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10:18 am, Jun 13, 2008

Alameda County
Environmental Health

November 22, 2006

Mr. Steven Plunkett
Hazardous Materials Specialist
Alameda County Health Agency
Division of Environmental Protection
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

SUBJECT: FOURTH QUARTER 2006 GROUNDWATER MONITORING REPORT

SITE: FORMER OLYMPIAN SERVICE STATION
1435 WEBSTER STREET
ALAMEDA, CALIFORNIA 94501

Dear Mr. Plunkett:

On behalf of Olympian, TEC Accutite is pleased to submit this fourth quarter 2006 groundwater monitoring report for the above referenced site.

Thank you for your cooperation and assistance on this project. If you have any questions, please call Marc Mullaney at (650) 616-1209.

Sincerely,
TEC Accutite

Nathan W. Smith
Project Geologist

cc: Mr. Fred Bertetta c/o Ms. Janet Heikel, Olympian, 1300 Industrial Road, Suite 2, San Carlos, CA 94070
Mr. Jeff Farrar, P.O. Box 1701, Chico, CA 95927
Mr. and Mrs. Charles A. & Ose M. Begley, 2592 Pine View Dr., Fortuna, CA 95540

**FOURTH QUARTER 2006
GROUNDWATER MONITORING REPORT**

**FORMER OLYMPIAN SERVICE STATION
1435 WEBSTER STREET
ALAMEDA, CA 94501**

**PREPARED FOR:
OLYMPIAN
AND
ALAMEDA COUNTY HEALTH AGENCY**

**PREPARED BY:
TEC ACCUTITE
262 MICHELLE COURT
SOUTH SAN FRANCISCO, CA 94080**

**SAMPLING DATE
OCTOBER 05, 2006**



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- B LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION
- C GEOTRACKER SUBMISSION CONFIRMATION



1.0 INTRODUCTION

On behalf of Olympian, TEC Accutite conducted the fourth quarter 2006 groundwater monitoring event at the former Olympian Service Station, located at 1435 Webster Street, Alameda, California. Presented below are the site background and results of the monitoring event.

2.0 SITE DESCRIPTION

The site is located on the corner of Webster Street and Taylor Avenue in Alameda, California. Prior to 1989, the site was occupied by an Olympian Service Station. Station facilities consisted of two 10,000-gallon gasoline and one 7,500-gallon diesel underground storage tanks (USTs), two dispenser islands and a 500-gallon waste oil UST. A Vicinity Map and a Site Map are presented as Figures 1 and 2, respectively.

The surrounding topography is flat and the site is approximately 20 feet above mean sea level. The site is situated in a mixed commercial and residential area and is currently leased by the City of Alameda and used as a metered parking lot.

3.0 ENVIRONMENTAL BACKGROUND

October 1988, Soil Gas Survey: In October 1988, *CHIPS Environmental Consultants, Inc.* performed soil gas analysis at the subject site. High soil gas readings were found on the eastern side of one of the pump islands, between the pump islands, and from backfill between the gasoline storage tanks.

September 1989, Tank Removal: In September 1989, TEC Accutite removed two 10,000-gallon gasoline USTs, one 7,500-gallon diesel UST and one 500-gallon waste oil UST. Analysis of soil samples collected during removal of the USTs detected hydrocarbons at a maximum concentration of 220 parts per million (ppm) Total Petroleum Hydrocarbons as gasoline (TPHg), 430 ppm Total Petroleum Hydrocarbons as diesel (TPHd), and 650 ppm Total Recoverable Petroleum Hydrocarbons as Oil and Grease (TRPH).

January 1991, Soil Excavation: Remedial excavation of the hydrocarbon impacted soil was conducted by *AAA Tank Removal / Forcade Excavations Services*. Approximately 950 cubic yards of soil were removed from the former location of the USTs. This soil was bioremediated onsite and returned to the former excavation.

January 1993, Well Installation: *Uriah Environmental Services, Inc.* installed three monitoring wells onsite (MW-1 through MW-3). Soil samples collected during the well installation contained no detectable concentrations of petroleum hydrocarbons. Bi-annual groundwater monitoring was initiated. Dissolved-phase hydrocarbons have been detected in all wells at variable concentrations.

February 1999, Soil Borings: TEC Accutite advanced four borings (B-1 through B-4) on- and off-site to determine the extent of hydrocarbon impact to soil and groundwater. Analysis of soil samples detected non-significant concentrations of TPHg, benzene, toluene, ethyl-benzene, xylenes (BTEX), and methyl tert-butyl ether (MTBE). Analysis of groundwater samples detected hydrocarbon concentrations up to 6,000 parts per billion (ppb) MTBE and 38,000 ppb benzene.

December 1999, Well Installations: TEC Accutite installed three additional wells, MW-4 through MW-6, to define the extent of dissolved-phase hydrocarbons and to assess the plume stability. Analysis of soil samples detected hydrocarbon concentrations of 1,100 ppm TPHg, 200 ppm TPHd and 3.4 ppm benzene from soil collected at 9.5 feet below grade (fbg) in well MW-5. No hydrocarbons were detected in the soil samples collected during the installation of wells MW-



4 and MW-6. Groundwater monitoring wells MW-6 and MW-3 defined the dissolved-phase hydrocarbon plume upgradient of the former dispenser islands and cross-gradient of the former USTs.

November 2000, Site Conceptual Model: TEC Accutite completed a site conceptual model (SCM). Based on historical quarterly monitoring data, it was determined that the contaminant plume was unstable and undefined downgradient. Given the shallow groundwater elevation (9 fbg) and estimated high permeability of soils beneath the site, the potential for benzene vapor-phase migration from hydrocarbon affected groundwater to indoor and ambient air was identified as an exposure pathway requiring further evaluation.

June 2001, Soil Borings: TEC Accutite advanced four additional borings (B-1 through B-4) to assess the extent of the plume off the site. Soil samples were collected approximately 9 fbg within the capillary fringe from soil borings B-1 through B-4. No petroleum hydrocarbons were detected in the soil above laboratory reporting limits. Insignificant concentrations of petroleum hydrocarbons were detected in groundwater samples collected from downgradient and cross gradient soil borings B-1 through B-4. The greatest concentration of petroleum hydrocarbons was detected in boring B-3 at 400 ppb TPHg and 3 ppb MTBE. MTBE was detected in all soil boring groundwater samples below 5 ppb.

The greatest concentration of dissolved phase petroleum hydrocarbons were detected in monitoring well MW-1 at 18,000 ppb TPHg, 1,200 ppb benzene, and 1,500 ppb MTBE. Dissolved phase concentrations of TPHg, benzene, and MTBE in surrounding monitoring wells were either non-detect or insignificant.

February 2002, Risk Assessment: To address the potential exposure pathway identified in the SCM, TEC Accutite performed a site-specific risk assessment. The risk assessment addressed the potential inhalation risk posed by hydrocarbon impacted groundwater beneath the site assuming both residential and commercial land use scenarios. The compounds of concern were identified as TPHg and benzene. TPHg was assessed using the TPH fractional methodology developed by TPH Criteria Working Group. The calculated annual regional mean concentrations for benzene and TPHg were 2,988 ppb and 23,137 ppb, respectively. The results of the risk assessment found that concentrations of TPHg in groundwater beneath the site were below the calculated site specific target level concentrations (SSTL's) for residential and commercial scenarios. Therefore, TPHg remaining in groundwater beneath the site does not present an inhalation risk. Benzene concentrations in groundwater exceed the SSTL for a residential scenario (110 ppb) but are less than the SSTL for a commercial scenario (6,400 ppb).

The results of the risk assessment suggest that benzene in groundwater beneath the site may present an inhalation risk, assuming residential land use. The risk assessment was based on the Johnson & Ettinger Vapor Fate and Transport Model, which often overestimates actual vapor concentrations at the point of exposure by factors of 10 to 100. Rather than proceed with site closure under restricted commercial land use, a soil vapor survey was recommended to validate the exposure pathway.

May 2003, Soil Vapor Investigation: In May 2003, TEC Accutite conducted a soil vapor investigation at the site. Eight soil vapor samples (SV-1 through SV-7, duplicate sample SV-7) were collected at selected locations by advancing a 1-inch diameter chrome-moly steel probe equipped with a steel drop tip into the ground to a depth of 3.5 fbg. The objective of the soil vapor investigation was to evaluate potential human exposure to site contaminants created by vapors emanating off impacted groundwater and intruding into indoor air (inhalation risk). Soil vapor was withdrawn from the formation into a small calibrated syringe connected with an on-off valve. Following sample collection, the valve was closed and the sample was immediately transferred to a state certified onsite laboratory for analysis.



Soil vapor sampling results were either non-detectable or detected below the Environmental Screening Levels (ESLs). Inhalation risk associated with exposure to vapors emanating off impacted groundwater beneath the site determined to be an invalid exposure pathway.

September 2005, Updated Site Conceptual Model: TEC Accutite completed an updated site conceptual model as required by the ACEH for site closure review. After careful evaluation of all available data, it was determined that there are uncertainties of benzene vapor concentration on-site and current groundwater conditions off-site. Therefore, TEC Accutite recommends verification sampling before the proposal for site closure.

As a part of an ongoing plume assessment, this report details the fourth quarter groundwater monitoring for 2006.

4.0 GROUNDWATER SAMPLING

On October 05, 2006, TEC Accutite conducted the quarterly groundwater monitoring event at the site. Upon arrival to the site, a technician from TEC Accutite uncapped all site wells and allowed the water level in each well to fully equilibrate prior to gauging. Following well gauging, approximately three casing volumes of groundwater were purged from wells MW-1 through MW-6. Water levels in each well were allowed to recover to 80% of the pre-purge level prior to collection of groundwater samples. Following purging and recovery, groundwater samples were collected from the wells with a disposable bailer and transferred into HCL preserved VOAs. The samples were labeled, placed on blue-ice in an ice-chest, and delivered to *Torrent Laboratory, Inc.*, a California Certified Laboratory, under chain of custody documentation for analysis.

All groundwater samples were analyzed for TPHg, BTEX, MTBE, Fuel Oxygenates, and Ethanol by EPA Method 8260. Well sampling logs are presented in Attachment A. The laboratory report and chain-of-custody documentation are included in Attachment B.

Electronic Laboratory Data Submittal

The laboratory report was converted into EDF format and uploaded to GeoTracker, the web-based geo-spatial database. Depths to groundwater were uploaded to GeoTracker as a GEO_WELL file. Attachment C contains hard copies of the GeoTracker submission confirmations.

5.0 RESULTS

Groundwater Elevation and Flow Direction

The calculated groundwater flow direction based on groundwater elevation is toward the southwest at a gradient of 0.005 feet/foot (Figure 3). Groundwater elevations (referenced to the fire hydrant located on the sidewalk of Webster Street) are summarized below.



Summary of Groundwater Elevation Data				
Well ID #	Date	Top of Casing Elevation (ft)	Depth To Groundwater (ft btoc)	Ground Water Elevation (ft)
MW-1	10/05/2006	19.53	9.67	9.86
MW-2	10/05/2006	19.80	10.05	9.75
MW-3	10/05/2006	19.79	10.02	9.77
MW-4	10/05/2006	19.30	9.65	9.65
MW-5	10/05/2006	18.99	8.89	10.10
MW-6	10/05/2006	20.27	10.29	9.98

btoc = below top of casing

ft = feet

Petroleum Hydrocarbons in Groundwater

Groundwater analytical results are summarized in the attached table and are presented in Figure 3. The maximum dissolved-phase petroleum hydrocarbons were found in onsite monitoring well MW-1 (23,000 ppb TPHg, 3,740 ppb benzene, 112 ppb toluene, 395 ppb ethylbenzene, 161 ppb xylene, and 6,020 ppb MTBE). The next highest concentrations were detected in monitoring well MW-5 (410 ppb TPHg, 105 ppb benzene, 1.06 ppb toluene, 9.05 ppb ethylbenzene, 2.24 ppb xylenes, and 101 ppb MTBE). Low MTBE concentration was detected at well MW-2 (e.g., 11.9 ppb) this quarter, but within historical range. Petroleum hydrocarbons were not found above laboratory reporting limits in monitoring wells MW-3, MW-4, and MW-6.

6.0 CONCLUSIONS AND RECOMMENDATIONS

- The groundwater flow direction and gradient were slightly different this quarter from the previous monitoring event, changing from a southeastern direction to a southwestern direction.
- Dissolved-phase petroleum hydrocarbon concentrations were elevated this quarter in the groundwater samples collected from monitoring wells MW-1 and MW-5, but within historical range.
- Monitoring well MW-2 had a lower concentration of MTBE (11.9 ppb), but was still above the ESL.
- Non-detectable concentrations of dissolved-phase petroleum hydrocarbons were detected in monitoring wells MW-3, MW-4, and MW-6.
- TEC Accutite is going to reintroduce analysis for TPHd for the first quarter of 2007, and will compare chromatographs of samples collected to analytical standards for diesel, in order to determine if diesel is present in groundwater.

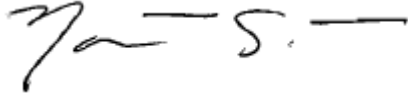


7.0 LIMITATIONS

Our services consist of professional opinions, conclusions, and recommendations made today in accordance with generally accepted engineering principles and practices. This warranty is in lieu of all other warranties either expressed or implied. TEC Accutite's liability is limited to the dollar amount of the work performed.

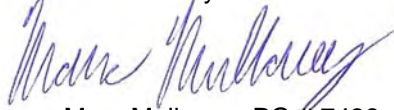
Thank you for your cooperation. If you have any questions, please contact the undersigned at (650) 616-1200.

Sincerely,
TEC Accutite

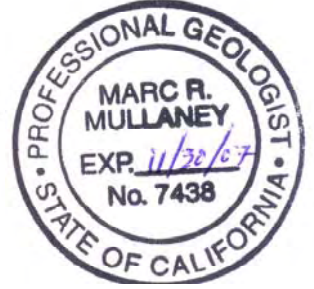


Nathan W. Smith
Project Geologist

Reviewed by:



Marc Mullaney, PG # 7438
Project Manager



TABLE



Table
Summary of Groundwater Monitoring Results
Former Olympian Service Station
1435 Webster Street, Alameda CA.

Well ID	Sample Date	Depth to Water (ft)	Groundwater Elevation (ft msl)	TPHd	TPHg	B	T	E	X	MTBE	TRPH
				Concentrations in parts per billion (ppb)							
MW-1	6/3/93	NA(1)		NA	NA	NA	NA	NA	NA	NA	NA
	9/14/94	11.46	8.07	<50	14,000	44	28	25	50	NA	800
	12/30/94	9.22	10.31	<50	4,000	12	9	6.8	30	NA	<500
	3/26/95	6.76	12.77	<50	1,000	21	10	7.1	25	NA	2,100
	7/9/95	8.92	10.61	<50	16,000	57	28	25	53	NA	NA
	7/31/98	8.30	11.23	1,700	4,700	1,300	48	140	150	6,600	<5000
	2/11/99	7.91	11.62	2000	25,000	18,000	1,600	1,400	500	28,000	NA
	6/23/99	9.03	10.50	4,900	42,000	11,000	1,100	1,500	2,300	15,000	NA
	12/6/99	10.86	8.67	4,000	44,000	8,900	3,400	1,900	5,100	11,000	NA
	3/16/00	6.93	12.60	700	5,100	2,400	100	280	460	2,700(2)	NA
	6/13/00	8.73	10.80	2,800	17,000	5,300	260	720	790	7,000(2)	NA
	9/29/00	10.18	9.35	5,200*	50,000	11,000	2,900	1,900	4,600	7,200(2)	NA
	3/22/01	8.24	11.29	1,500*	8,600	2,600	750	250	950	3,200(2)	NA
	6/25/01	9.73	9.80	NA	18,000	1,200	1,800	970	3,200	1500(2)	NA
	9/28/01	11.06	8.47	NA	48,000	5,200	6100	2200	8100	4000	NA
	12/26/2001	8.11	11.42	NA	524	216	1.2	8.6	7.4	721	NA
	07/0705	8.69	10.84	NA	1,500	190	15	36	29	1,100	NA
	10/19/2005	10.25	9.28	NA	11,000	2,100	45	370	82	4,600	NA
	1/13/2006	7.09	12.44	NA	5,400	680	37	83	41	3,900	NA
	5/5/2006	6.40	13.13	NA	<25	2	<0.5	<0.5	<0.5	2.2	NA
7/19/2006	8.28	11.25	NA	5,000	836	22.3	107	81.8	1,130	NA	
10/5/2006	9.67	9.86	NA	23,000	3,740	112	395	161	6,020	NA	
MW-2	6/3/93	9.54	10.26	<50	<50	5.8	<0.5	<0.5	<0.5	NA	<500
	9/14/94	11.82	7.98	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<500
	12/30/94	9.46	10.34	<50	160	1.4	1.4	0.8	5	NA	<500
	3/26/95	6.82	12.98	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<500
	7/9/95	9.22	10.58	NA	NA	NA	NA	NA	NA	NA	NA
	7/31/98	8.56	11.24	220	<50	<0.5	<0.5	<0.5	<0.5	73	<500
	2/11/99	8.12	11.68	<50	<50	<0.5	<0.5	<0.5	<0.5	75	NA
	6/23/99	9.33	10.47	420	<50	<0.5	<0.5	<0.5	<0.5	96	NA
	12/6/99	11.20	8.60	<110	300	28	45	6	37	210	NA
	3/16/00	6.88	12.92	<50	<50	1	<0.5	0.5	1	3	NA
	6/13/00	8.99	10.81	<50	68	0.8	<0.5	<0.5	<0.5	38	NA
	9/29/00	10.40	9.40	<50	67	0.8	0.5	<0.5	1	86(2)	NA
	3/22/01	8.46	11.34	<50	<50	1	0.5	<0.5	1	14	NA
	6/25/01	10.11	9.69	NA	<50	<0.5	<0.5	<0.5	<1.0	13	NA
	9/28/01	11.40	8.40	NA	300	4	6	3	10	130	NA
	12/26/01	8.28	11.52	NA	<50	<0.5	<0.5	<0.5	<1.0	<0.5	ND
	7/7/05	8.99	10.81	NA	<50	<0.5	<0.5	<0.5	<1.0	20	NA
	10/19/2005	10.63	9.17	NA	29	1.4	<0.5 (3)	<0.5	<0.5	19	NA
	1/13/2006	7.15	12.65	NA	<25	<0.5	<0.5	<0.5	<0.5	<1.0	NA
	5/5/2006	6.43	13.37	NA	<25	<0.5	<0.5	<0.5	<0.5	<1.0	NA
7/19/2006	8.57	11.23	NA	<50	<0.5	<0.5	<0.5	<1.5	16.6	NA	
10/5/2006	10.05	9.75	NA	<50	<0.5	<0.5	<0.5	<0.5	<1.5	11.9	NA
MW-3	6/3/93	9.80	9.99	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<500
	9/14/94	12.19	7.60	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<500
	12/30/94	9.72	10.07	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<500
	3/26/95	6.88	12.91	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	<500
	7/9/95	9.52	10.27	NA	NA	NA	NA	NA	NA	NA	NA
	7/31/98	8.40	11.39	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5000
	2/11/99	7.77	12.02	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
	6/23/99	9.21	10.58	<50	<50	<0.5	<0.5	<0.5	<0.5	3	NA
	12/6/99	11.12	8.67	<110	<50	3	1	<0.5	1	0.6	NA
	3/16/00	6.48	13.31	<50	<50	<0.5	<0.5	<0.5	<1.0	1	NA
	6/13/00	8.76	11.03	<50	490	0.8	<0.5	<0.5	9	2	NA
	9/29/00	10.20	9.59	<50	57	<0.5	<0.5	<0.5	<1.0	<1.0(2)	NA
	3/22/01	8.24	11.55	<50	<50	<0.5	<0.5	<0.5	<1.0	2	NA
	6/25/01	10.04	9.75	NA	<50	<0.5	<0.5	<0.5	<1.0	0.8	NA
	9/28/01	11.34	8.45	NA	91	<0.5	<0.5	<0.5	2	2	NA
	12/26/01	8.01	11.78	NA	<50	<0.5	<0.5	<0.5	<1.0	<0.5	NA
	7/7/05	8.84	10.95	NA	<50	<0.5	<0.5	<0.5	<1.0	<0.5	NA
	10/19/2005	10.58	9.21	NA	<25	<0.5	<0.5 (3)	<0.5	<0.5	<1.0	NA
	1/13/2006	6.85	12.94	NA	<25	<0.5	<0.5	<0.5	<0.5	<1.0	NA
	5/5/2006	6.11	13.68	NA	<25	<0.5	<0.5	<0.5	<0.5	<1.0	NA
7/19/2006	8.41	11.38	NA	<50	<0.5	<0.5	<0.5	<1.5	<0.5	NA	
10/5/2006	10.02	9.77	NA	<50	<0.5	<0.5	<0.5	<0.5	<1.5	<0.5	NA

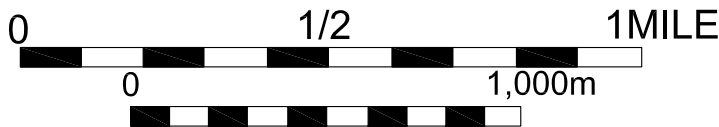
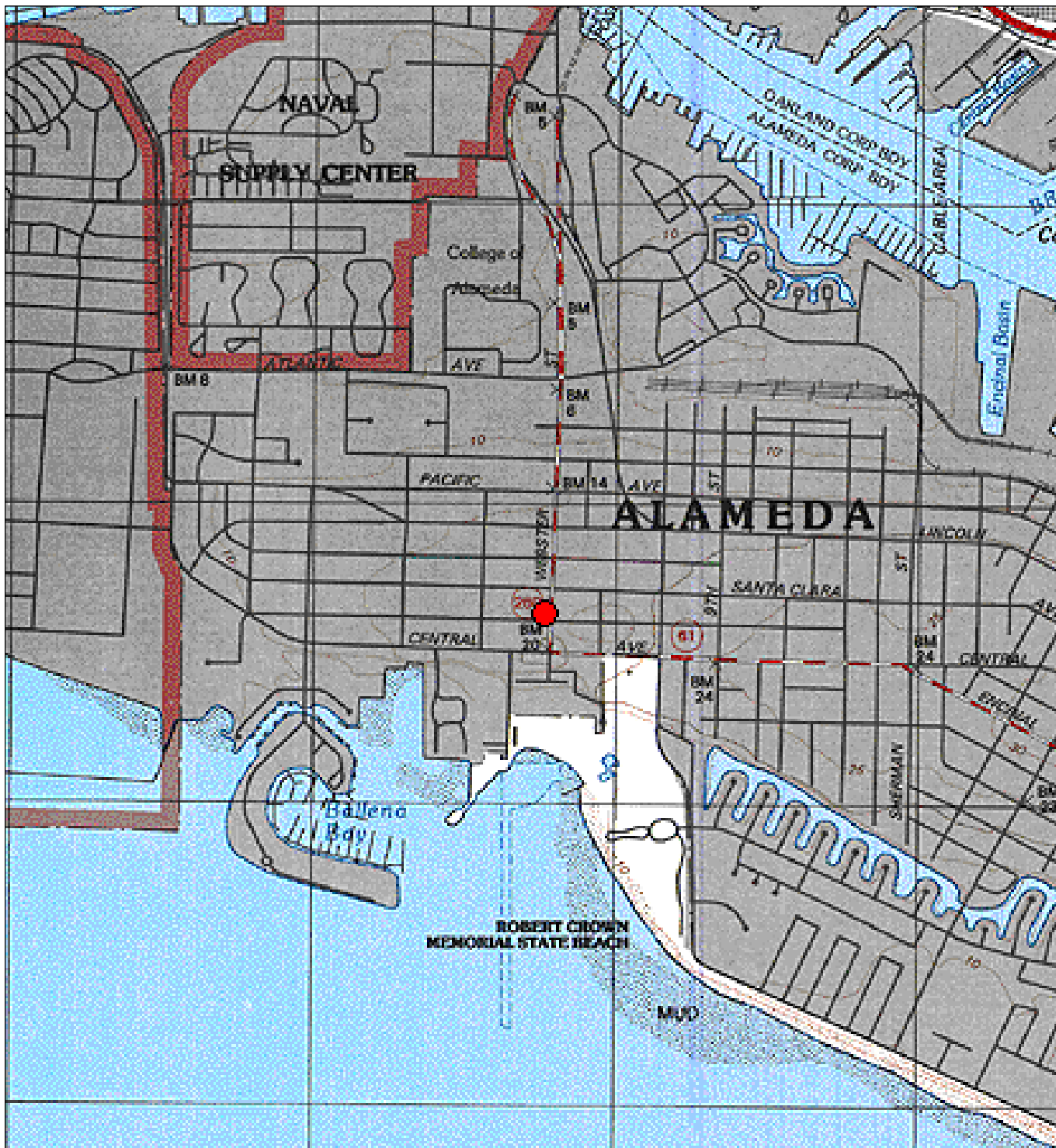
Table
Summary of Groundwater Monitoring Results
Former Olympian Service Station
1435 Webster Street, Alameda CA.

Well ID	Sample Date	Depth to Water (ft)	Groundwater Elevation (ft msl)	TPHd	TPHg	B	T	E	X	MTBE	TRPH	
				Concentrations in parts per billion (ppb)								
MW-4	12/6/99	10.79	8.51	160	<50	3	2	0.6	4	140	NA	
	3/16/00	6.86	12.44	90	<50	0.5	0.5	<0.5	2	34	NA	
	6/13/00	8.18	11.12	<50	56	<0.5	<0.5	<0.5	<1.0	1	NA	
	9/29/00	10.11	9.19	<50	92	0.7	<0.5	<0.5	3	<1.0(2)	NA	
	4/5/01	8.26	11.04	<50	51	<0.5	0.5	<0.5	1	6.0(2)	NA	
	6/25/01	9.68	9.62	NA	<50	<0.5	<0.5	<0.5	<1.0	<0.5	NA	
	9/28/01	10.98	8.32	NA	<50	<0.5	<0.5	<0.5	2	2	NA	
	12/26/01	8.18	11.12	NA	<50	1.6	1.7	1.6	4.4	2.7	NA	
	7/7/05	8.77	10.53	NA	<50	<0.5	<0.5	<0.5	<1.0	<0.5	NA	
	10/19/2005	10.24	9.06	NA	<25	<0.5	<0.5 (3)	<0.5	<0.5	<1.0	NA	
	1/13/2006	(1)	(1)	*****Not sampled*****								
	5/5/2006	(1)	(1)	*****Not sampled*****								
	7/19/2006	8.38	10.92	NA	<50	<0.5	<0.5	<0.5	<0.5	<1.5	<0.5	NA
	10/5/2006	9.65	9.65	NA	<50	<0.5	<0.5	<0.5	<0.5	<1.5	<0.5	NA
	MW-5	12/6/99	10.17	8.82	2,800	30,000	2,200	3,300	910	7000	670	NA
3/16/00		6.28	12.71	1,100	3,500	1,100	260	210	6300	260	NA	
6/13/00		7.95	11.04	1,100	6,500	2200	360	360	730	480	NA	
9/29/00		9.54	9.45	700*	3,900	990	120	300	340	390(2)	NA	
3/22/01		7.48	11.51	380*	4,300	780	240	250	530	190	NA	
6/25/01		9.05	9.94	NA	3,100	1000	110	200	320	140	NA	
9/28/01		10.39	8.60	NA	3,000	1200	77	120	170	770	NA	
12/26/01		7.28	11.71	NA	3,240	738	262	218	626	66.4	NA	
8/24/05		7.87	11.12	NA	150	57	3	8	3.9	67	NA	
10/19/2005		9.51	9.48	NA	560	130	3.8	23	9.3	230	NA	
1/13/2006		6.35	12.64	NA	2,300	570	18	120	140	220	NA	
5/5/2006		5.64	13.35	NA	130	35	1.7	7.8	7.4	8	NA	
7/19/2006		7.41	11.58	NA	210	102	1.54	15.8	3.85	27.6	NA	
10/5/2006		8.89	10.10	NA	410	105	1.06	9.05	2.24	101	NA	
MW-6		12/6/99	11.46	8.81	110	<50	2	2	0.8	8	1	NA
	3/16/00	8.32	11.95	<50	<50	8	8	5	18	<0.5	NA	
	6/13/00	9.14	11.13	<50	75	0.7	1	0.9	2	0.6	NA	
	9/29/00	10.81	9.46	<50	<50	<0.5	<0.5	<0.5	<1.0	<0.5	NA	
	3/22/01	8.64	11.63	<50	66	0.5	<0.5	<0.5	<1.0	3	NA	
	6/25/01	10.39	9.88	NA	<50	<0.5	<0.5	<0.5	<1.0	4	NA	
	9/28/01	11.70	8.57	NA	63	2	ND	ND	1	3	NA	
	12/26/01	8.40	11.87	NA	<50	<0.5	<0.5	<0.5	1.4	<0.5	NA	
	7/7/05	9.10	11.17	NA	<50	<0.5	<0.5	<0.5	<1.0	<0.5	NA	
	10/19/2005	10.88	9.39	NA	<25	<0.5	<0.5 (3)	<0.5	<0.5	<1.0	NA	
	1/13/2006	7.33	12.94	NA	<25	<0.5	<0.5	<0.5	<0.5	<1.0	NA	
	5/5/2006	6.53	13.74	NA	<25	<0.5	<0.5	<0.5	<0.5	<1.0	NA	
	7/19/2006	8.64	11.63	NA	<50	<0.5	<0.5	<0.5	<1.5	<0.5	NA	
	10/5/2006	10.29	9.98	NA	<50	<0.5	<0.5	<0.5	<1.5	<0.5	NA	
	ESLs				NA	100	1	40	30	20	5	NA

Abbreviations / Notes

TPHd = Total Petroleum Hydrocarbons as Diesel (EPA Method 8015)
TPHg = Total Petroleum Hydrocarbons as Gasoline by EPA Method 8015; July 2005 by EPA 8260
BTEX = Benzene, Toluene, Ethylbenzene, Xylenes by EPA Method 8020; July 2005 by EPA 8260
MTBE = Methyl tert-butyl Ether by EPA Method 8020; July 2005 by EPA 8260
TRPH = Total Recoverable Petroleum Hydrocarbons
<X = Concentration less than laboratory reporting limit
(1) Well not accessible because of a car obstruction
NA = not analyzed or not available
* Does not match diesel chromatogram pattern
(2) Confirmed by EPA Method 8260
(3) Toluene was detected at concentrations of 1 ppb in sample from well MW-2, 0.74 ppb in sample from well MW-3, 0.9 ppb in sample from well MW-4, and 0.66 ppb in sample from well MW-6. Data were adjusted to non-detect because of the presence of toluene (0.81 ppb) in method blank and the sample results were less than 5 times in the blank (EPA, Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses, December 1999)
ESLs = Environmental Screening Levels obtained from Table F-1a, assuming groundwater is a current or potential drinking water resource (CARWQCB, Interim Final, February 2005).
February 2005).

FIGURES



● Site Location
 Map By: TOPO!
 Date: 10/20/2006
 Drafted By: LC

Former Olympian Service Station
 1435 Webster Street
 Alameda, California

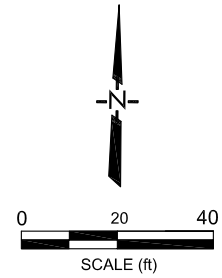
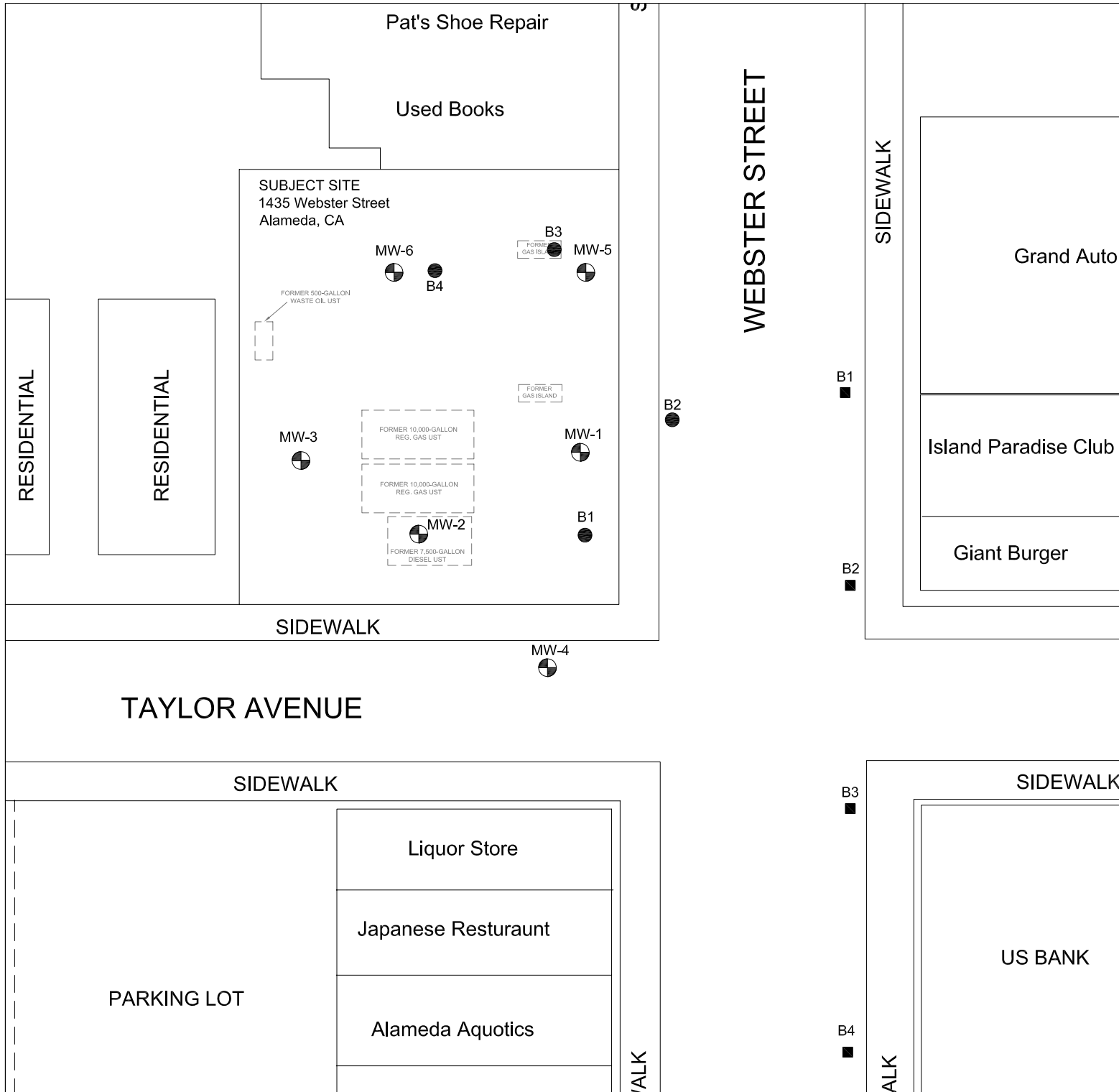
TEC ACCUTITE
 262 Michelle Court
 So. San Francisco, CA 94080
 Main: (650) 616-1200
 Fax: (650) 616-1244

FIGURE

1

TITLE

Vicinity Map



LEGEND

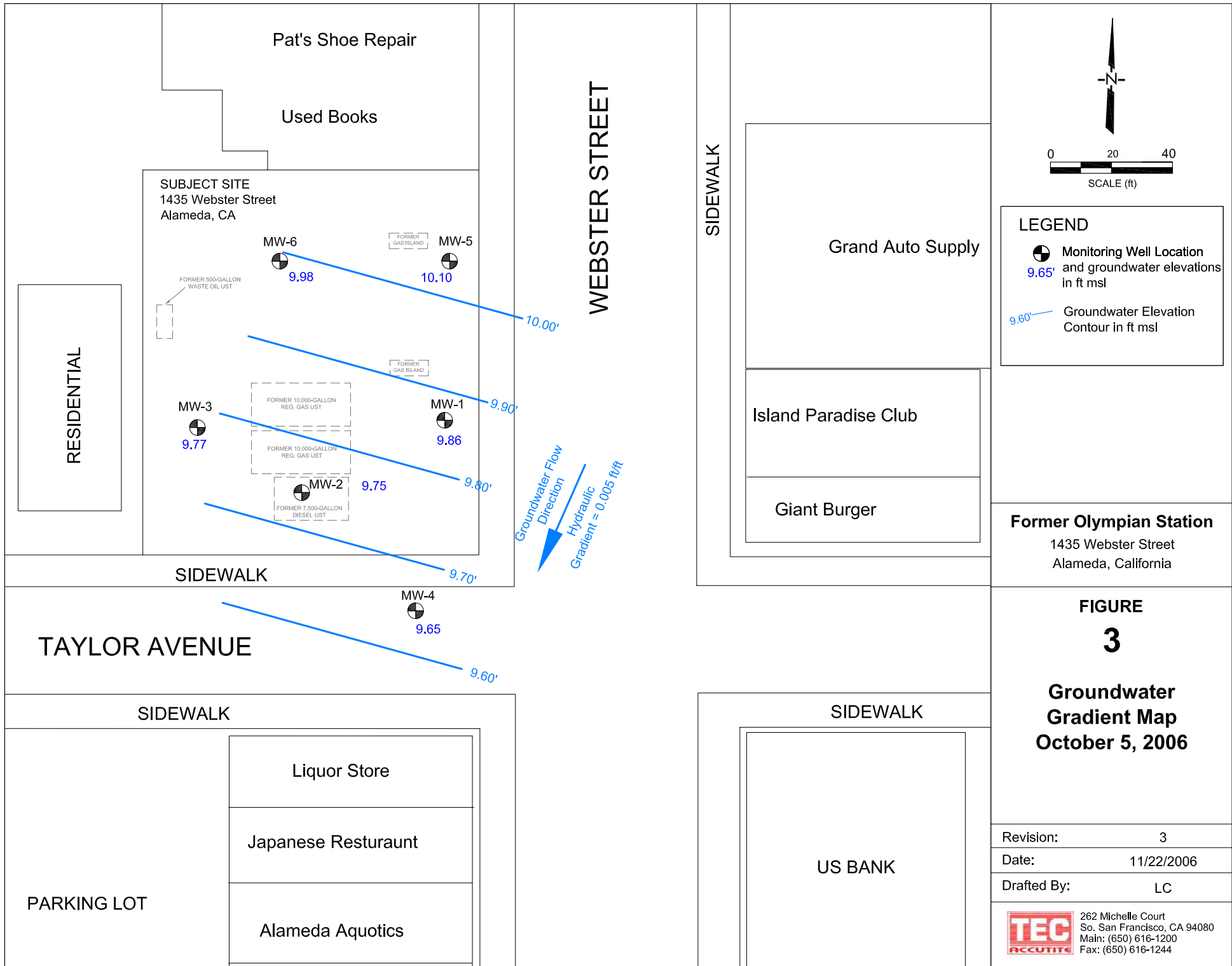
- Monitoring Well Location
- Soil Boring Location (February 1999)
- Soil Boring Location (June 2001)
- Soil Vapor Same Location (May 2003)

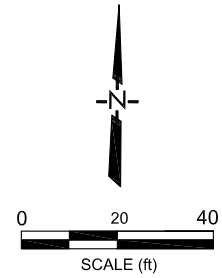
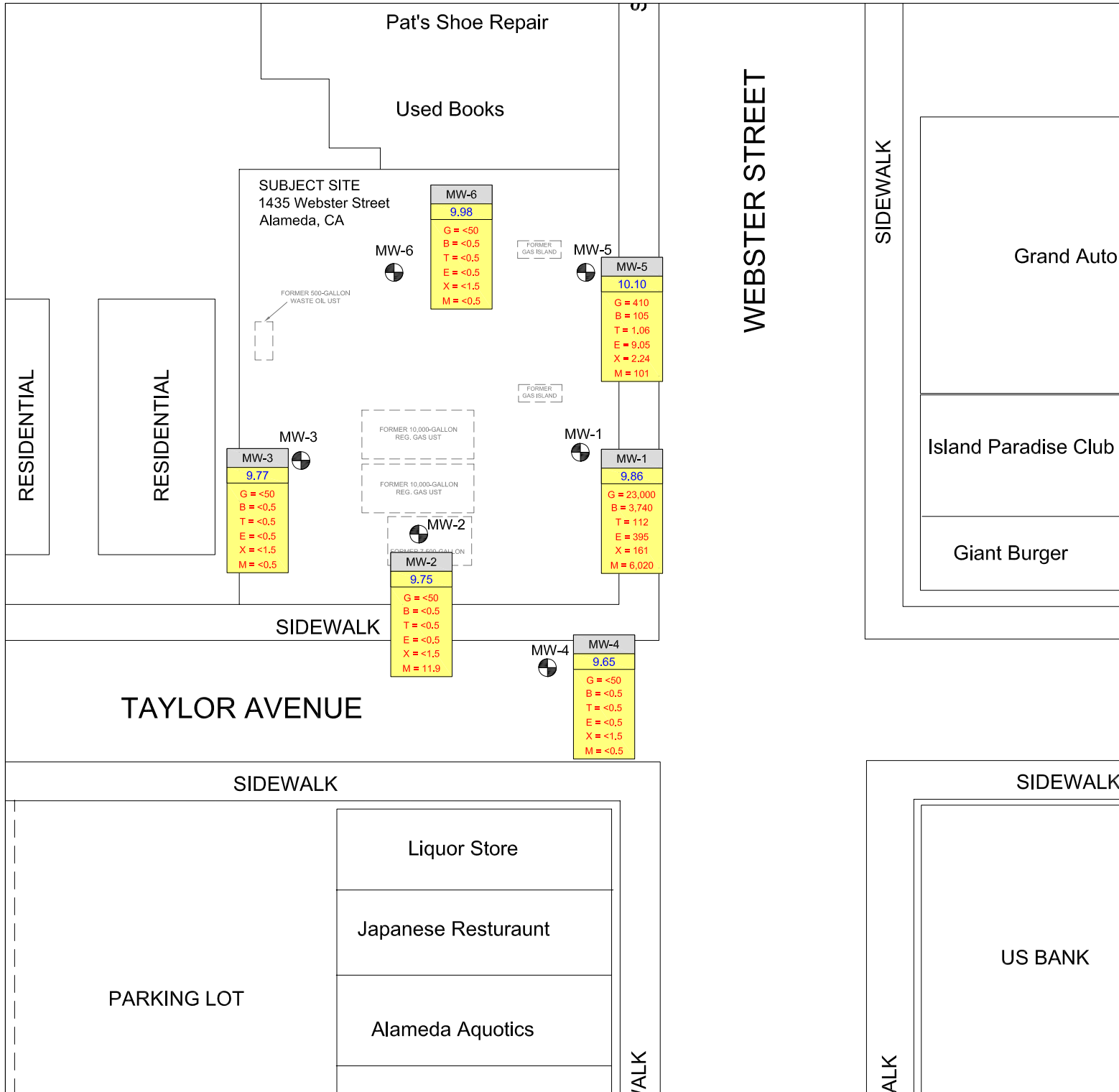
Former Olympian Station
1435 Webster Street
Alameda, California

FIGURE 2
Site Map

Revision:	1
Date:	10/20/2006
Drafted By:	LC

TEC ACCUTITE 262 Michelle Court
So. San Francisco, CA 94080
Main: (650) 616-1200
Fax: (650) 616-1244





LEGEND

- Monitoring Well Location
- Monitoring Well Designation
- GW ELEV.
- G = TPHg
- B = Benzene
- T = Toluene
- E = Ethylbenzene
- X = Xylenes
- Petroleum Hydrocarbon Concentrations in Groundwater (ppb)

Former Olympian Station
1435 Webster Street
Alameda, California

FIGURE 4
Petroleum Hydrocarbons In Groundwater October 2006

Revision:	1
Date:	10/20/2006
Drafted By:	LC

TEC ACCUTITE 262 Michelle Court
So. San Francisco, CA 94080
Main: (650) 616-1200
Fax: (650) 616-1244

ATTACHMENT A
WELL SAMPLING LOGS



TEC ACCUTITE Well Data Sheet

Date: 10/5/06 Project: 1435 Webster Project # 1435 Webster Sampler: A.M.

Event: 4th Q.G.W. Client: Olympian Site Address: Alameda

Well ID	Time	Measurement					Well Diameter	Comments
		TOC	DTB	DTW	DTP	PT		
MW-1	0913		22.74	9.67			2"	
MW-2	0909		19.11	10.05				
MW-3	0907		21.91	10.02				
MW-4	0902		17.55	9.65				
MW-5	0911		18.36	8.89				
MW-6	0905		19.39	10.29			∨	

- Codes:
- TOC = Top Of Casing (Feet, Relative to Mean Sea Level)
 - DTB = Depth To Bottom (Feet)
 - DTW = Depth To Water (Feet)
 - DTP = Depth To Product (Feet)
 - PT = Product Thickness (Feet)
 - ELEV = Groundwater Elevation (Feet, Relative to Mean Sea Level)

**TEC Accutite
Water Sample Field Data Sheet**

Project #: 1435 Webster Purged By: A.M. Well I.D.: MW-1
 Client Name: OLYMPIAN Sampled By: ↓ Sample I.D.: MW-1
 Location: Alameda QA Samples: —

Date Purged 10/5/06 Start (2400hr) 1137 End (2400hr) 1143
 Date Sampled ↓ Sample Time (2400hr) 1330
 Sample Type: Groundwater Other: —

Casing Diameter 2" 3" 4" 5" 6" 8" Other

Depth to Bottom (feet) = 22.74 Depth to Water (feet) = 9.67
 DTB-DTW = 13.07 Purge (gal) = 2.22 x 3 (volumes) = 6.66 gal

Field Measurements

Date (mm/dd/yy)	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
10/5/06	1139	2.22	21.2	127.0	6.89	Clear	low	—	13.20
↓	1141	4.44	21.1	122.5	6.62	↓	↓	—	14.80
↓	1143	6.66	20.8	113.5	6.42	↓	↓	—	17.50

Sample Information

Sample Depth to Water: 9.67 Sample Turbidity: low

Odor: petroleum hydrocarbons Analysis: 8260 TPHg BTEX Fuel Oxy's
 Sample Vessel/Preservative: 3 VOAS w/HCL

Purging Equipment

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or Disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated

Other: —
 Pump Depth: 15 ft

Sampling Equipment

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated

Other: —

Well Integrity: Good Lock #: —

NOTE: To Convert water column height to total amount of gallons in one well volume, multiply the water column height by A

Well Diameter	A
2"	0.17
4"	0.65
6"	1.47
8"	2.62

Signature: Anthony McShane

**TEC Accutite
Water Sample Field Data Sheet**

Project #: 1435 Webster Purged By: A.M. Well I.D.: MW-2
 Client Name: Olympian Sampled By: ↓ Sample I.D.: MW-2
 Location: Alameda QA Samples: —

Date Purged 10/5/06 Start (2400hr) 1047 End (2400hr) 1056
 Date Sampled ↓ Sample Time (2400hr) 1315
 Sample Type: Groundwater Other: —

Casing Diameter 2" 3" 4" 5" 6" 8" Other

Depth to Bottom (feet) = 19.11 Depth to Water (feet) = 10.05
 DTB-DTW = 9.06 Purge (gal) = 1.54 x 3 (volumes) = 4.62 gal

Field Measurements

Date (mm/dd/yy)	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
10/5/06	1049	1.54	21.3	130.5	6.13	Clear	low	—	11.15
↓	1053	3.08	20.7	141.2	6.48	Clear	low	—	11.50
↓	1056	4.62	20.5	141.3	6.61	↓	↓	—	11.65

Sample Information

Sample Depth to Water: 10.05 Sample Turbidity: low

Odor: None Analysis: 8260 TPHg BTEX Fuel Oxys
 Sample Vessel/Preservative: 3 VOLS w/ HCL

Purging Equipment

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or Disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated

Other: —
 Pump Depth: —

Sampling Equipment

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated

Other: —

Well Integrity: Good Lock #: —

NOTE: To Convert water column height to total amount of gallons in one well volume, multiply the water column height by A

Well Diameter	A
2"	0.17
4"	0.65
6"	1.47
8"	2.62

Signature: Anthony McInnes

**TEC Accutite
Water Sample Field Data Sheet**

Project #: 1435 Webster Purged By: A.M. Well I.D.: MW-3
 Client Name: Olympian Sampled By: ↓ Sample I.D.: MW-3
 Location: Alameda QA Samples: —

Date Purged 10/5/06 Start (2400hr) 1007 End (2400hr) 1013
 Date Sampled ↓ Sample Time (2400hr) 1255
 Sample Type: Groundwater Other: —

Casing Diameter 2" 3" — 4" — 5" — 6" — 8" — Other —

Depth to Bottom (feet) = 21.91 Depth to Water (feet) = 10.02
 DTB-DTW = 11.89 Purge (gal) = 2.02 x 3 (volumes) = 6.06 gal

Field Measurements

Date (mm/dd/yy)	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
10/5/06	1009	2.02	21.1	112.1	6.42	Clear	low	—	11.70
↓	1011	4.04	21.1	107.8	6.39	↓	↓	—	12.40
↓	1013	6.06	20.7	103.1	6.25	↓	↓	—	12.60

Sample Information

Sample Depth to Water: 10.02 Sample Turbidity: low

Odor: None Analysis: 8260 TPHg BTEX Fuel Oxy's
 Sample Vessel/Preservative: 3 VOAS w/ HCL

Purging Equipment

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or Disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated —

Other: —

Pump Depth: 16 ft

Sampling Equipment

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated —

Other: —

Well Integrity: Good Lock #: —

NOTE: To Convert water column height to total amount of gallons in one well volume, multiply the water column height by A

Well Diameter	A
2"	0.17
4"	0.65
6"	1.47
8"	2.62

Signature: Anthony McLaughlin

Page 1 of 1

**TEC Accutite
Water Sample Field Data Sheet**

Project #: 1435 Webster Purged By: A.M. Well I.D.: MW-4
 Client Name: OLYMPIAN Sampled By: ↓ Sample I.D.: MW-4
 Location: Alameda QA Samples: —

Date Purged 10/5/06 Start (2400hr) 0933 End (2400hr) 0943
 Date Sampled ↓ Sample Time (2400hr) 1245
 Sample Type: Groundwater Other: —

Casing Diameter 2" 3" — 4" — 5" — 6" — 8" — Other —

Depth to Bottom (feet) = 17.55 Depth to Water (feet) = 9.65
 DTB-DTW = 7.90 Purge (gal) = 1.34 x 3 (volumes) = 4.02 gal

Field Measurements

Date (mm/dd/yy)	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
<u>10/5/06</u>	<u>0936</u>	<u>1.34</u>	<u>20.0</u>	<u>127.5</u>	<u>7.10</u>	<u>Clear</u>	<u>low</u>	<u>—</u>	<u>14.03</u>
<u>↓</u>	<u>0939</u>	<u>2.68</u>	<u>19.9</u>	<u>105.0</u>	<u>6.87</u>	<u>13m/light</u>	<u>mod</u>	<u>—</u>	<u>16.35</u>
<u>↓</u>	<u>0943</u>	<u>4.02</u>	<u>19.9</u>	<u>98.2</u>	<u>6.63</u>	<u>↓</u>	<u>↓</u>	<u>—</u>	<u>17.70</u>

Sample Information

Sample Depth to Water: 9.65 Sample Turbidity: low

Odor: None Analysis: 8260 TPHg BTEX Fuel Oxys
 Sample Vessel/Preservative: 3 VOAS w/ HCL

Purging Equipment

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or Disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated

Other: —
 Pump Depth: —

Sampling Equipment

Bladder Pump Bailer (Teflon)
 Centrifugal Pump Bailer (PVC or Disposable)
 Submersible Pump Bailer (Stainless Steel)
 Peristaltic Pump Dedicated

Other: —

Well Integrity: Good Lock #: —

NOTE: To Convert water column height to total amount of gallons in one well volume, multiply the water column height by A

Well Diameter	A
2"	0.17
4"	0.65
6"	1.47
8"	2.62

Signature: Anthony Mc... Page 1 of 1

**TEC Accutite
Water Sample Field Data Sheet**

Project #: 1435 Webster Purged By: A.M. Well I.D.: MW-5
 Client Name: Olympian Sampled By: ↓ Sample I.D.: MW-5
 Location: Alameda QA Samples: —

Date Purged 10/5/06 Start (2400hr) 1128 End (2400hr) 1126
 Date Sampled ↓ Sample Time (2400hr) 1322
 Sample Type: Groundwater Other: _____

Casing Diameter 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____

Depth to Bottom (feet) = 18.36 Depth to Water (feet) = 8.89
 DTB-DTW = 9.47 Purge (gal) = 1.60 x 3 (volumes) = 4.82 gal

Field Measurements

Date (mm/dd/yy)	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
<u>10/5/06</u>	<u>1123</u>	<u>1.60</u>	<u>21.1</u>	<u>141.7</u>	<u>6.85</u>	<u>Clear</u>	<u>low</u>	<u>—</u>	<u>16.15</u>
<u>↓</u>	<u>1126</u>	<u>3.20</u>	<u>20.7</u>	<u>142.4</u>	<u>6.74</u>	<u>Bgn</u>	<u>High</u>	<u>—</u>	<u>18.60</u>
<u>↓</u>	<u>1126</u>	<u>~3.25</u>	<u>well</u>	<u>went</u>		<u>Dry</u>			

Sample Information

Sample Depth to Water: 8.89 Sample Turbidity: low

Odor: Slight odor Analysis: 8260 TPHg BTEX Fuel Oxys
 Sample Vessel/Preservative: 3 VOAS w/HCL

Purging Equipment

___ Bladder Pump ___ Bailer (Teflon)
 ___ Centrifugal Pump Bailer (PVC or Disposable)
 ___ Submersible Pump ___ Bailer (Stainless Steel)
 ___ Peristaltic Pump ___ Dedicated _____

Other: _____
 Pump Depth: _____

Sampling Equipment

___ Bladder Pump ___ Bailer (Teflon)
 ___ Centrifugal Pump Bailer (PVC or Disposable)
 ___ Submersible Pump ___ Bailer (Stainless Steel)
 ___ Peristaltic Pump ___ Dedicated _____

Other: _____

Well Integrity: Good Lock #: _____

NOTE: To Convert water column height to total amount of gallons in one well volume, multiply the water column height by A

Well Diameter	A
2"	0.17
4"	0.65
6"	1.47
8"	2.62

Signature: Anthony Madryga

**TEC Accutite
Water Sample Field Data Sheet**

Project #: 1435 Webster Purged By: A.M. Well I.D.: MW-6
 Client Name: Olympian Sampled By: ↓ Sample I.D.: MW-6
 Location: Alameda QA Samples: MS/MSD

Date Purged 10/5/06 Start (2400hr) 1027 End (2400hr) 1036
 Date Sampled ↓ Sample Time (2400hr) 1305
 Sample Type: Groundwater Other: _____

Casing Diameter 2" 3" _____ 4" _____ 5" _____ 6" _____ 8" _____ Other _____

Depth to Bottom (feet) = 19.39 Depth to Water (feet) = 10.29
 DTB-DTW = 9.1 Purge (gal) = 1.54 x 3 (volumes) = 4.64 gal

Field Measurements

Date (mm/dd/yy)	Time (2400hr)	Volume (gal)	Temp. (degrees C)	Conductivity (µmhos/cm)	pH (units)	Color (visual)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)
<u>10/5/06</u>	<u>1030</u>	<u>1.54</u>	<u>21.1</u>	<u>129.4</u>	<u>6.06</u>	<u>Brn</u>	<u>Mod</u>	<u>—</u>	<u>11.30</u>
<u>↓</u>	<u>1033</u>	<u>3.08</u>	<u>21.4</u>	<u>130.7</u>	<u>5.97</u>	<u>light Brn</u>	<u>Mod</u>	<u>—</u>	<u>11.65</u>
<u>↓</u>	<u>1036</u>	<u>4.64</u>	<u>21.4</u>	<u>128.8</u>	<u>5.91</u>	<u>↓</u>	<u>↓</u>	<u>—</u>	<u>11.75</u>

Sample Information

Sample Depth to Water: 10.29 Sample Turbidity: low

Odor: None Analysis: 8260 TPHg BTEX Fuel Oxy's
 Sample Vessel/Preservative: 9 VOAS w/HCL

Purging Equipment

___ Bladder Pump ___ Bailer (Teflon)
 ___ Centrifugal Pump Bailer (PVC or Disposable)
 ___ Submersible Pump ___ Bailer (Stainless Steel)
 ___ Peristaltic Pump ___ Dedicated _____

Other: _____
 Pump Depth: _____

Sampling Equipment

___ Bladder Pump ___ Bailer (Teflon)
 ___ Centrifugal Pump Bailer (PVC or Disposable)
 ___ Submersible Pump ___ Bailer (Stainless Steel)
 ___ Peristaltic Pump ___ Dedicated _____

Other: _____

Well Integrity: Good Lock #: _____

NOTE: To Convert water column height to total amount of gallons in one well volume, multiply the water column height by A

Well Diameter	A
2"	0.17
4"	0.65
6"	1.47
8"	2.62

Signature: Anthony McElroy

ATTACHMENT B

LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION





TORRENT LABORATORY, INC.

483 Sinclair Frontage Rd. • Milpitas, CA 95035 • Ph: (408) 263-5258 • Fax: (408) 263-8293

www.torrentlab.com

October 13, 2006

NATE SMITH
TEC Accutite
262 Michelle Ct
South San Francisco, CA 94080

TEL: (650) 616-1200

FAX 650-616-1244

RE: 1435 Webster Ave

Order No.: 0610039

Dear NATE SMITH:

Torrent Laboratory, Inc. received 6 samples on 10/6/2006 for the analyses presented in the following report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these tests results, please feel free to contact the Project Management Team at (408)263-5258;ext: 204.

Sincerely,


Laboratory Director

10/13/06
Date

Patti Sandrock 
QA Officer



TORRENT LABORATORY, INC.

483 Sinclair Frontage Road • Milpitas, CA • Phone: (408) 263-5258 • Fax: (408) 263-8293

Visit us at www.torrentlab.com email: analysis@torrentlab.com

Report prepared for: NATE SMITH
TEC Accutite

Date Received: 10/6/2006
Date Reported: 10/13/2006

Client Sample ID: MW-1
Sample Location: 1435 Webster Ave
Sample Matrix: GROUNDWATER
Date/Time Sampled 10/5/2006 1:30:00 PM

Lab Sample ID: 0610039-001
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Gasoline)	GC-MS	10/12/2006	50	42	2100	23000	µg/L	R10890
Surr: Toluene-d8	GC-MS	10/12/2006	0	42	65-135	91.6	%REC	R10890
1,2-Dibromoethane (EDB)	SW8260B	10/12/2006	0.5	8.4	4.20	ND	µg/L	R10890
1,2-Dichloroethane (EDC)	SW8260B	10/12/2006	0.5	8.4	4.20	219	µg/L	R10890
Benzene	SW8260B	10/13/2006	0.5	84	42.0	3740	µg/L	R10890
Ethanol	SW8260B	10/12/2006	100	8.4	840	ND	µg/L	R10890
Ethyl tert-butyl ether (ETBE)	SW8260B	10/12/2006	0.5	8.4	4.20	ND	µg/L	R10890
Ethylbenzene	SW8260B	10/12/2006	0.5	8.4	4.20	395	µg/L	R10890
Isopropyl ether (DIPE)	SW8260B	10/12/2006	0.5	8.4	4.20	13.5	µg/L	R10890
Methyl tert-butyl ether (MTBE)	SW8260B	10/13/2006	0.5	84	42.0	6020	µg/L	R10890
t-Butyl alcohol (t-Butanol)	SW8260B	10/12/2006	10	8.4	84.0	546	µg/L	R10890
tert-Amyl methyl ether (TAME)	SW8260B	10/12/2006	0.5	8.4	4.20	ND	µg/L	R10890
Toluene	SW8260B	10/12/2006	0.5	8.4	4.20	112	µg/L	R10890
Xylenes, Total	SW8260B	10/12/2006	1.5	8.4	12.6	161	µg/L	R10890
Surr: Dibromofluoromethane	SW8260B	10/13/2006	0	84	61.2-131	93.8	%REC	R10890
Surr: Dibromofluoromethane	SW8260B	10/12/2006	0	8.4	61.2-131	94.5	%REC	R10890
Surr: 4-Bromofluorobenzene	SW8260B	10/13/2006	0	84	64.1-125	90.3	%REC	R10890
Surr: 4-Bromofluorobenzene	SW8260B	10/12/2006	0	8.4	64.1-125	88.9	%REC	R10890
Surr: Toluene-d8	SW8260B	10/13/2006	0	84	75.1-127	93.9	%REC	R10890
Surr: Toluene-d8	SW8260B	10/12/2006	0	8.4	75.1-127	91.8	%REC	R10890

Report prepared for: NATE SMITH
TEC Accutite

Date Received: 10/6/2006
Date Reported: 10/13/2006

Client Sample ID: MW-2
Sample Location: 1435 Webster Ave
Sample Matrix: GROUNDWATER
Date/Time Sampled 10/5/2006 1:15:00 PM

Lab Sample ID: 0610039-002
Date Prepared: 10/12/2006

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Gasoline)	GC-MS	10/12/2006	50	1	50	ND	µg/L	R10890
Surr: Toluene-d8	GC-MS	10/12/2006	0	1	65-135	91.6	%REC	R10890
1,2-Dibromoethane (EDB)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
1,2-Dichloroethane (EDC)	SW8260B	10/12/2006	0.5	1	0.500	0.750	µg/L	R10890
Benzene	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Ethanol	SW8260B	10/12/2006	100	1	100	ND	µg/L	R10890
Ethyl tert-butyl ether (ETBE)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Ethylbenzene	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Isopropyl ether (DIPE)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Methyl tert-butyl ether (MTBE)	SW8260B	10/12/2006	0.5	1	0.500	11.9	µg/L	R10890
t-Butyl alcohol (t-Butanol)	SW8260B	10/12/2006	10	1	10.0	ND	µg/L	R10890
tert-Amyl methyl ether (TAME)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Toluene	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Xylenes, Total	SW8260B	10/12/2006	1.5	1	1.50	ND	µg/L	R10890
Surr: Dibromofluoromethane	SW8260B	10/12/2006	0	1	61.2-131	94.8	%REC	R10890
Surr: 4-Bromofluorobenzene	SW8260B	10/12/2006	0	1	64.1-125	90.1	%REC	R10890
Surr: Toluene-d8	SW8260B	10/12/2006	0	1	75.1-127	91.3	%REC	R10890

Report prepared for: NATE SMITH
TEC Accutite

Date Received: 10/6/2006
Date Reported: 10/13/2006

Client Sample ID: MW-3
Sample Location: 1435 Webster Ave
Sample Matrix: GROUNDWATER
Date/Time Sampled 10/5/2006 12:55:00 PM

Lab Sample ID: 0610039-003
Date Prepared: 10/12/2006

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Gasoline)	GC-MS	10/12/2006	50	1	50	ND	µg/L	R10890
Surr: Toluene-d8	GC-MS	10/12/2006	0	1	65-135	92.4	%REC	R10890
1,2-Dibromoethane (EDB)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
1,2-Dichloroethane (EDC)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Benzene	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Ethanol	SW8260B	10/12/2006	100	1	100	ND	µg/L	R10890
Ethyl tert-butyl ether (ETBE)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Ethylbenzene	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Isopropyl ether (DIPE)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Methyl tert-butyl ether (MTBE)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
t-Butyl alcohol (t-Butanol)	SW8260B	10/12/2006	10	1	10.0	ND	µg/L	R10890
tert-Amyl methyl ether (TAME)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Toluene	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Xylenes, Total	SW8260B	10/12/2006	1.5	1	1.50	ND	µg/L	R10890
Surr: Dibromofluoromethane	SW8260B	10/12/2006	0	1	61.2-131	95.5	%REC	R10890
Surr: 4-Bromofluorobenzene	SW8260B	10/12/2006	0	1	64.1-125	89.9	%REC	R10890
Surr: Toluene-d8	SW8260B	10/12/2006	0	1	75.1-127	92.1	%REC	R10890

Report prepared for: NATE SMITH
TEC Accutite

Date Received: 10/6/2006
Date Reported: 10/13/2006

Client Sample ID: MW-4
Sample Location: 1435 Webster Ave
Sample Matrix: GROUNDWATER
Date/Time Sampled 10/5/2006 12:45:00 PM

Lab Sample ID: 0610039-004
Date Prepared: 10/12/2006

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Gasoline)	GC-MS	10/12/2006	50	1	50	ND	µg/L	R10890
Surr: Toluene-d8	GC-MS	10/12/2006	0	1	65-135	88.2	%REC	R10890
1,2-Dibromoethane (EDB)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
1,2-Dichloroethane (EDC)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Benzene	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Ethanol	SW8260B	10/12/2006	100	1	100	ND	µg/L	R10890
Ethyl tert-butyl ether (ETBE)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Ethylbenzene	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Isopropyl ether (DIPE)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Methyl tert-butyl ether (MTBE)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
t-Butyl alcohol (t-Butanol)	SW8260B	10/12/2006	10	1	10.0	ND	µg/L	R10890
tert-Amyl methyl ether (TAME)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Toluene	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Xylenes, Total	SW8260B	10/12/2006	1.5	1	1.50	ND	µg/L	R10890
Surr: Dibromofluoromethane	SW8260B	10/12/2006	0	1	61.2-131	91.7	%REC	R10890
Surr: 4-Bromofluorobenzene	SW8260B	10/12/2006	0	1	64.1-125	94.0	%REC	R10890
Surr: Toluene-d8	SW8260B	10/12/2006	0	1	75.1-127	92.4	%REC	R10890

Report prepared for: NATE SMITH
TEC Accutite

Date Received: 10/6/2006
Date Reported: 10/13/2006

Client Sample ID: MW-5
Sample Location: 1435 Webster Ave
Sample Matrix: GROUNDWATER
Date/Time Sampled 10/5/2006 1:22:00 PM

Lab Sample ID: 0610039-005
Date Prepared: 10/12/2006

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Gasoline)	GC-MS	10/12/2006	50	1	50	410	µg/L	R10890
Surr: Toluene-d8	GC-MS	10/12/2006	0	1	65-135	77.3	%REC	R10890
1,2-Dibromoethane (EDB)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
1,2-Dichloroethane (EDC)	SW8260B	10/12/2006	0.5	1	0.500	6.65	µg/L	R10890
Benzene	SW8260B	10/13/2006	0.5	4.2	2.10	105	µg/L	R10890
Ethanol	SW8260B	10/12/2006	100	1	100	ND	µg/L	R10890
Ethyl tert-butyl ether (ETBE)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Ethylbenzene	SW8260B	10/12/2006	0.5	1	0.500	9.05	µg/L	R10890
Isopropyl ether (DIPE)	SW8260B	10/12/2006	0.5	1	0.500	0.640	µg/L	R10890
Methyl tert-butyl ether (MTBE)	SW8260B	10/12/2006	0.5	1	0.500	101	µg/L	R10890
t-Butyl alcohol (t-Butanol)	SW8260B	10/12/2006	10	1	10.0	11.3	µg/L	R10890
tert-Amyl methyl ether (TAME)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Toluene	SW8260B	10/12/2006	0.5	1	0.500	1.06	µg/L	R10890
Xylenes, Total	SW8260B	10/12/2006	1.5	1	1.50	2.24	µg/L	R10890
Surr: Dibromofluoromethane	SW8260B	10/12/2006	0	1	61.2-131	90.8	%REC	R10890
Surr: Dibromofluoromethane	SW8260B	10/13/2006	0	4.2	61.2-131	88.2	%REC	R10890
Surr: 4-Bromofluorobenzene	SW8260B	10/12/2006	0	1	64.1-125	90.6	%REC	R10890
Surr: 4-Bromofluorobenzene	SW8260B	10/13/2006	0	4.2	64.1-125	90.0	%REC	R10890
Surr: Toluene-d8	SW8260B	10/13/2006	0	4.2	75.1-127	92.2	%REC	R10890
Surr: Toluene-d8	SW8260B	10/12/2006	0	1	75.1-127	91.9	%REC	R10890

Report prepared for: NATE SMITH
TEC Accutite

Date Received: 10/6/2006
Date Reported: 10/13/2006

Client Sample ID: MW-6
Sample Location: 1435 Webster Ave
Sample Matrix: GROUNDWATER
Date/Time Sampled 10/5/2006 1:05:00 PM

Lab Sample ID: 0610039-006
Date Prepared: 10/12/2006

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
TPH (Gasoline)	GC-MS	10/12/2006	50	1	50	ND	µg/L	R10890
Surr: Toluene-d8	GC-MS	10/12/2006	0	1	65-135	85.7	%REC	R10890
1,2-Dibromoethane (EDB)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
1,2-Dichloroethane (EDC)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Benzene	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Ethanol	SW8260B	10/12/2006	100	1	100	ND	µg/L	R10890
Ethyl tert-butyl ether (ETBE)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Ethylbenzene	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Isopropyl ether (DIPE)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Methyl tert-butyl ether (MTBE)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
t-Butyl alcohol (t-Butanol)	SW8260B	10/12/2006	10	1	10.0	ND	µg/L	R10890
tert-Amyl methyl ether (TAME)	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Toluene	SW8260B	10/12/2006	0.5	1	0.500	ND	µg/L	R10890
Xylenes, Total	SW8260B	10/12/2006	1.5	1	1.50	ND	µg/L	R10890
Surr: Dibromofluoromethane	SW8260B	10/12/2006	0	1	61.2-131	87.6	%REC	R10890
Surr: 4-Bromofluorobenzene	SW8260B	10/12/2006	0	1	64.1-125	92.4	%REC	R10890
Surr: Toluene-d8	SW8260B	10/12/2006	0	1	75.1-127	93.6	%REC	R10890

CLIENT: TEC Accutite
Work Order: 0610039
Project: 1435 Webster Ave

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W_PETROLEUM

Sample ID: MB2	SampType: MBLK	TestCode: 8260B_W_PE	Units: µg/L	Prep Date: 10/12/2006	RunNo: 10890						
Client ID: ZZZZZ	Batch ID: R10890	TestNo: SW8260B		Analysis Date: 10/12/2006	SeqNo: 161779						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane (EDB)	ND	0.500									
1,2-Dichloroethane (EDC)	ND	0.500									
Benzene	ND	0.500									
Ethanol	ND	100									
Ethyl tert-butyl ether (ETBE)	ND	0.500									
Ethylbenzene	ND	0.500									
Methyl tert-butyl ether (MTBE)	ND	0.500									
t-Butyl alcohol (t-Butanol)	ND	10.0									
tert-Amyl methyl ether (TAME)	ND	0.500									
Toluene	ND	0.500									
Xylenes, Total	ND	1.50									
Surr: Dibromofluoromethane	11.37	0	11.9	0	95.5	61.2	131				
Surr: 4-Bromofluorobenzene	8.090	0	11.9	0	68.0	64.1	125				
Surr: Toluene-d8	10.50	0	11.9	0	88.2	75.1	127				

Sample ID: LCS2	SampType: LCS	TestCode: 8260B_W_PE	Units: µg/L	Prep Date: 10/12/2006	RunNo: 10890						
Client ID: ZZZZZ	Batch ID: R10890	TestNo: SW8260B		Analysis Date: 10/12/2006	SeqNo: 161782						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	17.34	0.500	17.86	0	97.1	66.9	140				
Toluene	16.94	0.500	17.86	0	94.8	76.6	123				
Surr: Dibromofluoromethane	10.89	0	11.9	0	91.5	61.2	131				
Surr: 4-Bromofluorobenzene	9.630	0	11.9	0	80.9	64.1	125				
Surr: Toluene-d8	10.61	0	11.9	0	89.2	75.1	127				

Sample ID: LCSD2	SampType: LCSD	TestCode: 8260B_W_PE	Units: µg/L	Prep Date: 10/12/2006	RunNo: 10890						
Client ID: ZZZZZ	Batch ID: R10890	TestNo: SW8260B		Analysis Date: 10/12/2006	SeqNo: 161783						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits Q Spike recovery and RPD control limits do not apply result
 3 Recovery of the MS and/or MSD was out of control due to 4 The MS/MSD RPD was out of control due to matrix inter

CLIENT: TEC Accutite
Work Order: 0610039
Project: 1435 Webster Ave

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W_PETROLEUM

Sample ID: LCSD2	SampType: LCSD	TestCode: 8260B_W_PE	Units: µg/L	Prep Date: 10/12/2006	RunNo: 10890
Client ID: ZZZZZ	Batch ID: R10890	TestNo: SW8260B		Analysis Date: 10/12/2006	SeqNo: 161783

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	17.39	0.500	17.86	0	97.4	66.9	140	17.34	0.288	20	
Toluene	17.59	0.500	17.86	0	98.5	76.6	123	16.94	3.76	20	
Surr: Dibromofluoromethane	10.37	0	11.9	0	87.1	61.2	131	0	0	0	
Surr: 4-Bromofluorobenzene	11.12	0	11.9	0	93.4	64.1	125	0	0	0	
Surr: Toluene-d8	10.95	0	11.9	0	92.0	75.1	127	0	0	0	

Sample ID: 0610039-006A MS	SampType: MS	TestCode: 8260B_W_PE	Units: µg/L	Prep Date: 10/13/2006	RunNo: 10890
Client ID: MW-6	Batch ID: R10890	TestNo: SW8260B		Analysis Date: 10/13/2006	SeqNo: 161792

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	17.01	0.500	17.86	0	95.2	66.9	140				
Toluene	17.01	0.500	17.86	0	95.2	76.6	123				
Surr: Dibromofluoromethane	10.55	0	11.9	0	88.7	61.2	131				
Surr: 4-Bromofluorobenzene	10.94	0	11.9	0	91.9	64.1	125				
Surr: Toluene-d8	11.67	0	11.9	0	98.1	75.1	127				

Sample ID: 0610039-006A MSD	SampType: MSD	TestCode: 8260B_W_PE	Units: µg/L	Prep Date: 10/13/2006	RunNo: 10890
Client ID: MW-6	Batch ID: R10890	TestNo: SW8260B		Analysis Date: 10/13/2006	SeqNo: 161793

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.14	0.500	17.86	0	102	66.9	140	17.01	6.43	20	
Toluene	18.58	0.500	17.86	0	104	76.6	123	17.01	8.82	20	
Surr: Dibromofluoromethane	9.840	0	11.9	0	82.7	61.2	131	0	0	0	
Surr: 4-Bromofluorobenzene	10.68	0	11.9	0	89.7	64.1	125	0	0	0	
Surr: Toluene-d8	11.12	0	11.9	0	93.4	75.1	127	0	0	0	

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits Q Spike recovery and RPD control limits do not apply result
 3 Recovery of the MS and/or MSD was out of control due to 4 The MS/MSD RPD was out of control due to matrix inter

CLIENT: TEC Accutite
Work Order: 0610039
Project: 1435 Webster Ave

ANALYTICAL QC SUMMARY REPORT

TestCode: TPH_GAS_W_GCMS

Sample ID: MB-G	SampType: MBLK	TestCode: TPH_GAS_W	Units: µg/L	Prep Date: 10/12/2006	RunNo: 10890						
Client ID: ZZZZZ	Batch ID: R10890	TestNo: GC-MS		Analysis Date: 10/12/2006	SeqNo: 161767						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline)	ND	50									
Surr: Toluene-d8	12.25	0	11.9	0	103	65	135				

Sample ID: LCS-G	SampType: LCS	TestCode: TPH_GAS_W	Units: µg/L	Prep Date: 10/12/2006	RunNo: 10890						
Client ID: ZZZZZ	Batch ID: R10890	TestNo: GC-MS		Analysis Date: 10/12/2006	SeqNo: 161768						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline)	256.7	50	238	0	108	65	135				
Surr: Toluene-d8	12.00	0	11.9	0	101	65	135				

Sample ID: LCSD-G	SampType: LCSD	TestCode: TPH_GAS_W	Units: µg/L	Prep Date: 10/13/2006	RunNo: 10890						
Client ID: ZZZZZ	Batch ID: R10890	TestNo: GC-MS		Analysis Date: 10/13/2006	SeqNo: 161769						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

TPH (Gasoline)	225.0	50	238	0	94.5	65	135	256.7	13.2	20	
Surr: Toluene-d8	11.40	0	11.9	0	95.8	65	135	0	0	0	

Qualifiers: R RPD outside accepted recovery limits S Spike Recovery outside accepted recovery limits Q Spike recovery and RPD control limits do not apply result
 3 Recovery of the MS and/or MSD was out of control due to 4 The MS/MSD RPD was out of control due to matrix inter



TORRENT LABORATORY, INC.

483 Sinclair Frontage Road, Milpitas, CA 95035
Phone: 408.263.5258 • FAX: 408.263.8293
www.torrentlab.com

CHAIN OF CUSTODY

LAB WORK ORDER NO

0610039

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

Company Name: <u>TEC Accutite</u>			Location of Sampling: <u>1435 Webster Ave</u>		
Address: <u>262 Michelle Ct</u>			Purpose: <u>4th Q.G.W. Sampling</u>		
City: <u>S. San Francisco</u>	State: <u>CA</u>	Zip Code: <u>94080</u>	Special Instructions / Comments: <u>Please send pdf of edf & edcc</u>		
Telephone: <u>650 616 1204</u> FAX: <u>650 616 1244</u>			<u>Global I.D. = T060010076 ; Run to ESL'S</u>		
REPORT TO: <u>Nate Smith</u>		SAMPLER: <u>A.M.</u>	P.O. #: <u>12157</u>	EMAIL: <u>NSmith@tecaccutite.com</u>	

TURNAROUND TIME:

- 10 Working Days 3 Working Days 2 - 8 Hours
 7 Working Days 2 Working Days Other
 5 Working Days 24 Hours

SAMPLE TYPE:

- Storm Water Other
 Waste Water
 Ground Water
 Soil

REPORT FORMAT:

- QC Level II
 EDF
 Excel / EDD

ANALYSIS REQUESTED

8060 TPHs BTEX Fuel Oxygenates

CLIENT'S SAMPLE I.D.	DATE/TIME SAMPLED	SAMPLE TYPE	# OF CONT	CONT TYPE	ANALYSIS REQUESTED							TORRENT'S SAMPLE I.D.		
1. MW-1	10/5/06 1330	W	3	VOA w/ HCL	X									001A
2. MW-2	1315	W	3		X									002A
3. MW-3	1255	W	3		X									003A
4. MW-4	1245	W	3		X									004A
5. MW-5	1322	W	3		X									005A
6. MW-6	↓ 1305	W	9	↓	X							*MS/MSD*		006A
7.														
8.														
9.														
10.														

1 Relinquished By: <u>Anthony McIntyre</u>	Print: <u>Anthony McIntyre</u>	Date: <u>10/6/06</u>	Time: <u>2:06 PM</u>	Received By: <u>[Signature]</u>	Print: <u>[Signature]</u>	Date: <u>10/6/06</u>	Time: <u>16:45</u>
2 Relinquished By: <u>Jennifer Powell</u>	Print: <u>Jennifer Powell</u>	Date: <u>10/6/06</u>	Time: <u>2:06</u>	Received By: <u>[Signature]</u>	Print: <u>[Signature]</u>	Date: <u>10/6/06</u>	Time: <u>16:45</u>

Were Samples Received in Good Condition? Yes NO Samples on Ice? Yes NO Method of Shipment HS Sample seals intact? Yes NO

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.

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Log In By: Nate Date: 10/6 Log In Reviewed By: _____ Date: _____

ATTACHMENT C
GEOTRACKER SUBMISSION CONFIRMATION



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Confirmation Number: 8097066581
Date/Time of Submittal: 11/21/2006 4:24:08 PM
Facility Global ID: T0600100766
Facility Name: OLYMPIAN #112
Submittal Title: Fourth Quarter 2006 Groundwater Monitoring Lab Results
Submittal Type: GW Monitoring Report

Click [here](#) to view the detections report for this upload.

OLYMPIAN #112 1435 WEBSTER ALAMEDA, CA 94501	Regional Board - Case #: 01-0832 SAN FRANCISCO BAY RWQCB (REGION 2) Local Agency (lead agency) - Case #: RO0000193 ALAMEDA COUNTY LOP - (SP)
---	---

CONF #	TITLE	QUARTER
8097066581	Fourth Quarter 2006 Groundwater Monitoring Lab Results	Q4 2006
SUBMITTED BY	SUBMIT DATE	STATUS
Nicholas Haddad	11/21/2006	PENDING REVIEW

<u>SAMPLE DETECTIONS REPORT</u>	
# FIELD POINTS SAMPLED	6
# FIELD POINTS WITH DETECTIONS	3
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	2
SAMPLE MATRIX TYPES	GROUNDWATER
<u>METHOD QA/QC REPORT</u>	
METHODS USED	8260TPH,SW8260B
TESTED FOR REQUIRED ANALYTES?	Y
LAB NOTE DATA QUALIFIERS	N
<u>QA/QC FOR 8021/8260 SERIES SAMPLES</u>	
TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	N
- MATRIX SPIKE DUPLICATE	N
- BLANK SPIKE	N
- SURROGATE SPIKE	Y
<u>WATER SAMPLES FOR 8021/8260 SERIES</u>	
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	Y
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS > REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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Title: Fourth Quarter 2006 Groundwater Monitoring Report
Document Type: Monitoring Report - Quarterly
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