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April 13, 2011

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

Subject: Semi-Annual Summary Report , October 2010 through March 2011

**Site: 76 Station No. 5748/6419
6401 Dublin Boulevard
Dublin, California
Fuel Leak Case No. RO0000459**

Dear Mr. Khatari;

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

If you have any questions or need additional information, please call:

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Sincerely,

PACIFIC CONVENIENCE & FUEL

LIZ BERMUDEZ
Senior Paralegal

Attachment

Semi-Annual Summary Report, October 2010 through March 2011

*76 Station No. 5748/6419
6401 Dublin Boulevard
Dublin, California*

*Alameda County Health Care Services Agency
No.: RO0000459*

GeoTracker Global ID No. T0600101443

Antea Group Project No. I42705748

April 13, 2011

Prepared for:
Mr. Paresh Khatri
Alameda County Health Care
Services Agency
1131 Harbor Bay Parkway,
Suite 250
Alameda, CA 94502-6577

Prepared by:
Antea™Group
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Attachment B	Blaine Tech Services Groundwater Sampling Procedures
Attachment C	Blaine Tech Services Groundwater Sampling Field Data Sheets
Attachment D	Certified Laboratory Analytical Report and Data Validation Form
Attachment E	Waste Manifest



1.0 SITE INFORMATION

Station Number:	76 Station No. 5748/6419
Site Address:	6401 Dublin Boulevard, Dublin, California, 94568
Contact:	Mr. Dennis Dettloff Project Manager Antea Group 11050 White Rock Road, Suite 110 Rancho Cordova, California 95670
Consulting Company:	Antea Group
Delta Project No.:	I42705748
Contact/ Primary Agency:	Mr. Paresh Khatri, Alameda County Health Care Services Agency

1.1 Work Performed (October 2010 through March 2011)

1. Blaine Tech Services, Inc. (Blaine Tech) conducted the semi-annual groundwater sampling event on March 8, 2011.
2. Antea Group replaced MW-1 with MW-1R in the same borehole. Antea Group prepared the *Site Investigation Report and Work Plan* dated February 3, 2011 to summarize results of these activities propose additional investigation.

1.2 Work Proposed (April through September 2011)

1. Antea Group prepared the *Semi-Annual Summary Report – October 2010 through March 2011*, contained herein.
2. Blaine Tech will conduct the semi-annual groundwater monitoring and sampling event during the third quarter 2011.

1.3 Background

Antea™ Group (formerly Delta Consultants) is pleased to submit this Quarterly Summary Report, First Quarter 2011 for the referenced site in Sacramento, CA (**Figure 1**). The subject site is an active 76 station located on the western corner of Dublin Boulevard and Dougherty Road in Dublin, California. The site is bounded to the south by Dublin Boulevard, to the northeast by Dougherty Road, and to the west-northwest by a shopping center. Properties in the immediate site vicinity are commercial, including service stations and retail facilities.



Current above ground site facilities consist of two dispenser islands, a car wash, and a station building/convenience store. Two 12,000-gallon gasoline underground storage tanks (USTs) are located in the common pit, east of the station building (**Figures 1 and 2**).

Previous investigation information and site history are presented as **Attachment A**. Blaine Tech’s procedures for groundwater monitoring and sampling, and equipment decontamination are presented as **Attachment B**. The groundwater monitoring and sampling field data sheets are presented as **Attachment C**. The groundwater sampling certified analytical report and chain-of-custody (COC) documentation are presented as **Attachment D**.

Site summary data has been tabled in the following:

- **Table 1** summarizes the current groundwater gauging and analytical data.
- **Table 2** summarizes the historical groundwater gauging and analytical data.
- **Table 3** summarizes the well construction details.
- **Table 4** summarizes the historical groundwater flow direction and gradient information.

This report summarizes the groundwater data collected to date, focusing on the most recent analytical data obtained from groundwater samples collected on March 8, 2011. This report has received a technical review by Mr. Dennis S. Dettloff, California Professional Geologist No. 7480.

2.0 CURRENT PROJECT STATUS

Current phase of project:	Groundwater Monitoring
Local Oversight Program (LOP) – Lead agency for cleanup oversight:	Alameda County Health Care Services Agency No. RO0000459
Contact:	Mr. Paresh Khatri
Monitoring well gauging schedule:	Semi-Annual: MW-1R, MW-3, and MW-5
Monitoring well sampling schedule:	Semi-Annual: MW-1R, MW-3, and MW-5
Total number of monitoring wells (Table 3):	3
Range of well depths (total depth below ground surface, bgs) (Table 3):	19-20 feet
Wells with historical measurable LNAPL (light non-aqueous phase liquid):	None
Generalized site geology:	Predominantly silt and clay with some poorly graded sand to 20 feet bgs the maximum depth explored.
Historical Depth to Water Range, in feet below top of casing (BTOC):	Min: 5.09 (MW-2, Q1 1998) Max: 13.37 (MW-8, Q1 2004)

Historical Groundwater Elevation Range, in feet above mean sea level:	Min: 316.60 (MW-8, Q1 2004) Max: 326.78 (MW-3, Q1 2011)
Local Receptors:	There is a canal 625 feet southeast of the site (See Attachment A)
Current Remediation Technique:	No active remediation

2.1 Groundwater Monitoring

Semi-annual groundwater monitoring and sampling was conducted at the site on March 8, 2011 by Blaine Tech Services per their standard sampling protocol (**Attachment B**). Three monitoring wells were gauged and sampled. A copy of Blaine Tech's field notes is included as **Attachment C**. Measured depth to groundwater and respective groundwater elevations are summarized in **Table 1**. Depths to water were measured to within 0.01 feet BTOC in monitoring wells MW-1R, MW-3, and MW-5 using a water level indicator. Historic laboratory analytical results are summarized in **Table 2**. Gauging and sampling data from the most recent quarterly event are summarized below.

Well gauging and sampling date:	March 8, 2011
Wells gauged:	MW-1R, MW-3, and MW-5
Wells sampled:	MW-1R, MW-3, and MW-5
Purge method:	3 well casing volumes via electric, submersible pump
Sample collection method:	Disposable bailers
Groundwater parameters measured (Attachment C):	Temperature, pH, conductivity, Oxygen Reduction Potential (ORP), Turbidity, and D.O.
Wells with measurable LNAPL:	None
Depth to Water Range (ft BTOC):	6.43 (MW-1R) to 6.62 (MW-3)
Groundwater Elevation Range (ft above mean sea level):	326.51 (MW-5) to 326.78 (MW-3)
Change in water depths from previous event (average change for all gauged wells):	4.16 foot increase (Note: new survey elevations increase TOC Elevation by approximately 2.86 feet)
Groundwater Flow Direction and Gradient (ft/ft):	0.0029 ft/ft south

All monitoring and sampling activities for the site during the first quarter 2011 were conducted by Blaine Tech and reviewed and certified by a California Professional Geologist.

2.1.1 Groundwater Sample Analysis

Groundwater samples collected from monitoring wells MW-1R, MW-3, and MW-5 were submitted with COC documentation to Pace Laboratory (Pace) in Seattle, WA, a California state-certified laboratory (No. 01153CA). Samples were analyzed for the presence of total petroleum hydrocarbons as gasoline (TPHg) by the CA LUFT Method, and benzene, toluene, ethylbenzene, total xylenes (collectively BTEX), methyl tertiary-butyl ether (MTBE), and ethanol by Environmental Protection Agency (EPA) Method 8260.

2.1.2 Groundwater Quality Data

Groundwater analytical results are tabulated in **Table 1** (current) and **Table 2** (historical). During the March 2011 sampling event, the following ranges of contaminant concentrations were reported in the specified site wells (only the constituents detected are shown):

Constituents	Number of Reported Concentrations Above LRL of Total Samples Analyzed	Minimum Reported Concentration, in µg/L (Sample ID)	Maximum Reported Concentration, in µg/L (Sample ID)
TPHg	1 of 3	<50 (MW-1R, MW-3)	94.6 (MW-5)
Benzene	0 of 3	<0.50 (MW-1R, MW-3, and MW-5)	<0.50 (MW-1R, MW-3, and MW-5)
MTBE	3 of 3	0.85 (MW-1R)	116 (MW-5)

Key: LRL = Laboratory reporting limits

µg/L = Micrograms per liter

2.1.3 Contaminants of Concern

TPHg: TPHg was above the laboratory's indicated reporting limits in the groundwater sample collected and submitted for analysis from monitoring well MW-5 (94.6 µg/L) during the current event. However, as noted above, the laboratory report indicated that TPHg reported in the groundwater sample collected from monitoring well MW-5 did not match the pattern of the laboratory standard for gasoline. This is likely due to the presence of MTBE in the samples.

Benzene: Benzene was below the laboratory's indicated reporting limits in each of the groundwater samples collected and submitted for analysis during the current event.

MTBE: MTBE was above the laboratory's indicated reporting limit in the groundwater samples collected and submitted for analysis from monitoring wells MW-1R (0.85 µg/L), MW-3 (19.5 µg/L), and MW-5 (116 µg/L) during the current event.

All other constituents tested were below the laboratory's indicated reporting limits in the groundwater samples collected and submitted for analysis during the current event. The March 8, 2011 groundwater analytical results and historical groundwater monitoring and analytical results are presented in **Table 1** and **Table 2**. Pace Laboratory's analytical report and chain-of-custody documentation are presented as **Attachment D**.

The March 8, 2011 groundwater elevation contour map is presented as **Figure 3**. An isoconcentration map for MTBE is presented as **Figure 4**. Historical groundwater flow directions are shown on a rose diagram, presented as **Figure 5**.

2.1.4 Waste Disposal Summary

A total of approximately 23 gallons of waste water were generated during the March 2011 groundwater sampling event. The generated waste water was temporarily stored by Blaine Tech in a 2000-gallon poly tank. The generated waste water was later transported for proper disposal at Seaport Environmental in Redwood City, California, where the waste water was properly disposed. The method of containment and disposal is reported in Blaine Tech's procedures for groundwater sampling in **Attachment B**. A copy of the waste disposal manifest is presented as **Attachment E**.

2.1.5 Quality Assurance / Quality Control

Antea Group's QA/QC measures included a detailed QA/QC data validation check on the Pace laboratory analytical results for the March 2011 sampling event. Antea Group's laboratory data validation checklist and the Pace laboratory report are presented as **Attachment D**. A summary of QA/QC information follows.

Laboratory QA/QC Performed:	Yes (validated by Antea Group)
Laboratory Data Qualifiers:	One (n1)
Validity of Laboratory Data:	Data set is Valid

Data Qualifiers:

n1 – The TPHg result (for MW-5) did not match the pattern of the laboratory standard for gasoline.

Based on a review of the laboratory's analytical report, including their QA/QC procedures and those implemented by Antea Group, we conclude that the laboratory data obtained during this groundwater sampling event are valid for their intended purpose.

2.2 Regulatory Correspondence

In a letter from Paresh Khatri, ACHCSA approved Delta's work plan titled *Monitoring Well MW-1 Redevelopment Report and Work Plan*, dated September 20, 2010.

In a letter from Paresh Khatri dated November 18, 2010, ACHCSA commented on the lack of an access agreement between PC&F and Tralee Village, LLC. (owner of offsite property 6599 Dublin Blvd). Paresh recommended Tralee Village, LLC ask for reasonable access fees to come to an agreement or they will be legally responsible for the contaminated condition of the 6599 Dublin Blvd and may be required to conduct remedial investigation of the contamination at their own expense.

In an email from Paresh Khatri dated January 13, 2011, asked for a summary report detailing the monitoring well replacement and the proposed down-gradient boring.

2.3 Remedial Activities

There are currently no active remediation activities taking place at this site.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Antea Group recommends continuing the sampling program until the additional site investigation can be completed. At which time if it is shown that contaminants are not migrating off-site, Antea Group will prepare and submit a site closure request.

4.0 Remarks

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. For any reports cited that were not generated by Delta or Antea Group, the data from those reports is used "as is" and is assumed to be accurate. Antea Group does not guarantee the accuracy of this data for the referenced work performed nor the inferences or conclusions stated in these reports. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this report.

Prepared by:

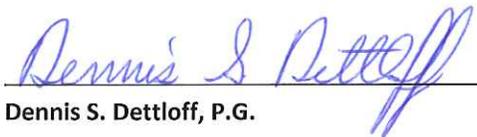


Jonathan Fillingame

Staff Geologist

Information, conclusions, and recommendations provided by Antea Group in this document regarding the site have been prepared under the supervision of and reviewed by the licensed professional whose signature appears below.

Licensed Approver:



Dennis S. Dettloff, P.G.

Project Manager

California Registered Professional Geologist No. 7480

Date: 4/13/11



cc: Mr. Paresh Khatri, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, Suite 250,
Alameda, CA 94502-6577
GeoTracker (upload)

Figures

- Figure 1 Site Locator Map
- Figure 2 Site Plan
- Figure 3 Groundwater Elevation Contour Map – March 8, 2011
- Figure 4 Dissolved Phase MTBE Isoconcentration Map – March 8, 2011
- Figure 5 Historical Groundwater Flow Directions

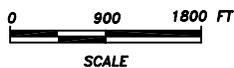
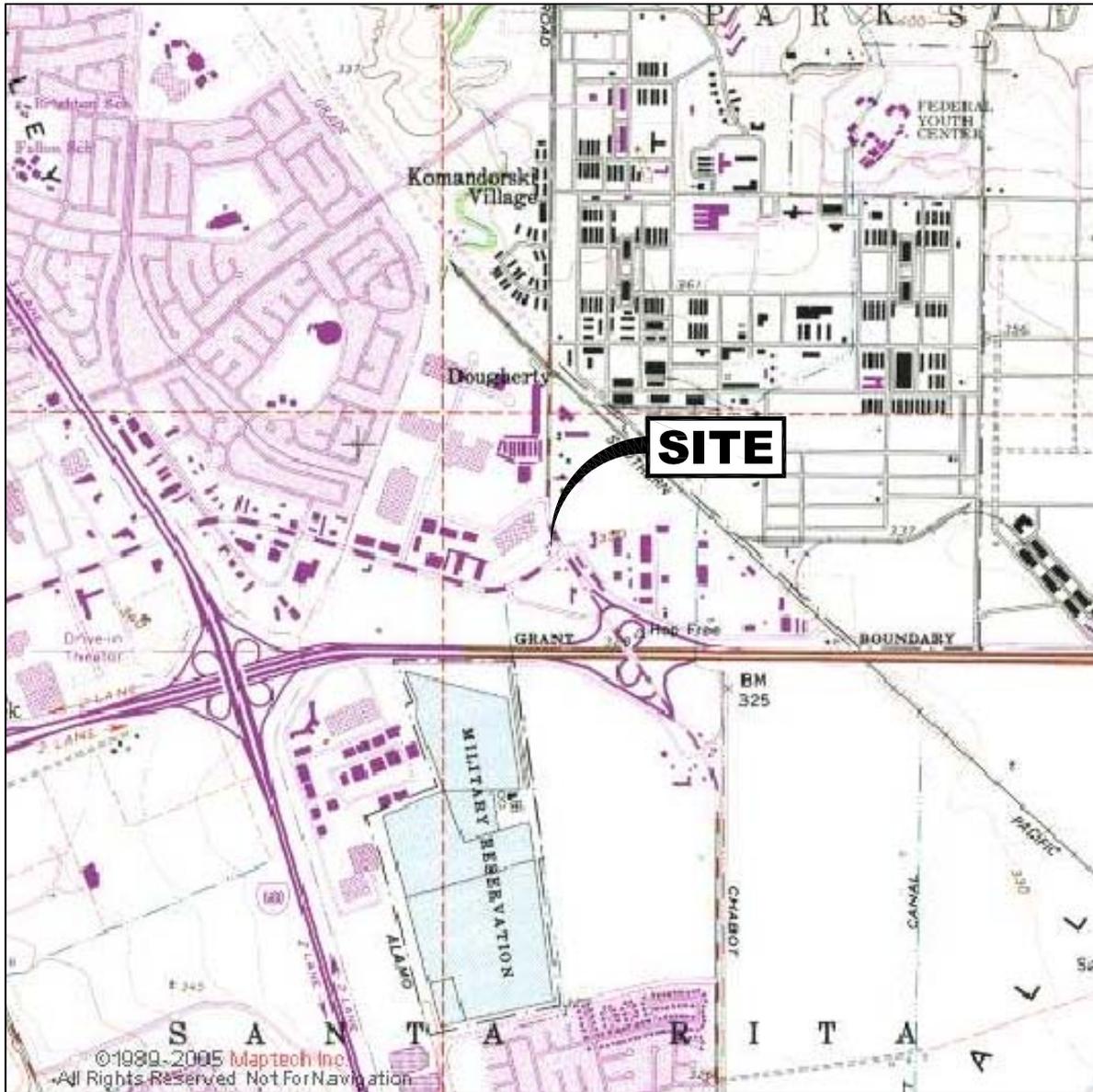


FIGURE 1

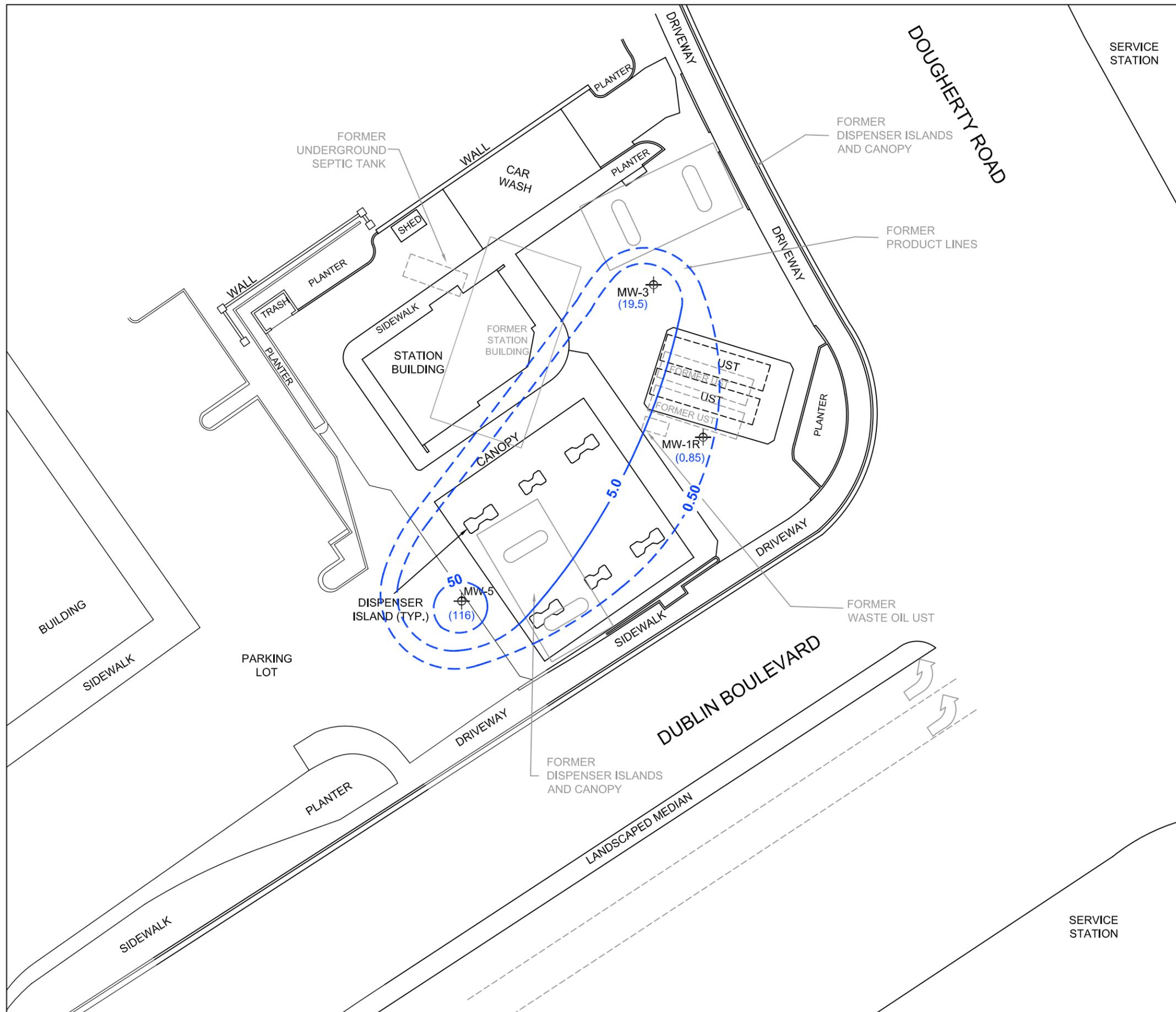
SITE LOCATION MAP

76 STATION NO. 5748 / 6419
 6401 DUBLIN BOULEVARD
 DUBLIN, CALIFORNIA

PROJECT NO. C105748	DRAWN BY JH 2/2/11
FILE NO. 5748-SiteLocator	PREPARED BY JH
REVISION NO.	REVIEWED BY DD

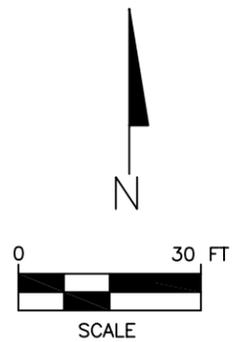


SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, DUBLIN (1998) QUADRANGLE



EXPLANATION:

- ⊕ MONITORING WELL
- (19.5) DISSOLVED PHASE MTBE ISOCONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- 5.0 — DISSOLVED PHASE MTBE ISOCONCENTRATION CONTOUR (µg/L)
- MTBE = METHYL TERTIARY BUTYL ETHER



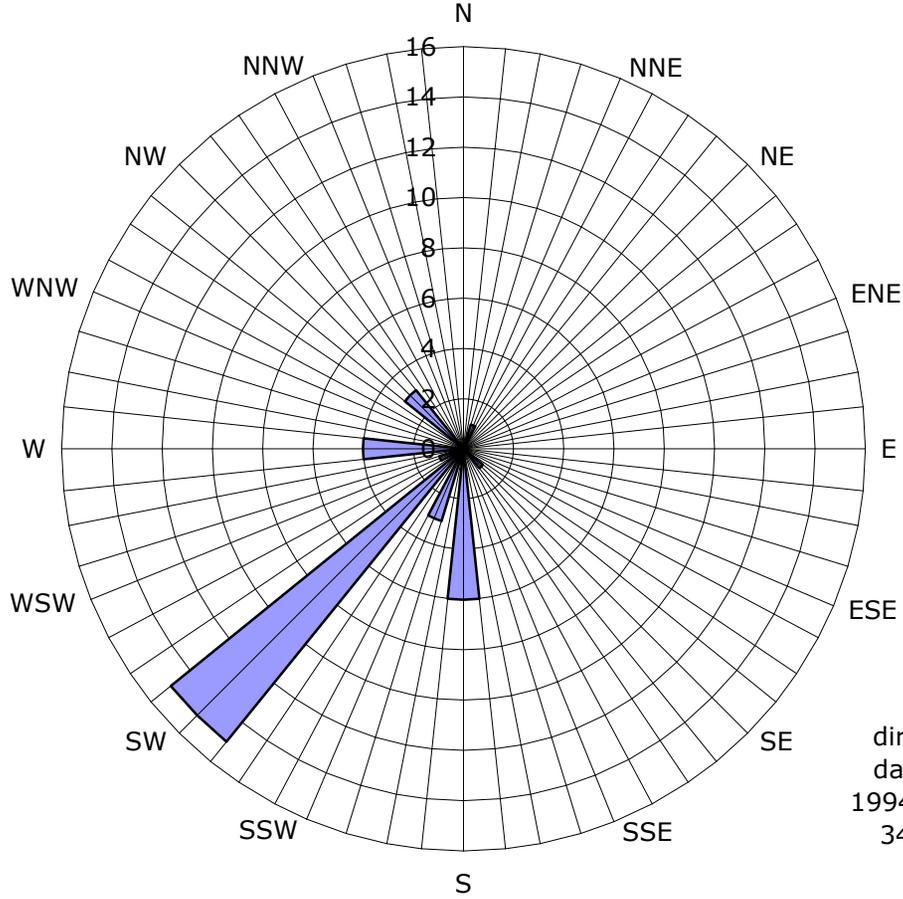
SITE PLAN BASED OFF OF A SURVEY BY MORROW SURVEYING ON 12/29/10.

FIGURE 4
 DISSOLVED PHASE MTBE ISOCONCENTRATION MAP
 MARCH 8, 2011
 76 STATION NO. 5748/6419
 6401 DUBLIN BOULEVARD
 DUBLIN, CALIFORNIA

PROJECT NO. I42705748	PREPARED BY JF	DRAWN BY JH
DATE 04/04/11	REVIEWED BY DD	FILE NAME 76-5748S



Figure 5
Historic Groundwater Flow Directions
76 Station No. 5748/6419
 6401 Dublin Blvd.
 Dublin, California



Legend
 Groundwater flow
 directions are based on
 data from third quarter
 1994 to first quarter 2011.
 34 data points shown.

■ Groundwater Flow Direction

Tables

Table 1	Current Groundwater Gauging and Analytical Data
Table 2	Historical Groundwater Gauging and Analytical Data
Table 3	Well Construction Details
Table 4	Groundwater Gradient and Flow Direction Data

TABLE 1
CURRENT GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Station No. 5748/6419
6401 DUBLIN BLVD
DUBLIN, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA						
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	Ethanol (ug/L)
MW-1R	3/8/2011	333.08	6.43	NP	326.65	<50.0	<0.50	<0.50	<0.50	<1.5	0.85	<250
MW-3	3/8/2011	333.4	6.62	NP	326.78	<50.0	<0.50	<0.50	<0.50	<1.5	19.5	<250
MW-5	3/8/2011	333.05	6.54	NP	326.51	94.6	<0.50	<0.50	<0.50	<1.5	116	<250

Gauging Notes:

TOC - Top of Casing
ft - Feet
NP - LNAPL not present
LNAPL - Light non-aqueous phase liquid
* - Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.75)
-- - No information available

Analytical Notes:

< - Below the laboratory's indicated reporting limit
ug/L - micrograms/liter
TPHg- Total Petroleum Hydrocarbons as gasoline
MTBE- Methyl tertiary-butyl ether
Bold- Above the laboratory's indicated reporting limit

TABLE 2
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Service No. 5748/6419
6401 DUBLIN BLVD
DUBLIN, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	TBA (ug/L)	Ethanol (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	DRO (ug/L)
MW-3	2/11/2000	330.49	6.71	NP	323.78	ND	ND	ND	ND	ND	46	--	--	--	--	--	--	--	--	--
	7/26/2000	330.60	7.35	NP	323.25	ND	ND	ND	ND	ND	927	--	--	--	--	--	--	--	--	--
	2/2/2001	330.60	7.17	NP	323.43	ND	ND	ND	ND	ND	2240	--	--	--	--	--	--	--	--	--
	5/16/2001	330.60	NG	NG	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/24/2001	330.60	7.88	NP	322.72	<50	<0.50	<0.50	<0.50	<0.50	2500	--	--	--	--	--	--	--	--	--
	10/11/2001	330.59	7.83	NP	322.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/6/2002	330.59	6.73	NP	323.86	<1000	<10	<10	<10	<10	4300	3300	<670	<17000	<33	<33	<33	<33	<33	--
	7/30/2002	330.59	7.38	NP	323.21	<2500	<25	<25	<25	<50	--	4900	--	--	--	--	--	--	--	--
	2/17/2003	330.59	6.49	NP	324.10	<2500	<25	<25	<25	<50	--	4400	--	--	--	--	--	--	--	--
	8/18/2003	330.59	6.70	NP	323.89	4400	<20	<20	<20	<40	--	3300	--	<20000	--	--	--	--	--	--
	2/24/2004	330.59	6.11	NP	324.48	<2500	<25	<25	<25	<50	--	3000	--	<25000	--	--	--	--	--	--
	9/17/2004	330.59	7.61	NP	322.98	<1300	<13	<13	<13	<25	--	2300	--	<1300	--	--	--	--	--	--
	3/22/2005	330.59	5.79	NP	324.80	<1300	<0.50	<0.50	<0.50	<1.0	--	1600	--	<1300	--	--	--	--	--	--
	9/29/2005	330.59	9.24	NP	321.35	680	<0.50	<0.50	<0.50	<1.0	--	1600	--	<250	--	--	--	--	--	--
	1/9/2006	330.59	7.74	NP	322.85	410	<0.50	<0.50	<0.50	<1.0	--	1200	--	<250	--	--	--	--	--	--
	9/27/2006	330.59	8.54	NP	322.05	780	<5.0	<5.0	<5.0	<5.0	--	1500	--	<2500	--	--	--	--	--	--
	3/29/2007	330.59	8.82	NP	321.77	230	<0.50	<0.50	<0.50	<0.50	--	230	--	<250	--	--	--	--	--	--
	9/21/2007	330.59	9.38	NP	321.21	140	<0.50	<0.50	<0.50	<0.50	--	160	--	<250	--	--	--	--	--	--
	3/27/2008	330.59	7.08	NP	323.51	84	<0.50	<0.50	<0.50	<1.0	--	98	--	<250	--	--	--	--	--	--
	9/2/2008	330.59	7.84	NP	322.75	<50	<0.50	<0.50	<0.50	<1.0	--	50	--	<250	--	--	--	--	--	--
3/6/2009	330.59	5.85	NP	324.74	<50	<0.50	<0.50	<0.50	<1.0	--	43	--	<250	--	--	--	--	--	--	
8/21/2009	330.59	8.04	NP	322.55	<50	<0.50	<0.50	<0.50	<1.0	--	33	--	<250	--	--	--	--	--	--	
3/10/2010	330.59	6.43	NP	324.16	<50.0	<0.50	<0.50	<0.50	<1.5	--	16.7	--	<250	--	--	--	--	--	--	
9/24/2010	330.59	8.02	NP	322.57	<50.0	<0.50	<0.50	<0.50	<1.5	--	23.5	--	<250	--	--	--	--	--	--	
3/8/2011	333.40	6.62	NP	326.78	<50.0	<0.50	<0.50	<0.50	<1.5	--	19.5	--	<250	--	--	--	--	--	--	
MW-4	5/21/1999	330.36	6.43	NP	323.93	ND	ND	ND	ND	ND	960	910	--	--	--	--	--	--	--	
	8/2/1999	330.36	7.34	NP	323.02	ND	10	ND	13	11	ND	--	--	--	--	--	--	--	--	
	2/11/2000	330.36	6.92	NP	323.44	ND	ND	ND	ND	ND	2700	--	--	--	--	--	--	--	--	
	7/26/2000	330.35	7.68	NP	322.67	ND	ND	ND	ND	ND	3710	--	--	--	--	--	--	--	--	
	2/2/2001	330.35	7.40	NP	322.95	ND	ND	ND	ND	ND	5340	--	--	--	--	--	--	--	--	
	8/24/2001	330.35	8.14	NP	322.21	<50	<0.50	<0.50	<0.50	<0.50	7800	--	--	--	--	--	--	--	--	
	10/11/2001	330.35	8.29	NP	322.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	2/6/2002	330.35	7.28	NP	323.07	<100	<1.0	<1.0	<1.0	<1.0	2300	3100	<500	<12000	<25	<25	<25	<25	<25	--
	7/30/2002	330.35	7.76	NP	322.59	<500	<5.0	<5.0	5.8	<10	--	1600	--	--	--	--	--	--	--	--
	2/17/2003	330.35	6.85	NP	323.50	<1000	<10	<10	<10	<20	--	2200	--	--	--	--	--	--	--	--
	8/18/2003	330.35	7.30	NP	323.05	2000	<10	<10	<10	<20	--	1400	--	<10000	--	--	--	--	--	--
	2/24/2004	330.35	6.55	NP	323.80	<2000	<20	<20	<20	<40	--	2000	--	--	--	--	--	--	--	--
	9/17/2004	330.35	8.00	NP	322.35	340	<2.5	<2.5	<2.5	<5.0	--	610	--	<250	--	--	--	--	--	--
	3/22/2005	330.35	6.37	NP	323.98	<200	<0.50	<0.50	<0.50	<1.0	--	290	--	<200	--	--	--	--	--	--
	9/29/2005	330.35	9.43	NP	320.92	84	<0.50	<0.50	0.53	<1.0	--	57	--	<250	--	--	--	--	--	--
1/9/2006	330.35	7.97	NP	322.38	100	<0.50	<0.50	1.5	<1.0	--	150	--	<250	--	--	--	--	--	--	
9/27/2006	330.35	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	
MW-5	5/21/1999	330.20	5.99	NP	324.21	ND	ND	ND	ND	ND	32	33	--	--	--	--	--	--	--	
	8/2/1999	330.20	6.83	NP	323.37	ND	ND	ND	ND	ND	230	--	--	--	--	--	--	--	--	
	2/11/2000	330.20	6.34	NP	323.86	ND	ND	ND	ND	ND	98	--	--	--	--	--	--	--	--	
	7/26/2000	330.20	7.06	NP	323.14	ND	ND	ND	ND	ND	25.9	--	--	--	--	--	--	--	--	
	2/2/2001	330.20	6.81	NP	323.39	ND	ND	ND	ND	ND	18	--	--	--	--	--	--	--	--	
8/24/2001	330.20	7.60	NP	322.60	<50	<0.50	<0.50	<0.50	<0.50	18	--	--	--	--	--	--	--	--		
10/11/2001	330.18	7.34	NP	322.84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2/6/2002	330.18	6.55	NP	323.63	<50	<0.50	<0.50	<0.50	<0.50	7.7	7.9	<20	<500	<1.0	<1.0	<1.0	<1.0	<1.0	--	
7/30/2002	330.18	7.15	NP	323.03	<50	<0.50	<0.50	<0.50	<1.0	--	4.6	--	--	--	--	--	--	--	--	
2/17/2003	330.18	6.27	NP	323.91	<50	<0.50	<0.50	<0.50	<1.0	--	2.8	--	--	--	--	--	--	--	--	
8/18/2003	330.18	6.57	NP	323.61	75	<0.50	<0.50	<0.50	<1.0	--	3.8	--	<500	--	--	--	--	--	--	
2/24/2004	330.18	5.88	NP	324.30	<50	<0.50	<0.50	<0.50	<1.0	--	3.3	--	<500	--	--	--	--	--	--	
9/17/2004	330.18	7.41	NP	322.77	<50	<0.50	<0.50	<0.50	1.4	--	6.0	--	--	--	--	--	--	--	--	
3/22/2005	330.18	5.58	NP	324.60	<50	<0.50	<0.50	<0.50	<1.0	--	5.8	--	<50	--	--	--	--	--	--	

TABLE 2
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
 76 Service No. 5748/6419
 6401 DUBLIN BLVD
 DUBLIN, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	TPHg (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (SW8021B) (ug/L)	MTBE (SW8260B) (ug/L)	TBA (ug/L)	Ethanol (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	DRO (ug/L)
MW-5	8/18/2003	329.51	5.99	NP	323.52	57	<0.50	<0.50	<0.50	<1	--	6.2	--	<500	--	--	--	--	--	--
	2/24/2004	329.51	5.27	NP	324.24	<50	<0.50	<0.50	<0.50	<1.0	--	5.6	--	<500	--	--	--	--	--	--
	9/17/2004	329.51	6.80	NP	322.71	<50	<0.50	<0.50	<0.50	<1.0	--	4.8	--	<50	--	--	--	--	--	--
	3/22/2005	329.51	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD

Gauging Notes:

TOC - Top of Casing
 ft - Feet
 NP - LNAPL not present
 LNAPL - Light non-aqueous phase liquid
 * - Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.75)
 ABD - Well Abandoned
 NG - Not gauged
 WD - Well Destroyed
 DRY - Well is dry
 -- - No information available

Analytical Notes:

-- - No information available
 < - Below the laboratory's indicated reporting limit
 ABD - Well Abandoned
 DRY - Well was Dry; sample could not be taken
 ND - Not detected, and detection limit is not known
 NS - Well not sampled.
 ug/L - micrograms/liter
 WD - Well Destroyed
 TPHg- Total Petroleum Hydrocarbons as gasoline
 MTBE- Methyl tertiary-butyl ether
 TBA- Tertiary-butyl alcohol
 DIPE- Di-isopropyl ether
 ETBE- Ethyl tertiary-butyl ether
 TAME- Tertiary-amyl methyl ether
 DRO- diesel range organics

TABLE 3
Well Construction Details
76 Station No. 5748/6419
6401 Dublin
Dublin, CA



Well I.D.	Construction Date	Elevation (TOC feet above MSL)	Boring Depth (feet bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Casing Material	Slot Size (inches)	Screened Interval (feet bgs)	Filter Pack Interval (feet bgs)	Bentonite Seal Interval (feet bgs)	Cement Seal Interval (feet bgs)	Comments
Groundwater Monitoring Wells												
MW-1R	12/21/10	333.08	20	10	4	PVC	0.02	5-15	4-15	3-4	0-3	Bentonite from 15 to 20 feet
MW-3	02/24/94	333.40	20	8	2	PVC	0.01	4-19	3-19	2-3	0-2	
MW-5	05/10/99	333.05	19	8	2	PVC	0.02	4-19	3.5-19	2.5-3.5	0-2.5	

Notes:

bgs = below ground surface

TOC = top of casing

MSL = mean sea level

-- = Not available

Elevations are in US survey feet, Vertical Datum is NAD 83

All wells were surveyed on December 29, 2010

TABLE 4
Groundwater Gradient and Flow Direction Data

76 Station No. 5748/6419
6401 Dublin Blvd.
Dublin, California

Site	Monitoring Date	Groundwater Gradient (feet per foot)	Groundwater Flow Direction															
			N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW
5748	08/25/94	0.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	11/18/94	0.00	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	02/15/95	0.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	05/17/95	0.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	08/25/95	0.01	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	11/28/95	0.004	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	02/26/96	0.006	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	08/23/96	0.01	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	02/17/97	0.003	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	08/18/97	0.0005	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	02/02/98	0.001	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	08/24/98	0.002	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	02/10/99	0.003	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	08/02/99	0.004	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	02/11/00	0.007	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	07/26/00	0.006	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	02/02/01	0.004 ; 0.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	08/24/01	0.005 ; 0.02	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	02/06/02	0.003 ; 0.01	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	07/30/02	0.002 ; 0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	02/17/03	0.005 ; 0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	08/18/03	0.003	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	02/24/04	0.010	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	09/17/04	0.010	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	03/22/05	0.020	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	09/29/05	0.007	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
	01/09/06	0.010	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	09/27/06	0.010	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	03/27/07	0.010	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	09/21/07	0.020	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	03/27/08	0.007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	09/02/08	0.005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	03/06/09	0.005	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	08/21/09	0.005	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
03/12/10	0.003	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
09/24/10	0.006	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	
03/08/11	0.003	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
		0.006 Average	0	1	0	0	0	0	1	0	6	3	15	1	4	0	3	0

Explanation

NA = Not available
Number of Events = 34

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Attachment A

Summary of Previous Environmental Investigations

SUMMARY OF PREVIOUS ENVIRONMENTAL INVESTIGATIONS

September 1993: Two 10,000-gallon gasoline USTs, one 55-gallon waste-oil UST, and the associated product piping were removed from the site subsequent to confirmation sampling. Groundwater was observed entering the UST excavation. Concentrations of petroleum hydrocarbons in confirmation soil samples beneath the fuel USTs were non-detect to low. Petroleum hydrocarbon and volatile organic compounds (VOCs) concentrations in confirmation soil samples beneath the waste oil UST were non-detect to low, and concentrations of metals were considered background levels. Petroleum hydrocarbon and lead concentrations in confirmation soil samples from the dispenser islands were non-detect, and low, respectively. Petroleum hydrocarbon and lead concentrations in confirmation soil samples from the piping trenches were non-detect, and low, respectively.

February 1994: Three on-site monitoring wells (MW-1 through MW-3) were installed.

June 1999: Four on-site monitoring wells (MW-4 through MW-7) were installed to a depth of approximately 19 feet below ground surface (bgs).

November 1999: A four-inch diameter groundwater observation and extraction well (TPW-1) was installed in the gasoline UST pit backfill to allow purging of MTBE impacted groundwater.

September 2001: Two off-site monitoring wells (MW-8 and MW-9) were installed to a depth of 20 feet bgs.

October 2003: Site environmental consulting responsibilities were transferred to TRC.

December 2004: Off-site monitoring wells MW-8 and MW-9 were abandoned due to construction activities planned at those locations by Pin Brothers Fine Homes.

January 12, 2006: On-site monitoring wells MW-2, MW-4, MW-6, and MW-7 were abandoned at the request of the City of Dublin in anticipation of street widening on both Dougherty Road and Dublin Boulevard.

December 21, 2010: MW-1 was replaced with MW-1R after the casing in MW-1 was found to be compromised. MW-1 was over-drilled and MW-1R was installed in the same boring.



January 2011: Delta Consultants rebranded to Antea Group.

SENSITIVE RECEPTORS SURVEY

July 3, 2007: TRC completed a sensitive receptor survey for the site. According to California Department of Water Resources (DWR) and the Zone 7 Water Agency records, four water supply wells are located within a one-half mile of the site. Three of the wells are listed by the Zone 7 Water Agency as water supply wells and are located approximately 1,940 feet east, 2,175 feet north, and 2,070 feet northwest of the site. One well is listed by the Zone 7 Water Agency as an abandoned water supply well and is located approximately 2,440 feet west-southwest of the site.

Three surface water bodies were identified within a one-half mile of the site. San Ramon Creek is located approximately 2,145 feet northwest of the site, an unnamed canal is located approximately 625 feet southwest of the site, and the Chabot Canal is located approximately 1,650 feet east of the site.

Current Consultant: Antea Group

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Attachment B

Blaine Tech Services Groundwater Sampling Procedures

BLAINE TECH SERVICES, INC. METHODS AND PROCEDURES FOR THE ROUTINE MONITORING OF GROUNDWATER WELLS

SAMPLING PROCEDURES OVERVIEW

SAFETY

All groundwater monitoring assignments performed for DELTA comply with safety guidelines, 29 CFR 1910.120 and SB-198 Injury and Illness Prevention Program (IIPP). All Field Technicians receive the full 40 hour 29CFR 1910.120 OSHA SARA HAZWOPER course, medical clearance and on-the-job training prior to commencing any work on any DELTA COP/ELT site.

INSPECTION AND GAUGING

Wells are inspected prior to evacuation and sampling. The condition of the wellhead is checked and noted according to a wellhead inspection checklist.

Standard measurements include the depth to water (DTW) and the total well depth (TD) obtained with industry standard electronic sounders which are graduated in increments of hundredths of a foot.

The water in each well is inspected for the presence of Immiscibles or sheen and when free product is suspected, it is confirmed using an electronic interface probe (e.g. MMC). No samples are collected from a well containing free product.

EVACUATION

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and are set at no less than four case volumes in some jurisdictions.

Well purging devices are selected on the basis of the well diameter and the total volume to be evacuated. In most cases the well will be purged using an electric submersible pump (i.e. Grundfos) suspended near (but not touching) the bottom of the well. Small volumes of purgewater are often removed by hand bailing with a disposable bailer.

PARAMETER STABILIZATION

Well purging completion standards include minimum purge volumes, but additionally require stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature. Instrument readings are obtained at regular intervals during the evacuation process (no less

than once per case volume).

Stabilization standards for routine quarterly monitoring of fuel sites include the following: Temperature is considered to have stabilized when successive readings do not fluctuate more than +/- 1 degree Celsius. Electrical conductivity is considered stable when successive readings are within 10%. pH is considered to be stable when successive readings remain constant or vary no more than 0.2 of a pH unit.

DEWATERED WELLS

Normal evacuation removes no less than three case volumes of water from the well. However, less water may be removed in cases where the well dewateres and does not recharge.

Wells known to dewater are evacuated as early as possible during each site visit in order to allow for the greatest amount of recovering. Any well that does not recharge to 80% of its original volume will be sampled prior to the departure of our personnel from the site in order to eliminate the need of a return visit.

In jurisdictions where a certain percentage of recovery is included in the local completion standard, our personnel follow the regulatory expectation.

PURGEWATER CONTAINMENT

All non-hazardous purgewater evacuated from each groundwater monitoring well is captured and contained in on-board storage tanks on the Sampling Vehicle and/or special water hauling trailers. Effluent from the decontamination of reusable apparatus (sounders, electric pumps and hoses etc.), consisting of groundwater combined with deionized water and non-phosphate soap, is also captured and pumped into effluent tanks.

Non hazardous purgewater is transported under standard Bill of Lading or Non-Hazardous manifest to a Blaine Tech Services, Inc. facility before being transported to an approved disposal facility.

SAMPLE COLLECTION DEVICES

All samples are collected using disposable bailers.

SAMPLE CONTAINERS

Sample material is decanted directly from the sampling bailer into sample containers provided by the laboratory which will analyze the samples. The type of sample container, material of construction, method of closure and filling requirements are specific to the intended analysis. Chemicals needed to preserve the sample material are commonly placed inside the sample containers by the laboratory or glassware vendor prior to delivery of the bottle to our personnel. The laboratory sets the number of replicate containers.

TRIP BLANKS

Upon request, a Trip Blank is carried to each site and is kept inside the cooler for the duration of the sampling event. It is turned over to the laboratory for analysis with the samples from that site.

DUPLICATES

Upon request, one Duplicate sample is collected at each site. It is up to the Field Technician to choose the well at which the Duplicate is collected. Typically, a duplicate is collected from one of the most contaminated wells. The Duplicate sample is labeled DUP thus rendering the sample blind.

SAMPLE STORAGE

All sample containers are promptly placed in food grade ice chests for storage in the field and transport (direct or via our facility) to the analytical laboratory that will perform the intended analytical procedures. These ice chests contain quantities of restaurant grade ice as a refrigerant material. The samples are maintained in either an ice chest or a refrigerator until relinquished into the custody of the laboratory or laboratory courier.

DOCUMENTATION CONVENTIONS

Each and every sample container has a label affixed to it. In most cases these labels are generated by our office personnel and are partially preprinted. Labels can also be hand written by our field personnel. The site is identified with the store number and site address, as is the particular groundwater well from which the sample is drawn (e.g. MW-1, MW-2, S-1 etc.). The time at which the sample was collected and the initials of the person collecting the sample are handwritten onto the label.

Chain of Custody records are created using client specific preprinted forms following USEPA specifications.

Bill of Lading records are contemporaneous records created in the field at the site where the non-hazardous purgewater is generated. Field Technicians use preprinted Bill of Lading forms.

DECONTAMINATION

All equipment is brought to the site in clean and serviceable condition and is cleaned after use in each well and before subsequent use in any other well. Equipment is decontaminated before leaving the site.

The primary decontamination device is a commercial steam cleaner. The steam cleaner is de-tuned to function as a hot pressure washer which is then operated with high quality deionized water which is produced at our facility and stored onboard our sampling vehicle. Cleaning is facilitated by the use of proprietary fixtures and devices included in the patented workstation that is incorporated in each sampling vehicle. The steam cleaner is used to decon reels, pumps

and bailers.

Any sensitive equipment or parts (i.e. Dissolved Oxygen sensor membrane, sounder etc.) that cannot be washed using the hot high pressure water, will be sprayed with a non-phosphate soap and deionized water solution and rinsed with deionized water.

EXAMPLE: The sounder is cleaned between wells using the non-phosphate soap and deionized water solution followed by deionized water rinses. The sounder is then washed with the steam cleaner between sites or as necessitated by use in a particularly contaminated well.

DISSOLVED OXYGEN READINGS

All Dissolved Oxygen readings are taken using YSI meters (e.g. YSI Model 550 meter). These meters are equipped with membrane probe that enables them to collect accurate in-situ readings.

The probe and reel is decontaminated between wells as described above. The meter is calibrated as per the instructions in the operating manual. The probe is lowered into the water column allowed to stabilize before use.

OXYIDATON REDUCTION POTENTIAL READINGS

All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter GP). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual. In use the probe is placed in a cup of freshly obtained monitoring well water and allowed to stabilize.

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Dublin, CA
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Attachment C

Blaine Tech Services Groundwater Sampling Field Data Sheets

COP-ELT Groundwater Sampling Form

Site Address:	6401 Dublin Blvd Dublin		
Project No:	2705748	Field Technician:	B. Danell
Field Point:	MW-3	Date:	3/8/11
Depth to Water (DTW) (ft bgs):	6.62	Well Diameter (in):	② 4 6 8
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	18.32	Water Column Height (ft):	11.70

Purging Info and Calculations:

Purge Method: Low-Flow <u>3 casing volumes</u> Other: _____	Purge Equipment: <u>Electric Submersible</u> Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: <u>Disposable Bailer</u> / BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>11.70</u>	X Conversion Factor (gal/ft): <u>0.17</u>	= Casing Volume (gal): <u>2.0</u>
Casing Volume (gal): <u>2.0</u>	X Specified Volumes: <u>3</u>	= Calculated Purge (gal): <u>6.0</u>

Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius² * 0.163

Purge:	Start Time: <u>1251</u>	Stop Time: <u>1255</u>						
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge				—		—		
1252	16.73	7.67	2663	-180.6	202	0.96	1.0	
1252	16.58	7.60	2473	-180.7	138	2.31	2.0	
1253	18.40	7.31	2363	-191.5	117	0.86	3.0	
1253	18.45	7.23	2388	-199.2	47	0.80	4.0	
1254	18.89	7.20	2387	-206.6	32	0.48	5.0	
1255	19.13	7.20	2369	-210.8	27	0.40	6.0	14.26
				NOT AT 80%				
Post-Purge				—		—		
Did Well dewater?	Yes	<u>No</u>	Total Purge volume (gal): <u>6.0</u>					

Other Comments: DTW: 7.69
80% @ : 8.96

Sample Info:

Sample ID: <u>MW-3_20110331</u>	Sample Date and Time: <u>3/8/11 @ 1330</u>
Selected Analysis: <u>SEE COC</u>	

Signature: B. Danell Date: 3/8/11



COP-ELT Groundwater Sampling Form

Site Address:	6401 Dublin Blvd Dublin		
Project No:	2705748	Field Technician:	B Danell
Field Point:	MW-5	Date:	3/8/11
Depth to Water (DTW) (ft bgs):	6.54	Well Diameter (in):	② 4 6 8
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	19.23	Water Column Height (ft):	12.69

Purging Info and Calculations:

Purge Method: Low-Flow 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: Disposable Bailer w/ BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): 12.69	X Conversion Factor (gal/ft): 0.17	= Casing Volume (gal): 2.2
Casing Volume (gal): 2.2	X Specified Volumes: 3	= Calculated Purge (gal): 6.6
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge:	Start Time: 1303	Stop Time: 1307						
Time	Temp (°C)	pH	Conductivity (µS/cm)	ORP (mV)	Turbidity (NTU)	D.O. (mg/L)	Volume Purged (gal)	Water Level (for Low-Flow only)
Pre-Purge				—		—		
1303	18.90	7.25	2344	-177.5	106	0.61	1.1	
1304	18.53	7.24	② 1589	-188.7	80	0.99	2.2	
1305	19.21	7.26	1431	-196.6	306	1.89	3.3	
1305	19.30	7.25	1502	-193.6	534	2.04	4.4	
1306	19.57	7.22	1674	-198.8	297	1.17	5.5	
1307	19.82	7.20	1779	-205.3	192	0.83	6.6	
1307	19.99	7.19	1808	-209.1	175	0.76	7.7	
Post-Purge				—		—		
Did Well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Total Purge volume (gal): 7.7						

Other Comments: DTW: 7.48 MS/MSD
80% @: 9.07

Sample Info:

Sample ID: MW-5_20110331	Sample Date and Time: 3/8/11 @ 1315
Selected Analysis: SEE COL	

Signature: R Peel Date: 3/8/11

Semi-Annual Summary Report, October 2010 through March 2011
76 Station No. 5748/6419
Dublin, CA
Antea Group Project No. I42705748



Attachment D

Certified Laboratory Analytical Report and Data Validation Form

March 21, 2011

Dennis Dettloff
Antea USA
11050 White Rock Rd. #110
Rancho Cordova, CA 95670

RE: Project: 2705748
Pace Project No.: 256871

Dear Dennis Dettloff:

Enclosed are the analytical results for sample(s) received by the laboratory on March 09, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Andy Brownfield for
Regina SteMarie
regina.stemarie@pacelabs.com
Project Manager

Enclosures

cc: Tara Bosch, Antea USA
Jonathon Fillingame, Antea USA
Lia Holden, Antea USA
Dan Keltner, Antea USA
Josh Mahoney, Antea USA
Tony Perini, Antea USA
Nicole Persaud, Antea USA
Don Pinkerton, Antea USA
Doug Umland, Antea USA
Ed Weyrens, Antea USA

REPORT OF LABORATORY ANALYSIS

Page 1 of 12

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CERTIFICATIONS

Project: 2705748

Pace Project No.: 256871

Washington Certification IDs

940 South Harney Street, Seattle, WA 98108

Alaska CS Certification #: UST-025

Alaska Drinking Water VOC Certification #: WA01230

Alaska Drinking Water Micro Certification #: WA01230

California Certification #: 01153CA

Florida/NELAP Certification #: E87617

Oregon Certification #: WA200007

Washington Certification #: C1229

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2705748

Pace Project No.: 256871

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
256871001	MW-1R_20110331	EPA 5030B/8260	ATH	10	PASI-S
		CA LUFT	LPM	2	PASI-S
256871002	MW-3_20110331	EPA 5030B/8260	LPM	10	PASI-S
		CA LUFT	LPM	2	PASI-S
256871003	MW-5_20110331	EPA 5030B/8260	LPM	10	PASI-S
		CA LUFT	LPM	2	PASI-S

REPORT OF LABORATORY ANALYSIS

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HITS ONLY

Project: 2705748

Pace Project No.: 256871

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
256871001	MW-1R_20110331					
EPA 5030B/8260	Methyl-tert-butyl ether	0.85	ug/L	0.50	03/12/11 06:48	
256871002	MW-3_20110331					
EPA 5030B/8260	Methyl-tert-butyl ether	19.5	ug/L	0.50	03/14/11 05:06	
256871003	MW-5_20110331					
EPA 5030B/8260	Methyl-tert-butyl ether	116	ug/L	0.50	03/15/11 06:23	
CA LUFT	TPH-Gasoline (C05-C12)	94.6	ug/L	50.0	03/11/11 04:12	1n

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2705748

Pace Project No.: 256871

Sample: MW-1R_20110331		Lab ID: 256871001	Collected: 03/08/11 14:40	Received: 03/09/11 09:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND	ug/L	0.50	1		03/12/11 06:48	71-43-2	
Ethanol	ND	ug/L	250	1		03/12/11 06:48	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		03/12/11 06:48	100-41-4	
Methyl-tert-butyl ether	0.85	ug/L	0.50	1		03/12/11 06:48	1634-04-4	
Toluene	ND	ug/L	0.50	1		03/12/11 06:48	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		03/12/11 06:48	1330-20-7	
4-Bromofluorobenzene (S)	113	%	80-120	1		03/12/11 06:48	460-00-4	
Dibromofluoromethane (S)	98	%	80-122	1		03/12/11 06:48	1868-53-7	
1,2-Dichloroethane-d4 (S)	95	%	80-124	1		03/12/11 06:48	17060-07-0	
Toluene-d8 (S)	89	%	80-123	1		03/12/11 06:48	2037-26-5	
CA LUFT MSV GRO		Analytical Method: CA LUFT						
TPH-Gasoline (C05-C12)	ND	ug/L	50.0	1		03/11/11 03:37		
4-Bromofluorobenzene (S)	111	%	82-116	1		03/11/11 03:37	460-00-4	

Sample: MW-3_20110331		Lab ID: 256871002	Collected: 03/08/11 13:30	Received: 03/09/11 09:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND	ug/L	0.50	1		03/14/11 05:06	71-43-2	
Ethanol	ND	ug/L	250	1		03/14/11 05:06	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		03/14/11 05:06	100-41-4	
Methyl-tert-butyl ether	19.5	ug/L	0.50	1		03/14/11 05:06	1634-04-4	
Toluene	ND	ug/L	0.50	1		03/14/11 05:06	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		03/14/11 05:06	1330-20-7	
4-Bromofluorobenzene (S)	109	%	80-120	1		03/14/11 05:06	460-00-4	
Dibromofluoromethane (S)	91	%	80-122	1		03/14/11 05:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	80-124	1		03/14/11 05:06	17060-07-0	
Toluene-d8 (S)	99	%	80-123	1		03/14/11 05:06	2037-26-5	
CA LUFT MSV GRO		Analytical Method: CA LUFT						
TPH-Gasoline (C05-C12)	ND	ug/L	50.0	1		03/11/11 03:55		
4-Bromofluorobenzene (S)	112	%	82-116	1		03/11/11 03:55	460-00-4	

Sample: MW-5_20110331		Lab ID: 256871003	Collected: 03/08/11 13:15	Received: 03/09/11 09:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Benzene	ND	ug/L	0.50	1		03/15/11 06:23	71-43-2	
Ethanol	ND	ug/L	250	1		03/15/11 06:23	64-17-5	
Ethylbenzene	ND	ug/L	0.50	1		03/15/11 06:23	100-41-4	
Methyl-tert-butyl ether	116	ug/L	0.50	1		03/15/11 06:23	1634-04-4	

Date: 03/21/2011 09:57 AM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2705748

Pace Project No.: 256871

Sample: MW-5_20110331		Lab ID: 256871003	Collected: 03/08/11 13:15	Received: 03/09/11 09:05	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Toluene	ND	ug/L	0.50	1		03/15/11 06:23	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		03/15/11 06:23	1330-20-7	
4-Bromofluorobenzene (S)	107	%	80-120	1		03/15/11 06:23	460-00-4	
Dibromofluoromethane (S)	107	%	80-122	1		03/15/11 06:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	80-124	1		03/15/11 06:23	17060-07-0	
Toluene-d8 (S)	112	%	80-123	1		03/15/11 06:23	2037-26-5	
CA LUFT MSV GRO		Analytical Method: CA LUFT						
TPH-Gasoline (C05-C12)	94.6	ug/L	50.0	1		03/11/11 04:12		1n
4-Bromofluorobenzene (S)	112	%	82-116	1		03/11/11 04:12	460-00-4	

QUALITY CONTROL DATA

Project: 2705748
Pace Project No.: 256871

QC Batch: MSV/3977 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 256871001

METHOD BLANK: 61952 Matrix: Water
Associated Lab Samples: 256871001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	0.50	03/12/11 03:14	
Ethanol	ug/L	ND	250	03/12/11 03:14	
Ethylbenzene	ug/L	ND	0.50	03/12/11 03:14	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/12/11 03:14	
Toluene	ug/L	ND	0.50	03/12/11 03:14	
Xylene (Total)	ug/L	ND	1.5	03/12/11 03:14	
1,2-Dichloroethane-d4 (S)	%	101	80-124	03/12/11 03:14	
4-Bromofluorobenzene (S)	%	101	80-120	03/12/11 03:14	
Dibromofluoromethane (S)	%	100	80-122	03/12/11 03:14	
Toluene-d8 (S)	%	97	80-123	03/12/11 03:14	

LABORATORY CONTROL SAMPLE: 61953

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	16.4	82	76-127	
Ethanol	ug/L	400	399	100	31-182	
Ethylbenzene	ug/L	20	15.6	78	72-125	
Methyl-tert-butyl ether	ug/L	20	22.3	111	58-145	
Toluene	ug/L	20	15.3	77	69-125	
Xylene (Total)	ug/L	60	51.0	85	74-124	
1,2-Dichloroethane-d4 (S)	%			102	80-124	
4-Bromofluorobenzene (S)	%			103	80-120	
Dibromofluoromethane (S)	%			100	80-122	
Toluene-d8 (S)	%			100	80-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 62164 62165

Parameter	Units	256835001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Benzene	ug/L	ND	20	20	17.0	19.3	85	96	75-124	13	
Ethanol	ug/L	ND	400	400	439	458	110	114	36-177	4	
Ethylbenzene	ug/L	ND	20	20	16.3	18.3	81	92	76-124	12	
Methyl-tert-butyl ether	ug/L	ND	20	20	21.2	24.9	106	125	72-130	16	
Toluene	ug/L	ND	20	20	15.8	18.2	79	91	75-124	14	
Xylene (Total)	ug/L	ND	60	60	52.0	59.5	87	99	76-123	13	
1,2-Dichloroethane-d4 (S)	%						98	100	80-124		
4-Bromofluorobenzene (S)	%						101	100	80-120		
Dibromofluoromethane (S)	%						98	100	80-122		
Toluene-d8 (S)	%						98	100	80-123		

QUALITY CONTROL DATA

Project: 2705748

Pace Project No.: 256871

QC Batch:	MSV/3985	Analysis Method:	EPA 5030B/8260
QC Batch Method:	EPA 5030B/8260	Analysis Description:	8260 MSV Water 10 mL Purge
Associated Lab Samples:	256871002		

METHOD BLANK: 62062 Matrix: Water

Associated Lab Samples: 256871002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	0.50	03/14/11 02:11	
Ethanol	ug/L	ND	250	03/14/11 02:11	
Ethylbenzene	ug/L	ND	0.50	03/14/11 02:11	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/14/11 02:11	
Toluene	ug/L	ND	0.50	03/14/11 02:11	
Xylene (Total)	ug/L	ND	1.5	03/14/11 02:11	
1,2-Dichloroethane-d4 (S)	%	95	80-124	03/14/11 02:11	
4-Bromofluorobenzene (S)	%	111	80-120	03/14/11 02:11	
Dibromofluoromethane (S)	%	98	80-122	03/14/11 02:11	
Toluene-d8 (S)	%	94	80-123	03/14/11 02:11	

LABORATORY CONTROL SAMPLE: 62063

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.4	92	76-127	
Ethanol	ug/L	400	472	118	31-182	
Ethylbenzene	ug/L	20	17.4	87	72-125	
Methyl-tert-butyl ether	ug/L	20	24.3	121	58-145	
Toluene	ug/L	20	17.0	85	69-125	
Xylene (Total)	ug/L	60	55.2	92	74-124	
1,2-Dichloroethane-d4 (S)	%			99	80-124	
4-Bromofluorobenzene (S)	%			111	80-120	
Dibromofluoromethane (S)	%			94	80-122	
Toluene-d8 (S)	%			97	80-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 62540 62541

Parameter	Units	256845002 Result	MS	MSD	MS	MSD	MS	MSD	% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Benzene	ug/L	ND	20	20	18.3	18.2	91	91	75-124		.3
Ethanol	ug/L	ND	400	400	482	573	120	143	36-177		17
Ethylbenzene	ug/L	ND	20	20	17.6	17.4	88	87	76-124		.9
Methyl-tert-butyl ether	ug/L	ND	20	20	24.2	23.7	121	118	72-130		2
Toluene	ug/L	ND	20	20	16.9	16.9	83	83	75-124		.2
Xylene (Total)	ug/L	ND	60	60	55.6	55.4	93	92	76-123		.4
1,2-Dichloroethane-d4 (S)	%						96	95	80-124		
4-Bromofluorobenzene (S)	%						103	105	80-120		
Dibromofluoromethane (S)	%						95	93	80-122		
Toluene-d8 (S)	%						96	97	80-123		

QUALITY CONTROL DATA

Project: 2705748

Pace Project No.: 256871

QC Batch: MSV/3993 Analysis Method: EPA 5030B/8260
 QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
 Associated Lab Samples: 256871003

METHOD BLANK: 62217 Matrix: Water

Associated Lab Samples: 256871003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	0.50	03/15/11 00:57	
Ethanol	ug/L	ND	250	03/15/11 00:57	
Ethylbenzene	ug/L	ND	0.50	03/15/11 00:57	
Methyl-tert-butyl ether	ug/L	ND	0.50	03/15/11 00:57	
Toluene	ug/L	ND	0.50	03/15/11 00:57	
Xylene (Total)	ug/L	ND	1.5	03/15/11 00:57	
1,2-Dichloroethane-d4 (S)	%	108	80-124	03/15/11 00:57	
4-Bromofluorobenzene (S)	%	107	80-120	03/15/11 00:57	
Dibromofluoromethane (S)	%	105	80-122	03/15/11 00:57	
Toluene-d8 (S)	%	111	80-123	03/15/11 00:57	

LABORATORY CONTROL SAMPLE: 62218

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	17.9	90	76-127	
Ethanol	ug/L	400	373	93	31-182	
Ethylbenzene	ug/L	20	17.8	89	72-125	
Methyl-tert-butyl ether	ug/L	20	18.7	94	58-145	
Toluene	ug/L	20	17.2	86	69-125	
Xylene (Total)	ug/L	60	53.0	88	74-124	
1,2-Dichloroethane-d4 (S)	%			110	80-124	
4-Bromofluorobenzene (S)	%			109	80-120	
Dibromofluoromethane (S)	%			113	80-122	
Toluene-d8 (S)	%			111	80-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 62223 62224

Parameter	Units	256840005 Result	MS	MSD	MS	MSD	MS	MSD	% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Benzene	ug/L	ND	20	20	20.1	22.0	101	110	75-124	9	
Ethanol	ug/L	ND	400	400	409	408	102	102	36-177	.2	
Ethylbenzene	ug/L	ND	20	20	20.3	21.9	102	110	76-124	7	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.6	21.0	98	105	72-130	7	
Toluene	ug/L	ND	20	20	19.3	21.0	97	105	75-124	8	
Xylene (Total)	ug/L	ND	60	60	59.4	64.7	99	108	76-123	9	
1,2-Dichloroethane-d4 (S)	%						109	109	80-124		
4-Bromofluorobenzene (S)	%						111	111	80-120		
Dibromofluoromethane (S)	%						113	114	80-122		
Toluene-d8 (S)	%						111	112	80-123		

QUALITY CONTROL DATA

Project: 2705748

Pace Project No.: 256871

QC Batch: MSV/3973 Analysis Method: CA LUFT
 QC Batch Method: CA LUFT Analysis Description: CA LUFT MSV GRO
 Associated Lab Samples: 256871001, 256871002, 256871003

METHOD BLANK: 61851 Matrix: Water

Associated Lab Samples: 256871001, 256871002, 256871003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	ND	50.0	03/10/11 23:17	
4-Bromofluorobenzene (S)	%	110	82-116	03/10/11 23:17	

LABORATORY CONTROL SAMPLE: 61852

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	500	506	101	60-140	
4-Bromofluorobenzene (S)	%			108	82-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 61916 61917

Parameter	Units	256835001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
TPH-Gasoline (C05-C12)	ug/L	ND	500	500	473	468	90	89	60-140	1	
4-Bromofluorobenzene (S)	%						112	110	82-116		

QUALIFIERS

Project: 2705748

Pace Project No.: 256871

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel Clean-Up

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-S Pace Analytical Services - Seattle

ANALYTE QUALIFIERS

1n The GRO result for this sample did not match the pattern of the laboratory standard for gasoline. This is likely due to the presence of MTBE in the sample.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2705748

Pace Project No.: 256871

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
256871001	MW-1R_20110331	EPA 5030B/8260	MSV/3977		
256871002	MW-3_20110331	EPA 5030B/8260	MSV/3985		
256871003	MW-5_20110331	EPA 5030B/8260	MSV/3993		
256871001	MW-1R_20110331	CA LUFT	MSV/3973		
256871002	MW-3_20110331	CA LUFT	MSV/3973		
256871003	MW-5_20110331	CA LUFT	MSV/3973		

Sample Container Count

2 5 6 8 7 1



CLIENT: Antea

COC PAGE 1 of 1

COC ID# _____

Sample Line Item	VG9H	AG1H	AG1U	BG1H	BP1U	BP2U	BP3U	BP2N	BP2S	WGFU	WGKU								Comments	
1	6																			
2	6																			
3	10																			
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				Trip Blank? <u>No</u>

AG1H	1 liter HCL amber glass		BP2S	500mL H2SO4 plastic	JGFU	4oz unpreserved amber wide
AG1U	1liter unpreserved amber glass		BP2U	500mL unpreserved plastic	R	terra core kit
AG2S	500mL H2SO4 amber glass		BP2Z	500mL NaOH, Zn Ac	U	Summa Can
AG2U	500mL unpreserved amber glass		BP3C	250mL NaOH plastic	VG9H	40mL HCL clear vial
AG3S	250mL H2SO4 amber glass		BP3N	250mL HNO3 plastic	VG9T	40mL Na Thio. clear vial
BG1H	1 liter HCL clear glass		BP3S	250mL H2SO4 plastic	VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass		BP3U	250mL unpreserved plastic	VG9W	40mL glass vial preweighted (EPA 5035)
BP1N	1 liter HNO3 plastic		DG9B	40mL Na Bisulfate amber vial	VSG	Headspace septa vial & HCL
BP1S	1 liter H2SO4 plastic		DG9H	40mL HCL amber voa vial	WGFU	4oz clear soil jar
BP1U	1 liter unpreserved plastic		DG9M	40mL MeOH clear vial	WGFU	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac		DG9T	40mL Na Thio amber vial	ZPLC	Ziploc Bag
BP2N	500mL HNO3 plastic		DG9U	40mL unpreserved amber vial		
BP2O	500mL NaOH plastic		I	Wipe/Swab		



Sample Condition Upon Receipt

Client Name: Antea

Project # 256871

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 8738 8211 5542, 5553

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags None Other _____ Temp. Blank Yes _____ No

Thermometer Used 132013 or 101731962 or 226099 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.4°C, 0.9°C Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 03/09/11 CW

Temp should be above freezing ≤ 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Follow Up / Hold Analysis Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
-Includes date/time/ID/Analysis Matrix: <u>WT</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G		Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blanks Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	17.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: RSM

Date: 03/09/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Is the Data Valid?
(circle)
 Yes / No

Preservation Temperature
(if Known): 0.9 °C

Antea Group Lab Validation Sheet

Project/Client: COP/ELT
Project #: 142705748
Date of Validation: 4/1/11 Date of Analysis: 3/15/11 Sample Date: 3/8/11
Completed By: Jon F. Signature: *Jonathan Fillingsame*
Analytical Lab Used and Report # (if any): Pace Analytical 256571

Circle or Highlight Yes/No below
<input checked="" type="radio"/> Yes / No
<input checked="" type="radio"/> Yes / No
<input checked="" type="radio"/> Yes / No
<input checked="" type="radio"/> Yes / No
<input checked="" type="radio"/> Yes / No
<input checked="" type="radio"/> Yes / No
<input checked="" type="radio"/> Yes / No
Yes / No
<input checked="" type="radio"/> Yes / No
<input checked="" type="radio"/> Yes / No
<input checked="" type="radio"/> Yes / No

N/a

1. Was the analysis the one requested?
2. Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?
3. Were samples prepared (extracted, filtered, etc.) within EPA holding times?
4. Once prepared/extracted, were the samples analyzed within the EPA holding times?
5. Were Laboratory blanks performed, if so, were they below non-detect?
6. Are the units correct? (i.e., soil samples in mg/kg or ug/g, water samples mg/L, ug/L, and air samples in volume mg/m³, etc.)
7. Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?
8. In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples?
9. Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approx 80-120% depending on analyte)?
10. Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?
11. Were Relative Percent Difference values within the acceptable range (i.e. ± 25%)?

If any answer is no, explain why and what corrective action was taken:

Semi-Annual Summary Report, October 2010 through March 2011
76 Station No. 5748/6419
Dublin, CA
Antea Group Project No. I42705748



Attachment E

Waste Manifest

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. N/A	Manifest Document No. 2705748-0311	2. Page 1 of 1
3. Generator's Name and Mailing Address PC&F ATTN: LIZ BERNHARDT 21003 CAMINO RAMON SUITE 350 SAN RAMON, CA 94583		Site # 2705748 10401 Dublin Blvd Dublin, CA 94568		
4. Generator's Phone (925) 884-0810	6. US EPA ID Number	A. State Transporter's ID		
5. Transporter 1 Company Name Blaine Tech Services	8. US EPA ID Number	B. Transporter 1 Phone 310-885-4455		
7. Transporter 2 Company Name	10. US EPA ID Number	C. State Transporter's ID		
9. Designated Facility Name and Site Address Seaport Environmental 700 Seaport Blvd. Redwood City, CA 94063	14. US EPA ID Number 000013572	D. Transporter 2 Phone		
11. WASTE DESCRIPTION		E. State Facility's ID		
a. Non hazardous waste liquid		12. Containers No. 1	13. Total Quantity 28	14. Unit Wt./Vol. G
b.				
c.				
d.				
G. Additional Descriptions for Materials Listed Above		H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information Wear protective equipment while handling Weights and volumes are approximate 24 hr emergency phone number (310) 885-4455				
Approval Number 920-1049 Direct bill Blaine Tech Services Blaine Tech PO# MN-031011-1PS1				
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.				
Printed/Typed Name (Antea Group) Jeryllyn Mendes on behalf of PC&F			Signature <i>Jeryllyn Mendes</i>	
Date 2 23 11				
17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name Ben Panell			Signature <i>Ben Panell</i>	
Date 3 8 11				
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name			Signature	
Date				
19. Discrepancy Indication Space				
20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.				
Printed/Typed Name Tarquin D. Cameron			Signature <i>Tarquin D. Cameron</i>	
Date 03 16 11				

NON-HAZARDOUS WASTE GENERATOR

