--	--	0.19 SPH
	02/21/06	11.73	321.28	--	--	--	--	--	--	--	0.19 SPH
	03/30/06	--	--	--		**Well Destroyed**		--	--	--	Well Destroyed
EA-1	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

EA-1 (cont'd)	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		
	02/28/02	--	--	--	--	--	--	--	--		Inaccessible
	05/22/02	9.05	322.16	110	<1.0	<0.50	1	<1.5	<2.5		
	08/20/02	9.21	322	410	2.6	<0.50	8.5	29	<5.0		
	11/11/02	9.01	322.2	3,800	<0.50	1.3	17	47	<5.0		
	05/08/03	8.23	322.98	1,700	11	0.97	63	161	<2.0		
	12/15/04	--	--	--	--	--	--	--	--		Inaccessible
	02/21/05	--	--	--	--	--	--	--	--		Inaccessible
	05/17/05	--	--	--	--	--	--	--	--		Inaccessible
	08/17/05	--	--	--	--	--	--	--	--		Inaccessible
	11/27/05	--	--	--	--	--	--	--	--		Inaccessible
	02/21/06	--	--	--	--	--	--	--	--		Inaccessible
	03/31/06	--	--	--		**Well Destroyed**		--	--	--	Well Destroyed
EA-2	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		
	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					

EA-2 (cont'd)	11/27/01	9.5	320.91			SAMPLED ANNUALLY						
	02/28/02	9.05	321.36	<50	<0.50	<0.50	<0.5	<1.5	74			
	05/22/02	9.04	321.37			SAMPLED ANNUALLY						
	08/20/02	9	321.41			SAMPLED ANNUALLY						
	11/11/02	9.03	321.38			SAMPLED ANNUALLY						
	05/08/03	7.26	323.15	<50	<0.5	<0.5	<0.5	<0.5	2.2/0.9			
	12/15/04	8.96	321.45	<50	<0.5	<0.5	<0.5	<0.5	<5.0			
	02/21/05	7.20	323.21	<50	<0.5	<0.5	<0.5	<0.5	13 (11)	0.64		
	05/17/05	8.21	322.20			SAMPLED ANNUALLY				0.77		
	08/17/05	7.97	322.44			SAMPLED ANNUALLY				0.85		
	11/27/05	9.83	320.58			SAMPLED ANNUALLY				0.84		
	02/21/06	8.78	321.63	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.51/0.68		
	03/28/06	--	--	--		**Well Destroyed**		--	--	--	Well Destroyed	
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			
	09/26/94	10.72	322.92	<50	<0.5	<0.5	<0.5	<0.5	--			
	10/04/94	10.68	322.96	<50	<0.5	<0.5	<0.5	0.7	--			
	11/30/94	9.66	323.98	170	6.1	3	6.5	28	--			
	03/02/95	9.92	321.38	<50	<0.5	<0.5	<0.5	<0.5	--			
	06/07/95	9.72	321.58	<50	<0.5	<0.5	<0.5	<0.5	3.2			
	09/26/95	10.6	320.7	2,000	140	<5.0	<5.0	190	280			
	12/28/95	9.82	321.48	<50	<0.5	<0.5	<0.5	<0.5	26			
	02/29/96	8.28	323.02	<50	2.1	<0.5	2.5	6	31			
	06/27/96	9.91	321.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5			
	09/12/96	10.59	320.91	13,000	<20	<20	<20	<20	48			
	03/31/97	--	--	--	--	--	--	--	--		Inaccessible	
	04/15/97	10.25	321.25	<125	2	<1.2	<1.2	<1.2	680			
	12/23/98	--	--	--	--	--	--	--	--		Inaccessible	
	03/25/99	--	--	--	--	--	--	--	--		Inaccessible	
	02/03/00	--	--	--	--	--	--	--	--		Inaccessible	
	01/23/01	10.31	321.19	862 (1)	3.97	1.15	18.9	48.6	289			
	05/01/01	10.15	321.35			SAMPLED SEMI-ANNUALLY						
	08/28/01	10.56	320.94	<50	<0.5	<0.5	<0.5	<0.5	37			
	11/27/01	10.65	320.85			SAMPLED SEMI-ANNUALLY						
	02/28/02	10.37	321.13	<50	1.3	<0.50	2	1.8	90			
	05/22/02	10.27	321.23			SAMPLED SEMI-ANNUALLY						
	08/20/02	10.3	321.2	<50	<0.50	<0.50	<0.50	<1.5	40			
	11/11/02	9.05	322.45			SAMPLED SEMI-ANNUALLY						
	05/08/03	8.83	322.67	<50	<0.5	<0.5	<0.5	<0.5	39/37			
	12/15/04	10.39	321.11	<50	<0.5	<0.5	<0.5	<0.5	18 (17)			
	02/21/05	8.80	322.70	<50	<0.5	<0.5	2.3	1.4	180 (290)	0.69		
	05/17/05	9.57	321.93	140	0.68	<0.5	6.6	0.94	250 (340)	0.86		
	08/17/05	9.23	322.27	3,800	11	3.7	110	24	200 (200)	0.99		
	11/27/05	11.05	320.45	150	<0.5	1.8	2.4	0.56	88 (85)	0.81		
	02/21/06	10.10	321.40	83	<0.5	0.72	1.7	<0.5	40 (49)	0.38/0.65		
	04/03/06	--	--	--		**Well Destroyed**		--	--	--	Well Destroyed	

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 = 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

APPENDIX A

Regulatory Letter

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Director

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

November 3, 2014

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

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

Carryl MacLeod
Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
(Sent via E-mail to: cmacleod@chevron.com)

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

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

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above referenced site including the most recent document entitled, "*Workplan for Additional Assessment,*" dated October 24, 2014 (Work Plan). The Work Plan, which was prepared by Pangea Environmental Services on behalf of Hooshang Hadjian, presents plans for soil and groundwater sampling to evaluate whether the site is eligible for closure under the State Water Resources Control Board (SWRCB) Low-Threat Closure Policy (LTCP). .

The proposed scope of work is conditionally approved and may be implemented provided that the technical comments below are addressed and incorporated during the proposed site investigation activities. Submittal of a revised Work Plan is not required unless an alternate scope of work outside that described in the Work Plan and technical comments below is proposed. We request that you address the following technical comments, perform the proposed work, and send us the reports described below. Please see technical comment 3 regarding potential soil vapor sampling.

TECHNICAL COMMENTS

1. **Proposed On-site Soil Borings SB-3 and SB-4.** Two on-site soil borings (SB-3 and SB-4) are proposed to evaluate soil conditions with respect to the LTCP criteria. The locations and depth of the two proposed soil borings are acceptable. We request that soil samples be collected for laboratory analysis at a minimum of two depths within the upper five feet and a minimum of one depth between 5 and 10 feet bgs. Soil samples are to be collected for laboratory analysis from any interval where staining, odor, or elevated PID readings are observed. If no staining, odor, or elevated PID readings are observed, we request that soil samples be collected from 1.5 to 2.0 feet bgs, 3.5 to 4.0 feet bgs, and 7.5 to 8.0 feet bgs.

2. **Groundwater Sampling.** Grab groundwater sampling is proposed in three off-site borings to define the extent of groundwater contamination. The proposed boring locations are acceptable. We request the grab groundwater samples be collected from a driven Hydopunch type sampler or from a screened PVC pipe placed in the borehole. Grab groundwater samples are not to be collected from an open borehole.

3. **Soil Vapor.** The LTCP does not require soil vapor sampling at active commercial fueling facilities unless an unacceptable health risk can reasonably be expected. No unacceptable health risks are likely to exist for the current active commercial service station. Therefore, ACEH is not requesting soil vapor sampling at the site. However, the site may be closed with a land use restriction and soil vapor sampling is expected to be necessary if the site is to be redeveloped in the future for residential land use. If site redevelopment to a more conservative land use is expected in the near term, you may submit a Work Plan Addendum for soil vapor sampling to assess this future pathway. Since the soil vapor sampling is not a regulatory requirement under the current land use, the costs for soil vapor sampling are not expected to be eligible for reimbursement by the Underground Storage Tank Cleanup Fund.

TECHNICAL REPORT REQUEST

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

- **January 15, 2015** – Groundwater Monitoring Report – Second Half 2014
  File to be named: GWM_R_yyyy-mm-dd RO304

- **March 5, 2015** – Site Assessment Report
  File to be named: SWI_R_yyyy-mm-dd RO304

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

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

Sincerely,

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

Attachments: Responsible Party(ies) Legal Requirements/Obligations

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

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

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

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

GeoTracker, eFile

Attachment 1

Responsible Party(ies) Legal Requirements / Obligations

REPORT REQUESTS

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

ELECTRONIC SUBMITTAL OF REPORTS

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

PERJURY STATEMENT

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

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

UNDERGROUND STORAGE TANK CLEANUP FUND

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

AGENCY OVERSIGHT

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

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

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

REQUIREMENTS

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

  RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

1) Obtain User Name and Password
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to deh.loptoxic@acgov.org
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for**.

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
      (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
   b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
   c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to deh.loptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
   d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

APPENDIX B

Standard Operating Procedures

STANDARD FIELD PROCEDURES FOR SOIL BORINGS

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

Objectives

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

Soil Classification/Logging

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

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

Soil Boring and Sampling

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

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

Sample Storage, Handling and Transport

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

Field Screening

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

Water Sampling

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

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

Duplicates and Blanks

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

Grouting

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

Waste Handling and Disposal

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

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

APPENDIX C

Permits

ZONE 7 WATER AGENCY

100 NORTH CANYONS PARKWAY, LIVERMORE, CALIFORNIA 94551 VOICE (925) 454-5000 FAX (925) 245-9306
E-MAIL whong@zone7water.com

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 7240 Dublin Boulevard
Dublin, CA

Coordinates Source _____ ft. Accuracy _____ ft.
LAT: 37.71 ft. LONG: -121.92 ft.
APN 941-1401-19

CLIENT
Name Hooshang Hadjian
Address 1821 Cattle Gate Road Phone _____
City Walnut Creek Zip 94595

APPLICANT
Name Pangea Environmental Services Inc.
Email edeutsch@pangeaenv.com Fax 510-836-3709
Address 1710 Franklin St #200 Phone 510-836-3700
City Oakland Zip 94612

TYPE OF PROJECT:

Well Construction	—	Geotechnical Investigation	
Well Destruction	—	Contamination Investigation	X
Cathodic Protection	—	Other	—

PROPOSED WELL USE:

Domestic	—	Irrigation	—
Municipal	—	Remediation	—
Industrial	—	Groundwater Monitoring	—
Dewatering	—	Other	—

DRILLING METHOD:

Mud Rotary	—	Air Rotary	—	Hollow Stem Auger	—
Cable Tool	—	Direct Push	X	Other	—

DRILLING COMPANY Vapor Tech Services
DRILLER'S LICENSE NO. 916085

WELL SPECIFICATIONS:
Drill Hole Diameter _____ in. Maximum
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number _____

SOIL BORINGS:
Number of Borings 5 Maximum
Hole Diameter 2.25 in. Depth 17 ft.

ESTIMATED STARTING DATE February 23, 2015
ESTIMATED COMPLETION DATE February 23, 2015

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE _____ Date 01/22/15

FOR OFFICE USE

PERMIT NUMBER 2015020
WELL NUMBER _____
APN 941-1401-019-00

PERMIT CONDITIONS
(Circled Permit Requirements Apply)

A. GENERAL
(1.) A permit application should be submitted so as to arrive at the Zone 7 office five days prior to your proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original **Department of Water Resources Water Well Drillers Report (DWR Form 188), signed by the driller.**
(3.) Permit is void if project not begun within 90 days of approval date.
(4.) **Notify Zone 7 at least 24 hours before the start of work.**

B. WATER SUPPLY WELLS
1. Minimum surface seal diameter is four inches greater than the well casing diameter and six inches for public wells.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
3. Grout placed by tremie.
4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
5. A sample port is required on the discharge pipe near the wellhead.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
3. Grout placed by tremie.

D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

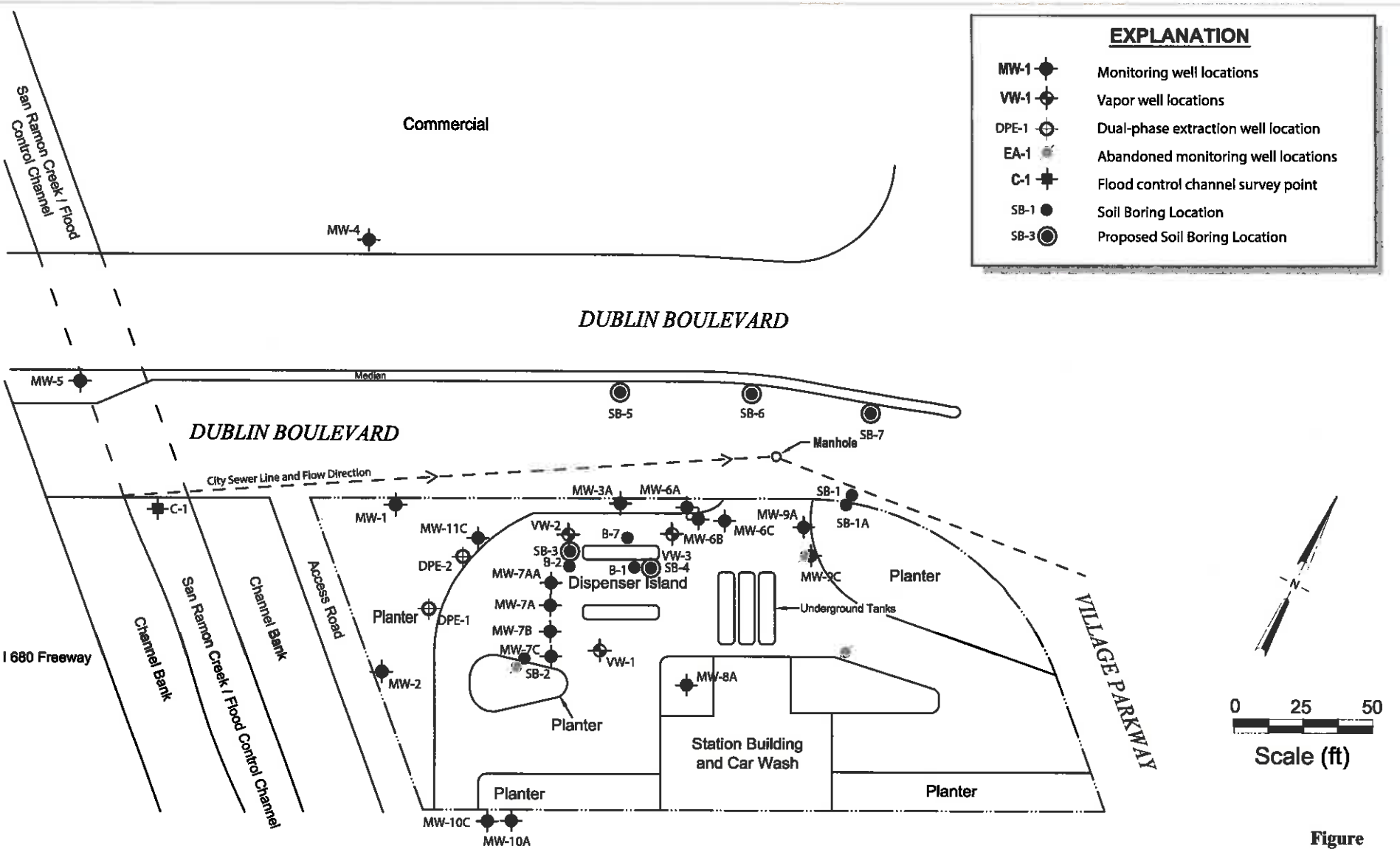
F. WELL DESTRUCTION. See attached.

(G.) SPECIAL CONDITIONS. Submit to Zone 7 within 60 days after completion of permitted work the well installation report **including all soil and water laboratory analysis results.**

Approved Wyman Hong Date 2/17/15
Wyman Hong

ATTACH SITE PLAN OR SKETCH

Revised: May 17, 2011



Figure

2

Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California

PANGEA

Proposed Soil Boring Locations

1504802-1 0004 02/17/2015 002 121
Permit Real Time 006705 $478.00

CITY OF DUBLIN
Public Works

Permit No.: **PWEN-2015-00011**

Application Date: **01/30/2015**

Issue Date: **02/13/2015**

Permit Type: **PW ENCROACHMENT PERMIT**

Inspection Requests Require 24 Hour Notice
BLD (925) 833-6620 FIRE (925) 833-6606 PUBLIC WORKS (925) 833-6630

Site Address:	7240 DUBLIN BLVD DUBLIN CA 94568-2455	**Parcel / APN:**	941-1401-019-00
Owner:	CITY OF DUBLIN - PUBLIC WORKS	**Phone:**	(925) 833-6630
Address:	100 CIVIC PLZ DUBLIN CA 94568-2658	**Fax:**	(925) 829-9248
Contractor:	PANGEA ENVIRONMENTAL SERVICES IN(	**Phone:**	(510) 836-3700
Address:	1710 FRANKLIN ST SUITE 200 OAKLAND, CA 94612	**Fax:** **Lic. Exp. Date:** **Business Lic#:**	(510) 836-3709 09/30/2015 BL-109280
Contact:	BOB CLARK-RIDDELL	**Phone:**	(510) 836-3700

Description: Advance 3 borings (SB-5, SB-6 & SB-7) to approximately 17 feet on or beside the median on Dublin Blvd to collect soil and groundwater samples. All traffic control shall comply with current Caltrans standards per approved plans. Lane closure hours permitted from the hours of 6:30am to 11:00 am. All USA markings that are part of this project MUST be removed by permittee within 5 days of the completion of work.

SUPPLEMENTAL INFORMATION:

TRENCH SQUARE FEET	17
MISC WORK HOURS	1
PW INSPECTOR	ROEHL- (925)766-1152

FEES:

ENCROACHMENT FEE	104.00	ADDITIONAL ENCROACHMENT FEE	374.00

TOTAL FEES: **478.00**

I hereby have read and agree to the City of Dublin provisions and conditions outlined in this permit:

Signature of Permittee

City Engineer

This permit may be revoked at any time at the option of the Director of Public Works, If permittee fails to comply with or violate any City Ordinance, City Standard, safety regulations or any condition of the issuance of the permit.

Permit No.: **PWEN-2015-00011**

CONDITIONS

1. Permittee shall provide and keep a current certificate of Public Liability and Workers Compensation Insurance which names the City of Dublin and its employees and its agents as additional insured.
2. Worksites left in an unsafe condition will be secured by the City Maintenance Department and the cost will be charged to the permittee.
3. Permittee shall remove all U.S.A markings upon completion of the project.
4. All traffic control shall meet current City of Dublin and Caltrans standards and needs approval prior to start of the project.
5. Permittee shall contact Public Works Inspector for all required inspections (i.e. traffic control, backfill, concrete form, etc.)
6. Prosecution of Work: All work authorized by the permit shall be performed in a workman like, diligent, and expeditious manner, and must be complete to the satisfaction of the City Engineer.
7. Liability and Damage: The permittee shall be responsible for all liability imposed by law for personal injury or damage which may arise out of the work permitted and done by permittee under this permit, or which arise out of failure on the part of the permittee to perform his obligations under said permit in respect to maintenance and encroachment. The permittee shall protect and indemnify the City of Dublin, its officers and employees, and save them harmless in every way from all action by law for damage or injury to persons or property that may arise out of or be occasioned in any way because of his operations as provided in this permit.
8. The permittee shall begin work as authorized under this permit within 90 days from the start of issuance, unless a different date is stated in the permit. If the work is not begun within 90 days of the time stated in the permit, the permit shall become void. The permit shall be valid for a term of one year from the date of issuance, or as otherwise stated on the permit unless discontinued by the use or removal of the encroachment for which the permit was issued. (City of Dublin Municipal Code Chapter 7.04)
9. This permit is issued only for that portion of work in the City of Dublin right-of-way.
10. The permittee shall notify Underground Service Alert (U.S.A.) at 800/227-2600 prior to excavation. All underground contractors must have U.S.A. inquiry identification number.
11. Permittee is hereby cautioned that unless otherwise noted herein, traffic signal detector loops, wiring, etc., and irrigation facilities shall not be disturbed. Request marking from City of Dublin Public Works Department at 925/833-6630.
12. All excavations shall conform to the requirements of the State of California Division of Industrial Safety.
13. Permittee shall furnish all safeguards for pedestrians and post warning signs in advance of work area for vehicular traffic and shall clear the roadway of any obstructions or debris at the end of each work day. All safety devised shall conform to the latest edition of the State of California "Manual of Warning Signs, Lights, and Devices for Use in Performance.
14. No public road under the jurisdiction of the City of Dublin shall be closed to travel by the general public without special permission of the City Engineer in writing. No lane closures will be allowed between 6:00 a.m. and 9:00 a.m. or between 3:30 p.m. and 6:30 p.m. At other times, at least one lance of traffic shall be kept open to the general public.
15. The pavement shall be sawed 12" outside the edges of the trench excavation in order to leave a smooth contour of the pavement surface. Cutting with air tools or other devices leaving jagged edges shall not be permitted.
16. No more than 300 linear feet of continuous excavation shall be opened at one time.
    a. Excavate only that length of trench which can be backfilled the same day.
    b. Except for bedding or shading requirements by utilities Class II Aggregate Base is the only acceptable backfill material.
17. Backfill shall be placed in accordance with the current "State of California Department of Transportation Standard Specification." The structural section of the upper _____ inches of the trench backfill within the paved areas shall be _____ inches A.C. on _____ inches A.B. on _____ inches A.S.B.
18. Metal plates of sufficient thickness for legal load traffic or temporary paving 1-1/2" minimum thickness shall be placed at the end of each work day. Sidewalk construction areas shall be left in a safe condition.
19. Material excavated from within the City road right-of-way under this permit shall be removed from within the right-of-way and disposed of in a legal manner.
20. The right-of-way shall be left clean and orderly to the satisfaction of the City Engineer or his representative. The permittee shall give particular attention to maintaining the project in a dust-free condition while performing the various items of work and during non-working periods, including weekends.
21. All work shall be done in accordance with the provisions of the Clean Water Act, which protects the storm drain system. No dirt, rock debris, concrete or other materials or fluids will be allowed to enter the storm drain system during the course of work on this permit.
22. Final asphalt concrete surfacing shall be placed within 5 days of completion of each 300 lineal feet of excavation. If the edges of the trench have raveled prior to final surfacing, the edges shall be resawn.
23. Line and grade shall be left to the satisfaction of the City Engineer. All work shall conform to the current "State of California Department of Transportation Standard Specifications" and City requirements, and the City Inspector shall be notified at 925/833-6630 24 hours prior to pouring concrete.
    a. Line and grade shall conform to grade of existing curb.
    b. Line and grade shall conform to adjacent sidewalk.
    c. Line and grade shall conform to plans prepared by _____ attached hereto and made a part hereof.
    d. No concrete shall be poured until forms have been inspected and approved.
    e. Where concrete is to be removed, the edges are to be sawn at the nearest joint or score mark.
24. Where concrete is poured in a planter striping, score lines, construction joints, expansion joints, shall be continued across entire sidewalk area. Where curb, gutter, and sidewalk are pursed monolithically, the "back edge" of the curb shall be scored.
25. The permittee shall notify the proper utilities or persons that the location of an existing utility pole, fire hydrant, tree or other encroachment at the side or within the traveled way is such that relocation is necessary for proper execution of the work and/or safety of the general public. Said relocation shall be made at no expense to the City of Dublin. In the event such encroachment is not removed, the permittee will be permitted to construct a blockout with doweled bars in a location and in a manner satisfactory to the inspector. Upon completion of the relocation of each encroachment, permittee shall complete construction of curb, gutter, and/or sidewalk within 90 days.
26. No culverts or storm drains are to be cut or disturbed. Direction of flow and capacity of existing surface water drainage facilities shall no be materially changed.
27. Access to public and private properties adjacent to the public road is which work is authorized shall not be denied by reason of

such work. Special measures shall be taken to ensure passage of emergency vehicles over and at the side of work at all times.
28. In the event that any future improvement of the road right-of-way necessitates the relocation of the encroachment for which this permit is issued, the permittee shall relocate same at his sole expense.
29. Priority shall be given to operations preformed under contract let by the City of Dublin for certain work at this location. Coordination shall be effected through said Contractor and the Project Representative for the City.
30. Any existing facilities damaged or removed in the course of the work shall be replaced in kind or better, including ground and pavement surface, signs, striping, markers, curb, gutter, survey monuments, trees, and other vegetation, etc., to the satisfaction of the owner of said facility.
31. The cash bond placed for this work will be held for six (6) months after the final inspection; however, in the event the permittee does not give the City the notice required and the work is performed without inspection, the cash bond will be held for one year after the final inspection.

PERMITTEE SHALL NOTIFY CITY INSPECTOR AT 925/833-6630 WITHIN 3 DAYS AFTER WORK IS COMPLETE.

FAILURE TO COMPLY WITH THESE PROVISIONS WILL RESULT IN THE CITY'S TAKING WHATEVER MEASURES ARE NECESSARY TO CONFORM TO SAID PROVISIONS AND BILLING THE PERMITTEE FOR ALL EXPENSES INCURRED.

City of Dublin
Public Works Department
100 Civic Plaza, Dublin CA 94568
(925) 833-6630

CITY OF DUBLIN

Encroachment Permit Application

Permit to do work in accordance with the City of Dublin Municipal Code Chapter 7.04 and any special requirements shown or listed herein.

Applicant/Permittee:

Name: Pangea Environmental Services

Address: 1710 Franklin Street #200, Oakland CA 94612

Phone: +1 (510) 836-3700 **Email:** ederubeis@pangeaenv.com

Please read this permit carefully. Keep this permit at the work site. To arrange for inspection, call 925-833-6630 at least 48 hours *prior to start of work.*

Job location: 7240 Dublin Boulevard, Dublin CA 94568

Description of work:
(Attach 3 copies of plans) Advance 3 borings (SB-5, SB-6, and SB-7) to approximately 17 feet on or beside the median on Dublin Blvd to collect soil and groundwater samples.

Length of Excavation 0.3 l.f. Width: 0.3 l.f. Depth: 17 l.f.

Attention is directed to the general provisions printed on the reverse side of this permit and to the following special requirements:

1. All work shall be consistent with City of Dublin standards and specifications.
2. Permittee shall provide and keep a current certificate of Public Liability and Workers Compensation Insurance, which names the City of Dublin and its employees and agents as additionally insured.
3. Worksites left in an unsafe condition will be secured by the City Maintenance Department and the cost will be charged to the permittee.
4. Permittee shall remove all U.S.A. markings upon completion of the project.
5. All traffic control shall meet current City of Dublin and Caltrans standards and shall be approved by the City Engineer prior to start of the project.
6. Permittee shall contact Public Works Inspector for all required inspections.
7. No public road under the jurisdiction of the City of Dublin shall be closed to travel by the general public without special permission of the City Engineer in writing. No lane closures will be allowed between 6:00 a.m. and 9:00 a.m. or between 3:30 p.m. and 6:30 p.m. At other times, lane closures will be at the discretion of the City Engineer. At least one lane of traffic shall be kept open to the general public.
8. Construction operations shall be limited to week (Monday through Friday) and non-City holidays between the hours of 7:30 a.m. and 5:00 p.m.
9. Compaction test results will be required for all backfill performed.
10. For all other provisions and conditions, see back side of this form.

Prosecution of work: All work authorized by the permit shall be performed in a workmanlike, diligent, and expeditious manner, and must be complete to the satisfaction of the City Engineer.

Liability and Damages: The Permitee shall be responsible for all liability imposed by law for personal injury or property damage which may arise out of the work permitted and done by permittee under this permit, or which may arise out of failure on the part of the permittee to perform his obligations under said permit in respect to maintenance and encroachment. The permittee shall protect and indemnify the City of Dublin, its officers and employees, and save them harmless in every way from all action by law for damage or injury to persons or property that may arise out of or be occasioned in any way because of his operations as provided in this permit.

I hereby have read and agree to the City of Dublin general provisions and conditions outlined in this permit.

Signature of Permittee: _____ Date: 01/21/2015

Signature of City Engineer: _____ Date: _____

*This permit may be revoked at any time at the option of the Director of Public Works, if permittee fails to comply with or violates any City Ordinance, City Standard, safety regulations or any condition of the issuance of the permit.

CITY OF DUBLIN GENERAL PROVISIONS

I. The permittee shall begin work as authorized under this permit within 90 days from the start of issuance, unless a different date is stated in the permit. If the work has not begun within 90 days of the time stated in the permit, the permit shall become void. The permit shall be valid for a term of one year from the date of issuance, or as otherwise stated on the permit unless discontinued by the use or removal of the encroachment for which the permit was issued. (City of Dublin Municipal Code Chapter 7.04)

2. This permit is issued only for that portion of work in the City of Dublin right-of-way.

3. The permittee shall notify Underground Service Alert (U.S.A.) at 800-227-2600 prior to excavation. All underground contractors must have U.S.A. inquiry identification number.

4. Permittee is hereby cautioned that unless otherwise noted herein, traffic signal detector loops, wiring, etc., and irrigation facilities shall not be disturbed. Request marking from City of Dublin Public Works Department at 925-833-6630.

5. All excavations shall conform to the requirements of the State of California Division of Industrial Safety.

6. Permittee shall furnish all safeguards for pedestrians and post warning signs in advance of work area for vehicular traffic and shall clear the roadway of any obstructions or debris at the end of each work day. All safety devices shall conform to the latest edition of the California Manual on Uniform Traffic Control Devices (CA MUTCD).

7. The pavement shall be sawed l2"outside the edges of the trench excavation in order to leave a smooth contour of the pavement surface. Cutting with air tools or other devices leaving jagged edges shall not be permitted.

8. No more than 300 linear feet of continuous excavation shall be opened at one time.

A. Excavate only that length of trench which can be backfilled the same day.

B. Except for bedding or shading requirements by utilities, Class II Aggregate Base is the only acceptable backfill material.

9. Backfill shall be placed in accordance with the current "State of California Department of Transportation Standard Specification." The structural section of the upper ___ inches of the trench backfill within the paved areas shall be _____ inches A.C. on _____ inches A.B. on_____ inches A.S.B.

I0. Metal plates of sufficient thickness for legal load traffic or temporary paving 1-1/2" minimum thickness shall be placed at the end of each work day. Sidewalk construction areas shall be left in a safe condition.

11. Material excavated from within the City road right-of-way under this permit shall be removed from within the right-of-way and disposed of in a legal manner.

12. The right-of-way shall be left clean and orderly to the satisfaction of the City Engineer or his representative. The permittee shall give particular attention to maintaining the project in a dust-free condition while performing the various items of work and during non-working periods, including weekends.

13. All work shall be done in accordance with the provisions of the Clean Water Act, which protects the storm drain system. No dirt, rock, debris, concrete, or other materials or fluids will be allowed to enter the storm drain system during the course of work on this permit.

14. Final asphalt concrete surfacing shall be placed within 5 days of completion of each 300 lineal feet of excavation. If the edges of the trench have raveled prior to final surfacing, the edges shall be resawn.

15. Line and grade shall be left to the satisfaction of the City Engineer. All work shall conform to the current "State of California Department of Transportation Standard Specifications" and City requirements, and the City Inspector shall be notified at 925-833-6630 at least 24 hours prior to pouring concrete.

A. Line and grade shall conform to grade of existing curb.

B. Line and grade shall conform to adjacent sidewalk.

C. Line and grade shall conform to plans prepared by _____ attached hereto and made a part hereof.

D. No concrete shall be poured until forms have been inspected and approved.

E. Where concrete is to be removed, the edges are to be sawn at the nearest joint or score mark.

16. Where concrete is poured in a planter strip, score lines, construction joints, expansion joints, shall be continued across entire sidewalk area. Where curb, gutter, and sidewalk are poured monolithically, the "back edge" of the curb shall be scored.

17. The permittee will notify the proper utilities or persons that the location of an existing utility pole, fire hydrant, tree, or other encroachment at the site or within the traveled way is such that relocation is necessary for proper execution of the work and/or safety of the general public. Said relocation shall be made at no expense to the City of Dublin. In the event such encroachment is not removed, the permittee will be permitted to construct a blockout with dowelled bars in a location and in a manner satisfactory to the inspector. Upon completion of relocation of such encroachment, permittee shall complete construction of curb, gutter, and/or sidewalk within 30 days.

18. No culverts or storm drains are to be cut or disturbed. Direction of flow and capacity of existing surface water drainage facilities shall not be materially changed.

19. Access to public and private properties adjacent to the public road in which work is authorized shall not be denied by reason of such work. Special measures shall be taken to ensure passage for emergency vehicles over and at the site of work at all times.

20. In the event that any future improvement of the road right-of-way necessitates the relocation of the encroachment for which this permit is issued, the permittee shall relocate same at his sole expense.

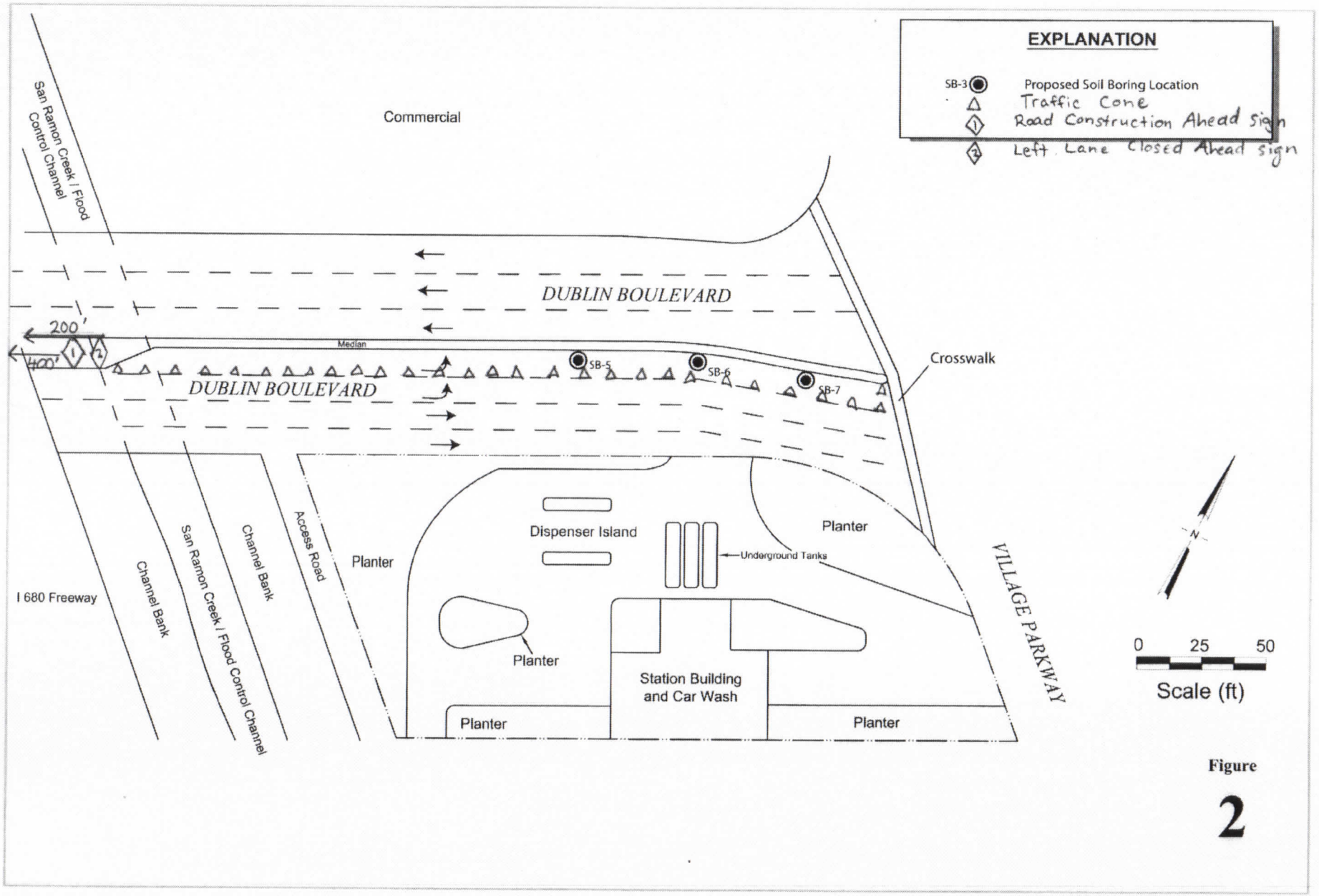
21. Priority shall be given to operations performed under contract let by the City of Dublin for certain work at this location. Coordination shall be effected through said Contractor and the Project Representative for the City.

22. Any existing facilities damaged or removed in the course of the work shall be replaced in kind or better, including ground and pavement surface, signs, striping, markers, curb, gutter, survey monuments, trees, and other vegetation, etc., to the satisfaction of the owner of said facility.

23. The cash bond placed for this work will be held for six (6) months after the final inspection; however, in the event the permittee does not give the City the notice required and the work is performed without inspection, the cash bond will be held for one year after the final inspection.

PERMITTEE SHALL NOTIFY CITY INSPECTOR AT 925-833-6630 WITHIN 3 DAYS AFTER WORK IS COMPLETED.

FAILURE TO COMPLY WITH THESE PROVISIONS WILL RESULT IN THE CITY'S TAKING WHATEVER MEASURES ARE NECESSARY TO CONFORM TO SAID PROVISIONS AND BILLING THE PERMITTEE FOR ALL EXPENSES INCURRED.



Figure

2

Dublin Auto Wash
7240 Dublin Boulevard
Dublin, California

PANGEA

Proposed Soil Boring Locations

APPENDIX D

Boring Logs

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

BORING NUMBER SB-3

CLIENT Hadjian **PROJECT NAME** Hadjian - Dublin

PROJECT NUMBER 1001.001 **PROJECT LOCATION** 7240 Dulbin Blvd

DATE STARTED 2/23/15 **COMPLETED** 2/23/15 **GROUND ELEVATION** _____ **HOLE SIZE** 2.25"

DRILLING CONTRACTOR Vaportech Services **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push **AT TIME OF DRILLING** ---

LOGGED BY Elizabeth Avery **CHECKED BY** Bob Clark-Riddell **AT END OF DRILLING** ---

NOTES Concrete cored - hand auger to 5'. **AFTER DRILLING** ---

DEPTH (ft bgs)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	BORING DIAGRAM
0					0.5 Concrete	Concrete
			CL		**Clay (CL)**; dark brown; soft..	
					3.5	
			SM		**Silty Sand (SM)**; grey. @4' Hydrocarbon odor.	
5					5.0	
			CL		**Clay (CL); dark brown; medium stiff.**	Portland Cement
10					10.0	
					Bottom of hole at 10.0 feet.	

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

BORING NUMBER SB-4

CLIENT Hadjian **PROJECT NAME** Hadjian - Dublin

PROJECT NUMBER 1001.001 **PROJECT LOCATION** 7240 Dulbin Blvd

DATE STARTED 2/23/15 **COMPLETED** 2/23/15 **GROUND ELEVATION** _____ **HOLE SIZE** 2.25"

DRILLING CONTRACTOR Vaportech Services **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push **AT TIME OF DRILLING** ---

LOGGED BY Elizabeth Avery **CHECKED BY** Bob Clark-Riddell **AT END OF DRILLING** ---

NOTES Concrete cored - hand auger to 5'. **AFTER DRILLING** ---

DEPTH (ft bgs)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	BORING DIAGRAM
0					0.5 Concrete	Concrete
					Silty Sand (SM); grey.	
			SM		@3.5' Hydrocarbon odor.	
5					6.0	Portland Cement
					Clay (CL); dark brown; medium stiff.	
			CL			
10					10.0 Bottom of hole at 10.0 feet.	

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

BORING NUMBER SB-5

CLIENT Hadjian **PROJECT NAME** Hadjian - Dublin

PROJECT NUMBER 1001.001 **PROJECT LOCATION** 7240 Dulbin Blvd

DATE STARTED 2/23/15 **COMPLETED** 2/23/15 **GROUND ELEVATION** _____ **HOLE SIZE** 2.25"

DRILLING CONTRACTOR Vaportech Services **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push ▽ **AT TIME OF DRILLING** 22.0 ft

LOGGED BY Elizabeth Avery **CHECKED BY** Bob Clark-Riddell **AT END OF DRILLING** ---

NOTES Hand auger to 5'. ▼ **AFTER DRILLING** 20.0 ft

DEPTH (ft bgs)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	BORING DIAGRAM
0					Asphalt and concrete.	Concrete
					1.5	
			CL		**Clay (CL)**; brown.	
5					**Silty Clay (CL)**; brown and red.	
10					**Clay (CL); dark brown; stiff.**	Portland Cement
15						
20					▼	

(Continued Next Page)

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

BORING NUMBER SB-5

CLIENT Hadjian **PROJECT NAME** Hadjian - Dublin

PROJECT NUMBER 1001.001 **PROJECT LOCATION** 7240 Dulbin Blvd

DEPTH (ft bgs)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	BORING DIAGRAM
20					**Clay (CL)**; dark brown.	
					21.0	
			ML		**Silt with Sand (ML)**; brown.	
					▽ @22' Wet.	
					24.0	
25			CL		**Clay (CL)**; dark brown.	
					25.0	
					(Temporary PVC casing with 5' of screen at the bottom was placed in the borehole. A groundwater sample was collected with a new disposable bailer.)	
					Bottom of hole at 25.0 feet.	

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

BORING NUMBER SB-6

CLIENT Hadjian **PROJECT NAME** Hadjian - Dublin

PROJECT NUMBER 1001.001 **PROJECT LOCATION** 7240 Dulbin Blvd

DATE STARTED 3/20/15 **COMPLETED** 3/20/15 **GROUND ELEVATION** _____ **HOLE SIZE** 2.25"

DRILLING CONTRACTOR Penecore Drilling **GROUND WATER LEVELS:**

DRILLING METHOD Direct Push **AT TIME OF DRILLING** ---

LOGGED BY Elizabeth Avery **CHECKED BY** Bob Clark-Riddell **AT END OF DRILLING** ---

NOTES _____ **AFTER DRILLING** ---

DEPTH (ft bgs)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	BORING DIAGRAM
0					Asphalt and concrete.	Concrete
					1.5	
					Silty Clay (CL), brown; medium plasticity fines.	
	SB-6-4'					
5						
	SB-6-8'					
10					@10' Trace gravel; stiff.	
			CL			
	SB-6-12'					Portland Cement
15						
	SB-6-16'					
20						

BH COPY DUBLIN SB-6.GPJ GINT US.GDT 5/13/15

(Continued Next Page)

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

BORING NUMBER SB-6

CLIENT Hadjian **PROJECT NAME** Hadjian - Dublin

PROJECT NUMBER 1001.001 **PROJECT LOCATION** 7240 Dulbin Blvd

DEPTH (ft bgs)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	BORING DIAGRAM
20	SB-6-20'		GC		20.3 **Gravel (GC)**; 1-2" thick. **Silty Clay (CL)**, brown; medium plasticity fines.	
25	SB-6-24'				25.0 *(Temporary PVC casing with 5' of screen at the bottom was placed in the borehole. No groundwater was observed after one hour.)* Bottom of hole at 25.0 feet.	

APPENDIX E

Laboratory Analytical Reports

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1503879

Report Created for: Pangea Environmental Svcs., Inc.

1710 Franklin Street, Ste. 200
Oakland, CA 94612

Project Contact: Elizabeth DeRubeis
Project P.O.:
Project Name: #1001.001; 7240 Dublin Blvd

Project Received: 03/20/2015

Analytical Report reviewed & approved for release on 03/26/2015 by:

Question about your data?

Click here to email McCampbell

Angela Rydelius,
Laboratory Manager

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Pangea Environmental Svcs., Inc.
Project: #1001.001; 7240 Dublin Blvd
WorkOrder: 1503879

Glossary Abbreviation

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

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD was out of acceptance criteria; LCS validated the prep batch.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1503879
Project:	#1001.001; 7240 Dublin Blvd	**Extraction Method:**	SW5030B
Date Received:	3/20/15 15:08	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	3/20/15-3/23/15	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-6-8'	**1503879-002A**	**Soil**	**03/20/2015 08:30**	**GC19**	**102652**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	03/23/2015 21:20
MTBE	ND	0.050	1	03/23/2015 21:20
Benzene	ND	0.0050	1	03/23/2015 21:20
Toluene	ND	0.0050	1	03/23/2015 21:20
Ethylbenzene	ND	0.0050	1	03/23/2015 21:20
Xylenes	ND	0.0050	1	03/23/2015 21:20

Surrogates	REC (%)	Limits	
2-Fluorotoluene	76	70-130	03/23/2015 21:20

Analyst(s): IA

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-6-12'	**1503879-003A**	**Soil**	**03/20/2015 08:35**	**GC19**	**102652**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	03/23/2015 22:19
MTBE	ND	0.050	1	03/23/2015 22:19
Benzene	ND	0.0050	1	03/23/2015 22:19
Toluene	ND	0.0050	1	03/23/2015 22:19
Ethylbenzene	ND	0.0050	1	03/23/2015 22:19
Xylenes	ND	0.0050	1	03/23/2015 22:19

Surrogates	REC (%)	Limits	
2-Fluorotoluene	83	70-130	03/23/2015 22:19

Analyst(s): IA

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1503879
Project:	#1001.001; 7240 Dublin Blvd	**Extraction Method:**	SW5030B
Date Received:	3/20/15 15:08	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	3/20/15-3/23/15	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-6-16'	**1503879-004A**	**Soil**	**03/20/2015 08:40**	**GC7**	**102561**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	03/20/2015 20:03
MTBE	ND	0.050	1	03/20/2015 20:03
Benzene	ND	0.0050	1	03/20/2015 20:03
Toluene	ND	0.0050	1	03/20/2015 20:03
Ethylbenzene	ND	0.0050	1	03/20/2015 20:03
Xylenes	ND	0.0050	1	03/20/2015 20:03

Surrogates	REC (%)	Limits	
2-Fluorotoluene	87	70-130	03/20/2015 20:03

Analyst(s): IA

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-6-20'	**1503879-005A**	**Soil**	**03/20/2015 08:45**	**GC7**	**102561**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	03/20/2015 21:33
MTBE	ND	0.050	1	03/20/2015 21:33
Benzene	ND	0.0050	1	03/20/2015 21:33
Toluene	ND	0.0050	1	03/20/2015 21:33
Ethylbenzene	ND	0.0050	1	03/20/2015 21:33
Xylenes	ND	0.0050	1	03/20/2015 21:33

Surrogates	REC (%)	Limits	
2-Fluorotoluene	86	70-130	03/20/2015 21:33

Analyst(s): IA

(Cont.)

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1503879
Project:	#1001.001; 7240 Dublin Blvd	**Extraction Method:**	SW5030B
Date Received:	3/20/15 15:08	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	3/20/15-3/23/15	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-6-24'	**1503879-006A**	**Soil**	**03/20/2015 08:50**	**GC7**	**102561**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	03/20/2015 22:33
MTBE	ND	0.050	1	03/20/2015 22:33
Benzene	ND	0.0050	1	03/20/2015 22:33
Toluene	ND	0.0050	1	03/20/2015 22:33
Ethylbenzene	ND	0.0050	1	03/20/2015 22:33
Xylenes	ND	0.0050	1	03/20/2015 22:33

Surrogates	REC (%)	Limits	
2-Fluorotoluene	84	70-130	03/20/2015 22:33

Analyst(s): IA

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Quality Control Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1503879
Date Prepared:	3/19/15	**BatchID:**	102561
Date Analyzed:	3/20/15 - 3/23/15	**Extraction Method:**	SW5030B
Instrument:	GC19, GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#1001.001; 7240 Dublin Blvd	**Sample ID:**	MB/LCS-102561 1503835-014AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.602	0.40	0.60	-	100	70-130
MTBE	ND	0.0855	0.050	0.10	-	85	70-130
Benzene	ND	0.0997	0.0050	0.10	-	100	70-130
Toluene	ND	0.106	0.0050	0.10	-	106	70-130
Ethylbenzene	ND	0.111	0.0050	0.10	-	111	70-130
Xylenes	ND	0.358	0.0050	0.30	-	119	70-130
Surrogate Recovery							
2-Fluorotoluene	0.0851	0.0831		0.10	85	83	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.578	0.591	0.60	ND	96	98	70-130	2.17	20
MTBE	0.0810	0.0847	0.10	ND	59,F1	62,F1	70-130	4.50	20
Benzene	0.101	0.0954	0.10	ND	101	95	70-130	5.33	20
Toluene	0.108	0.102	0.10	ND	106	101	70-130	5.15	20
Ethylbenzene	0.114	0.107	0.10	ND	114	107	70-130	5.62	20
Xylenes	0.368	0.348	0.30	ND	123	116	70-130	5.54	20
Surrogate Recovery									
2-Fluorotoluene	0.0845	0.0794	0.10		85	79	70-130	6.29	20

(Cont.)

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Quality Control Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1503879
Date Prepared:	3/23/15	**BatchID:**	102652
Date Analyzed:	3/23/15	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#1001.001; 7240 Dublin Blvd	**Sample ID:**	MB/LCS-102652 1503937-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.598	0.40	0.60	-	100	70-130
MTBE	ND	0.0876	0.050	0.10	-	88	70-130
Benzene	ND	0.104	0.0050	0.10	-	104	70-130
Toluene	ND	0.111	0.0050	0.10	-	109	70-130
Ethylbenzene	ND	0.116	0.0050	0.10	-	116	70-130
Xylenes	ND	0.374	0.0050	0.30	-	125	70-130
Surrogate Recovery							
2-Fluorotoluene	0.0857	0.0878		0.10	86	88	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.585	0.586	0.60	ND	97	98	70-130	0.230	20
MTBE	0.0840	0.0830	0.10	ND	84	83	70-130	1.21	20
Benzene	0.0982	0.0979	0.10	ND	98	98	70-130	0	20
Toluene	0.105	0.105	0.10	ND	104	103	70-130	0.518	20
Ethylbenzene	0.110	0.110	0.10	ND	110	110	70-130	0	20
Xylenes	0.358	0.357	0.30	ND	119	119	70-130	0	20
Surrogate Recovery									
2-Fluorotoluene	0.0829	0.0828	0.10		83	83	70-130	0	20

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1503879 **ClientCode: PEO**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

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

Email: ederubeis@pangeaenv.com
cc/3rd Party:
PO:
ProjectNo: #1001.001; 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: **03/20/2015**
Date Printed: **03/26/2015**

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
1503879-002	SB-6-8'	Soil	3/20/2015 8:30	☐	A	A										
1503879-003	SB-6-12'	Soil	3/20/2015 8:35	☐	A											
1503879-004	SB-6-16'	Soil	3/20/2015 8:40	☐	A											
1503879-005	SB-6-20'	Soil	3/20/2015 8:45	☐	A											
1503879-006	SB-6-24'	Soil	3/20/2015 8:50	☐	A											

Test Legend:

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

Prepared by: Shana Carter

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.

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WORK ORDER SUMMARY

Client Name: PANGEA ENVIRONMENTAL SVCS., INC. **QC Level:** LEVEL 2 **Work Order:** 1503879
Project: #1001.001; 7240 Dublin Blvd **Client Contact:** Elizabeth DeRubeis **Date Received:** 3/20/2015
Comments: **Contact's Email:** ederubeis@pangeaenv.com

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1503879-001A	SB-6-4'	Soil		1	Acetate Liner	☐	3/20/2015 8:25			☑	
1503879-002A	SB-6-8'	Soil	SW8021B/8015Bm (G/MBTEX)	1	Acetate Liner	☐	3/20/2015 8:30	5 days		☐	
1503879-003A	SB-6-12'	Soil	SW8021B/8015Bm (G/MBTEX)	1	Acetate Liner	☐	3/20/2015 8:35	5 days		☐	
1503879-004A	SB-6-16'	Soil	SW8021B/8015Bm (G/MBTEX)	1	Acetate Liner	☐	3/20/2015 8:40	5 days		☐	
1503879-005A	SB-6-20'	Soil	SW8021B/8015Bm (G/MBTEX)	1	Acetate Liner	☐	3/20/2015 8:45	5 days		☐	
1503879-006A	SB-6-24'	Soil	SW8021B/8015Bm (G/MBTEX)	1	Acetate Liner	☐	3/20/2015 8:50	5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1503879

McCAMPBELL ANALYTICAL, INC.

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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: Elizabeth DeRubeis Bill To: Pangea
Company: Pangea Environmental Services, Inc.
1710 Franklin Street, Suite 200, Oakland, CA 94612
E-Mail: ederubeis@pangeaenv.com
Tele: (510) 836-3700 Fax: (510) 836-3709
Project #: 1001.001 Project Name: 7240 Dublin Blvd
Project Location: 7240 Dublin Blvd, Dublin
Sampler Signature:

SAMPLE ID	LOCATION (Field Point Name)	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	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)	Other: naphthalene 8260	Comments
SB-6-4'	SB-6	3/20	8:25	1	Tube		X				X				X																	
SB-6-8'			8:30												X																	
SB-6-12'			8:35												X																	
SB-6-16'			8:40												X																	
SB-6-20'			8:45												X																	
SB-6-24'			8:50												X																	
SB-6				4	VOA	X					X	X																				

Relinquished By:	Date:	Time:	Received By:
	3/20/15	1500	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 5.9 COMMENTS:
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

VOAS O&G METALS OTHER
PRESERVATION_____ pH<2_____

Filter Samples for Metals analysis: Yes / No

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Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.**
Date and Time Received: **3/20/2015 3:08:06 PM**

Project Name: **#1001.001; 7240 Dublin Blvd**
LogIn Reviewed by: Shana Carter

WorkOrder №: **1503879** Matrix: Soil
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 ☐	
Sample/Temp Blank temperature	Temp: 5.9°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

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

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1502786

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

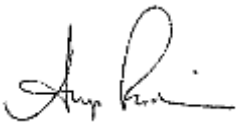
Project Contact: Elizabeth DeRubeis
Project P.O.:
Project Name: #1001.001; Hadjian-7240 Dublin

Project Received: 02/23/2015

Analytical Report reviewed & approved for release on 03/02/2015 by:

Question about your data?

Click here to email McCampbell



Angela Rydelius,
Laboratory Manager

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

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Glossary of Terms & Qualifier Definitions

Client: Pangea Environmental Svcs., Inc.
Project: #1001.001; Hadjian-7240 Dublin
WorkOrder: 1502786

Glossary Abbreviation

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

Analytical Qualifiers

d2	heavier gasoline range compounds are significant (aged gasoline?)

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1502786
Project:	#1001.001; Hadjian-7240 Dublin	**Extraction Method:**	SW5030B
Date Received:	2/23/15 20:49	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	2/23/15-3/2/15	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-5-20'	**1502786-005A**	**Soil**	**02/23/2015 08:30**	**GC7**	**101576**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	02/26/2015 01:27
MTBE	ND	0.050	1	02/26/2015 01:27
Benzene	ND	0.0050	1	02/26/2015 01:27
Toluene	ND	0.0050	1	02/26/2015 01:27
Ethylbenzene	ND	0.0050	1	02/26/2015 01:27
Xylenes	ND	0.0050	1	02/26/2015 01:27

Surrogates	REC (%)	Limits	
2-Fluorotoluene	92	70-130	02/26/2015 01:27

Analyst(s): IA

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-3-2'	**1502786-008A**	**Soil**	**02/23/2015 09:35**	**GC7**	**101576**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	02/26/2015 01:57
MTBE	ND	0.050	1	02/26/2015 01:57
Benzene	ND	0.0050	1	02/26/2015 01:57
Toluene	ND	0.0050	1	02/26/2015 01:57
Ethylbenzene	ND	0.0050	1	02/26/2015 01:57
Xylenes	ND	0.0050	1	02/26/2015 01:57

Surrogates	REC (%)	Limits	
2-Fluorotoluene	96	70-130	02/26/2015 01:57

Analyst(s): IA

(Cont.)

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1502786
Project:	#1001.001; Hadjian-7240 Dublin	**Extraction Method:**	SW5030B
Date Received:	2/23/15 20:49	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	2/23/15-3/2/15	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-3-4'	**1502786-009A**	**Soil**	**02/23/2015 09:40**	**GC7**	**101508**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**1900**	200	200	02/26/2015 13:27
MTBE	ND	10	200	02/26/2015 13:27
Benzene	ND	1.0	200	02/26/2015 13:27
Toluene	**4.0**	1.0	200	02/26/2015 13:27
Ethylbenzene	**19**	1.0	200	02/26/2015 13:27
Xylenes	**160**	1.0	200	02/26/2015 13:27

Surrogates	REC (%)	Limits	Analytical Comments: d2	
aaa-TFT_2	97	70-130		02/26/2015 13:27

Analyst(s): IA

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-3-8'	**1502786-010A**	**Soil**	**02/23/2015 09:50**	**GC7**	**101508**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**1700**	200	200	02/26/2015 13:58
MTBE	ND	10	200	02/26/2015 13:58
Benzene	**1.6**	1.0	200	02/26/2015 13:58
Toluene	**38**	1.0	200	02/26/2015 13:58
Ethylbenzene	**32**	1.0	200	02/26/2015 13:58
Xylenes	**210**	1.0	200	02/26/2015 13:58

Surrogates	REC (%)	Limits	Analytical Comments: d2	
aaa-TFT_2	100	70-130		02/26/2015 13:58

Analyst(s): IA

(Cont.)

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1502786
Project:	#1001.001; Hadjian-7240 Dublin	**Extraction Method:**	SW5030B
Date Received:	2/23/15 20:49	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	2/23/15-3/2/15	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-4-2'	**1502786-011A**	**Soil**	**02/23/2015 09:50**	**GC7**	**101576**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	02/26/2015 02:56
MTBE	ND	0.050	1	02/26/2015 02:56
Benzene	ND	0.0050	1	02/26/2015 02:56
Toluene	ND	0.0050	1	02/26/2015 02:56
Ethylbenzene	ND	0.0050	1	02/26/2015 02:56
Xylenes	**0.020**	0.0050	1	02/26/2015 02:56

Surrogates	REC (%)	Limits	
2-Fluorotoluene	92	70-130	02/26/2015 02:56

Analyst(s): IA

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-4-4'	**1502786-012A**	**Soil**	**02/23/2015 09:55**	**GC7**	**101548**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	02/24/2015 18:12
MTBE	ND	0.050	1	02/24/2015 18:12
Benzene	ND	0.0050	1	02/24/2015 18:12
Toluene	ND	0.0050	1	02/24/2015 18:12
Ethylbenzene	ND	0.0050	1	02/24/2015 18:12
Xylenes	ND	0.0050	1	02/24/2015 18:12

Surrogates	REC (%)	Limits	
2-Fluorotoluene	90	70-130	02/24/2015 18:12

Analyst(s): IA

(Cont.)

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1502786
Project:	#1001.001; Hadjian-7240 Dublin	**Extraction Method:**	SW5030B
Date Received:	2/23/15 20:49	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	2/23/15-3/2/15	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-4-8'	**1502786-013A**	**Soil**	**02/23/2015 10:10**	**GC7**	**101795**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	03/02/2015 14:53
MTBE	ND	0.050	1	03/02/2015 14:53
Benzene	ND	0.0050	1	03/02/2015 14:53
Toluene	ND	0.0050	1	03/02/2015 14:53
Ethylbenzene	ND	0.0050	1	03/02/2015 14:53
Xylenes	ND	0.0050	1	03/02/2015 14:53
Surrogates	REC (%)	Limits		
2-Fluorotoluene	88	70-130		03/02/2015 14:53

Analyst(s): IA

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1502786
Project:	#1001.001; Hadjian-7240 Dublin	**Extraction Method:**	SW5030B
Date Received:	2/23/15 20:49	**Analytical Method:**	SW8021B/8015Bm
Date Prepared:	2/24/15	**Unit:**	µg/L

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

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-5	**1502786-007A**	**Water**	**02/23/2015 08:50**	**GC3**	**101591**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	50	1	02/24/2015 20:36
MTBE	ND	5.0	1	02/24/2015 20:36
Benzene	ND	0.50	1	02/24/2015 20:36
Toluene	ND	0.50	1	02/24/2015 20:36
Ethylbenzene	ND	0.50	1	02/24/2015 20:36
Xylenes	ND	0.50	1	02/24/2015 20:36
Surrogates	REC (%)	Limits		
aaa-TFT_2	99	70-130		02/24/2015 20:36

Analyst(s): IA

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Quality Control Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1502786
Date Prepared:	2/23/15	**BatchID:**	101508
Date Analyzed:	2/23/15	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#1001.001; Hadjian-7240 Dublin	**Sample ID:**	MB/LCS-101508 1502762-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.673	0.40	0.60	-	112	70-130
MTBE	ND	0.0998	0.050	0.10	-	100	70-130
Benzene	ND	0.0986	0.0050	0.10	-	99	70-130
Toluene	ND	0.104	0.0050	0.10	-	104	70-130
Ethylbenzene	ND	0.104	0.0050	0.10	-	104	70-130
Xylenes	ND	0.319	0.0050	0.30	-	106	70-130
Surrogate Recovery							
2-Fluorotoluene	0.0896	0.0902		0.10	90	90	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.610	0.609	0.60	ND	102	101	70-130	0.257	20
MTBE	0.0769	0.0747	0.10	ND	77	75	70-130	2.94	20
Benzene	0.0958	0.0965	0.10	ND	96	97	70-130	0.791	20
Toluene	0.0968	0.0979	0.10	ND	97	98	70-130	1.14	20
Ethylbenzene	0.102	0.103	0.10	ND	102	103	70-130	0.940	20
Xylenes	0.312	0.316	0.30	ND	104	105	70-130	1.38	20
Surrogate Recovery									
2-Fluorotoluene	0.0910	0.0926	0.10		91	93	70-130	1.70	20

(Cont.)

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Quality Control Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1502786
Date Prepared:	2/23/15	**BatchID:**	101548
Date Analyzed:	2/24/15	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#1001.001; Hadjian-7240 Dublin	**Sample ID:**	MB/LCS-101548 1502786-012AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.634	0.40	0.60	-	106	70-130
MTBE	ND	0.0949	0.050	0.10	-	95	70-130
Benzene	ND	0.104	0.0050	0.10	-	104	70-130
Toluene	ND	0.109	0.0050	0.10	-	108	70-130
Ethylbenzene	ND	0.114	0.0050	0.10	-	114	70-130
Xylenes	ND	0.367	0.0050	0.30	-	122	70-130
Surrogate Recovery							
2-Fluorotoluene	0.0970	0.0999		0.10	97	100	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.601	0.622	0.60	ND	100	104	70-130	3.53	20
MTBE	0.0831	0.0886	0.10	ND	83	89	70-130	6.33	20
Benzene	0.0826	0.0856	0.10	ND	83	86	70-130	3.58	20
Toluene	0.0880	0.0913	0.10	ND	87	90	70-130	3.66	20
Ethylbenzene	0.0891	0.0923	0.10	ND	89	92	70-130	3.58	20
Xylenes	0.274	0.285	0.30	ND	91	95	70-130	3.94	20
Surrogate Recovery									
2-Fluorotoluene	0.0737	0.0749	0.10		74	75	70-130	1.66	20

(Cont.)

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Quality Control Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1502786
Date Prepared:	2/24/15	**BatchID:**	101576
Date Analyzed:	2/24/15	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#1001.001; Hadjian-7240 Dublin	**Sample ID:**	MB/LCS-101576 1502808-003AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.621	0.40	0.60	-	103	70-130
MTBE	ND	0.0996	0.050	0.10	-	100	70-130
Benzene	ND	0.0997	0.0050	0.10	-	100	70-130
Toluene	ND	0.106	0.0050	0.10	-	104	70-130
Ethylbenzene	ND	0.110	0.0050	0.10	-	110	70-130
Xylenes	ND	0.356	0.0050	0.30	-	119	70-130
Surrogate Recovery							
2-Fluorotoluene	0.0936	0.0968		0.10	94	97	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.551	0.558	0.60	ND	92	93	70-130	1.30	20
MTBE	0.0824	0.0872	0.10	ND	82	87	70-130	5.65	20
Benzene	0.0906	0.0919	0.10	ND	91	92	70-130	1.45	20
Toluene	0.0968	0.0973	0.10	ND	97	97	70-130	0	20
Ethylbenzene	0.102	0.102	0.10	ND	102	102	70-130	0	20
Xylenes	0.328	0.328	0.30	ND	109	109	70-130	0	20
Surrogate Recovery									
2-Fluorotoluene	0.0883	0.0893	0.10		88	89	70-130	1.11	20

(Cont.)

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Quality Control Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1502786
Date Prepared:	3/2/15	**BatchID:**	101795
Date Analyzed:	3/2/15	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#1001.001; Hadjian-7240 Dublin	**Sample ID:**	MB/LCS-101795 1503004-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.549	0.40	0.60	-	92	70-130
MTBE	ND	0.101	0.050	0.10	-	101	70-130
Benzene	ND	0.117	0.0050	0.10	-	117	70-130
Toluene	ND	0.122	0.0050	0.10	-	121	70-130
Ethylbenzene	ND	0.120	0.0050	0.10	-	120	70-130
Xylenes	ND	0.383	0.0050	0.30	-	128	70-130
Surrogate Recovery							
2-Fluorotoluene	0.0995	0.114		0.10	99	114	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.692	0.710	0.60	ND	115	118	70-130	2.61	20
MTBE	0.0778	0.0728	0.10	ND	78	73	70-130	6.77	20
Benzene	0.108	0.112	0.10	ND	108	112	70-130	3.42	20
Toluene	0.110	0.115	0.10	ND	108	113	70-130	4.25	20
Ethylbenzene	0.118	0.119	0.10	ND	118	119	70-130	1.08	20
Xylenes	0.370	0.363	0.30	ND	123	121	70-130	1.92	20
Surrogate Recovery									
2-Fluorotoluene	0.102	0.107	0.10		102	107	70-130	4.62	20

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Quality Control Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1502786
Date Prepared:	2/24/15	**BatchID:**	101591
Date Analyzed:	2/24/15	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	#1001.001; Hadjian-7240 Dublin	**Sample ID:**	MB/LCS-101591 1502813-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	65.2	40	60	-	109	70-130
MTBE	ND	11.4	5.0	10	-	114	70-130
Benzene	ND	11.4	0.50	10	-	114	70-130
Toluene	ND	11.5	0.50	10	-	115	70-130
Ethylbenzene	ND	11.4	0.50	10	-	114	70-130
Xylenes	ND	34.5	0.50	30	-	115	70-130
Surrogate Recovery							
aaa-TFT_2	9.97	10.3		10	100	103	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	67.7	65.4	60	ND	113	109	70-130	3.43	20
MTBE	10.2	10.4	10	ND	102	103	70-130	1.76	20
Benzene	10.0	9.98	10	ND	99	99	70-130	0	20
Toluene	10.1	10.1	10	ND	101	101	70-130	0	20
Ethylbenzene	10.2	10.4	10	ND	102	104	70-130	1.21	20
Xylenes	30.8	31.1	30	ND	103	104	70-130	0.916	20
Surrogate Recovery									
aaa-TFT_2	9.88	9.37	10		99	94	70-130	5.26	20

McCampbell Analytical, Inc.
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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1502786 **ClientCode: PEO**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

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

Email: ederubeis@pangeaenv.com
cc/3rd Party:
PO:
ProjectNo: #1001.001; Hadjian-7240 Dublin

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

Requested TAT: 5 days

Date Received: **02/23/2015**
Date Printed: **02/25/2015**

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
1502786-005	SB-5-20'	Soil	2/23/2015 8:30	☐	A		A									
1502786-007	SB-5	Water	2/23/2015 8:50	☐		A										
1502786-008	SB-3-2'	Soil	2/23/2015 9:35	☐	A											
1502786-009	SB-3-4'	Soil	2/23/2015 9:40	☐	A											
1502786-010	SB-3-8'	Soil	2/23/2015 9:50	☐	A											
1502786-011	SB-4-2'	Soil	2/23/2015 9:50	☐	A											
1502786-012	SB-4-4'	Soil	2/23/2015 9:55	☐	A											
1502786-013	SB-4-8'	Soil	2/23/2015 10:10	☐	A											

Test Legend:

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

Prepared by: Jena Alfaro

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.

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WORK ORDER SUMMARY

Client Name: PANGEA ENVIRONMENTAL SVCS., INC. **QC Level:** LEVEL 2 **Work Order:** 1502786
Project: #1001.001; Hadjian-7240 Dublin **Client Contact:** Elizabeth DeRubeis **Date Received:** 2/23/2015
Comments: **Contact's Email:** ederubeis@pangeaenv.com

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1502786-001A	SB-5-4'	Soil		1	Stainless Steel tube 2"x6"	☐	2/23/2015 7:50			☑	
1502786-002A	SB-5-8'	Soil		1	Acetate Liner	☐	2/23/2015 8:30			☑	
1502786-003A	SB-5-12'	Soil		1	Acetate Liner	☐	2/23/2015 8:30			☑	
1502786-004A	SB-5-16'	Soil		1	Acetate Liner	☐	2/23/2015 8:30			☑	
1502786-005A	SB-5-20'	Soil	SW8021B/8015Bm (G/MBTEX)	1	Acetate Liner	☐	2/23/2015 8:30	5 days		☐	
1502786-006A	SB-5-24'	Soil		1	Acetate Liner	☐	2/23/2015 8:30			☑	
1502786-007A	SB-5	Water	SW8021B/8015Bm (G/MBTEX)	6	VOA w/ HCl	☐	2/23/2015 8:50	5 days	Present	☐	
1502786-008A	SB-3-2'	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	2/23/2015 9:35	5 days		☐	
1502786-009A	SB-3-4'	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	2/23/2015 9:40	5 days		☐	
1502786-010A	SB-3-8'	Soil	SW8021B/8015Bm (G/MBTEX)	1	Acetate Liner	☐	2/23/2015 9:50	5 days		☐	
1502786-011A	SB-4-2'	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	2/23/2015 9:50	5 days		☐	
1502786-012A	SB-4-4'	Soil	SW8021B/8015Bm (G/MBTEX)	1	Stainless Steel tube 2"x6"	☐	2/23/2015 9:55	5 days		☐	
1502786-013A	SB-4-8'	Soil	SW8021B/8015Bm (G/MBTEX)	1	Acetate Liner	☐	2/23/2015 10:10	5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1502786

McCAMPBELL ANALYTICAL, INC.

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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: Elizabeth DeRubeis Bill To: Pangea
Company: Pangea Environmental Services, Inc.
1710 Franklin Street, Suite 200, Oakland, CA 94612
E-Mail: ederubeis@pangeaenv.com
Tele: (510) 836-3700 Fax: (510) 836-3709
Project #: 1001.001 Project Name: Hadjian - 7240 Dublin
Project Location: 7240 Dublin Blvd, Dublin
Sampler Signature:

SAMPLE ID	LOCATION (Field Point Name)	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	Soil	Air	Sludge	Other	METHOD PRESERVED ICE	HCL	HNO_3	Other
SB-5-4'	SB-5	2/23	7:50	1	Tube	X					X			x
SB-5-8'	SB-5		8:30	1										
SB-5-12'	SB-5		8:30											
SB-5-16'	SB-5		8:30											
SB-5-20'	SB-5		8:30											
SB-5-24'	SB-5		8:30											
SB-5	SB-5		8:50	6	VOA	X						X		
SB-3-2'	SB-3		9:35	1	Tube									
SB-3-4'	SB-3		9:40											
SB-3-8'	SB-3		9:50											
SB-4-2'	SB-4		9:50											
SB-4-4'	SB-4		9:55											
SB-4-8'	SB-4		10:10											

Analysis Request

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)
X	X														
X	X														
X	X														
X	X														
X	X														
X	X														
X	X														
X	X														
X	X														
X	X														
X	X														
X	X														
X	X														

Other: Naphthalene 8260

Comments: Filter Samples for Metals analysis: Yes / No

hold

Relinquished By:	Date:	Time:	Received By:
	2/23/15	1205	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 6.5
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

VOAS O&G METALS OTHER
PRESERVATION_____ pH<2_____

COMMENTS:
hold all Samples
* taken off hold per email 2/23

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1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.**
Date and Time Received: **2/23/2015 8:49:01 PM**

Project Name: **#1001.001; Hadjian-7240 Dublin**
LogIn Reviewed by: Jena Alfaro

WorkOrder №: **1502786** Matrix: Soil/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 ☐	
Sample/Temp Blank temperature	Temp: 6.5°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	NA ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

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

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1502786 A

Report Created for: Pangea Environmental Svcs., Inc.

1710 Franklin Street, Ste. 200
Oakland, CA 94612

Project Contact: Elizabeth DeRubeis
Project P.O.:
Project Name: #1001.001; Hadjian-7240 Dublin

Project Received: 02/23/2015

Analytical Report reviewed & approved for release on 05/05/2015 by:

Angela Rydelius,
Laboratory Manager

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
NELAP: 4033ORELAP ♦ ELAP: 1644 ♦ ISO/IEC: 17025:2005 ♦ WSDE: C972-11 ♦ ADEC: UST-098 ♦ UCMR3

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Glossary of Terms & Qualifier Definitions

Client: Pangea Environmental Svcs., Inc.
Project: #1001.001; Hadjian-7240 Dublin
WorkOrder: 1502786

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

H	samples were analyzed out of holding time
d2	heavier gasoline range compounds are significant (aged gasoline?)

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Analytical Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1502786
Project:	#1001.001; Hadjian-7240 Dublin	**Extraction Method:**	SW5030B
Date Received:	2/23/15 20:49	**Analytical Method:**	SW8260B
Date Prepared:	4/28/15	**Unit:**	mg/Kg

Volatile Organics by P&T and GC/MS

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-3-4'	**1502786-009A**	**Soil**	**02/23/2015 09:40**	**GC28**	**104158**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Naphthalene	ND	H	0.0050	1	05/02/2015 14:50

Surrogates	REC (%)	Qualifiers	Limits	
4-BFB	106	H	70-130	05/02/2015 14:50

Analyst(s): KBO

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
SB-3-8'	**1502786-010A**	**Soil**	**02/23/2015 09:50**	**GC28**	**104158**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Naphthalene	**11**	H	0.50	100	05/04/2015 23:38

Surrogates	REC (%)	Qualifiers	Limits	
4-BFB	111	H	70-130	05/04/2015 23:38

Analyst(s): KBO

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Quality Control Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1502786
Date Prepared:	4/27/15	**BatchID:**	104158
Date Analyzed:	5/3/15 - 5/4/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#1001.001; Hadjian-7240 Dublin	**Sample ID:**	MB/LCS-104158 1504A90-005AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0383	0.0050	0.050	-	77	53-116
Benzene	ND	0.0440	0.0050	0.050	-	88	63-137
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.151	0.050	0.20	-	76	41-135
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0429	0.0050	0.050	-	86	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0402	0.0040	0.050	-	80	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0410	0.0040	0.050	-	82	58-135
1,1-Dichloroethene	ND	0.0430	0.0050	0.050	-	86	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

(Cont.)

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Quality Control Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1502786
Date Prepared:	4/27/15	**BatchID:**	104158
Date Analyzed:	5/3/15 - 5/4/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#1001.001; Hadjian-7240 Dublin	**Sample ID:**	MB/LCS-104158 1504A90-005AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	0.0423	0.0050	0.050	-	85	52-129
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0410	0.0050	0.050	-	82	53-125
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0390	0.0050	0.050	-	78	58-122
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0478	0.0050	0.050	-	96	76-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0428	0.0050	0.050	-	86	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	0.107	0.108		0.12	86	86	72-126
Toluene-d8	0.118	0.114		0.12	94	92	81-115
4-BFB	0.0117	0.0120		0.012	93	96	55-127

(Cont.)

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Pangea Environmental Svcs., Inc.	**WorkOrder:**	1502786
Date Prepared:	4/27/15	**BatchID:**	104158
Date Analyzed:	5/3/15 - 5/4/15	**Extraction Method:**	SW5030B
Instrument:	GC16	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#1001.001; Hadjian-7240 Dublin	**Sample ID:**	MB/LCS-104158 1504A90-005AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0374	0.0368	0.050	ND	75	74	70-130	1.48	20
Benzene	0.0413	0.0411	0.050	ND	83	82	70-130	0.636	20
t-Butyl alcohol (TBA)	0.149	0.148	0.20	ND	74	74	70-130	0	20
Chlorobenzene	0.0409	0.0401	0.050	ND	82	80	70-130	1.98	20
1,2-Dibromoethane (EDB)	0.0386	0.0390	0.050	ND	77	78	70-130	1.01	20
1,2-Dichloroethane (1,2-DCA)	0.0390	0.0388	0.050	ND	78	78	70-130	0	20
1,1-Dichloroethene	0.0404	0.0403	0.050	ND	81	81	70-130	0	20
Diisopropyl ether (DIPE)	0.0400	0.0401	0.050	ND	80	80	70-130	0	20
Ethyl tert-butyl ether (ETBE)	0.0398	0.0396	0.050	ND	80	79	70-130	0.540	20
Methyl-t-butyl ether (MTBE)	0.0375	0.0370	0.050	ND	75	74	70-130	1.52	20
Toluene	0.0447	0.0443	0.050	ND	89	89	70-130	0	20
Trichloroethene	0.0407	0.0403	0.050	ND	81	81	70-130	0	20
Surrogate Recovery									
Dibromofluoromethane	0.108	0.109	0.12		87	87	70-130	0	20
Toluene-d8	0.114	0.114	0.12		91	92	70-130	0.517	20
4-BFB	0.0120	0.0117	0.012		96	94	70-130	1.92	20

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1502786 A **ClientCode: PEO**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

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

Email: ederubeis@pangeaenv.com
cc/3rd Party:
PO:
ProjectNo: #1001.001; Hadjian-7240 Dublin

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

Requested TAT: 5 days
Date Received: 02/23/2015
Date Add-On: 04/28/2015
Date Printed: 04/28/2015

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
1502786-009	SB-3-4'	Soil	2/23/2015 9:40	☐	A											
1502786-010	SB-3-8'	Soil	2/23/2015 9:50	☐	A											

Test Legend:

1	8260VOC_S	2		3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Jena Alfaro

Add-On Prepared By: Maria Venegas

Comments: Naphthalene by 8260 on 009 & 010 4/28/15 STAT.

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.

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WORK ORDER SUMMARY

Client Name: PANGEA ENVIRONMENTAL SVCS., INC.
Project: #1001.001; Hadjian-7240 Dublin
Comments: Naphthalene by 8260 on 009 & 010 4/28/15 STAT.

QC Level: LEVEL 2
Client Contact: Elizabeth DeRubeis
Contact's Email: ederubeis@pangeaenv.com

Work Order: 1502786
Date Received: 2/23/2015
Date Add-On: 4/28/2015

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1502786-009A	SB-3-4'	Soil	SW8260B (VOCs) <Naphthalene>	1	Stainless Steel tube 2"x6"	2/23/2015 9:40	5 days		☐	
1502786-010A	SB-3-8'	Soil	SW8260B (VOCs) <Naphthalene>	1	Acetate Liner	2/23/2015 9:50	5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1502786

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: Elizabeth DeRubeis Bill To: Pangea
Company: Pangea Environmental Services, Inc.
1710 Franklin Street, Suite 200, Oakland, CA 94612
E-Mail: ederubeis@pangeaenv.com
Tele: (510) 836-3700 Fax: (510) 836-3709
Project #: 1001.001 Project Name: Hadjian- 7240 Dublin
Project Location: ~~7240~~ Dublin Blvd, Dublin
Sampler Signature:

SAMPLE ID	LOCATION (Field Point Name)	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other
SB-5-4'	SB-5	2/23	7:50	1	Tube		X				X			X
SB-5-8'	SB-5		8:30	1										
SB-5-12'	SB-5		8:30											
SB-5-16'	SB-5		8:30											
SB-5-20'	SB-5		8:30											
SB-5-24'	SB-5		8:30											
SB-5	SB-5		8:50	6	VOA	X						X		
SB-3-2'	SB-3		9:35	1	Tube		X							
SB-3-4'	SB-3		9:40											
SB-3-8'	SB-3		9:50											
SB-4-2'	SB-4		9:50											
SB-4-4'	SB-4		9:55											
SB-4-8'	SB-4		10:10											

Analysis Request

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)
X															
X															
X															
X															
X															
X															
X															
X															
X															
X															
X															
X															
X															

Other: Naphthalene 8260

Comments: Filter Samples for Metals analysis: Yes / No

hold

Relinquished By:	Date:	Time:	Received By:
[signature]	2/23/15	1205	[signature]
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 0.5
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB
added 4/28/15 START

PRESERVATION VOAS O&G METALS OTHER pH<2

COMMENTS:
hold all Samples
* taken off hold per email 2/23

APPENDIX F

Waste Manifest

Manifest

SOIL SAFE OF CA – TPST
Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment:	Transport Truck #:	Facility #:	Approval Number:	Load #
4,27,15		399/976	A07	44228	001

Generator and/or Consultant

Generator's Name and Billing Address:
DUBLIN AUTO WASH
7240 DUBLIN BLVD.
DUBLIN, CA 94568

Generator's Phone #:
Person to Contact:
FAX#:
Customer Account Number

Consultant's Name and Billing Address:

Consultant's Phone #:
Person to Contact:
FAX#:
Customer Account Number

Generation Site (Transport from): *(name & address)*
DUBLIN AUTO WASH
7240 DUBLIN BLVD.
DUBLIN, CA 94568

Site Phone #:
Person to Contact:
FAX#:

Designated Facility (Transport to): *(name & address)*
SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301

Facility Phone #: (800) 862-8001
Person to Contact: JOE PROVANSAL
FAX#: (760) 246-8004

Transporter Name and Mailing Address:
BELSHIRE
25971 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610
BESI: 253581

Transporter's Phone #: 949-460-5200
CAR000183913
Person to Contact: LARRY MOOTHART
460647
FAX#: 949-460-5210
Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0-10% ☐ 10-20% ☐ 20%-over ☐	Gas ☐ Diesel ☐ Other ☐	1 DM		37860	37320	540
Sand ☐ Organic ☐ Clay ☐ Other ☐	0-10% ☐ 10-20% ☐ 20%-over ☐	Gas ☐ Diesel ☐ Other ☐					.27

List any exception to items listed above: Scale Ticket # 119189

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils descried in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☐ Consultant ☐
Larry Moothart of BESI on behalf of generator
Signature and date: Month 4 Day 9 Year 15

Transporter

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: [illegible]
Signature and date: Month 4 Day 9 Year 15

Recycling Facility

Discrepancies:
7240 DUBL
1141192

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: J. PROVANSAL
Signature and date: 4-27-15

Please print or type.

TRANSPORTER COPY

NO. 710525 8

NON-HAZARDOUS WASTE DATA FORM

BES# 253581

GENERATOR

Generator's Name and Mailing Address
DUBLIN AUTO WASH
7240 DUBLIN BLVD.
DUBLIN, CA 94568

Generator's Site Address (if different than mailing address)
DUBLIN AUTO WASH
7240 DUBLIN BLVD.
DUBLIN, CA 94568

Generator's Phone:

Container type removed from site:
☒ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other
Quantity 5

Container type transported to receiving facility:
☐ Drums ☒ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other
Quantity 1 Volume 275 gallons

WASTE DESCRIPTION NON-HAZARDOUS WATER
GENERATING PROCESS WELL PURGING / DECON WATER

COMPONENTS OF WASTE	PPM	%
1. WATER		99-100%
2. TPH		<1%

COMPONENTS OF WASTE	PPM	%
3.		
4.		

Waste Profile PROPERTIES: pH 7-10 ☐ SOLID ☒ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER

HANDLING INSTRUCTIONS:

Generator Printed/Typed Name: Larry Mecthart of BESI on behalf of generator
Signature:
Month Day Year: 4 9 15

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: BELSHIRE
Phone#: 949-460-5200
Transporter 1 Printed/Typed Name: Larry Mecthart
Signature:
Month Day Year: 4 9 15
Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name: NIETO & SONS TRUCKING, INC.
Phone#: 714-990-6866
Transporter 2 Printed/Typed Name: Jeff Wyrick
Signature:
Month Day Year: 4 10 15
Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
DEMENNO KERDOON
2000 N. ALAMEDA ST.
COMPTON, CA 90222

Phone#: 310-537-7100

Printed/Typed Name: Marcus Worthley
Signature:
Month Day Year: 04 14 15
Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

7240 DUBL
1137278