



RECEIVED

2:15 pm, Nov 03, 2010

Alameda County
Environmental Health

L.Bermudez@pcandf.com

Direct: 925-884-0860

Fax: 925-905-2746

October 27, 2009

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

Subject: Semi-Annual Summary Report – April through September 2010
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:

Liz Bermudez
Pacific Convenience & Fuel
2603 Camino Ramon, Suite 350
San Ramon, California 94583
Tel: (925) 884-0860
Fax: (925) 867-4687
lbermudez@pcandf.com

Sincerely,

PACIFIC CONVENIENCE & FUEL

LIZ BERMUDEZ
Senior Paralegal
Division, Unit, or Group

Attachment



Semi-Annual Summary Report – April through September 2010

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

**Alameda County Health Care Services Agency
No.: R00000459**

Delta Project No. I42705748

Submitted to:

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

Submitted by:

Delta Consultants
11050 White Rock Road, Suite 110
Rancho Cordova, CA 95670 USA
+1 800.477.7411

October 25, 2010

SITE INFORMATION

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

WORK PERFORMED [April through September 2010]:

1. Gregg Drilling under the supervision of a Delta field geologist attempted to redevelop MW-1. However, the well screen appears to be damaged at 9 feet below top of casing (BTOC).
2. Blaine tech Services conducted the semi-annual groundwater monitoring and sampling event on September 24, 2010.

WORK PROPOSED [October 2010 through March 2011]:

1. Delta will submit the *Semi-Annual Summary Report – April through September 2010*, contained herein.
2. If off-site access can be obtained, Delta will oversee the advancement of 3 cone penetration test (CPT) borings south and west of the site.
3. Delta will destroy and replace monitoring well MW-1 and submit a Site Investigation Report to the Alameda County Health Care Services Agency (ACHCSA) for their consideration.

BACKGROUND

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 aboveground 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 documentation are presented as **Attachment D**.

Site summary data has been tabled in the following:

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

SAMPLING AND MONITORING INFORMATION

Current Phase of Project:	Groundwater Monitoring
Frequency of Monitoring:	Semi-Annual (1 st and 3 rd quarter)
Frequency of Sampling:	Semi-Annual (1 st and 3 rd quarter)
Have Light Non-Aqueous Phase Liquids (LNAPL) Been Measured On-site, Historically?	No
Historic Range in Depth to Water (DTW; feet [ft] BTOC (1Q94) to (1Q10)):	5.09 feet (MW-2, 1Q98) to 13.37 feet (MW-8, 1Q04)
Local Water Supply Wells:	See Attachment A

CURRENT QUARTER MONITORING DATA

Wells Monitored:	3 (MW-1, 3, and 5)
Wells Sampled:	3 (MW-1, 3, and 5)
Monitoring and Sampling Date:	September 24, 2010
LNAPL Measured This Quarter:	No
Cumulative LNAPL Recovered to Date:	n/a
DTW Range (ft BTOC):	7.52 feet (MW-1) to 8.02 feet (MW-3)
Average Change in Groundwater Elevation Since Last Event (ft above mean sea level):	1.55 foot decrease
Groundwater Flow Direction and Gradient (ft/ft):	West-southwest at 0.006 ft/ft

CURRENT QUARTER ANALYTICAL DATA

Constituents	Number of Detections Above LRL of the Samples Collected	Minimum Reported Concentration, in µg/L (Sample ID)	Maximum Reported Concentration, in µg/L (Sample ID)
TPHg	1	<50 (MW-1 and 3)	169 (MW-5)
Benzene	0		
MTBE	3	2.3 (MW-1)	209 (MW-5)

Explanations:

µg/L = Micrograms per liter

LRL = Laboratory reporting limit

TPHg = Total petroleum hydrocarbons as Gasoline

MTBE = Methyl tertiary-butyl ether

GROUNDWATER MONITORING AND SAMPLING

Monitoring and Sampling procedures

Quarterly groundwater monitoring and sampling was conducted at Station No. 5748/6419 on September 24, 2010 by Blaine Tech. Water levels were gauged in three of the three monitoring wells at the site. Measured depths 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-1, MW-3, and MW-5 using a water level indicator. Historic laboratory analytical results are summarized in **Table 2**.

All monitoring and sampling activities for the site during the third quarter 2010 were performed by Blaine Tech and reviewed and certified by a California Professional Geologist.

Groundwater Sample Analysis

Groundwater samples collected from monitoring wells MW-1, MW-3, and MW-5 were submitted with chain-of-custody documentation to Pace Analytical Services (Pace) of Seattle, WA, a California state-certified laboratory (No. 01153CA). Samples were analyzed for the presence of TPHg by the California LUFT Method, benzene, toluene, ethylbenzene, and total xylenes (collectively BTEX), MTBE, and ethanol by Environmental Protection Agency (EPA) Method 8260.

Quality Assurance/Quality Control

Delta performed a QA/QC data validation check on the Pace laboratory analytical results for the September 24, 2010 sampling of the five site monitoring wells. The following data qualifiers were noted on laboratory control samples:

- Laboratory data qualifier "T4": "T4" means the result reported for hydrocarbons within the method-specific range that do not match pattern of laboratory standard. This data qualifier was noted on TPHg for the sample from monitoring well MW-5.

Purge and Rinse Water Disposal

Approximately 20 gallons of generated groundwater during this quarterly groundwater sampling event were temporarily stored by Blaine Tech in a 2000-gallon poly tank. The generated groundwater was transported for proper disposal at Seaport Environmental in Redwood City, CA. The method of containment and disposal is reported in Blaine Tech's procedures for groundwater sampling presented as **Attachment B**.

DISCUSSION AND CONCLUSION

The third quarter monitoring and sampling event was performed by Blaine Tech on September 24, 2010. Reported depth to groundwater in the site monitoring wells ranged from 7.52 feet (MW-1) to 8.02 feet (MW-3) below top of casing (TOC). The average groundwater elevation during the September 2010 monitoring event was 322.49 feet above mean sea level, a decrease of 1.55 feet from the previous event (March 2010). The groundwater flow direction and gradient were interpreted to be to the west-southwest at 0.006 foot per foot (ft/ft).

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 (169 µg/L) during the current event. However, the laboratory report indicates that the results reported in the groundwater sample collected from monitoring well MW-5 within the method-specific range that do not match the pattern of laboratory standard. These concentrations are likely due to MTBE.

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 limits in the groundwater samples collected and submitted for analysis from monitoring wells MW-1 (2.3 µg/L), MW-3 (23.5 µg/L), and MW-5 (209 µg/L) during the current event.

The third quarter 2010 groundwater elevation contour map is presented as **Figure 3**. A groundwater concentration map is presented as **Figure 4**. Historical groundwater flow directions are shown on a rose diagram presented as **Figure 5**.

RECOMMENDATIONS

Characterization Status

During the third quarter 2010, TPHg, benzene, and MTBE concentrations continued to decline or remain relatively stable over time in each of the monitoring wells sampled.

Recommendations

Delta 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, Delta will submit for site closure.

Remediation Activities

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

Recent 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.

REMARKS

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

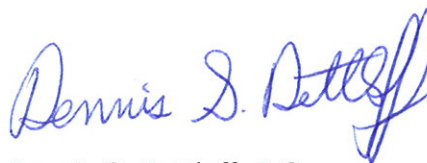
Please contact either of the undersigned at 800-477-7411 if you have questions.

Sincerely,

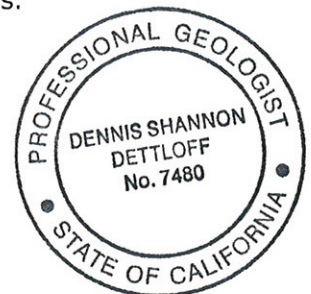
DELTA CONSULTANTS



Jonathan Fillingame
Staff Geologist



Dennis S. Dettloff, P.G.
Senior Project Manager
California Professional Geologist No. 7480



Figures

- Figure 1 – Site Location Map
- Figure 2 – Site Plan
- Figure 3 – Groundwater Elevation Contour Map – September 24, 2010
- Figure 4 – Groundwater Concentration Map – September 24, 2010
- Figure 5 – Historical Groundwater Flow Directions

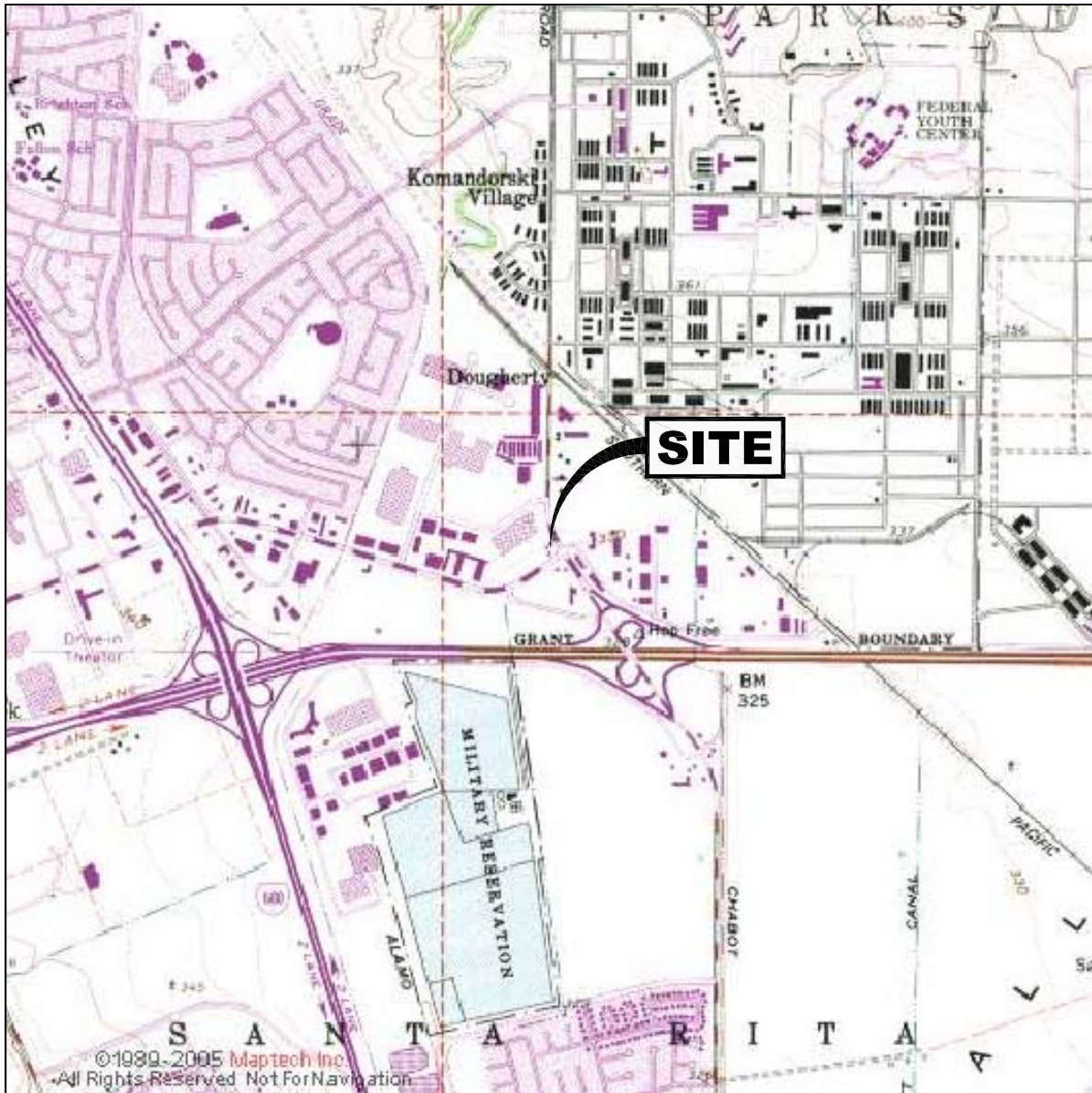
Tables

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

Attachments

- Attachment A – Previous Investigations and Site History Summary
- Attachment B – Blaine Tech's Procedures for Groundwater Monitoring and Sampling, and Equipment Decontamination
- Attachment C – Groundwater Monitoring and Sampling Field Data Sheets
- Attachment D – Groundwater Sampling Certified Laboratory Analytical Report and Chain-of-Custody Documentation

Figures



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

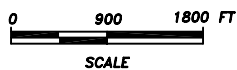


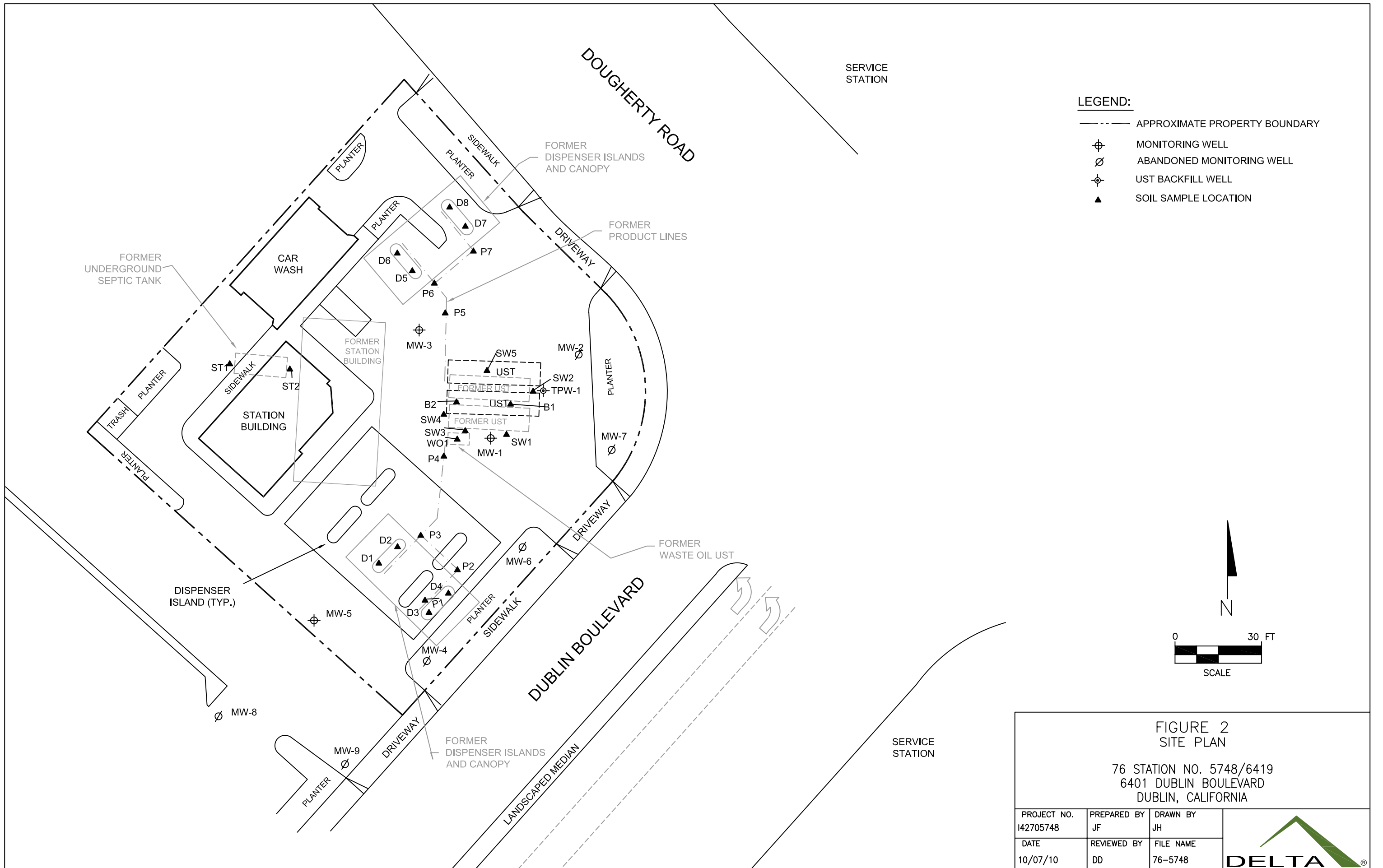
FIGURE 1

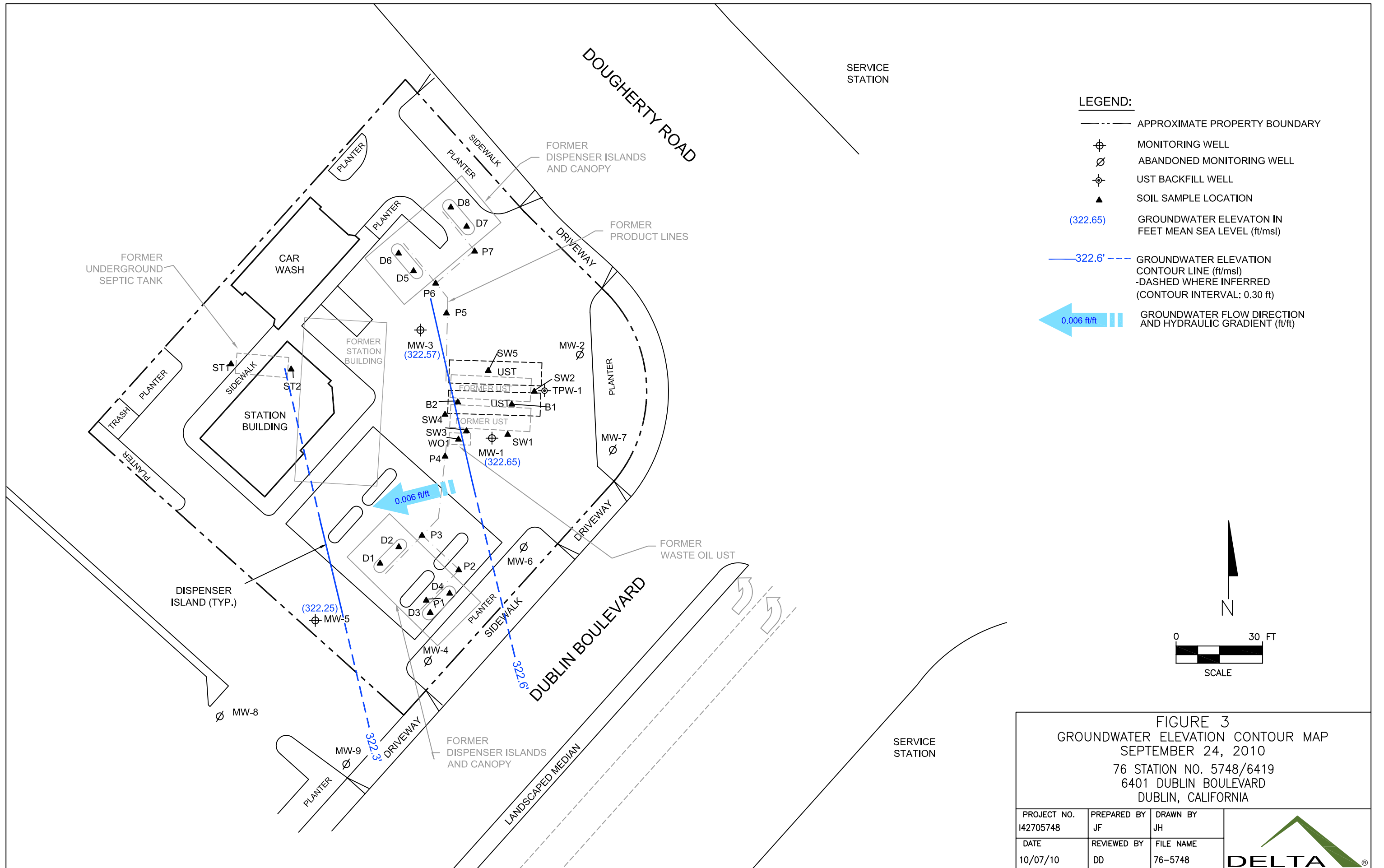
SITE LOCATION MAP

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

PROJECT NO. C105748	DRAWN BY DR/JH 03/12/10
FILE NO. 5748-SiteLocator	PREPARED BY JH
REVISION NO.	REVIEWED BY DD







LEGEND:

- APPROXIMATE PROPERTY BOUNDARY
- ⊕ MONITORING WELL
- ∅ ABANDONED MONITORING WELL
- ⊕ UST BACKFILL WELL
- ▲ SOIL SAMPLE LOCATION
- (322.65) GROUNDWATER ELEVATION IN FEET MEAN SEA LEVEL (ft/msl)
- 322.6' — GROUNDWATER ELEVATION CONTOUR LINE (ft/msl)
-DASHED WHERE INFERRED (CONTOUR INTERVAL: 0.30 ft)
- ← 0.006 ft/ft → GROUNDWATER FLOW DIRECTION AND HYDRAULIC GRADIENT (ft/ft)

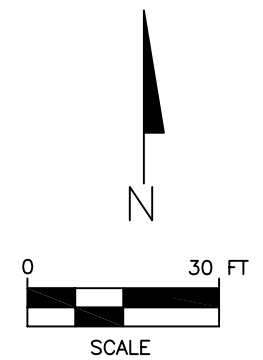


FIGURE 3
GROUNDWATER ELEVATION CONTOUR MAP
SEPTEMBER 24, 2010
76 STATION NO. 5748/6419
6401 DUBLIN BOULEVARD
DUBLIN, CALIFORNIA

PROJECT NO. I42705748	PREPARED BY JF	DRAWN BY JH	
DATE 10/07/10	REVIEWED BY DD	FILE NAME 76-5748	

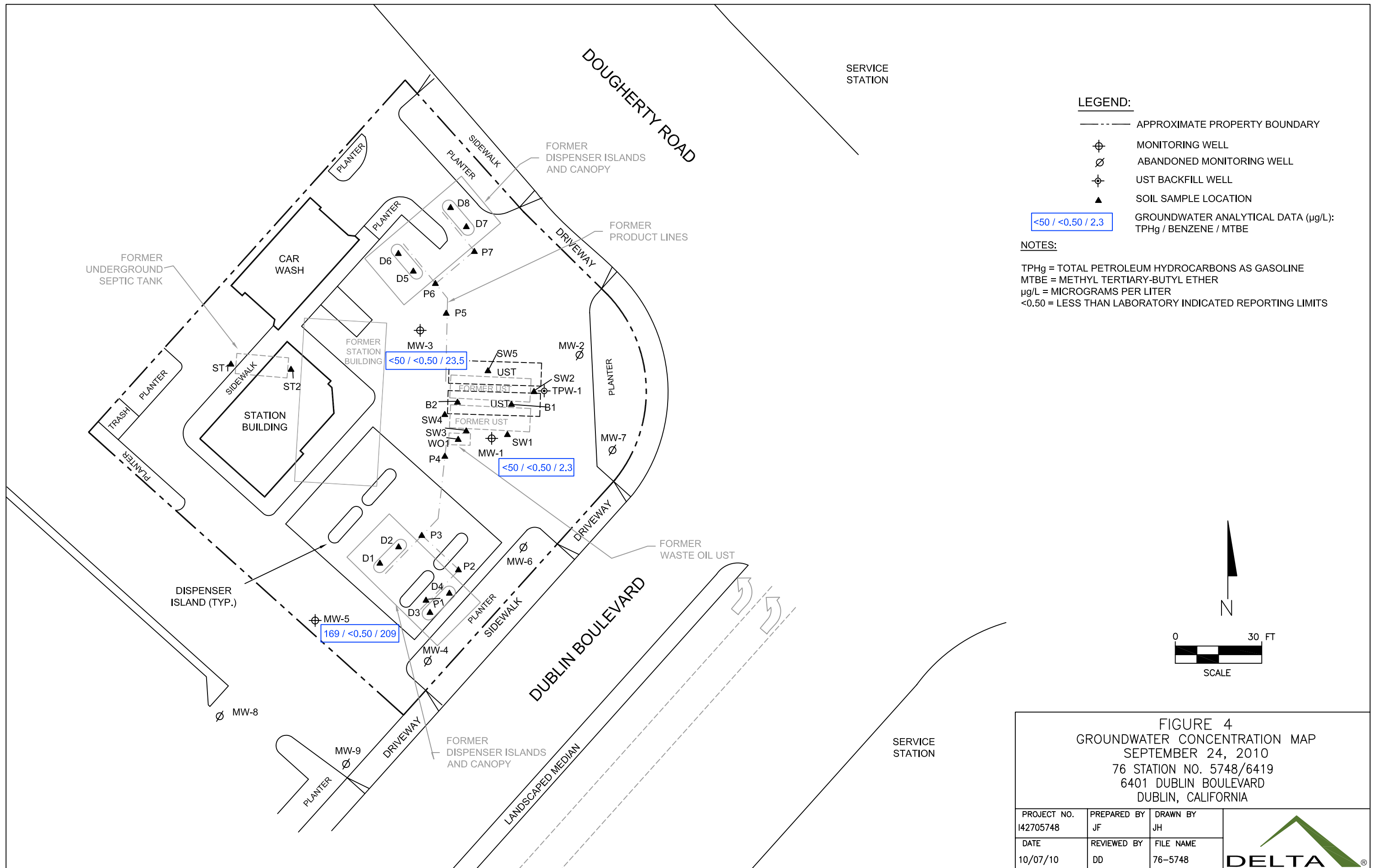
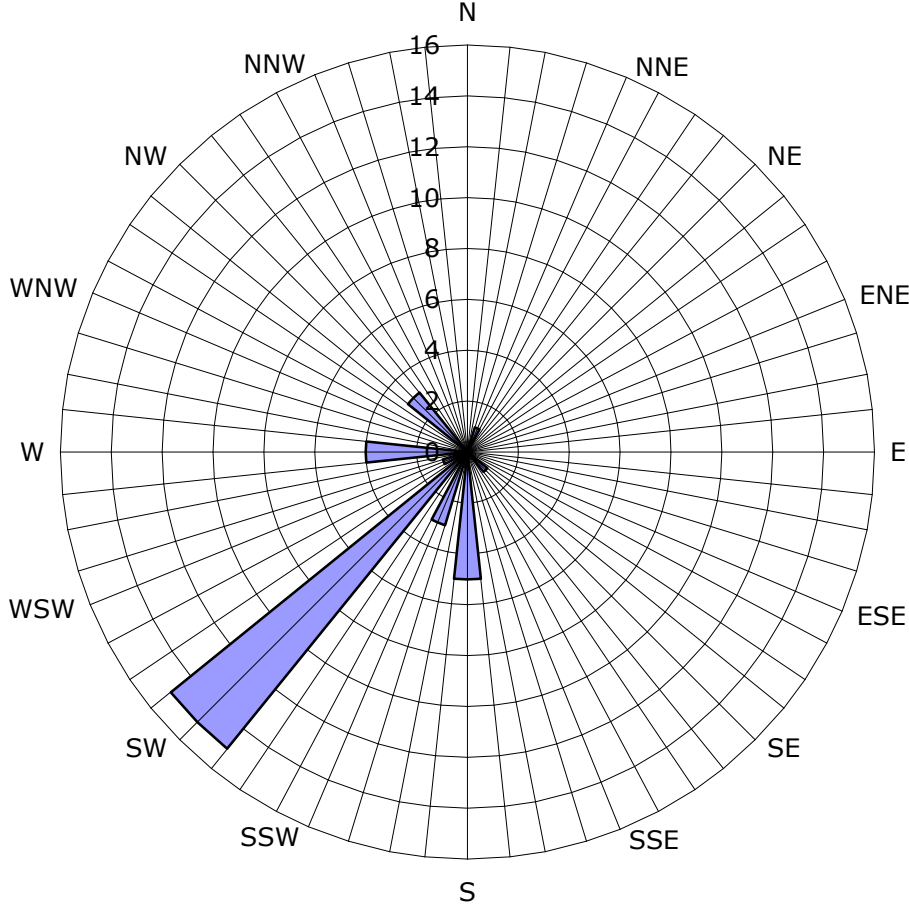


FIGURE 4
 GROUNDWATER CONCENTRATION MAP
 SEPTEMBER 24, 2010
 76 STATION NO. 5748/6419
 6401 DUBLIN BOULEVARD
 DUBLIN, CALIFORNIA

PROJECT NO. I42705748	PREPARED BY JF	DRAWN BY JH	
DATE 10/07/10	REVIEWED BY DD	FILE NAME 76-5748	

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 third quarter 2010. 33 data points shown.

■ Groundwater Flow Direction

Tables



TABLE 1
CURRENT GROUNDWATER GAUGING AND ANALYTICAL DATA
COP ELT 2705748
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 (SW8260B) (ug/L)	Ethanol (ug/L)
MW-1	9/24/2010	330.17	7.52	NP	322.65	<50.0	<0.50	<0.50	<0.50	<1.5	2.3	<250
MW-3	9/24/2010	330.59	8.02	NP	322.57	<50.0	<0.50	<0.50	<0.50	<1.5	23.5	<250
MW-5	9/24/2010	330.18	7.93	NP	322.25	169	<0.50	<0.50	<0.50	<1.5	209	<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:

< - Not detected at or above indicated laboratory reporting limit

ug/L - micrograms/liter

TPHg - Total petroleum hydrocarbons as gasoline

MTBE - Methyl tertiary-butyl ether



TABLE 2
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
COP ELT 2705748
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)
MW-3	11/28/1995	331.11	9.52	NP	321.59	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	2/26/1996	331.11	6.25	NP	324.86	ND	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--
	8/23/1996	331.11	7.98	NP	323.13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/17/1997	330.68	6.07	NP	324.61	ND	ND	ND	ND	ND	68	--	--	--	--	--	--	--	--
	8/18/1997	330.68	7.82	NP	322.86	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/2/1998	330.68	5.5	NP	325.18	ND	ND	ND	ND	ND	100	--	--	--	--	--	--	--	--
	8/24/1998	330.68	7.12	NP	323.56	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/10/1999	330.68	5.8	NP	324.88	ND	ND	ND	ND	ND	92	--	--	--	--	--	--	--	--
	5/21/1999	330.49	6.16	NP	324.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/2/1999	330.49	6.95	NP	323.54	ND	ND	ND	ND	ND	140	--	--	--	--	--	--	--	--
	2/11/2000	330.49	6.71	NP	323.78	ND	ND	ND	ND	ND	46	--	--	--	--	--	--	--	--
	7/26/2000	330.6	7.35	NP	323.25	ND	ND	ND	ND	ND	927	--	--	--	--	--	--	--	--
	2/2/2001	330.6	7.17	NP	323.43	ND	ND	ND	ND	ND	2240	--	--	--	--	--	--	--	--
	5/16/2001	330.6	NG	NG	NG	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/24/2001	330.6	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	<25	--	4900	--	--	--	--	--	--	--
	2/17/2003	330.59	6.49	NP	324.1	<2500	<25	<25	<25	<25	--	4400	--	--	--	--	--	--	--
	8/18/2003	330.59	6.7	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	324.8	<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	--	--	--	--	--	
MW-4	5/21/1999	330.36	6.43	NP	323.93	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	7.4	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	323.5	<1000	<10	<10	<10	<20	--	2200	--	--	--	--	--	--	--
	8/18/2003	330.35	7.3	NP	323.05	2000	<10	<10	<10	<20	--	1400	--	<10000	--	--	--	--	--
	2/24/2004	330.35	6.55	NP	323.8	<2000	<20	<20	<20	<40	--	2000	--	--	--	--	--	--	--
	9/17/2004	330.35	8	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	--	--	--	--	--	



TABLE 2
HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
COP ELT 2705748
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)
MW-7	2/6/2002	330.41	6.62	NP	323.79	<50	<0.50	<0.50	<0.50	<0.50	3.9	3.2	<20	<500	1.4	<1.0	<1.0	<1.0	<1.0
	7/30/2002	330.41	NG	NG	NG	<50	<0.50	<0.50	<0.50	<1.0	--	4.3	--	--	--	--	--	--	--
	2/17/2003	330.41	NG	NG	NG	<50	<0.50	<0.50	<0.50	<1.0	--	4.7	--	--	--	--	--	--	--
	8/18/2003	330.41	6.64	NP	323.77	76	<0.50	<0.50	<0.50	<1.0	--	6.3	--	<500	--	--	--	--	--
	2/24/2004	330.41	6.01	NP	324.4	<50	<0.50	<0.50	<0.50	<1.0	--	6.2	--	<500	--	--	--	--	--
	9/17/2004	330.41	7.45	NP	322.96	<50	<0.50	<0.50	<0.50	<1.0	--	8.7	--	<50	--	--	--	--	--
	3/22/2005	330.41	5.73	NP	324.68	<50	<0.50	<0.50	<0.50	<1.0	--	9.4	--	<50	--	--	--	--	--
	9/29/2005	330.41	8.94	NP	321.47	<50	<0.50	<0.50	<0.50	<1.0	--	11	--	<250	--	--	--	--	--
	1/9/2006	330.41	7.43	NP	322.98	<50	<0.50	<0.50	<0.50	<1.0	--	7.6	--	<250	--	--	--	--	--
9/27/2006	330.41	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD	WD
MW-8	10/11/2001	329.97	7.57	NP	322.4	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<2.0	<20	<500	<2.0	<2.0	<2.0	<2.0	<2.0
	2/6/2002	329.97	6.35	NP	323.62	<50	<0.50	<0.50	<0.50	<0.50	<2.5	<1.0	<20	<500	<1.0	<1.0	<1.0	<1.0	<1.0
	7/30/2002	329.97	6.95	NP	323.02	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	2/17/2003	329.97	6.11	NP	323.86	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	--	--	--	--	--	--
	8/18/2003	329.97	6.33	NP	323.64	53	<0.50	<0.50	<0.50	<1.0	--	<2	--	<500	--	--	--	--	--
	2/24/2004	329.97	13.37	NP	316.6	<50	<0.50	<0.50	<0.50	<1.0	--	<2.0	--	<500	--	--	--	--	--
	9/17/2004	329.97	7.23	NP	322.74	<50	<0.50	<0.50	<0.50	<1.0	--	4.0	--	<50	--	--	--	--	--
3/22/2005	329.97	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW-9	10/11/2001	329.51	7.12	NP	322.39	<50	<0.50	<0.50	<0.50	<0.50	22	15	<20	<500	<2.0	<2.0	<2.0	<2.0	<2.0
	2/6/2002	329.51	5.94	NP	323.57	<50	<0.50	<0.50	<0.50	<0.50	19	14	<20	<500	<1.0	<1.0	<1.0	<1.0	<1.0
	7/30/2002	329.51	6.53	NP	322.98	<50	<0.50	<0.50	<0.50	<1.0	--	9	--	--	--	--	--	--	--
	2/17/2003	329.51	5.63	NP	323.88	<50	<0.50	<0.50	<0.50	<1.0	--	4.9	--	--	--	--	--	--	--
	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	6.8	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
< - Not detected at or above indicated laboratory 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



TABLE 2a
ADDITIONAL HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
COP ELT 2705748
6401 DUBLIN BLVD
DUBLIN, CALIFORNIA

Well I.D.	Date	GROUNDWATER ANALYTICAL DATA							
		Cadmium (mg/L)	Chromium (mg/L)	Diesel Range Organics (ug/L)	Lead (mg/L)	Nickel (mg/L)	Oxygen, Dissolved FIELD_PostPurge (mg/L)	Oxygen, Dissolved FIELD_PrePurge (mg/L)	Zinc (mg/L)
MW-1	3/14/1994	ND	0.00001	810	ND	0.00003	--	--	0.039
	8/25/1994	ND	ND	910	0.024	ND	--	--	--
	11/18/1994	ND	0.067	910	ND	0.067	--	--	--
	2/15/1995	ND	ND	660	ND	ND	4.3	--	--
	5/17/1995	ND	ND	200	ND	0.021	1.2	--	--
	8/25/1995	--	--	--	--	--	2.71	--	--
	11/28/1995	--	--	--	--	--	3.25	--	--
	2/26/1996	--	--	--	--	--	1.41	5.23	--
	8/23/1996	--	--	--	--	--	--	3.83	--
	2/17/1997	--	--	--	--	--	0.78	0.82	--
	8/18/1997	--	--	--	--	--	2.35	1.28	--
	5/16/2001	--	--	--	--	--	--	1.54	--
8/24/2001	--	--	--	--	--	3.1	--	--	
9/29/2005	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY
MW-2	2/15/1995	--	--	--	--	--	1.9	--	--
	2/26/1996	--	--	--	--	--	0.43	0.62	--
	8/23/1996	NS	NS	NS	NS	NS	NS	2.04	NS
	2/17/1997	--	--	--	--	--	0.82	0.9	--
	8/18/1997	--	--	--	--	--	--	1.16	--
	5/16/2001	--	--	--	--	--	--	1.47	--
	8/24/2001	--	--	--	--	--	2.6	--	--
9/27/2006	WD	WD	WD	WD	WD	WD	WD	WD	
MW-3	2/15/1995	--	--	--	--	--	2.6	--	--
	3/13/1995	--	--	--	--	--	1.13	--	--
	8/25/1995	--	--	--	--	--	1.86	--	--
	11/28/1995	--	--	--	--	--	6.81	--	--
	2/26/1996	--	--	--	--	--	1.11	16.83	--
	8/23/1996	NS	NS	NS	NS	NS	NS	3.29	NS
	2/17/1997	--	--	--	--	--	0.8	0.8	--
	8/18/1997	--	--	--	--	--	--	1.43	--
	5/16/2001	--	--	--	--	--	2.6	1.65	--
8/24/2001	--	--	--	--	--	2.60	--	--	
MW-4	8/24/2001	--	--	--	--	--	2.3	--	--
	9/27/2006	WD	WD	WD	WD	WD	WD	WD	WD
MW-5	8/24/2001	--	--	--	--	--	2.1	--	--
MW-6	8/24/2001	--	--	--	--	--	2.7	--	--
	9/27/2006	WD	WD	WD	WD	WD	WD	WD	WD
MW-7	8/24/2001	--	--	--	--	--	2.7	--	--
	9/27/2006	WD	WD	WD	WD	WD	WD	WD	WD

Analytical Notes:

- - No information available
- DRY - Well was Dry; sample could not be taken
- mg/L - milligrams per liter
- ND - Not detected, and detection limit is not known
- NS - Well not sampled.
- ug/L - micrograms/liter
- WD - Well Destroyed

TABLE 3
Groundwater Gradient and Flow Direction Data

76 Station Number 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	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	0
	02/15/95	0.00	0	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	0	1	0	0	0	0	0
	08/25/95	0.01	0	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	0	1	0	0	0	0	0	0
	02/26/96	0.006	0	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	0	1	0	0	0	0	0	0
	02/17/97	0.003	0	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	0	1	0	0	0	0	0
	02/02/98	0.001	0	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	0	1	0	0	0	0	0
	02/10/99	0.003	0	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	0	1	0	0	0	0	0
	02/11/00	0.007	0	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	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	0
	08/24/01	0.005 ; 0.02	0	0	0	0	0	0	0	0	0	0	0	0	1	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	0
	07/30/02	0.002 ; 0.01	0	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	0
	08/18/03	0.003	0	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	0
	09/17/04	0.010	0	0	0	0	0	0	0	0	0	1	0	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	0
	09/29/05	0.007	0	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	0	1	0	0	0
	09/27/06	0.010	0	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	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	0
	03/27/08	0.007	0	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	0	1	0
	03/06/09	0.005	0	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	0	1	0	0	0	
03/12/10	0.003	0	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	0	1	0	0	0	0	
		0.006 Average	0	1	0	0	0	0	1	0	5	3	15	1	4	0	3	0	

Explanation

NA = Not available
Number of Events = 33

TABLE 4
Well Construction Details
76 Station No. 5748/6419
6401 Dublin Boulevard
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-1	02/24/94	330.17	19	8	2	PVC	0.01	4 - 19	3-19	2-3	0-2	
MW-2	02/25/94	330.24	20	8	2	PVC	0.01	3 - 20	3-20	1.5-3	0-1.5	Abandoned
MW-3	02/24/94	330.59	19	8	2	PVC	0.01	4 - 19	3-19	2-3	0-2	
MW-4	05/10/99	330.35	19	8	2	PVC	0.02	4 - 19	3.5-19	2.5-3.5	0-2.5	Abandoned
MW-5	05/10/99	330.18	19	8	2	PVC	0.02	4 - 19	3.5-19	2.5-3.5	0-2.5	
MW-6	05/10/99	330.47	19	8	2	PVC	0.02	4 - 19	3.5-19	2.5-3.5	0-2.5	Abandoned
MW-7	05/10/99	330.41	19	9	2	PVC	0.02	4 - 19	3.5-19	2.5-3.5	0-2.5	Abandoned
MW-8	09/28/01	329.97	20	8	2	PVC	0.02	5 - 20	4-20	3-4	0-3	Abandoned
MW-9	09/28/01	329.51	20	8	2	PVC	0.02	5 - 20	4-20	3-4	0-3	Abandoned

Notes:

bgs = below ground surface

TOC = top of casing

MSL = mean sea level

-- = Not available

Elevations are in US survey feet, Vertical Datum is NGVD29

Attachment A

Previous Investigations and Site History Summary

PREVIOUS INVESTIGATIONS AND SITE HISTORY SUMMARY

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.

SENSITIVE RECEPTORS

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: **Delta Consultants**

Attachment B

Blaine Tech's Procedures for Groundwater Monitoring and Sampling, and Equipment Decontamination

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.

Attachment C

Groundwater Monitoring and Sampling Field Data Sheets

COP-ELT Well-Head Inspection & Well Gauging Form

Project No: 2705748

Site Address: 6401 Dublin Blvd Dublin

Field Technician: Ben Pave II

Date: 9/24/10

Weather: Sunny

Sample Order	Well Condition							Gauging Information					Comments	
	Field Point	Bolts	Seal	Lid Secure	Lock	Expanding Cap	Water In Well Box	Well Casing Dia.	Time	Depth to Water (Feet)	Depth to Bottom (Feet)	Depth to LNAPL (Feet)		LNAPL Thickness (Feet)
1	MW-1	G	G	G	G	G	Y	2	1215	7.52	9.16	—	—	
2	MW-3	G	P	P	G	G	Y	2	1221	8.02	18.31	—	—	3/3 tabs stripped
3	MW-5	G	G	G	G	G	N	2	1226	7.93	19.15	—	—	Retap

Notes: _____



Note: Use G=good and P=poor for well condition

COP-ELT Groundwater Sampling Form

Site Address: <u>6401 Dublin Ave, Dublin</u>	
Project No: <u>2705748</u>	Field Technician: <u>Ben Panell</u>
Field Point: <u>MW-1</u>	Date: <u>9/24/10</u>
Depth to Water (DTW) (ft bgs): <u>7.52</u>	Well Diameter (in): <u>② 4 6 8</u>
Depth to LNAPL (ft bgs): <u>—</u>	Thickness of LNAPL (ft): <u>—</u>
Total Depth of Well (ft bgs): <u>9.16</u>	Water Column Height (ft): <u>1.64</u>

Purging Info and Calculations:

Purge Method: <input checked="" type="checkbox"/> 3 casing volumes Other: _____	Purge Equipment: <input checked="" type="checkbox"/> Disposable Bailer <input checked="" type="checkbox"/> Electric Submersible <input type="checkbox"/> Peristaltic Pump <input type="checkbox"/> Bladder Pump Other: _____	Sample Collection Method: <input checked="" type="checkbox"/> Disposable Bailer w/BED <input type="checkbox"/> Extraction Port <input type="checkbox"/> Dedicated Tubing <input type="checkbox"/> Disposable Tubing Other: _____
Water Column Height (ft): <u>1.64</u>	X Conversion Factor (gal/ft): <u>0.17</u>	= Casing Volume (gal): <u>0.3</u>
Casing Volume (gal): <u>0.3</u>	X Specified Volumes: <u>3</u>	= Calculated Purge (gal): <u>0.9</u>
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge: _____		Start Time: <u>1254</u>		Stop Time: <u>1302</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				—		—		
<u>1255</u>	<u>25.2</u>	<u>7.39</u>	<u>1283</u>	<u>98</u>	<u>71000</u>	<u>1.46</u>	<u>0.3</u>	
<u>1258</u>	<u>24.5</u>	<u>7.31</u>	<u>1287</u>	<u>97</u>	<u>71000</u>	<u>1.36</u>	<u>0.6</u>	
<u>1302</u>	<u>24.5</u>	<u>7.37</u>	<u>1296</u>	<u>96</u>	<u>71000</u>	<u>1.29</u>	<u>0.9</u>	
Post-Purge				—		—		

Did Well dewater? Yes No Total Purge volume (gal): 0.9

Other Comments: 80% @ : 7.84 DTW: 7.82
Hand bailed due to low water column

Sample Info:	
Sample ID: <u>MW-1-20100930</u>	Sample Date and Time: <u>9/24/10 @ 1315</u>
Selected Analysis: <u>SEE COC</u>	

Signature: [Signature] Date: 9/24/10



COP-LLT Groundwater Sampling Form

Site Address:	6401 Dublin Ave, Dublin		
Project No:	2705748	Field Technician:	Ben Panell
Field Point:	MW-3	Date:	9/24/10
Depth to Water (DTW) (ft bgs):	8.02	Well Diameter (in):	② 4 6 8
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	18.31	Water Column Height (ft):	10.29

Purging Info and Calculations:

Purge Method: Low-Flow <input checked="" type="checkbox"/> 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer <input checked="" type="checkbox"/> Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: <input checked="" type="checkbox"/> Disposable Bailer w/BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>10.29</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>1.7</u> Casing Volume (gal): <u>1.7</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>5.1</u>		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge: Start Time: 1327 Stop Time: 1334

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				—		—		
1328	30.03	7.23	2322	-137.7	6	0.51	0.8	
1329	30.32	7.24	2407	-100.7	5	0.97	1.7	
1330	30.50	7.25	2521	-87.7	6	0.83	2.5	
1331	28.71	7.18	2530	-78.4	10	0.79	3.4	
1332	26.77	7.13	2535	-56.6	15	0.71	4.2	
1333	25.97	7.12	2559	-40.4	14	0.7	5.1	
1334	25.00	7.14	2544	-34.8	12	1.03	5.9	
Post-Purge				—		—		

Did Well dewater? Yes No Total Purge volume (gal): 5.9

Other Comments: 80% @ 10.07 DTW: 9.19

Sample Info:	
Sample ID: <u>MW-3-20100930</u>	Sample Date and Time: <u>9/24/10 @ 1415</u>
Selected Analysis: <u>SEE COC</u>	

Signature: [Signature] Date: 9/24/10



COP ELT Groundwater Sampling Form

Site Address:	6401 Dublin Ave, Dublin		
Project No:	2705748	Field Technician:	Ben Panell
Field Point:	MW-5	Date:	9/24/10
Depth to Water (DTW) (ft bgs):	7.93	Well Diameter (in):	② 4 6 8 —
Depth to LNAPL (ft bgs):	—	Thickness of LNAPL (ft):	—
Total Depth of Well (ft bgs):	19.15	Water Column Height (ft):	11.22

Purging Info and Calculations:

Purge Method: Low-Flow <input checked="" type="checkbox"/> 3 casing volumes Other: _____	Purge Equipment: Disposable Bailer <input checked="" type="checkbox"/> Electric Submersible Peristaltic Pump Bladder Pump Other: _____	Sample Collection Method: <input checked="" type="checkbox"/> Disposable Bailer w/BED Extraction Port Dedicated Tubing Disposable Tubing Other: _____
Water Column Height (ft): <u>11.22</u> X Conversion Factor (gal/ft): <u>0.17</u> = Casing Volume (gal): <u>1.9</u> Casing Volume (gal): <u>1.9</u> X Specified Volumes: <u>3</u> = Calculated Purge (gal): <u>5.7</u>		
Conversion Factors (gal/ft): 2" = 0.17 4" = 0.66 6" = 1.5 8" = 2.6 Other = radius ² * 0.163		

Purge:	Start Time: <u>1343</u>	Stop Time: <u>1349</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				—		—		
1344	25.39	7.22	2522	-75.0	31	0.57	0.9	
1345	24.00	7.21	1998	-42.1	>1000	1.30	1.9	
1346	23.33	7.22	1969	-29.7	>1000	1.20	2.8	
1347	23.21	7.22	1950	-21.6	>1000	1.48	3.8	
1348	22.85	7.17	2120	-9.0	328	0.94	4.7	
1349	22.64	7.15	2155	-6.0	250	0.90	5.7	
Post-Purge				—		—		

Did Well dewater? Yes No Total Purge volume (gal): 5.7

Other Comments: 80% @ : 10.17 DTW: 8.19

Sample Info:	
Sample ID: MW-S20100930	Sample Date and Time: 9/24/10 @ 1400
Selected Analysis: SEE COC	

Signature: [Signature] Date: 9/24/10





COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

Required Lab Information:

Lab Name: Pace-Seattle
Address: 940 S. Harney Street Seattle WA 98108
Lab PM: Regina Ste. Marie
Phone/Fax: P: 206-957-2433 F: 206-767-5063
Lab PM email: Regina.SteMarie@pacelabs.com
Applicable Lab Quote #:

Required Project Information:

Site ID #: 2705748
Task: WG_S_201009
Delta project #: 142705748
Site Address: 6401 Dublin Blvd
City: Dublin State: CA 94568
Delta PM Name: Dennis Dettloff
Phone/Fax: P: 1-800-477-7411 F: 408-225-8506
Delta PM Email: ddetloff@deltaenv.com

Required Invoice Information:

Send invoice to: David Sowle
Address: 11050 White Rock Road, Suite 110
City/State: Rancho Cordova CA 95670
Phone #: 1-800-477-7411
Reimbursement project? Non-reimbursement project? y Mark one
Send EDD to: copeltdata@intelligentehs.com
CC Hardcopy report to
CC Hardcopy report to

3Q10 GW Event

Turn around time (days) 10

QC level Required: Standard Special Mark one

NJ Reduced Deliverable Package?

MA MCP Cert? CT RCP Cert? Mark One

Lab Project ID (lab use)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX DRINKING WATER WP GROUND WATER WG WASTE WATER WW FREE PRODUCT LF SOIL SO OIL OL WIRE WIRE AMBIENT AIR AA SVE AIR AE SOIL GAS GS	MATRIX WATER W SURFACE WATER WS WATER DC WD SLUDGE SL RINSEATE WH OTHER OT ANIMAL TISSUE TA	MATRIX CODE	SAMPLE TYPE G-GRAB C-COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives										Requested Analyses 8200 CCMS GRO 8200BTEX/MTBE 8200ETHANOL	Comments/Lab Sample I.D.		
										Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other						
1	MW-1_20100930			WG	G	9/24/10	1315	10	N										X	X	X		
2	MW-3_20100930			WG	G	9/24/10	1415	6	N										X	X	X		
3	MW-5_20100930			WG	G	9/24/10	1400	6	N										X	X	X		
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Additional Comments/Special Instructions:

GLOBAL ID: T0600101443

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Sample Receipt Conditions			
Ben Panell / BTS	9/24/10	1600				Y/N	Y/N	Y/N	Y/N
						Y/N	Y/N	Y/N	Y/N
						Y/N	Y/N	Y/N	Y/N
						Y/N	Y/N	Y/N	Y/N

SHIPPING METHOD: (mark as appropriate)	SAMPLER NAME AND SIGNATURE		Temp in °C	Samples on Ice?	Sample intact?	Trip Blank?
UPS COURIER FEDEX	PRINT Name of SAMPLER:	Ben Panell				
US MAIL	SIGNATURE of SAMPLER:	<i>Ben Panell</i>				
	DATE Signed	9/24/10				
	Time:	1600				

Attachment D

*Groundwater Sampling Certified Laboratory Analytical
Report and Chain-of-Custody Documentation*

October 07, 2010

Dennis Dettloff
ELT_Delta Consultants Sacramen
11050 White Rock Rd. #110
Rancho Cordova, CA 95670

RE: Project: 2705748 6401 Dublin Blvd
Pace Project No.: 255103

Dear Dennis Dettloff:

Enclosed are the analytical results for sample(s) received by the laboratory on September 25, 2010. 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.

Revised Report - Narrative concerning T4 flag on GRO samples added.

The GRO result for MW-5 did not match the pattern of the laboratory standard for gasoline. This is likely due to the presence of MTBE in the sample.

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

Sincerely,



Regina SteMarie

regina.stemarie@pacelabs.com
Project Manager

Enclosures

cc: Tara Bosch, ELT_Delta Consultants Sacramento
Jonathon Fillingame, ELT_Delta Consultants Sacramento
Lia Holden, ELT-Delta Consultants

Josh Mahoney, ELT_Delta Consultants San Jose
Tony Perini, ELT_Delta Consultants San Jose
Nicole Persaud, ELT-Delta Consultants

REPORT OF LABORATORY ANALYSIS

Page 1 of 10

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



October 07, 2010
Page 2

cc: Don Pinkerton, ELT_Delta Consultants Sacramento
David Sowle, Delta Consultants
Doug Umland, ELT_Delta Consultants San Jose
Ed Weyrens, ELT_Delta Consultants San Jose

REPORT OF LABORATORY ANALYSIS

Page 2 of 10

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: 2705748 6401 Dublin Blvd

Pace Project No.: 255103

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

Page 3 of 10

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: 2705748 6401 Dublin Blvd

Pace Project No.: 255103

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
255103001	MW-1_20100930	EPA 5030B/8260	LPM	10	PASI-S
		CA LUFT	LPM	2	PASI-S
255103002	MW-3_20100930	EPA 5030B/8260	LPM	10	PASI-S
		CA LUFT	LPM	2	PASI-S
255103003	MW-5_20100930	EPA 5030B/8260	LPM	10	PASI-S
		CA LUFT	LPM	2	PASI-S

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: 2705748 6401 Dublin Blvd

Pace Project No.: 255103

Sample: MW-1_20100930		Lab ID: 255103001	Collected: 09/24/10 13:15	Received: 09/25/10 10:24	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		10/04/10 06:07	71-43-2	
Ethanol	ND ug/L		250	1		10/04/10 06:07	64-17-5	
Ethylbenzene	ND ug/L		0.50	1		10/04/10 06:07	100-41-4	
Methyl-tert-butyl ether	2.3 ug/L		0.50	1		10/04/10 06:07	1634-04-4	
Toluene	ND ug/L		0.50	1		10/04/10 06:07	108-88-3	
Xylene (Total)	ND ug/L		1.5	1		10/04/10 06:07	1330-20-7	
4-Bromofluorobenzene (S)	95 %		80-120	1		10/04/10 06:07	460-00-4	
Dibromofluoromethane (S)	107 %		80-122	1		10/04/10 06:07	1868-53-7	
1,2-Dichloroethane-d4 (S)	97 %		80-124	1		10/04/10 06:07	17060-07-0	
Toluene-d8 (S)	95 %		80-123	1		10/04/10 06:07	2037-26-5	
CA LUFT MSV GRO		Analytical Method: CA LUFT						
TPH-Gasoline (C05-C12)	ND ug/L		50.0	1		10/04/10 06:07		
4-Bromofluorobenzene (S)	95 %		82-116	1		10/04/10 06:07	460-00-4	

Sample: MW-3_20100930		Lab ID: 255103002	Collected: 09/24/10 14:15	Received: 09/25/10 10:24	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		10/04/10 06:27	71-43-2	
Ethanol	ND ug/L		250	1		10/04/10 06:27	64-17-5	
Ethylbenzene	ND ug/L		0.50	1		10/04/10 06:27	100-41-4	
Methyl-tert-butyl ether	23.5 ug/L		0.50	1		10/04/10 06:27	1634-04-4	
Toluene	ND ug/L		0.50	1		10/04/10 06:27	108-88-3	
Xylene (Total)	ND ug/L		1.5	1		10/04/10 06:27	1330-20-7	
4-Bromofluorobenzene (S)	96 %		80-120	1		10/04/10 06:27	460-00-4	
Dibromofluoromethane (S)	107 %		80-122	1		10/04/10 06:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	100 %		80-124	1		10/04/10 06:27	17060-07-0	
Toluene-d8 (S)	97 %		80-123	1		10/04/10 06:27	2037-26-5	
CA LUFT MSV GRO		Analytical Method: CA LUFT						
TPH-Gasoline (C05-C12)	ND ug/L		50.0	1		10/04/10 06:27		
4-Bromofluorobenzene (S)	96 %		82-116	1		10/04/10 06:27	460-00-4	

Sample: MW-5_20100930		Lab ID: 255103003	Collected: 09/24/10 14:00	Received: 09/25/10 10:24	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		10/04/10 06:47	71-43-2	
Ethanol	ND ug/L		250	1		10/04/10 06:47	64-17-5	
Ethylbenzene	ND ug/L		0.50	1		10/04/10 06:47	100-41-4	
Methyl-tert-butyl ether	209 ug/L		0.50	1		10/04/10 06:47	1634-04-4	

Date: 10/07/2010 10:39 AM

REPORT OF LABORATORY ANALYSIS

Page 5 of 10

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS

Project: 2705748 6401 Dublin Blvd

Pace Project No.: 255103

Sample: MW-5_20100930		Lab ID: 255103003	Collected: 09/24/10 14:00	Received: 09/25/10 10:24	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		10/04/10 06:47	108-88-3	
Xylene (Total)	ND	ug/L	1.5	1		10/04/10 06:47	1330-20-7	
4-Bromofluorobenzene (S)	97	%	80-120	1		10/04/10 06:47	460-00-4	
Dibromofluoromethane (S)	105	%	80-122	1		10/04/10 06:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	80-124	1		10/04/10 06:47	17060-07-0	
Toluene-d8 (S)	95	%	80-123	1		10/04/10 06:47	2037-26-5	
CA LUFT MSV GRO		Analytical Method: CA LUFT						
TPH-Gasoline (C05-C12)	169	ug/L	50.0	1		10/04/10 06:47		T4
4-Bromofluorobenzene (S)	97	%	82-116	1		10/04/10 06:47	460-00-4	

QUALITY CONTROL DATA

Project: 2705748 6401 Dublin Blvd

Pace Project No.: 255103

QC Batch: MSV/3213 Analysis Method: EPA 5030B/8260
 QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
 Associated Lab Samples: 255103001, 255103002, 255103003

METHOD BLANK: 43266 Matrix: Water

Associated Lab Samples: 255103001, 255103002, 255103003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/L	ND	0.50	10/04/10 02:27	
Ethanol	ug/L	ND	250	10/04/10 02:27	
Ethylbenzene	ug/L	ND	0.50	10/04/10 02:27	
Methyl-tert-butyl ether	ug/L	ND	0.50	10/04/10 02:27	
Toluene	ug/L	ND	0.50	10/04/10 02:27	
Xylene (Total)	ug/L	ND	1.5	10/04/10 02:27	
1,2-Dichloroethane-d4 (S)	%	97	80-124	10/04/10 02:27	
4-Bromofluorobenzene (S)	%	97	80-120	10/04/10 02:27	
Dibromofluoromethane (S)	%	106	80-122	10/04/10 02:27	
Toluene-d8 (S)	%	98	80-123	10/04/10 02:27	

LABORATORY CONTROL SAMPLE: 43267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	18.7	94	76-127	
Ethanol	ug/L	400	433	108	31-182	
Ethylbenzene	ug/L	20	18.6	93	72-125	
Methyl-tert-butyl ether	ug/L	20	22.2	111	58-145	
Toluene	ug/L	20	17.2	86	69-125	
Xylene (Total)	ug/L	60	56.8	95	74-124	
1,2-Dichloroethane-d4 (S)	%			98	80-124	
4-Bromofluorobenzene (S)	%			98	80-120	
Dibromofluoromethane (S)	%			104	80-122	
Toluene-d8 (S)	%			98	80-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 43269 43270

Parameter	Units	255032004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Ethanol	ug/L	ND	400	400	402	392	100	98	36-177	2	
Ethylbenzene	ug/L	ND	20	20	21.9	21.4	109	107	76-124	2	
Methyl-tert-butyl ether	ug/L	3.2	20	20	26.9	25.1	118	110	72-130	7	
Toluene	ug/L	ND	20	20	20.6	20.1	103	100	75-124	2	
Xylene (Total)	ug/L	ND	60	60	65.1	62.5	109	104	76-123	4	
1,2-Dichloroethane-d4 (S)	%						95	95	80-124		
4-Bromofluorobenzene (S)	%						102	104	80-120		
Dibromofluoromethane (S)	%						104	101	80-122		
Toluene-d8 (S)	%						98	95	80-123		

QUALITY CONTROL DATA

Project: 2705748 6401 Dublin Blvd

Pace Project No.: 255103

QC Batch: MSV/3212 Analysis Method: CA LUFT
 QC Batch Method: CA LUFT Analysis Description: CA LUFT MSV GRO
 Associated Lab Samples: 255103001, 255103002, 255103003

METHOD BLANK: 43264 Matrix: Water

Associated Lab Samples: 255103001, 255103002, 255103003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	ND	50.0	10/04/10 02:27	
4-Bromofluorobenzene (S)	%	97	82-116	10/04/10 02:27	

LABORATORY CONTROL SAMPLE: 43265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-Gasoline (C05-C12)	ug/L	500	418	84	60-140	
4-Bromofluorobenzene (S)	%			100	82-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 43379 43380

Parameter	Units	255070001 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	564	566	111	111	60-140	.3	
4-Bromofluorobenzene (S)	%						101	101	82-116		

QUALIFIERS

Project: 2705748 6401 Dublin Blvd

Pace Project No.: 255103

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

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

T4 Result reported for hydrocarbons within the method-specific range that do not match pattern of laboratory standard.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2705748 6401 Dublin Blvd

Pace Project No.: 255103

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
255103001	MW-1_20100930	EPA 5030B/8260	MSV/3213		
255103002	MW-3_20100930	EPA 5030B/8260	MSV/3213		
255103003	MW-5_20100930	EPA 5030B/8260	MSV/3213		
255103001	MW-1_20100930	CA LUFT	MSV/3212		
255103002	MW-3_20100930	CA LUFT	MSV/3212		
255103003	MW-5_20100930	CA LUFT	MSV/3212		

255103

COP ELT CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.



Required Lab Information:		Required Project Information:		Required Invoice Information:	
Lab Name: Pace-Seattle	Site ID #: 2705748	Task: WG_S_201009	Send Invoice to: David Sowle	21941/21	
Address: 940 S. Hamey Street Seattle WA 98108	Delta project #: 142705748	Address: 11050 White Rock Road, Suite 110	Turn around time (days): 10	3Q10 GW Event	
Lab PM: Regina Ste. Marie	City: Dublin	State: CA 94568	Reimbursement project? <input type="checkbox"/>	Non-reimbursement project? <input checked="" type="checkbox"/>	Mark one
Phone/Fax: P: 206-957-2433 F: 206-767-5063	Delta PM Name: Dennis Dettloff	Send EDD to: copeltdata@intelligentehs.com	QC level Required: Standard	Special	Mark one
Lab PM email: Regina.SteMarie@pacelabs.com	Phone/Fax: P: 1-800-477-7411 F: 408-225-8506	CC Hardcopy report to:	MA MCP Cert? <input type="checkbox"/>	CT RCP Cert? <input type="checkbox"/>	Mark One
Applicable Lab Quote #:	Delta PM Email: ddettloff@deltaenv.com	CC Hardcopy report to:	Lab Project ID (lab use)		

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Samples IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX DRINKING WATER WP GROUND WATER WG WASTE WATER WW FREE PRODUCT LF SOIL SO CL WIFE SW AMBIENT AIR AA SVE AIR AE SOIL GAS GS	MATRIX WATER W SURFACE WATER WS WATER GC WG SLUDGE SL RINSEATE WH OTHER OT ANIMAL TISSUE TA	MATRIX CODE	SAMPLE TYPE G-GRAB C-COMP	SAMPLE DATE	SAMPLE TIME	#OF CONTAINERS	FIELD FILTERED? (Y/N)	Preservatives										Requested Analyses	Comments/Lab Sample I.D.			
										Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	2-200 GC/MS GRO	2-200B Hex/MS/MS			2-200E Methanol		
1	MW-1_20100930			WG	G	9/24/10	1315	10	N											X	X	X		
2	MW-3_20100930			WG	G	9/24/10	1415	6	N											X	X	X		
3	MW-5_20100930			WG	G	9/24/10	1400	6	N											X	X	X		
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Additional Comments/Special Instructions: GLOBAL ID: T0600101443	RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	Sample Receipt Conditions			
	Ben Panell / BTS		9/24/10	1600	Ben Panell / BTS		9/24/10	1600	Y/N	Y/N	Y/N	
					Sydnie Sway / PACE		9/25/10	1024	3.7	Y/N	Y/N	Y/N
										Y/N	Y/N	Y/N
SHIPPING METHOD: (mark as appropriate)		SAMPLER NAME AND SIGNATURE										
UPS COURIER <u>FEDEX</u>		Ben Panell										
US MAIL		SIGNATURE of SAMPLER: <u>Ben Panell</u>										
		DATE Signed		Time								
		9/24/10		1600								
		Temp in °C	Samples on Ice?	Sample intact?	Trip Blank?							

Sample Container Count

CLIENT: _____

Delta



COC PAGE 1 of 1

COC ID# _____

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

AG1H	1 liter HCL amber glass					BP2S	500mL H2SO4 plastic			JGFU	4oz unpreserved amber wide
AG1U	1 liter 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 vial			WGFU	4oz clear soil jar
BP1U	1 liter unpreserved plastic					DG9M	40mL MeOH clear vial			WGFY	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: Delta Project # 255103

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 8697 3354 9066

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 3.7 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: NJS 9/25/10

Temp should be above freezing $\leq 6^{\circ}\text{C}$

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.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-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	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>Water</u>	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: <u>VOA</u> , coliform, TOC, O&G		Initial when completed
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Lot # of added preservative
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blanks Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15. <u>34/25/10</u>
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
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: 09/28/10

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)