

#### TEC Environmental

a division of Technology, Engineering, & Construction, Inc.

262 Michelle Court Tel: (650) 616-1200 So. San Francisco, CA 94080-6201
• Fax: (650) 616-1244

www.tecenvironmental.com Contractor's Lic. #762034

September 6, 2013

## RECEIVED

By Alameda County Environmental Health at 4:34 pm, Sep 09, 2013

Ms. Karel Detterman, P.G. Alameda County Health Agency Division of Environmental Protection 1131 Harbor Bay Parkway, 2nd Floor Alameda, CA 94502

SUBJECT:

**PERJURY STATEMENT** 

SITE:

FORMER OLYMPIAN SERVICE STATION

1435 WEBSTER STREET ALAMEDA, CALIFORNIA 94501

FLC # RO0000193

Dear Ms. Detterman:

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

Thank you for your cooperation and assistance on this project. If you have any questions, feel free to contact me at (650) 596-8950.

Fred Bertetta

Sincerely

Responsible Party





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Ms. Karel Detterman, P.G. Alameda County Health Agency Division of Environmental Protection 1131 Harbor Bay Parkway, 2nd Floor Alameda, CA 94502

SUBJECT: THIRD QUARTER 2013 GROUNDWATER MONITORING REPORT

SITE: FORMER OLYMPIAN SERVICE STATION

1435 WEBSTER STREET ALAMEDA, CALIFORNIA 94501 FLC # RO0000193

Dear Ms. Detterman:

On behalf of Olympian JV, Technology, Engineering & Construction, Inc. is pleased to submit this third quarter 2013 groundwater monitoring report for the above-referenced site.

Thank you for your cooperation and assistance on this project. If you have any questions or concerns, please contact the undersigned at (650) 616-1214.

Sincerely, Technology, Engineering & Construction, Inc.

Paul Dotson Project Manager

cc: Mr. Fred Bertetta c/o Ms. Janet Heikel, Olympian, 1300 Industrial Road, Suite 2, San Carlos, California 94070

Mr. Jeff Farrar, via email Mr. Ed Firestone, via email

Mr. and Mrs. Charles A. & Ose M. Begley, 2592 Pine View Dr., Fortuna, California 95540

# THIRD QUARTER 2013 GROUNDWATER MONITORING REPORT

### FORMER OLYMPIAN SERVICE STATION 1435 WEBSTER STREET ALAMEDA, CALIFORNIA 94501

FLC #: RO0000193

PREPARED FOR:

OLYMPIAN JV
AND
ALAMEDA COUNTY HEALTH AGENCY

PREPARED BY:

TECHNOLOGY, ENGINEERING & CONSTRUCTION, INC.
PROJECT #: E-589

SAMPLING DATE:

**JULY 11, 2013** 

**REPORT DATE:** 

**SEPTEMBER 6, 2013** 



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- FIELD DATA SHEETS
- В LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION
- С GEOTRACKER SUBMISSION CONFIRMATIONS



#### 1.0 INTRODUCTION

On behalf of Olympian JV, Technology, Engineering & Construction, Inc. (TEC) conducted the third quarter 2013 semi-annual groundwater monitoring event at the former Olympian Service Station located at 1435 Webster Street, Alameda, California. The site is the location of a subsurface release of petroleum hydrocarbons related to the former gasoline underground storage tanks (USTs) that were removed in 1989.

This report includes the site environmental background and results of the recent groundwater monitoring event. All site groundwater monitoring wells were gauged and sampled in compliance with California Regional Water Quality Control Board Resolution 2009-42 and Alameda County Health Agency (ACHA) directives. A vicinity map and site map are provided as Figures 1 and 2, respectively.

#### 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 USTs, one 7,500-gallon diesel UST, one 500-gallon waste oil UST and two dispenser islands (Figure 2).

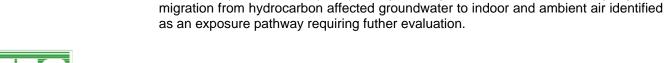
The surrounding topography is flat and the site is approximately 20 feet above mean sea level. The site is situated in a mixed commercial and residential area and is currently used as a parking lot, however the site owner wishes to redevelop the property as mixed commercial (ground floor) / residential.

#### 3.0 ENVIRONMENTAL BACKGROUND

A historical timeline of relevant activities at the subject site is presented in Section 3.1; a summary of the current site condition, including the monitoring well network and general chemical of concern (COC) distribution, is presented in Section 3.2.

#### 3.1 Site Timeline

October 1988	Soil gas analysis performed onsite identified significant concentrations of total hydrocarbons as propane in soil gas.
September 1989	Two 10,000-gallon gasoline USTs, one 7,500-gallon diesel UST and one 500-gallon waste oil UST removed by TEC Accutite; petroleum hydrocarbons detected in soil beneath former tank location.
January 1991	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	Three monitoring wells installed onsite (MW-1 through MW-3); no petroleum hydrocarbons detected in soil.
February 1999	Four soil borings advanced on- and offsite (B-1 through B-4); petroleum hydrocarbon concentrations detected in soil and groundwater.
December 1999	Three monitoring wells, installed onsite (MW-4 through MW-6); petroleum



Site conceptual model (SCM) completed; potential for benzene vapor-phase

hydrocarbons detected in soil.



November 2000

June 2001 Four soil borings advanced (B-1 through B-4 [second set of B-1 through B-4]);

petroleum hydrocarbons were not detected in soil; petroleum hydrocarbons detected

in groundwater.

February 2002 Site-specific risk assessment performed; compounds of concern identified as TPHg

and benzene.

May 2003 Eight soil vapor probes advanced onsite (SV-1 through SV-7); petroleum

hydrocarbons detected below their respective Environmental Screening Levels

(ESLs).

September 2005 SCM updated; uncertainties identified in onsite benzene vapor concentrations and

offsite groundwater conditions.

June 2006 Eight soil borings advanced (SP-1 through SP-8); petroleum hydrocarbons detected

in soil above constituent ESLs.

November 2006 Seventeen soil borings advanced (CB-1 through CB-17) to determine excavation

limits; petroleum hydrocarbons detected at concentrations below ESLs and/or

laboratory detection limits at depths shallower than 8 feet bsg.

December 2006 Five soil borings advanced (DB-1 through DB-5); onsite soils classified as Class II

waste; monitoring wells MW-1 and MW-5 abandoned by pressure grouting.

February 2007 Interim remedial action conducted; 992.54 tons of soil excavated from site; 15,000

gallons of groundwater pumped from open excavation pit, sediment removed and

carbon-filtered, and discharged to sewer under permit.

**March 2007** Two monitoring wells installed onsite (MW-7 and MW-8).

July 2007 Thirteen off-site soil borings advanced (B-6 through B-18); off-site plume defined in

all directions except crossgradient to the northeast.

July 2007 Thirteen off-site soil borings advanced (B-6 through B-18); off-site plume defined in

all directions except crossgradient to the northeast.

July 2009 Six off-site soil borings advanced (B-19 through B-24); off-site plume fully defined.

One groundwater monitoring well (MW-9) installed in the public right-of-way on Webster Street. Five permanent nested vapor monitoring points installed onsite; no

petroleum hydrocarbons detected in onsite soil vapor.

February 2010 Updated Site Conceptual Model, Health Risk Assessment, Feasibility Study and

Corrective Action Plan submitted to the Alameda County Health Agency. Hydrogen

peroxide injection identified as the most effective remedial alternative.

**March 2011** Corrective Action Plan Addendum submitted to the Alameda County Health Agency.

April 2011 Baseline sampling for chromium, hexavalent chromium and other metals completed

onsite. Total chromium was detected in wells MW-3, MW-4, MW-6 and MW-7. Chromium was detected at low levels in the hexavalent (oxidized) state in wells MW-

3 and MW-4.

September –

December 2011 Injection Pilot Test completed. 1,078 gallons of 7% hydrogen peroxide solution

injected at three target remediation areas onsite.



#### 3.2 Site Condition

The site currently has seven groundwater monitoring wells (MW-2 through MW-4 and MW-6 through MW-9) and five dual-completed vapor monitoring points (VMP-1 through VMP-5). Locations of site monitoring wells are presented in Figure 2. Groundwater monitoring well construction details and activity schedule are presented in Table 1. Chemicals of concern (COCs) for the site include petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX compounds), and methyl tert-butyl ether (MTBE). The source of the contamination was the former USTs, which were removed in 1989. TEC continues to monitor all active groundwater monitoring wells associated with the site on a semi-annual basis.

#### 4.0 GROUNDWATER MONITORING

TEC conducted the third quarter monitoring event on July 11, 2013; wells were resampled on August 20, 2013 for dissolved metals analysis. Field data sheets from this groundwater sampling event are presented as Attachment A.

#### 4.1 Monitoring and Sampling Procedures

Upon arrival to the site, a TEC technician uncapped all active site groundwater monitoring wells (MW-2 through MW-4 and MW-6 through MW-9) and allowed the water level in each well to fully equilibrate prior to measuring the depth to water. Wells were gauged to the nearest 0.01 foot using an electric water level meter and recorded on the well sampling logs.

Following well gauging on July 11, 2013, a minimum of three casing-water volumes of groundwater were purged from wells MW-2, MW-3, MW-6, MW-7 and MW-9 with new dedicated disposable plastic bailers; wells MW-4 and MW-8 went dry after purging 1.5 and 2.3 casing-water volumes, respectively. After water levels in each well recovered to a minimum of 80% of the pre-purge level, groundwater samples were collected with the dedicated bailers and transferred into laboratory-supplied, HCl-preserved volatile organic analysis vials (VOAs) and preserved 250-mL poly bottles. The samples were labeled, stored in an insulated container with ice, and delivered to *Torrent Laboratory, Inc.* (Torrent), a California Department of Health Services certified laboratory, under chain-of-custody documentation for analysis.

Groundwater samples collected on July 11 were analyzed for TPHg, BTEX compounds, and fuel oxygenates by EPA Method 8260B. Samples collected on August 20 were analyzed for dissolved metals, including As, Cr, Fe and Se by EPA Method 6020, hexavalent Cr (Cr[VI]) by SW7199 and ferrous Fe (Fe[II]) by method H8146. Samples collected on July 11 were inadvertently analyzed for total metals, including As, Cr, Fe and Se by EPA Method 6010B. The laboratory analytical reports and chain-of-custody documentation are presented in Attachment B.

#### 4.2 Electronic Laboratory Data Submittal

The laboratory report was converted into EDF format and uploaded to GeoTracker, California's online geospatial database. Depths to groundwater were uploaded to GeoTracker as a GEO\_WELL file. This report was converted into PDF format and uploaded to GeoTracker as a GEO\_REPORT file and to the Alameda County FTP site. Attachment C contains the GeoTracker submission confirmations.

#### 4.3 Results

#### 4.3.1 Groundwater Elevation and Flow Direction

The calculated groundwater gradient based on groundwater elevations was toward the southwest at 0.005 feet/foot (ft/ft) during the July 2013 monitoring event. Groundwater elevations are presented in Table 2 and Figure 3.



#### 4.3.2 Petroleum Hydrocarbons in Groundwater

The highest concentrations of petroleum hydrocarbons in groundwater were detected in the sample from well MW-8 (1,300 micrograms per liter [ $\mu$ g/l] TPHg, 260  $\mu$ g/L benzene, 6.4  $\mu$ g/L toluene, 89  $\mu$ g/L ethylbenzene, 33  $\mu$ g/L xylenes, 80  $\mu$ g/L MTBE, 3,200  $\mu$ g/L TBA, and 10  $\mu$ g/L DIPE). In all other samples, site chemicals of concern were not detected above the laboratory reporting limits with the following exceptions:

- MW-2: 25 μg/L MTBE;
- MW-4: 90 μg/L TPHg and 59 μg/L MTBE; and
- MW-7: 2.1 μg/L MTBE.

Dissolved metals, including Fe, Fe(II), Cr, Cr(VI) and/or As, were detected at relatively low concentrations (below respective Environmental Screening Levels) in all wells. The highest concentrations of CrVI were detected in wells MW-3 (1.7  $\mu$ g/I) and MW-4 (1.4  $\mu$ g/I). Dissolved Fe in well MW-2 was anomalously high (2,000  $\mu$ g/I).

Groundwater analytical results are summarized in Tables 3 (petroleum hydrocarbons) and 4 (dissolved metals) and Figure 4.

#### 5.0 CONCLUSIONS AND RECOMMENDATIONS

- For this groundwater monitoring event, average groundwater flow was toward the southwest at approximately 0.005 ft/ft, within historical precedent for seasonal change in groundwater elevation and gradient. Based on a review of historical groundwater gradient direction, flow has primarily been toward the southwest (50%) and southeast (33%). Groundwater flow has also been towards the east (13%) and west (one event).
- Well MW-8 contained the highest concentration of petroleum hydrocarbons, and site contamination appears to be localized to that vicinity. The concentration of MTBE in well MW-8 has shown a general decreasing trend since its installation in 2007 (Chart 1). MTBE concentrations in downgradient well MW-4 have remained relatively stable prior to the pilot test, where they increased to levels which remain below site-specific treatment levels. During the current quarter TBA, MTBE's degradation product, was elevated in the sample from well MW-8 and near the historical high detected in the sample collected in September 2012. The decrease in MTBE in well MW-8 is influenced more by degradation to TBA than to down-gradient migration.
- Dissolved metals were detected at concentrations similar to pre-hydrogen peroxide injection levels and all detected concentrations were below the most conservative ESLs. The hydrogen peroxide injection did not have a lasting effect on dissolved metals. Dissolved Fe in well MW-2 was anomalously high (approximately 40x concentrations previously detected); Fe (II) was detected at levels similar to historical data in the same sample. An ESL for dissolved Fe is not available.
- Dissolved chromium in the hexavalent (oxidized) state was detected in wells MW-3 and MW-4 at concentrations of 1.7 ug/L and 1.4 ug/L, respectively, below the most stringent environmental screening level (11 ug/L). Wells MW-3 and MW-4 are not located in the area targeted during the October 2011 injection event.
- Pending further site corrective action or closure, and in accordance with State Water Resources
  Control Board Resolution 2009-042, TEC recommends that all site monitoring wells be sampled
  semi-annually; the next monitoring event is scheduled to occur during the first guarter 2014.



#### 6.0 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. Technology, Engineering & Construction Inc.'s liability is limited to the dollar amount of the work performed.

Thank you for your cooperation and assistance with this project. If you have any questions or concerns, please contact the undersigned at (650) 616-1200.

No. 8237

Sincerely,

Technology, Engineering & Construction, Inc.

Brian Dohnty

Brian Doherty Staff Geologist

Reviewed by:

Paul B. Dotson, PG # 8237 Professional Geologist



## **TABLES**



## Table 1 Groundwater Monitoring Well Construction Details and Activity Schedule

Former Olympian Service Station 1435 Webster Street Alameda, California

Well ID	Date Installed <sup>1</sup>	Total Depth	Diameter	Top of Screen	Bottom of Screen	Screen Length	Top of Casing <sup>2</sup>	Monitoring Status	Gauging	Sampling <sup>3</sup>
	installed	(ft bsg)	(inches)	(ft bsg)	(ft bsg)	(feet)	(ft msl)		(semi-a	annually)
MW-1	1/1/1993	24	2	6	24	18	19.53	Destroyed		
MW-2	1/1/1993	24	2	6	24	18	19.80	Active	$\sqrt{}$	$\sqrt{}$
MW-3	1/1/1993	24	2	6	24	18	19.79	Active	$\sqrt{}$	$\checkmark$
MW-4	12/1/1999	20	2	5	20	15	19.30	Active	$\sqrt{}$	$\checkmark$
MW-5	12/1/1999	20	2	5	20	15	18.99	Destroyed		
MW-6	12/1/1999	20	2	5	20	15	20.27	Active	$\sqrt{}$	$\checkmark$
MW-7	3/9/2007	20	4	10	20	10	18.93	Active	$\sqrt{}$	$\checkmark$
MW-8	3/9/2007	20	4	10	20	10	19.33	Active	$\sqrt{}$	$\checkmark$
MW-9	7/13/2009	20	4	5	20	15	18.83	Active	$\checkmark$	$\checkmark$

#### Notes

ft = feet

bsg = below surface grade

msl = mean sea level



<sup>&</sup>lt;sup>1</sup> = Well installation date is given as first day of the installation month when exact well installation date is unknown

<sup>&</sup>lt;sup>2</sup> = survey performed by Virgil Chavez Land Surveying (PLS #6323)

<sup>&</sup>lt;sup>3</sup> = Pending closure, groundwater samples will be analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8260TPH, and and for benzene, toluene, ethylbenzene, and xylenes (BTEX), methyl-tert-butyl ether (MTBE), di-isopropyl ether (DIPE), and tert-butyl alcohol (TBA).

Well ID	TOC	Sample	Depth to	Groundwater
	Elevation	Date	Water	Elevation
	(ft msl)		(ft)	(ft msl)
MW-1	19.53	6/3/1993	(1)	
		9/14/1994	11.46	8.07
		12/30/1994	9.22	10.31
		3/26/1995 7/9/1995	6.76 8.92	12.77 10.61
		7/31/1998	8.30	11.23
		2/11/1999	7.91	11.62
		6/23/1999	9.03	10.50
		12/6/1999	10.86	8.67
		3/16/2000	6.93	12.60
		6/13/2000	8.73	10.80
		9/29/2000	10.18	9.35
		3/22/2001	8.24	11.29
		6/25/2001	9.73	9.80
		9/28/2001	11.06	8.47
		12/26/2001	8.11	11.42
		07/0705	8.69	10.84
		10/19/2005	10.25	9.28
		1/13/2006	7.09	12.44
		5/5/2006	6.40	13.13
		7/19/2006	8.28	11.25
		10/5/2006	9.67	9.86
		ADa	andoned 12/27	/2006
MW-2	19.80	6/3/1993	9.54	10.26
		9/14/1994	11.82	7.98
		12/30/1994	9.46	10.34
		3/26/1995	6.82	12.98
		7/9/1995	9.22	10.58
		7/31/1998	8.56	11.24
		2/11/1999	8.12	11.68
		6/23/1999	9.33	10.47
		12/6/1999 3/16/2000	11.20 6.88	8.60 12.92
		6/13/2000	8.99	10.81
		9/29/2000	10.40	9.40
		3/22/2001	8.46	11.34
		6/25/2001	10.11	9.69
		9/28/2001	11.40	8.40
		12/26/2001	8.28	11.52
		7/7/2005	8.99	10.81
		10/19/2005	10.63	9.17
		1/13/2006	7.15	12.65
		5/5/2006	6.43	13.37
		7/19/2006	8.57	11.23
		10/5/2006	10.05	9.75
		3/29/2007	8.83	10.97
		6/27/2007	9.86	9.94
		9/19/2007	10.89	8.91
		12/19/2007	10.78	9.02
		3/6/2008	8.48	11.32
		6/18/2008	10.23 11.36	9.57 8.44
		9/10/2008 12/10/2008	11.89	8.44 7.91
		3/4/2009	8.68	11.12
		6/3/2009	9.91	9.89
		8/27/2009	11.16	8.64
		12/10/2009	11.32	8.48
		3/10/2010	7.99	11.81
		6/10/2010	9.13	10.67
		9/22/2010	10.95	8.85
		4/19/2011	7.43	12.37
		9/30/2011	10.54	9.26
		12/6/2011	10.79	9.01
		9/5/2012	10.75	9.05
		7/11/2013	10.60	9.20



Well ID	TOC Elevation	Sample Date	Depth to Water	Groundwater Elevation
	(ft msl)	Dute	(ft)	(ft msl)
MW-3	19.79	6/3/1993	9.80	9.99
		9/14/1994	12.19	7.60
		12/30/1994	9.72	10.07
		3/26/1995	6.88	12.91
		7/9/1995 7/31/1998	9.52 8.40	10.27 11.39
		2/11/1999	7.77	12.02
		6/23/1999	9.21	10.58
		12/6/1999	11.12	8.67
		3/16/2000	6.48	13.31
		6/13/2000	8.76	11.03
		9/29/2000	10.20	9.59
		3/22/2001	8.24	11.55
		6/25/2001 9/28/2001	10.04 11.34	9.75
		12/26/2001	8.01	8.45 11.78
		7/7/2005	8.84	10.95
		10/19/2005	10.58	9.21
		1/13/2006	6.85	12.94
		5/5/2006	6.11	13.68
		7/19/2006	8.41	11.38
		10/5/2006	10.02	9.77
		3/29/2007	9.71	10.08
		6/27/2007	9.82	9.97
		9/19/2007 12/19/2007	10.88 10.68	8.91 9.11
		3/6/2008	8.30	9.11 11.49
		6/18/2008	10.18	9.61
		9/10/2008	11.33	8.46
		12/10/2008	11.89	7.90
		3/4/2009	8.40	11.39
		6/3/2009	9.81	9.98
		8/27/2009	11.18	8.61
		12/10/2009 3/10/2010	11.30 7.78	8.49 12.01
		6/10/2010	9.02	10.77
		9/22/2010	10.96	8.83
		4/19/2011	7.22	12.57
		9/30/2011	10.52	9.27
		12/6/2011	10.78	9.01
		9/5/2012	10.82	8.97
		7/11/2013	10.60	9.19
MW-4	19.30	12/6/1999	10.79	8.51
		3/16/2000	6.86	12.44
		6/13/2000	8.18	11.12
		9/29/2000	10.11	9.19
		4/5/2001 6/25/2001	8.26 9.68	11.04 9.62
		9/28/2001	10.98	8.32
		12/26/2001	8.18	11.12
		7/7/2005	8.77	10.53
		10/19/2005	10.24	9.06
		1/13/2006	(1)	(1)
		5/5/2006	(1)	(1)
		7/19/2006 10/5/2006	8.38 9.65	10.92 9.65
		3/29/2007	8.55	10.75
		6/27/2007	9.40	9.90
		9/19/2007	10.45	8.85
		12/19/2007	10.35	8.95
		3/6/2008	8.25	11.05
		6/18/2008	9.80	9.50
		9/10/2008 12/10/2008	10.89	8.41
		3/4/2009	11.43	7.87
		6/3/2009	8.47 9.53	10.83 9.77
		8/27/2009	10.72	8.58
		12/10/2009	10.85	8.45
		3/10/2010	7.87	11.43
		6/10/2010	8.87	10.43
		9/22/2010	10.52	8.78
l		4/19/2011 9/30/2011	7.43 10.15	11.87 9.15
		12/6/2011 9/5/2012	10.41 10.36	8.89 8.94
		12/6/2011	10.41	8.89



Well ID	TOC	Sample	Depth to	Groundwater
	Elevation	Date	Water	Elevation
2004 5	(ft msl)	40/0/4000	(ft)	(ft msl)
MW-5	18.99	12/6/1999	10.17	8.82
		3/16/2000	6.28 7.95	12.71 11.04
		6/13/2000 9/29/2000	7.95 9.54	9.45
		3/22/2001	7.48	11.51
		6/25/2001	9.05	9.94
		9/28/2001	10.39	8.60
		12/26/2001	7.28	11.71
		8/24/2005	7.87	11.12
		10/19/2005	9.51	9.48
		1/13/2006	6.35	12.64
		5/5/2006	5.64	13.35
		7/19/2006	7.41	11.58
		10/5/2006	8.89	10.10
		******Aba	andoned 12/27	/2006******
MW-6	20.27	12/6/1999	11.46	8.81
IVI VV-G	20.27	3/16/2000	8.32	11.95
		6/13/2000	9.14	11.13
		9/29/2000	10.81	9.46
		3/22/2001	8.64	11.63
		6/25/2001	10.39	9.88
		9/28/2001	11.70	8.57
		12/26/2001	8.40	11.87
		7/7/2005	9.10	11.17
		10/19/2005	10.88	9.39
		1/13/2006	7.33	12.94
		5/5/2006	6.53	13.74
		7/19/2006	8.64	11.63
		10/5/2006	10.29	9.98
		3/29/2007	9.01	11.26
		6/27/2007	10.14	10.13
		9/19/2007	11.17	9.10
		12/19/2007	10.99	9.28 11.62
		3/6/2008 6/18/2008	8.65 10.46	9.81
		9/10/2008	11.64	8.63
		12/10/2008	12.18	8.09
		3/4/2009	8.86	11.41
		6/3/2009	10.07	10.20
		8/27/2009	11.45	8.82
		12/10/2009	11.61	8.66
		3/10/2010	8.19	12.08
		6/10/2010	9.30	10.97
		9/22/2010	11.28	8.99
		4/19/2011	7.59	12.68
		9/30/2011	10.81	9.46
		12/6/2011	11.13	9.14
		9/5/2012	11.10	9.17 9.44
		7/11/2013	10.83	3.44
MW-7	18.93	3/29/2007	7.90	11.03
		6/27/2007	8.87	10.06
		9/19/2007	9.88	9.05
		12/19/2007	9.72	9.21
		3/6/2008	7.52	11.41
		6/18/2008	9.13	9.80
		9/10/2008	10.29	8.64
		12/10/2008	10.81	8.12
		3/4/2009	7.89	11.04
		6/3/2009	8.70 10.05	10.23
		8/27/2009 12/10/2009	10.05 10.21	8.88 8.72
		3/10/2009	7.16	11.77
		6/10/2010	8.58	10.35
		9/22/2010	9.89	9.04
		4/19/2011	6.58	12.35
		9/30/2011	9.48	9.45
		12/6/2011	9.68	9.25
		9/5/2012	9.68	9.25
		7/11/2013	9.32	9.61



Well ID	TOC	Sample	Depth to	Groundwater
	Elevation	Date	Water	Elevation
	(ft msl)		(ft)	(ft msl)
8-WM	19.33	3/29/2007	8.40	10.93
		6/27/2007	9.33	10.00
		9/19/2007	10.31	9.02
		12/19/2007	10.23	9.10
		3/6/2008	9.14	10.19
		6/18/2008	9.74	9.59
		9/10/2008	10.76	8.57
		12/10/2008	11.31	8.02
		3/4/2009	8.59	10.74
		6/3/2009	9.51	9.82
		8/27/2009	10.57	8.76
		12/10/2009	10.72	8.61
		3/10/2010	7.77	11.56
		6/10/2010	8.01	11.32
		9/22/2010	10.39	8.94
		4/19/2011	7.36	11.97
		9/30/2011	9.97	9.36
		12/6/2011	10.22	9.11
		9/5/2012	10.18	9.15
		7/11/2013	9.97	9.36
MW-9	18.83	8/27/2009	10.01	8.82
		12/10/2009	10.16	8.67
		3/10/2010	7.31	11.52
		6/10/2010	8.14	10.69
		9/22/2010	9.86	8.97
		4/19/2011	6.86	11.97
		9/30/2011	9.48	9.35
		12/6/2011	9.65	9.18
		9/5/2012	9.60	9.23
		7/11/2013	9.35	9.48

Notes:

TOC = Top of Casing

ft msl = Feet referenced to mean sea level

(1) = Well not accessible due to obstruction by a parked car yellow row = \_\_\_\_most recent data



# Table 3 Summary of Groundwater Monitoring Analytical Results - Petroleum Hydrocarbons Former Olympian Service Station 1435 Webster Street Alameda, California

	Sample	TPHd	TPHg	В	т.	E	X	MTBE	TRPH	DIPE	ТВА	1,2-DCA
ES	Date SL	100	100	Concentration 1.0	40	ograms per 30	20	5.0	_		12	0.5
SS7 MW-1	FLs 6/3/1993			940	4,300	760	7,100	1,300				
	9/14/1994	<50	14,000	44	28	25	50		800			
	12/30/1994 3/26/1995	<50 <50	4,000 1,000	12 21	9 10	6.8 7.1	30 25		<500 2,100			
	7/9/1995	<50	16,000	57	28	25	53					
	7/31/1998 2/11/1999	1,700 2000	4,700 25,000	1,300 18,000	48 1,600	140 <b>1,400</b>	150 500	6,600 28,000	<5000			
	6/23/1999 12/6/1999	4,900 4,000	42,000 44.000	11,000 8,900	1,100 3,400	1,500 1,900	2,300 5.100	15,000 11,000				
	3/16/2000	700	5,100	2,400	100	280	460	2,700				
	6/13/2000 9/29/2000	2,800 5,200	17,000 1 50.000	5,300 11.000	260 2,900	720 <b>1,900</b>	790 4.600	7,000	2			
	3/22/2001	1,500	1 8,600	2,600	750	250	950	3,200				
	6/25/2001 9/28/2001		18,000 48,000	1,200 5,200	1,800 <b>6,100</b>	970 2,200	3,200 <b>8,100</b>	1,500 <sup>4</sup> 4,000				
	12/26/2001 7/7/2005		524 1,500	216 190	1.2 15	8.6 36	7.4 29	<b>721</b> 1,100		<20		50
	10/19/2005		11,000	2,100	45	370	82	4,600		<250	<500	200
	1/13/2006 5/5/2006		5,400 <25	680 2	37 <0.5	83 <0.5	41 <0.5	3,900 2.2		<250 <5.0	<500 <10	180 <0.5
	7/19/2006 10/5/2006		5,000 23,000	836 <b>3,740</b>	22.3 112	107 395	81.8 161	1,130 6,020		<4.2 13.5	<84 546	54.1 219
	10/0/2000		20,000	***************************************	********	**Well Abar	doned 12/2	7/2006*****	*******	*******	0.0	2.0
MW-2	6/3/1993	<50	<50	5.8	<0.5	<0.5	<0.5		<500			
	9/14/1994 12/30/1994	<50 <50	<50 160	<0.5 1.4	<0.5 1.4	<0.5 0.8	<0.5 5		<500 <500			
	3/26/1995 7/9/1995	<50	<50 	<0.5	<0.5	<0.5	<0.5		<500			
	7/31/1998	220	<50	<0.5	<0.5	<0.5	<0.5	73	<500			
	2/11/1999 6/23/1999	<50 420	<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	75 96				
	12/6/1999 3/16/2000	<110 <50	300 <50	28 1	45 <0.5	6 0.5	37 1	210 3				
	6/13/2000	<50	68	8.0	<0.5	<0.5	<0.5	38	,			
	9/29/2000 3/22/2001	<50 <50	67 <50	0.8 1	0.5 0.5	<0.5 <0.5	1	86 <sup>4</sup>				
	6/25/2001		<50	<0.5 4	<0.5	<0.5	<1.0	13				
	9/28/2001 12/26/2001		300 <50	<0.5	6 <0.5	<b>3</b> <0.5	10 <1.0	130 <0.5				
	7/7/2005 10/19/2005		<50 29	<0.5 1.4	<0.5 <0.5	<0.5 <0.5	<1.0 <0.5	20 19		<1.0 <5.0	 <10	1.1 0.95
	1/13/2006		<25	< 0.5	< 0.5	< 0.5	< 0.5	<1.0		<5.0	<10	<0.5
	5/5/2006 7/19/2006		<25 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<0.5 <1.5	<1.0 16.6		<5.0 <0.5	<10 <10	<0.5 1.24
	10/5/2006 3/29/2007		<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	11.9 3.36		<0.5 <0.5	<10 <10	0.750 <0.5
Post excavation	6/27/2007		<50	<0.5 <0.5	<0.5 <0.5	<0.5	<1.5 <1.5	10.5		<0.5	<10	0.820
	9/19/2007 12/19/2007		52 <50	* <0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	18.1 22.9		<0.5 <0.5	<10 <10	0.710 0.840
	3/6/2008		<50	<0.5	<0.5	<0.5	<1.5	1.02		<0.5	<10	<0.5
	6/18/2008 9/10/2008		<50 69	<0.5 4 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	36.9 24.6		<0.5 <0.5	<10 <10	0.880 0.810
	12/10/2008 3/4/2009		84 <50	4 <0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	30.2 3.15		<0.5 <0.5	<10 <10	0.650 <0.5
	6/3/2009		<55	< 0.55	< 0.55	< 0.55	<1.6	35		< 0.55	<11	0.55
	8/27/2009 3/11/2010		<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	73 <0.5		<0.5 <0.5	23 <30	1.1 <0.5
	9/22/2010		<50	< 0.5	<0.5	<0.5 <0.5	<1.5 <1.5	44 2.4		<0.5	<5.0	1.3
			-E0	-0 E							-E O	
	4/19/2011 9/30/2011		<50 <50	<0.5 <0.5	<0.5 <0.5	< 0.5	<1.5	12		<0.5 <0.5	<5.0 <5.0	0.80
								12 20 15				0.80
	9/30/2011 10/26/2011		<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	20		<0.5 <0.5	<5.0 <5.0	
MW-3	9/30/2011 10/26/2011 12/6/2011 9/5/2012		<50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5	<1.5 <1.5 <1.5 <1.5	20 15 20		<0.5 <0.5 <0.5 <0.5	<5.0 <5.0 <5.0 <5.0	
MW-3	9/30/2011 10/26/2011 12/6/2011 9/5/2012 7/11/2013 6/3/1993 9/14/1994	     <50 <50	<50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <0.5	20 15 20 25	<500 <500	<0.5 <0.5 <0.5 <0.5 <0.5	<5.0 <5.0 <5.0 <5.0 <5.0	  
MW-3	9/30/2011 10/26/2011 12/6/2011 9/5/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1994 3/26/1995	         	<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <0.5 <0.5 <0.5 <0.5	20 15 20 25  	<pre> &lt;500 &lt;500 &lt;500 &lt;500&lt;</pre>	<0.5 <0.5 <0.5 <0.5 <0.5	<5.0 <5.0 <5.0 <5.0 <5.0	
MW-3	9/30/2011 10/26/2011 12/6/2011 9/5/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1994 3/26/1995 7/3/1/998	         	<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5	20 15 20 25     <0.5	<pre> &lt;500 &lt;500 &lt;500</pre>	<0.5 <0.5 <0.5 <0.5 <0.5	<5.0 <5.0 <5.0 <5.0 <5.0	
MW-3	9/30/2011 10/26/2011 12/6/2011 9/5/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1994 3/26/1995 7/9/1995	         	<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5	20 15 20 25  	<500 <500 <500 <500	<0.5 <0.5 <0.5 <0.5 <0.5	<5.0 <5.0 <5.0 <5.0 <5.0	
MW-3	9/30/2011 10/26/2011 12/6/2011 9/5/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1994 3/26/1995 7/31/1995 7/31/1999 12/6/1999		<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	20 15 20 25    <0.5 <0.5	<500 <500 <500 <500 <500	<0.5 <0.5 <0.5 <0.5 <0.5   	<5.0 <5.0 <5.0 <5.0 <5.0  	
MW-3	9/30/2011 10/26/2011 12/6/2011 9/5/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1994 3/26/1995 7/31/1998 2/11/1999 6/23/1999 12/6/1999 3/16/2000	<pre></pre>	<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5	20 15 20 25     <0.5 <0.5 3 0.6 1 2	<500 <500 <500 <500 -500  <5000	<0.5 <0.5 <0.5 <0.5 <0.5   	<5.0 <5.0 <5.0 <5.0 <5.0  	
MW-3	9/30/2011 10/26/2011 12/6/2011 9/5/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1994 3/26/1995 7/31/1998 2/11/1999 6/23/1999 3/16/2000 6/13/2000 9/29/2000		<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5	20 15 20 25    <0.5 <0.5 3 0.6 1 2 <1.0	<500 <500 <500 <500 -500 	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <	<5.0 <5.0 <5.0 <5.0 <5.0  	
MW-3	9/30/2011 10/26/2011 12/6/2011 12/6/2011 19/5/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1994 12/30/1995 7/31/1998 2/11/1999 3/16/2000 9/29/2000 3/22/2001 6/25/2001		<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	41.5 41.5 41.5 41.5 41.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 41.0 41.0 41.0 41.0 41.0	20 15 20 25    <0.5 <0.5 3 0.6 1 2 <1.0		<0.5 <0.5 <0.5 <0.5 <0.5 	<5.0 <5.0 <5.0 <5.0 <5.0 <5.0 	
MW-3	9/30/2011 10/26/2011 12/6/2011 12/6/2011 9/5/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1994 3/26/1995 7/31/1998 2/11/1999 12/6/1999 12/6/1999 3/16/2000 6/13/2000 9/29/2000 3/22/2001 6/25/2001 9/28/2001		<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<1.5 <1.5 <1.5 <1.5 <0.5 <0.5 <0.5 <0.5 <0.5 <1.0 <1.0 <1.0 <1.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.0 <2.	20 15 20 25         	<500 <500 <500 <500 <500 -5000	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <	
MW-3	9/30/2011 10/26/2011 19/5/2012 9/5/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1995 7/31/1999 12/6/1999 12/6/1999 12/6/2000 3/22/2001 9/28/2000 12/28/2001 12/26/2001 12/26/2001		<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<ul> <li>&lt;0.5</li> <l></l></ul>	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<pre>&lt;1.5 &lt;1.5 &lt;1.5 &lt;1.5 &lt;1.5 &lt;1.5 &lt;1.5 &lt;1.5</pre>	20 15 20 25		<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<5.0 <5.0 <5.0 <5.0 <5.0 <5.0 	
MW-3	9/30/2011 10/26/2011 12/6/2011 12/6/2011 19/5/2012 7/11/2013 6/3/1993 9/4/1994 12/30/1994 12/30/1999 12/6/1999 12/6/1999 3/16/2000 9/29/2000 3/22/2001 6/25/2001 1/26/2001 1/26/2001 1/7/2005 10/19/2001 10/19/2001 10/19/2001		<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<ul> <li>&lt;0.5</li> <l></l></ul>	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<pre>&lt;1.5 &lt;1.5 &lt;1.5 &lt;1.5 &lt;1.5 &lt;1.5 &lt;1.5 &lt;1.5</pre>	20 15 20 25	<500 <500 <500 <500 <500 <500 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <10	<0.5 <0.5 <0.5 <0.5 <0.5 <	<5.0 <5.0 <5.0 <5.0 <5.0 <5.0 	
MW-3	9/30/2011 10/26/2011 12/6/2011 19/5/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1994 12/30/1995 7/31/1998 2/21/11/999 2/21/11/999 3/6/2000 9/29/2000 9/29/2001 9/28/2001 17/7/2005 1/7/2005		<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<ul> <li>&lt;0.5</li> <l></l></ul>	<ul> <li>&lt;0.5</li> <li< td=""><td>11.5 11.5</td><td>20 15 20 25 </td><td></td><td>&lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5</td><td>&lt;5.0 &lt;5.0 &lt;5.0 &lt;5.0 &lt;5.0 &lt;5.0 </td><td></td></li<></ul>	11.5 11.5	20 15 20 25 		<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<5.0 <5.0 <5.0 <5.0 <5.0 <5.0 	
	9/30/2011 10/26/2011 12/6/2011 19/5/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1999 12/30/1999 12/4/1999 12/4/1999 12/4/1999 12/4/1999 12/4/2000 6/32/2000 12/2/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 13/2/2001 11/3/2005 1/3/2006 1/3/2000 1/3/2005 1/3/2006 1/3/2006 1/3/2006 1/3/2006 1/3/2006 1/3/2006 1/3/2006 1/3/2006 1/3/2006 1/3/2006 1/3/2006		<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<ul> <li>&lt;0.5</li> </ul>	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	41.5 41.5 41.5 41.5 41.5 41.5 40.5 40.5 40.5 40.5 41.0 41.0 41.0 41.0 40.5 40.5 41.0 41.	20 25 25 25 25 25 25 25 25 25 25 25 25 25		<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<5.0 <5.0 <5.0 <5.0 <5.0 <5.0 	
MW-3	9/30/2011 10/26/2011 10/26/2011 19/5/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1994 12/30/1999 12/31/1999 12/31/1999 12/31/1999 12/31/2000 6/32/2000 12/22/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 11/3/2006 5/5/2006 2/9/2007 6/27/2007		<50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<ul> <li>&lt;0.5 </li> </ul>	<ul> <li>&lt;0.5</li> </ul>	1.5   1.5	20 15 20 25 25 25 25 25 25 25 25 25 25 25 25 25		<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<5.0 <5.0 <5.0 <5.0 <5.0 <5.0 	
	9/30/2011 10/26/2011 12/6/2011 12/6/2011 19/5/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1994 12/30/1995 7/31/1998 6/23/1999 12/3/1999 3/16/2000 6/13/2000 3/22/2001 6/25/2001 17/7/2005 1/3/2006	-50	<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<ul> <li>&lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 </li> <li>&lt;0.5 </li> </ul>	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	41.5 41.5 41.5 41.5 41.5 41.5 41.5 41.5 41.0	20 20 15 20 25 25 20 25 20 25 20 25 20 25 20 20 25 20 20 25 20 20 20 20 20 20 20 20 20 20 20 20 20	<5000 <5000 <5000 <5000 -5000 	<pre>&lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5</pre>	<5.0 <5.0 <5.0 <5.0 <5.0 <	
	9/30/2011 10/26/2011 12/6/2011 12/6/2011 19/5/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1994 12/30/1994 12/30/1995 7/31/1998 2/31/1999 3/16/2000 6/13/2000 3/22/2001 12/26/2001 17/7/2005 10/19/2005 10/19/2005 10/19/2005 10/19/2006 10/5/2006 2/27/2007 12/19/2006 10/5/2006 10/5/2006 10/5/2007 12/19/2007 12/19/2007 12/19/2007 12/19/2007 12/19/2007 12/19/2007 12/19/2007 12/19/2007 12/19/2007 12/19/2007 12/19/2007 12/19/2007 12/19/2007		<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<ul> <li>&lt;0.5 </li> </ul>	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	41.5 41.5 41.5 41.5 41.5 41.5 41.5 41.5 41.0	20 15 20 25 25 20 25 20 25 20 25 20 25 20 20 25 20 20 20 20 20 20 20 20 20 20 20 20 20	<5000 <5000 <5000 <5000 -5000 	<pre>&lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5</pre>	<5.0 <5.0 <5.0 <5.0 <5.0 <	
	9/30/2011 10/26/2011 12/6/2011 19/6/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1994 12/30/1995 7/31/1998 2/21/1999 2/21/1999 2/21/1999 3/16/2000 6/25/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 12/26/2001 1/26/2001 1/26/2001 1/26/2001 1/26/2001 1/26/2001 1/26/2001 1/26/2001 1/26/2001 1/26/2001 1/26/2001 1/26/2001 1/26/2001 1/26/2001 1/26/2001 1/26/2001		<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<ul> <li>&lt;0.5 </li> </ul>	<ul> <li>&lt;0.5</li> <l></l></ul>	1.5	20 25 25 25 25 25 25 25 25 25 25 25 25 25		<pre>&lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;</pre>	<5.0 <5.0 <5.0 <5.0 <5.0 <	
	9/30/2011 10/26/2011 10/26/2011 19/5/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1994 12/30/1994 12/30/1995 7/31/1998 2/31/1999 2/31/1999 3/16/2000 6/3/2000 9/29/2000 3/29/2001 12/26/26/26/26/26/26/26/26/26/26/26/26/26		<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<ul> <li>c0.5</li> <li< td=""><td><ul> <li>-0.5     </li> </ul></td><td>1.5</td><td>20</td><td>-500</td><td><pre>&lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;</pre></td><td>&lt;5.0 &lt;5.0 &lt;5.0 &lt;5.0 &lt;5.0 &lt;5.0 &lt;5.0 &lt;</td><td></td></li<></ul>	<ul> <li>-0.5     </li> </ul>	1.5	20	-500	<pre>&lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;</pre>	<5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <	
	9/30/2011 10/26/2011 12/6/2011 12/6/2011 19/5/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1994 12/30/1999 6/23/1999 6/23/1999 6/23/1999 6/23/1999 6/23/1999 6/23/1999 6/23/1999 6/23/2001 6/3/2009 12/26/2001 17/7/2005 10/19/2005 10/19/2006 10/5/2006 10/5/2006 3/2/2007 6/13/2008 6/18/2008 6/18/2008 6/18/2008 6/18/2008 6/18/2008 3/4/2009 3/4/2009 3/4/2009 3/4/2009 3/4/2009 3/4/2009		<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<ul> <li>&lt;0.5 </li> </ul>	<ul> <li>&lt;0.5</li> <l></l></ul>	1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5	20 25 25 25 25 25 25 25 25 25 25 25 25 25	-5000 -5000	<pre>&lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5</pre>	<5.0 <5.0 <5.0 <5.0 <5.0 <	
	9/30/2011 10/26/2011 12/6/2011 19/6/2011 19/5/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1994 12/30/1994 12/30/1999 12/30/1999 12/30/1999 12/30/1999 12/30/1999 12/30/1999 12/30/1999 12/30/1999 12/30/1999 12/30/1999 12/30/1999 12/30/1999 12/30/1999 12/30/1999 12/30/1999 12/30/1999 12/30/1999 12/30/1999 12/30/1999 12/30/30/30/30/30/30/30/30/30/30/30/30/30/		<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<ul> <li>&lt;0.5 </li> </ul>	<ul> <li>&lt;0.5</li> <l></l></ul>	41.5 41.5 41.5 41.5 41.5 41.5 41.5 41.5	20 25 25 25 20 25 25 20 25 25 25 25 25 25 25 25 25 25 25 25 25	<500 <500 <500 <500 <500 <500 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <10	<pre>&lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;</pre>	<5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <	
	9/30/2011 10/26/2011 10/26/2011 12/6/2011 19/5/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1994 3/26/1995 7/31/1998 2/11/1999 2/11/1999 3/16/2000 6/3/2000 1/29/2000 3/29/2010 12/26/2011 12/26		<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<ul> <li>-0.5     </li> <li>-0.5     </li></ul>	<ul> <li>-0.5     </li> <li>-0.5     </li></ul>	41.5 41.5 41.5 41.5 41.5 41.5 41.5 41.5	20 25 25 25 20 25 25 20 25 25 20 20 20 20 20 20 20 20 20 20 20 20 20	<500 <500 <500 <500 <500 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <10	<pre>&lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;</pre>	<5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0	
	9/30/2011 10/26/2011 12/6/2011 12/6/2011 19/5/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1994 3/26/1995 7/31/1998 2/21/1999 6/23/1999 12/6/1999 6/23/1999 6/23/2001 6/13/2000 9/29/2000 12/26/2001 17/7/2005 1/13/2006 1/26/2001 1/26		<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<ul> <li>&lt;0.5 </li> </ul>	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.	41.5 41.5 41.5 41.5 41.5 41.5 41.5 41.5	20 20 25 25 25 20 25 25 25 25 25 25 25 25 25 25 25 25 25	<500 <500 <500 <500 <500 <500 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <100 <10	<pre>&lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5</pre>	<5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <	
	9/30/2011 10/26/2011 12/6/2011 12/6/2011 19/5/2012 7/11/2013 6/3/1993 9/14/1994 12/30/1994 12/30/1994 12/30/1995 7/31/1998 2/31/1999 3/46/2000 6/13/2000 3/22/2011 17/2005 10/19	-50	<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<ul> <li>&lt;0.5 </li> </ul>	<ul> <li>&lt;0.5</li> <li>&lt;0.5&lt;</li></ul>	41.5 41.5 41.5 41.5 41.5 41.5 41.5 41.5	20 20 25 20	<5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000 <5000	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<5.0 <5.0 <5.0 <5.0 <5.0 <	
	9/30/2011 10/26/2011 10/26/2011 19/5/2012 7/11/2013 6/3/1993 9/14/1994 12/20/1995 7/31/1998 2/14/1999 2/14/1999 2/14/1999 2/14/1999 2/14/1999 2/14/1999 3/16/2000 6/3/2000 1/29/2000 3/29/2010 1/2/2001 1/2/2005 1/3/2006 6/3/2000 6/3/2009		<50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<ul> <li>-0.5     <li>-0.5     <li>-0.5     </li> </li></li></ul>	<ul> <li>-0.5     </li> </ul>	41.5 41.5 41.5 41.5 41.5 41.5 41.5 41.5	20 25 25 25 25 25 2.5 2.5 2.5 2.5 2.5 2.5	<500 <500 <500 <500 <500 <500 <	<pre>&lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;0.5 &lt;</pre>	<5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0	



# Table 3 Summary of Groundwater Monitoring Analytical Results - Petroleum Hydrocarbons Former Olympian Service Station 1435 Webster Street Alameda, California

	Sample	TPHd	TPHg	В	Т	Е	X	MTBE	TRPH	DIPE	TBA	1,2-DCA
	Date	100		Concentrati 1.0	ons in micr	ograms per 30	liter (µg/L)	5.0			12	0.5
ES SS1		100	100	940	4,300	760	7.100	1,300			12	0.5
MW-4	12/6/1999	160	<50	3	2	0.6	4	140				
	3/16/2000	90	<50	0.5	0.5	<0.5	2	34				
	6/13/2000	<50	56	<0.5	<0.5	<0.5	<1.0	1	2			
	9/29/2000 4/5/2001	<50 <50	92 51	0.7 <0.5	<0.5 0.5	<0.5 <0.5	3 1	<1.0 6				
	6/25/2001	<50	<50	<0.5	<0.5	<0.5	<1.0	<0.5				
	9/28/2001		<50	<0.5	<0.5	<0.5	2	2				
	12/26/2001		<50	1.6	1.7	1.6	4.4	2.7				
	7/7/2005		<50	<0.5	< 0.5	<0.5	<1.0	<0.5		<1.0		<0.5
	10/19/2005		<25	<0.5	<0.5 3	<0.5	<0.5	<1.0		<5.0	<10	<0.5
	7/19/2006 10/5/2006		<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	<0.5 <0.5		<0.5 <0.5	<10 <10	<0.5 <0.5
Post excavation	3/29/2007		<50	<0.5	<0.5	<0.5	<1.5	0.69		<0.5	<10	<0.5
1 Out CACCIVILION	6/27/2007		<50	<0.5	<0.5	<0.5	<1.5	<0.5		<0.5	<10	<0.5
	9/19/2007		<50	<0.5	< 0.5	< 0.5	<1.5	1.38		<0.5	<10	< 0.5
	12/19/2007		63	<0.5	<0.5	<0.5	<1.5	2.20		<0.5	<10	0.590
	3/6/2008		<50	<0.5	<0.5	<0.5	<1.5	<0.5		<0.5	<10	<0.5
	6/18/2008 9/10/2008		<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	<0.5 0.700		<0.5 <0.5	<10 <10	<0.5 <0.5
	12/10/2008		<50	<0.5	<0.5	<0.5	<1.5	2.04		<0.5	<10	<0.5
	3/4/2009		<50	<0.5	<0.5	<0.5	<1.5	2.96		<0.5	<10	<0.5
	6/3/2009		<50	< 0.5	< 0.5	< 0.5	<1.5	1.5		< 0.5	<10	< 0.5
	8/27/2009		<50	<0.5	<0.5	<0.5	<1.5	4.9		<0.5	11	1.3
	12/10/2009 3/11/2010		<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	4.1 9.8		<0.5 <0.5	<5 <30	0.71 <0.5
	3/11/2010 6/10/2010		<50 <50	<0.5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 0.52	9.8 8.5		<0.5 <0.5	<30 6.1	<0.5 1.8
	9/22/2010		<50	<0.5	<0.5	<0.5	<1.5	5.2		<0.5	5.1	1.1
	4/19/2011		<50	<0.5	< 0.5	< 0.5	<1.5	6.1		<0.5	<5.0	
	9/30/2011		73	5 <0.5	< 0.5	<0.5	<1.5	70		<0.5	<5.0	2.4
	10/26/2011		<50	<0.5	<0.5	<0.5	<1.5	80		<0.5	<5.0	
	12/6/2011		110 79	5 <0.5 5 <0.5	<0.5 <0.5	<0.5 <0.5	<1.5 <1.5	140 140		<0.5 <0.5	14 <5.0	-
	9/5/2012 7/11/2013		90	<0.5	<0.5	<0.5	<1.5 <1.5	140 59		<0.5	<5.0 <5.0	
MW-5	12/6/1999	2,800	30,000	2,200	3,300	910	7000	670				
	3/16/2000 6/13/2000	1,100 1,100	3,500 6,500	1,100 2,200	260 360	210 360	6300 730	260 480				
	9/29/2000	700	1 3,900	990	120	300	340	390	2			
	3/22/2001	380	1 4,300	780	240	250	530	190				
	6/25/2001		3,100	1,000	110	200	320	140				
	9/28/2001		3,000	1,200	77	120	170	770				
	12/26/2001 8/24/2005		3,240 150	738 57	262 3	218 8	626 3.9	66.4 67		<1.0	 18	3.0
	8/24/2005 10/19/2005		150 560	130	3.8	8 23	3.9 9.3	230		<1.0 <25	18 <50	3.0 11
	1/13/2006		2,300	570	18	120	140	220		<25	<50	14
	5/5/2006		130	35	1.7	7.8	7.4	8		<5.0	<10	0.55
	7/19/2006		210	102	1.54	15.8	3.85	27.6		<0.5	<10	2.06
	10/5/2006		410	105	1.06	9.05 ***Well ∆hai	2.24 ndoned 12/27	101		0.640	11.3	6.65
						Well Aba	iluoneu 12/2/	72000				
MW-6	12/6/1999	110	<50	2	2	0.8	8	1				
	3/16/2000	<50	<50	8	8	5	18	<0.5				
	6/13/2000 9/29/2000	<50 <50	75 <50	0.7 <0.5	1 <0.5	0.9 <0.5	2 <1.0	0.6 <0.5				
	3/22/2001	<50 <50	66	0.5	<0.5	<0.5	<1.0	3				
	6/25/2001		<50	<0.5	<0.5	<0.5	<1.0	4				
	9/28/2001		63	2	ND	ND	1	3				
	12/26/2001			< 0.5	< 0.5	< 0.5	1.4	< 0.5				-0.5
			<50		-0 =		.4.0	-0.5				< 0.5
	7/7/2005		<50	< 0.5	<0.5	<0.5	<1.0	<0.5		<1.0 <5.0	 <10	<0.5
	7/7/2005 10/19/2005		<50 <25	<0.5 <0.5	<0.5 3	< 0.5	<0.5	<1.0		<5.0	<10	<0.5 <0.5
	7/7/2005 10/19/2005 1/13/2006 5/5/2006	  	<50 <25 <25 <25	<0.5 <0.5 <0.5 <0.5	<0.5 <sup>3</sup> <0.5 <0.5	<0.5 <0.5 <0.5	<0.5 <0.5 <0.5	<1.0 <1.0 <1.0		<5.0 <5.0 <5.0	<10 <10 <10	<0.5 <0.5
	7/7/2005 10/19/2005 1/13/2006 5/5/2006 7/19/2006	   	<50 <25 <25 <25 <50	<0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <sup>3</sup> <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <1.5	<1.0 <1.0 <1.0 <0.5	  	<5.0 <5.0 <5.0 <0.5	<10 <10 <10 <10	<0.5 <0.5 <0.5
	7/7/2005 10/19/2005 1/13/2006 5/5/2006 7/19/2006 10/5/2006	   	<50 <25 <25 <25 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <sup>3</sup> <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <1.5 <1.5	<1.0 <1.0 <1.0 <0.5 <0.5	  	<5.0 <5.0 <5.0 <0.5 <0.5	<10 <10 <10 <10 <10	<0.5 <0.5 <0.5 <0.5
Post excavation	7/7/2005 10/19/2005 1/13/2006 5/5/2006 7/19/2006 10/5/2006 3/29/2007	    	<50 <25 <25 <25 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <sup>3</sup> <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <1.5 <1.5 <1.5	<1.0 <1.0 <1.0 <0.5 <0.5 <0.5	   	<5.0 <5.0 <5.0 <0.5 <0.5 <0.5	<10 <10 <10 <10 <10 <10	<0.5 <0.5 <0.5 <0.5 <0.5
Post excavation	7/7/2005 10/19/2005 1/13/2006 5/5/2006 7/19/2006 10/5/2006 3/29/2007 6/27/2007	     	<50 <25 <25 <25 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <sup>3</sup> <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <1.5 <1.5 <1.5	<1.0 <1.0 <1.0 <0.5 <0.5 <0.5 <0.5	  	<5.0 <5.0 <5.0 <0.5 <0.5 <0.5	<10 <10 <10 <10 <10 <10 <10	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5
Post excavation	7/7/2005 10/19/2005 1/13/2006 5/5/2006 7/19/2006 10/5/2006 3/29/2007	    	<50 <25 <25 <25 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <sup>3</sup> <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <1.5 <1.5 <1.5	<1.0 <1.0 <1.0 <0.5 <0.5 <0.5	   	<5.0 <5.0 <5.0 <0.5 <0.5 <0.5	<10 <10 <10 <10 <10 <10	<0.5 <0.5 <0.5 <0.5 <0.5
Post excavation	7/7/2005 10/19/2005 1/13/2006 5/5/2006 7/19/2006 10/5/2006 3/29/2007 6/27/2007 9/19/2007 12/19/2007 3/6/2008	-	<50 <25 <25 <25 <50 <50 <50 <50 <50 <50 <50 <50 <50 <5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <sup>3</sup> <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1	<1.0 <1.0 <1.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5		<5.0 <5.0 <5.0 <0.5 <0.5 <0.5 <0.5 <0.5	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5
Post excavation	7/7/2005 10/19/2005 1/13/2006 5/5/2006 7/19/2006 3/29/2007 6/27/2007 9/19/2007 12/19/2007 3/6/2008 6/18/2008		<50 <25 <25 <25 <50 <50 <50 <50 <50 <50 <50 <50 <50 <5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <sup>3</sup> <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1	<1.0 <1.0 <1.0 <1.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0		<5.0 <5.0 <5.0 <0.5 <0.5 <0.5 <0.5 <0.5	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5
Post excavation	7/7/2005 10/19/2005 1/13/2006 5/5/2006 7/19/2006 10/5/2006 3/29/2007 6/27/2007 9/19/2007 12/19/2007 3/6/2008 6/18/2008 9/10/2008		<50 <25 <25 <25 <50 <50 <50 <50 <50 <50 <50 <50 <50 <5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <sup>3</sup> <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1	<1.0 <1.0 <1.0 <1.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0		<5.0 <5.0 <5.0 <0.5 <0.5 <0.5 <0.5 <0.5	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5
Post excavation	7/7/2005 10/19/2005 10/19/2006 5/5/2006 7/19/2006 3/29/2007 6/27/2007 9/19/2007 3/6/2008 6/18/2008 6/18/2008 12/10/2008		<50 <25 <25 <25 <50 <50 <50 <50 <50 <50 <50 <50 <50 <5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <sup>3</sup> <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1	<1.0 <1.0 <1.0 <1.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0		<5.0 <5.0 <5.0 <0.5 <0.5 <0.5 <0.5 <0.5	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5
Post excavation	7/7/2005 10/19/2005 1/13/2006 5/5/2006 7/19/2006 10/5/2006 3/29/2007 6/27/2007 9/19/2007 12/19/2007 3/6/2008 6/18/2008 9/10/2008		<50 <25 <25 <25 <50 <50 <50 <50 <50 <50 <50 <50 <50 <5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <sup>3</sup> <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1	<1.0 <1.0 <1.0 <1.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0		<5.0 <5.0 <5.0 <0.5 <0.5 <0.5 <0.5 <0.5	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5
Post excavation	7/7/2005 10/19/2005 10/19/2006 5/5/2006 7/19/2006 10/5/2006 3/29/2007 9/19/2007 12/19/2007 3/6/2008 9/10/2008 9/10/2008 12/10/2008 3/4/2009		<50 <25 <25 <25 <50 <50 <50 <50 <50 <50 <50 <50 <50 <5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <sup>3</sup> <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1	<1.0 <1.0 <1.0 <1.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0		<5.0 <5.0 <5.0 <0.5 <0.5 <0.5 <0.5 <0.5	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5
Post excavation	7/7/2005 10/19/2005 10/19/2005 1/13/2006 5/5/2006 7/19/2006 3/29/2007 6/27/2007 9/19/2007 12/19/2007 3/6/2008 6/18/2008 9/10/2008 12/10/2008 12/10/2008 3/4/2009 8/27/2009 8/27/2009		<50 <25 <25 <25 <50 <50 <50 <50 <50 <50 <50 <50 <50 <5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <sup>3</sup> <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<ul> <li>&lt;0.5</li> <li>&lt;0.5</li> <li>&lt;0.5</li> <li>&lt;1.5</li> </ul>	<1.0 <1.0 <1.0 <1.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0		<5.0 <5.0 <5.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5
Post excavation	7/7/2005 10/19/2005 10/19/2005 1/13/2006 5/5/2006 3/29/2007 6/27/2007 9/19/2007 12/19/2007 12/19/2007 12/19/2008 3/6/2008 6/18/2008 9/10/2008 3/4/2009 8/27/2009 8/27/2009 8/27/2009 9/12/2010		<50 <25 <25 <25 <50 <50 <50 <50 <50 <50 <50 <50 <50 <5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <sup>3</sup> <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<ul> <li>&lt;0.5</li> <li>&lt;0.5</li> <li>&lt;1.5</li> </ul>	<1.0 <1.0 <1.0 <1.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0		<5.0 <5.0 <5.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5
Post excavation	7/7/2005 10/19/2005 1/13/2006 5/5/2006 7/19/2006 10/5/2006 3/29/2007 9/19/2007 9/19/2007 3/6/2008 9/10/2008 12/10/2008 12/10/2008 12/10/2008 12/10/2009 6/3/2009 8/27/2009 3/11/2010 9/22/2010		<50 <25 <25 <25 <25 <50 <50 <50 <50 <50 <50 <50 <50 <50 <5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <sup>3</sup> <0.5; <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5	<1.0 <1.0 <1.0 <1.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0		<5.0 <5.0 <5.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5
Post excavation	7/7/2005 10/19/2005 1/13/2006 5/5/2006 5/5/2006 10/5/2006 3/29/2007 6/27/2007 9/19/2007 3/6/2008 9/10/2008 3/4/2009 8/27/2009 8/27/2009 8/27/2009 9/22/2010 4/19/2011 9/30/2011		<50 <25 <25 <25 <50 <50 <50 <50 <50 <50 <50 <50 <50 <5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <sup>3</sup> <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<ul> <li>0.5</li> <li>0.5</li> <li>0.5</li> <li>1.5</li> <li>1.5</li></ul>	<1.0 <1.0 <1.0 <1.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0		<5.0 <5.0 <5.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5
Post excavation	7/7/2005 10/19/2005 1/13/2006 5/5/2006 7/19/2006 10/5/2006 3/29/2007 9/19/2007 9/19/2007 3/6/2008 9/10/2008 12/10/2008 12/10/2008 12/10/2008 12/10/2009 6/3/2009 8/27/2009 3/11/2010 9/22/2010		<50 <25 <25 <25 <25 <50 <50 <50 <50 <50 <50 <50 <50 <50 <5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <sup>3</sup> <0.5; <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5 <1.5	<1.0 <1.0 <1.0 <1.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0		<5.0 <5.0 <5.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5
Post excavation	7/7/2005 1/13/2006 5/13/2006 5/15/2006 7/19/2006 7/19/2006 6/27/2007 9/19/2007 12/19/2007 12/19/2007 3/6/2008 12/10/2008 3/4/2009 9/2/2011 9/3/2011 12/6/2011 12/6/2011 12/6/2011		<50 <25 <25 <25 <50 <50 <50 <50 <50 <50 <50 <50 <50 <5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 ° <0.5 ° <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<ul> <li>\$\psi_5\$</li> </ul>	<1.0 <1.0 <1.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0		<5.0 <5.0 <5.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<ul> <li>Q.5</li> <li>—</li> <li>Q.5</li> <li>—</li> <li>Q.5</li> <li>—</li> <li>Q.5</li> <li>—</li> <li></li></ul>
Post excevation	7/7/2005 1/13/2006 5/5/2006 7/19/2005 5/5/2006 7/19/2006 3/29/2007 6/27/2007 6/27/2007 1/9/2007 1/9/2007 1/9/2008 1/9/2008 3/4/2009 6/7/2009 8/27/2009 3/4/2011 1/9/2011 1/9/2011 1/9/2011 1/9/2011 1/9/2011 1/9/2011		<50 <25 <25 <25 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50 <50	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5° <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	<1.0 <1.0 <1.0 <1.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0		<5.0 <5.0 <5.0 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<ul> <li>Q.5</li> <li>—</li> <li>Q.5</li> <li>—</li> <li>Q.5</li> <li>—</li> <li>Q.5</li> <li>—</li> <li></li></ul>



# Table 3 Summary of Groundwater Monitoring Analytical Results - Petroleum Hydrocarbons Former Olympian Service Station 1435 Webster Street

Alameda, California

Well ID	Sample	TPHd	TPHg		В	т	E	X	MTBE	TRPH	DIPE	TBA	1,2-DCA
	Date			С		ons in micro		liter (µg/L)					
	SL	100	100		1.0	40	30	20	5.0			12	0.5
MW-7	3/29/2007		840		<b>940</b> 50.8	<b>4,300</b> 9.33	<b>760</b> 2.54	<b>7,100</b>	<b>1,300</b> 39.9		<0.5	<10	2.26
IVI VV-7	6/27/2007		270		126	<0.5	7.11	<1.5	94.4		0.550	58.4	6.21
	9/19/2007		191	4	0.5	<0.5	5.38	<1.5	49.6		< 0.5	28.5	4.37
	12/19/2007		54	4	<0.5	<0.5	< 0.5	<1.5	11.4		<0.5	<10	1.09
	3/6/2008		<50		<0.5	<0.5	<0.5	<1.5	4.83		<0.5	<10	0.59
	6/18/2008		<50		0.840	<0.5	0.500	<1.5	52.5		<0.5	15.3	5.70
	9/10/2008		55	4	< 0.5	<0.5	<0.5	<1.5	15.3		<0.5	<10	1.98
	12/10/2008		<50		<0.5	<0.5	<0.5	<1.5	2.43		<0.5	<10	<0.5
	3/4/2009		<50		<0.5	<0.5	<0.5	<1.5	0.530		<0.5	<10	<0.5
	6/3/2009		<50		0.62	<0.5	<0.5	<1.5	5.2		<0.5	<10	<0.5
	8/27/2009		<50		< 0.5	<0.5	<0.5	<1.5	4.8		<0.5	<10	0.55
	3/11/2010		<50		<0.5	<0.5	<0.5	<1.5	0.73		<0.5	<30	<0.5
	9/22/2010		<50		<0.5	<0.5	<0.5	<1.5	3.9		<0.5	<5.0	0.64
	4/19/2011		<50		<0.5	<0.5	<0.5	<1.5	2.0		<0.6	<5.0	0.04
	9/30/2011		<50 <50		<0.5	<0.5	<0.5	<1.5	4.3		<0.6	<5.0 <5.0	
	10/26/2011		<50 <50		<0.5	<0.5	<0.5	<1.5	<0.5		<0.5	<5.0 <5.0	
	12/6/2011		<50 <50		<0.5	<0.5	<0.5	<1.5	<0.5		<0.5	<5.0 <5.0	
	9/5/2012		<50 <50		<0.5	<0.5	<0.5	<1.5	2.4		<0.5	<5.0 <5.0	
	7/11/2013		<50 <50		<0.5	<0.5	<0.5	<1.5	2.4		<0.5	<5.0 <5.0	
	7/11/2013		<b>430</b>		40.5	<0.5	40.5	<1.5	2.1		<b>40.5</b>	₹3.0	
MW-8	4/6/2007		27,000		2,460	1,520	210	1,810	16,000		24.3	1,050	459
	6/27/2007		20,000		2.460	382	611	1.040	7.310		11.1	3,400	319
	9/19/2007		20,400	4	814	16.2	219	21.6	10,300		<4.40	7,080	194
	12/19/2007		14,100	4	426	10.6	115	22.4	12,700		25.0	864	289
	3/6/2008		19,000	5	639	19.5	268	152	11,200		<4.4	<88	227
	6/18/2008		5,800	4	496	11.7	258	24.4	9,730		15.7	468	209
	9/10/2008		9,900		299	11.1	73.0	13.6	11,600		27.1	1,670	240
	12/10/2008		6,900		477	3.98	57.9	22.6	11,600		23.1	634	287
	3/4/2009		8,500	4	168	1.35	17.3	8.59	8,190		7.00	2,050	238
	6/3/2009		11,000	5	490	3.90	57	16	14,000		< 0.5	<10	310
	8/27/2009		5,400	5	340	8.3	67	37	8,900		21	2,900	300
	3/11/2010		7,900	5	660	3.7	100	28.3	5,800		18	1,100	150
	9/22/2010		4,700	4	1,100	<44	230	<132	5,700		<44	470	120
	4/19/2011		67	6	<0.5	<0.5	0.83	<1.5	20		<0.5	<5.0	120
				5									
	9/30/2011		2,500	5	140	2.0	38	5.3	5,600		8.2	<5.0	180
	10/26/2011		6,900		3.7	<0.5	0.59	<1.5	6,600		16	<440	
	12/6/2011		2,100	5	4.3	0.52	0.56	<1.5	10,000		21	590	
	9/5/2012		590	4	99	1.1	20	4.9	510		11	3,800	
	7/11/2013		1,300		260	10	89	33	80		10	3,200	
MW-9	8/27/2009		<50		< 0.5	<0.5	< 0.5	<1.5	12		<0.5	<10	0.76
	12/10/2009		<50		< 0.5	0.50	<0.5	<1.5	4.8		<0.5	<5.0	< 0.5
	3/10/2010		<50		<0.5	<0.5	<0.5	<1.5	3.8		<0.5	<30	<0.5
	6/10/2010		<50		< 0.5	<0.5	< 0.5	<1.5	7.4		<0.5	<5.0	0.6
	9/22/2010		<50		< 0.5	<0.5	< 0.5	<1.5	1.6		<0.5	<5.0	<0.5
	4/19/2011		<50		< 0.5	<0.5	< 0.5	<1.5	8.7		< 0.5	<5.0	
	9/30/2011		<50		< 0.5	<0.5	<0.5	<1.5	<0.5		<0.5	<5.0	<0.5
	10/26/2011		<50		< 0.5	<0.5	< 0.5	<1.5	<0.5		< 0.5	<5.0	
	12/6/2011		<50		< 0.5	<0.5	< 0.5	<1.5	<0.5		< 0.5	<5.0	
	9/5/2012		<50		<0.5	<0.5	<0.5	<1.5	<0.5		<0.5	<5.0	
	7/11/2013		<50		<0.5	<0.5	<0.5	<1.5	<0.5		<0.5	<5.0	
	•												

Notes:

TPH d = Total Petroleum Hydrocarbons as Diesel (EPA Method 8015)

TPHg = Total Petroleum Hydrocarbons as Gasoline by EPA Method 8015, after July 2005 by EPA 8280

STEX = Benzene, Toluene, Ethylbenzene, Xylenes by EPA Method 8020, after July 2005 by EPA 8280

STEX = Benzene, Toluene, Ethylbenzene, Xylenes by EPA Method 8020, after July 2005 by EPA 8280

Fuel Additives = Methyl-set-buyl ether (MTRE)—Di-capropyl ether (DIPE), tert-Buyl alcohol (TBA), 1,2-Dichloroethane (1,2-DCA) by EPA Method 82808

TRPH = Total Recoverable Petroleum Hydrocarbons

× = Concentration less than laboratory reporting limit

= Not Analyse.

\*\*In Concentration Index of Coronatogram pattern

\*\*Concentration EPA Methyl 45 (SEA) Methyl 45 (SEA) Methyl 45 (SEA)

\*\*In Concentration Less Methyl 45 (SEA) Methyl 45 (SEA) Methyl 45 (SEA)

\*\*In Concentration Less Methyl 45 (SEA) Methyl 45 (SEA) Methyl 45 (SEA)

\*\*In Concentration Less Methyl 45 (SEA) Methyl 45 (SEA)

\*\*In Concentration Less Methyl 45 (SEA) Methyl 45 (SEA)

\*\*In Concentration Less Methyl 45 (SEA) Methyl 45 (SEA)

\*\*In Concentration Less Methyl 45 (SEA) Methyl 45 (SEA)

\*\*In Concentration Less Methyl 45 (SEA) Methyl 45 (SEA)

\*\*In Concentration Less Methyl 45 (SEA)

\*\*In

2 = Confirmed by EPA Method 8260

\* Confirmed by EPA Method 8250
3 - Tolumen was destended 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 tolunes (0.81 ppb) in method blank and the sample results were less than 5 times in the blank (EPA, Laboratory Data Validian Functional Guidelines for Evaluating Organics Analyses, December 1999).
\* TPH action walue is primarily due to individual peaks / non-target compounds within gascoline quantitative range.
\* TPH value due to individual peak(s) (MTBE and/or TBA) within gascoline quantitative range.

<sup>6</sup> = Does not match pattern of reference gasoline standard: hydrocarbons in the range of CS-C12 quantified as gasoline.
ESLs = Environmental Screening Levels (Table F-1a), groundwater is a current or potential drinking water resource (CRWQCB, Interim Final, November 2007; revised May 2008).

SSTLs = site-specific treatment levels calculated in the Updated Site Conceptual Model, Health Risk Assessment, Feasibility Study, and Corrective Action Plan (TEC 2010).

bold = constituent exceeds SSTL highlighted row = most recent data



## Table 4 Summary of Groundwater Analytical Results - Dissolved Metals

1435 Webster Street Alameda, California

Sample ID	Date	Fe	Fe(II)	Cr	Cr(VI)	As	Se
ID	Sampled		concentrat	ions in micr	ograms per	liter (ug/L)	
	ESL	NA	NA	50	11	36	5
MW-2	4/19/2011	25	<100	<0.5	<0.5	1.1	<1.0
	10/26/2011	24	200	<0.5	<10	1.9	<1.0
	12/6/2011	57	120	<0.5	<10	1.7	<1.0
	8/20/2013	2.000	190	5.5	<0.5	2.3	<1.0
,		,					
MW-3	4/19/2011	200	<100	3.9	5.0	0.46	<1.0
	10/26/2011	91	<100	2.9	18.0	0.81	<1.0
	12/6/2011	510	<100	3.4	<10	<0.3	<1.0
	8/20/2013	150	140	2.2	1.7	<0.3	<1.0
,	J, LO/ LO 10	130	140	2.2	1.7		71.0
MW-4	4/19/2011	9.3	<100	5.2	6.7	0.69	<1.0
11111 4	10/26/2011	9.3 40		2.7	17.0	1.0	<1.0
	12/6/2011	-	<100			0.31	<1.0
	8/20/2013	110	<100	1.6	<10	<0.3	<1.0
,	0/20/2013	140	<100	1.6	1.4	<0.3	<1.0
MW-6	4/19/2011		400	0.5	٥.5	1.1	<1.0
IVI VV-O		9.9	<100	<0.5	<0.5		_
	10/26/2011	7	<100	0.5	<10	1.0	<1.0
	12/6/2011	39	<100	0.5	<10	<0.3	<1.0
ļ	8/20/2013	34	<100	0.62	<0.5	<0.3	<1.0
MW-7	4/19/2011	1.5	<100	<0.5	<0.5	1.4	<1.0
	10/26/2011	12	220	1.7	<10	2.0	<1.0
	12/6/2011	37	<100	1.5	<10	1.1	<1.0
	8/20/2013	29	<100	0.70	0.56	1.8	<1.0
MW-8	4/19/2011	2,100	1,200	<0.5	<0.5	4.4	<1.0
	10/26/2011	2,000	2,800	<0.5	<10	5.6	<1.0
	12/6/2011	5,600	<100	<0.5	<10	7.2	<1.0
	8/20/2013	2,800	2,200	<0.5	<0.5	6.3	<1.0
MW-9	4/19/2011	4.8	<100	<0.5	<0.5	1.7	<1.0
	10/26/2011	3	<100	<0.5	<10	1.3	<1.0
	12/6/2011	34	<100	<0.5	<10	0.38	<1.0
	8/20/2013	38	<100	<0.5	<0.5	0.34	<1.0

#### Notes:

Fe, Cr, As, Se = total dissolved iron, chromium, arsenic and selenium by EPA Method 6020.

Cr(VI) = hexavalent chromium by method SW7199.

Fe(II) = ferrous iron by method H8146

ESL = Environmental Screening Levels. San Francisco Bay Regional Water Quality Control Board, Interim Final, February 2013, 2013 Tier 1 ESLs (screening levels resulting from default settings).

NA = not applicable

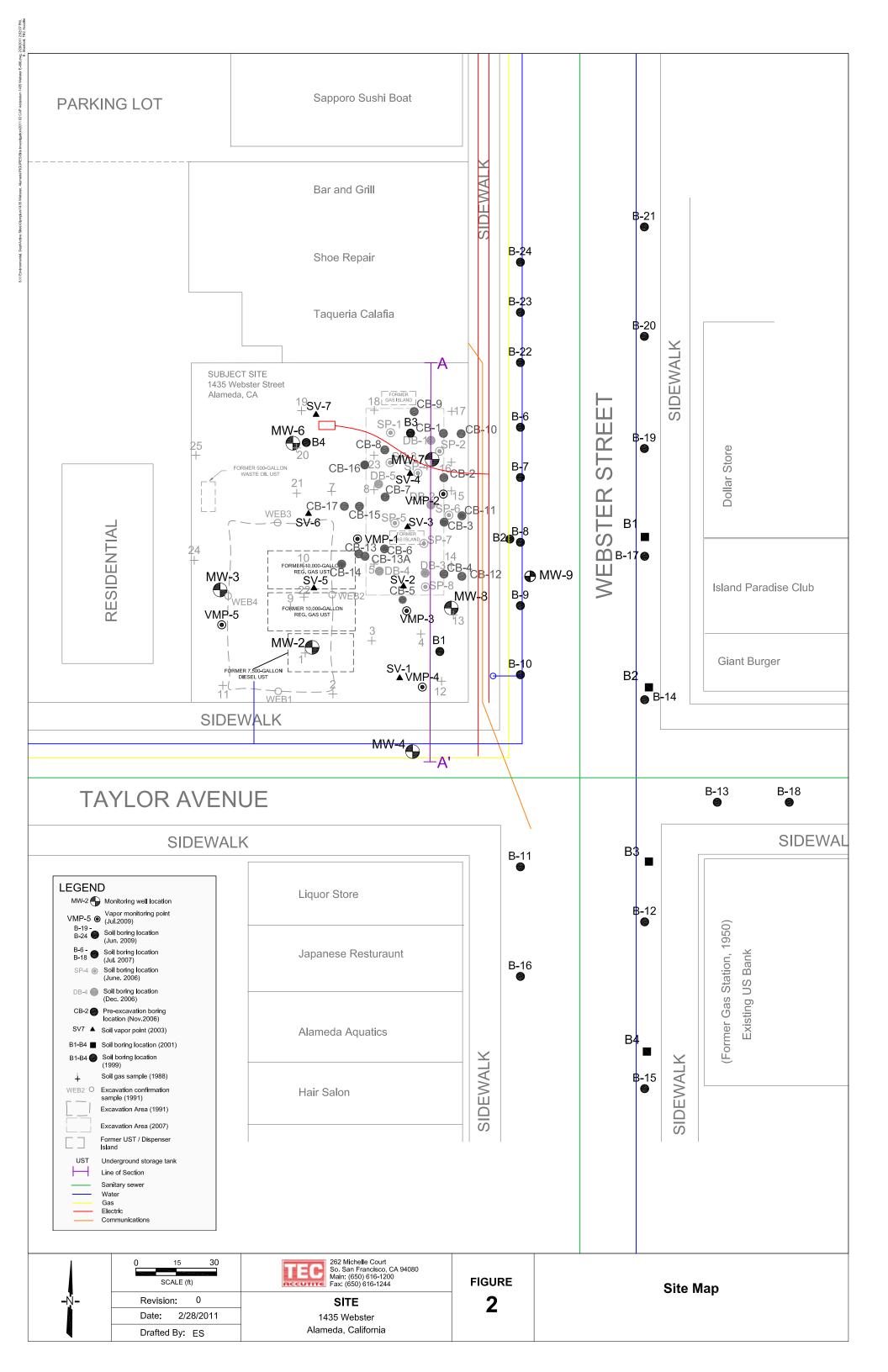
**BOLD** = detected concentration exceeds ESL

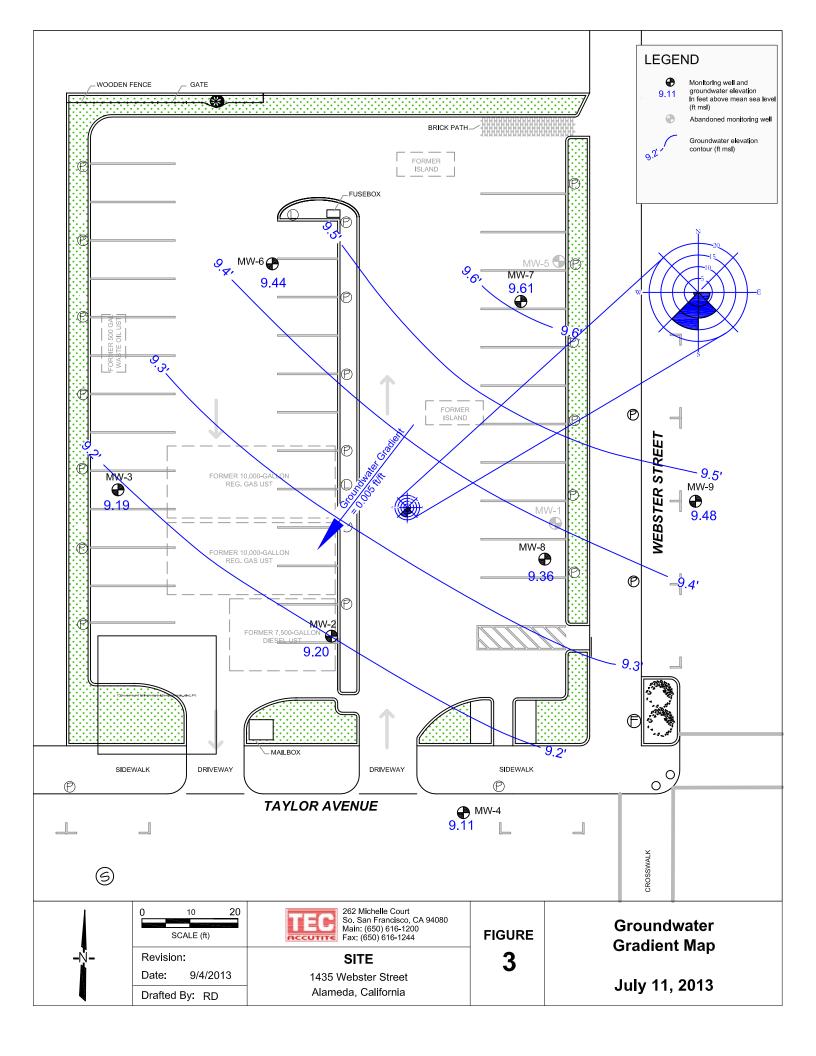


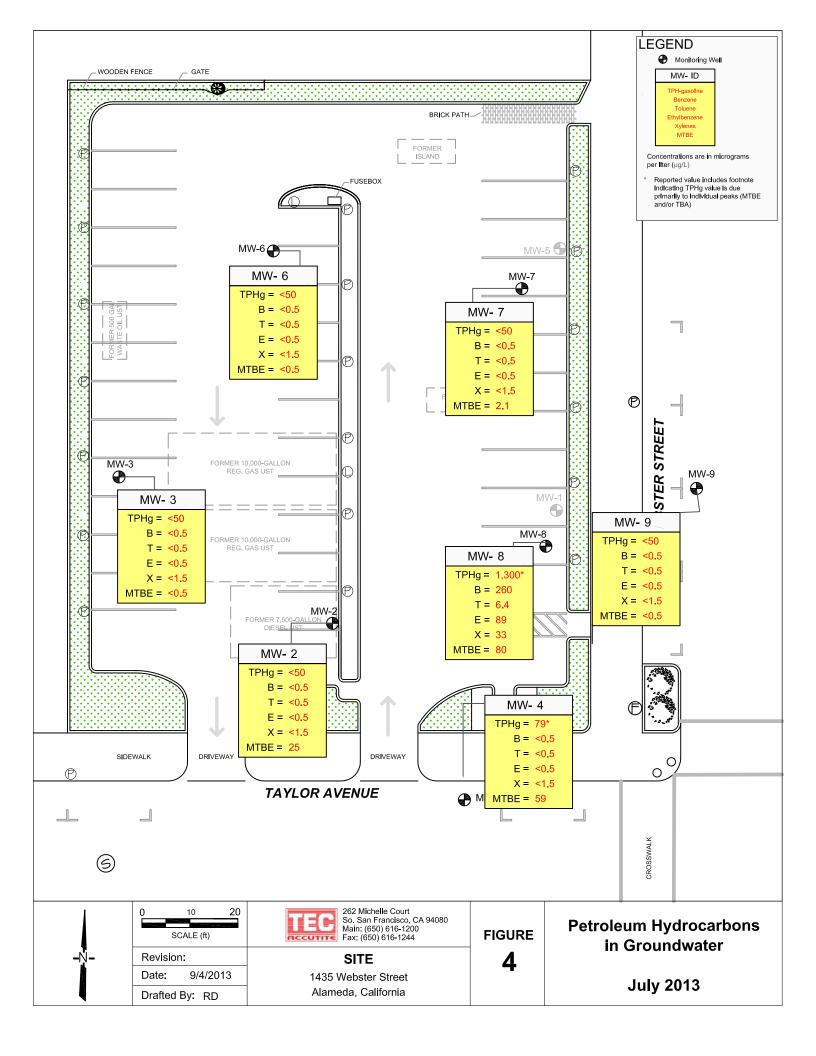
## **FIGURES**



Drafted By: AK

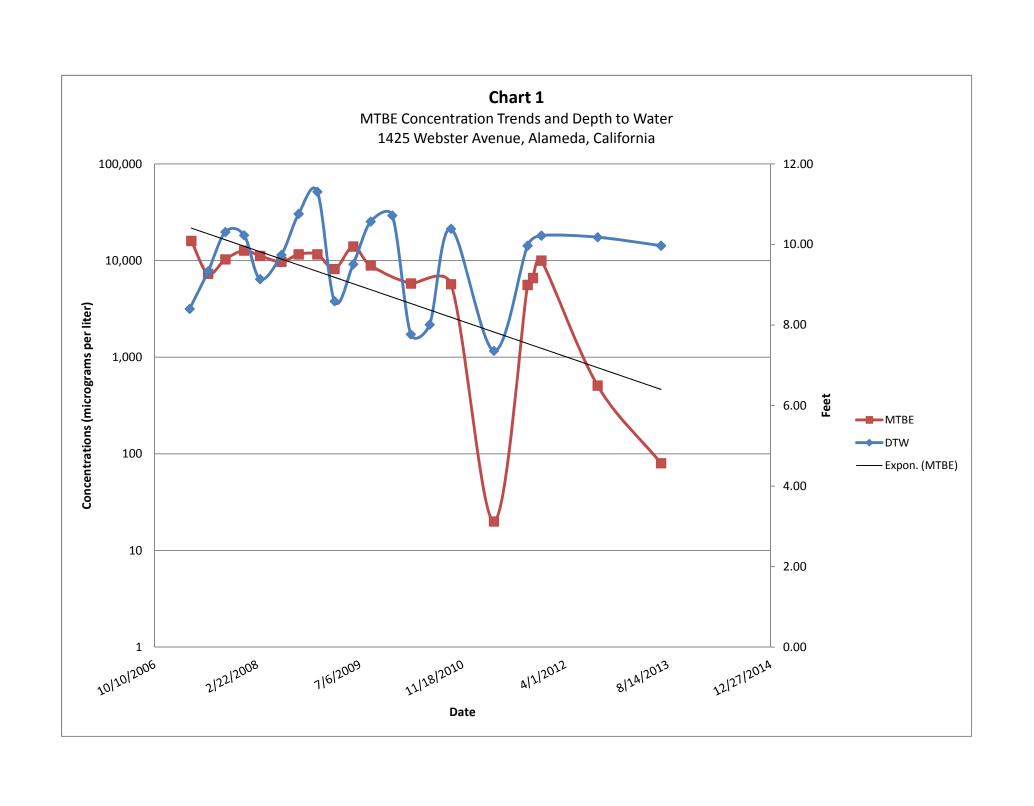






## **CHART**





## **ATTACHMENT A**

FIELD DATA SHEETS



		TEC	ACCUTI	ΓΕ Well I	ell Data Sheet						
Date: 7   11   13	Site Name: 1435	Webster			Project #: (	E-608	-1-13	Sampler: BD			
Event: SAMP / D3	Site Address: Al	ameda			Client: Oly	/mpian					
10 10 10 10 10 10 10 10 10 10 10 10 10 1		De die Jaal e		EASUREM	A STATE OF THE STA	2 (1) (1) (1) (2) (1) (2) (1) (2) (1) (2) (2)	WELL	COMMENTS			
WELL ID	TIME	DTP	PT	DTW	Historic DTB date; 6/3/09	Today's DTB	DIAMETER	(i.e. pressurized or maintenance req.)			
MW-2	0845			10,60	19.42		2"				
MVV-3	0844			10.60	21.85		2"				
MVV-4	0849		6	23101	19.76		2"				
MVV-6	0843			10.83	19.34		2"				
MVV-7	0847			9.32	19.81		4"				
MVV-8	0846			9.97	20.03		4"				
MW-9	0904			9,35	19.94		4"				

Abbreviations:

TEC Accutite Water Sample Field Data Sheet						
Project #: E-608-1-13	Purged By:	BD	***************************************	Well ID:	MW-2	
Client Name: Olympian	: BD		Sample ID:	MW-2		
Location: 1435 Webster		**************************************		QA Samples	M M M	
Purge Information						
Date: 7/11/13	r): 1049 End (2400hr): C			): 1056		
Depth to Bottom: 19.42	Depth to Wa	ter: 10.60 Casing Diameter: 2"			neter: 2"	
DTB - DTW: 882	Purge (gal):			x 3 volumes: りり		
Time Volume Temp (2400hr) (gal) (°C)	Field Meas Conductivity (µmhos/cm)	surements pH (units)	Turbidity (NTU)	(0/2- D.O. (mg/l)	Depth (ft)	
- initial 19.9	795	6.29	10m	clow	ANTERIOR CONTRACTOR OF THE TAIL	
1051 1,5 20.0	798	6.44	4.(	cloudy	11.55	
7 DS4 3.0 19.8	797	6.62	11	(1)	12.00	
1056 4.5 196	798	6.72	10	l (	11.90	
	<u> </u>					
	Sample Ir	nformation		•		
Date: 7/11/3 Time: //	0()	DTW: 1 0.	8-5	Turbidity:	low	
Odor: None	Analysis:	metals & 8260	Sample Ves Preservative		As & I Poly & HNO3	
Purging Equipment			Sampling	Equipment		
submersible pump peristaltic		17hr A		peristaltic		
bailer (disposable) bailer (st. steel) bailer (disposable) bailer (st. steel) dedicated bladder pump						
other: other:						
Well Integrity: 900 d Lock: 100						
Note: To convert water column height the water column height by: .17 for 2"						
Signature: Ban A	Signature: Bein Dellin					

TEC Accutite Water Sample Field Data Sheet							
Project #: E-608-1-13	Well ID:	MW-3					
Client Name: Olympian	Sampled By	: BD		Sample ID:	MW-3		
Location: 1435 Webster			QA Samples	3; ===			
, , Purge Information							
Date: 7/11/13	r): 1029 End (2400h			): [03]			
Depth to Bottom: 21.85	Depth to Wa	ter: (0,60 Casing Diameter: 2"			neter: 2"		
DTB - DTW: 11.25	Purge (gal):	1,91		x 3 volumes: 5.74			
kangan pilapan pangan p	Field Mea	surements	di kamanin ka di kaman dan dan di katabah ka di kada da di sa	0.1.	THE RESIDENCE AND ADDRESS OF THE PERSON NAMED OF THE		
Time Volume Temp (2400hr) (gal) (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	C@ V  D.O. /(mg/l)	Depth (ft)		
initial 20.3	482	6.16	lon	clear			
1031 2.0 20.4	502	6.05	11	closed	11,25		
(D34 4, D 20.4	SU	605	11	$n^{-1}$	11,40		
1037 6.0 20.4	20.4 517 6.09 1				11,45		
		,					
	Sample Ir	nformation					
Date: 7 11 15 Time: 1	)37	DTW:		Turbidity:	10w		
Odor: 1me	Analysis:	rnetals & 8260	Sample Ves Preservativ	e: HCI	As & 1 poly		
Purging Equipment			Sampling	Equipment			
submersible pump peristalt	submersible pump peristaltic pump						
bailer (disposable) bailer (st. steel) bailer (disposable) bailer (st. steel) bailer (disposable) bladder pump							
other:other							
Well Integrity: 900d Lock: NO							
Note: To convert water column height to total amount of gallons in one well volume, multiply the water column height by: .17 for 2" well diameter, .65 for 4", 1.47 for 6", or 2.62 for 8".							
Signature: Brism Down							

TEC Accutite Water Sample Field Data Sheet							
Project #: 뎐	-608 -	1-13	Purged By:	BD		Well ID:	MW-4
Client Name:	: Olympian		Sampled By:	BD		Sample ID:	MW-4
Location:	1435 Webste	r				QA Samples	in the last last
,   Purge Information							
Date: 7/11/)> Start (2400hr)			r):       End (2400hr):			): 1120	
Depth to Bot	tom: 19.76		Depth to Wa	ater: 10,19 Casing Diameter: 2			neter: 2"
DTB - DTW:	9.57		Purge (gal):	1.63		x 3 volumes: 4,88	
Time	Volume	Temp	Field Meas	surements pH	Turbidity	color D.O.	Depth
(2400hr)	(gal)	(°C)	(µmhos/cm)	(units)	(NTU)	(mg/l)	(ft)
Protect of Exclude SHARMONTAL COLD.	initial	19.3	366	7.23	101	clear	
	1.5	19.2	401	6.74	(1	cleer	16.90
1120	WEL	- WEN	TDRY	$(o) \sim$	2.5 G	ALLONS	PURGED
		<u> </u>					
	1	indicario per serippunda fere minera perferencia	Sample In	formation		entrancia de la conferencia del la conferencia del la conferencia del la conferencia de la conferencia del	
Date: 7/1/	/3	Time: 121		DTW: 10.2	22	Turbidity:	10w
Odor: Ma	N. Jane		Analysis:	netals d 8260	Sample Ves Preservative	sels: 3 VC e: HCl	Plog & 1 poly
	Purging E	quipment	<del>delyndesigt omgestjolene engeljone od freg</del> e		Sampling	Equipment	Marie Marie Color - American Marie Carlot and Color American Ameri
1 ' 4	ible pump _					peristaltic	
★ bailer (disposable)       bailer (st. steel)         ★ bailer (disposable)       bailer (st. steel)         ★ dedicated       bladder pump         dedicated       bladder pump							
other: other:							
Well Integrity: 0001 Lock: NO							
Note: To co	Note: To convect water column height to total amount of gallons in one well volume, multiply the water column height by: .17 for 2" well diameter, .65 for 4", 1.47 for 6", or 2.62 for 8".						
	THE OWNERS OF THE PARTY OF THE			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Signature: Brian Dollity							

TEC Accutite Water Sample Field Data Sheet						
Project#: E-608-1-13 Purged By: BD Well ID: MW-6						
Client Name: Olympian	Sampled By	: BD		Sample ID:	MW-6	
Location: 1435 Webster				QA Samples	to the last two	
Purge Information						
Date: 7/11/13	Start (2400h	r): 1002	473043	End (2400hr	1:1009	
Depth to Bottom: 19.34	Depth to Wa	ter: 10,83 Casing Diameter: 2			neter: 2"	
DTB - DTW: 8-51	Purge (gal):	1.45		x 3 volumes	:4.34	
Time Volume Temp	Field Mea	surements pH	Turbidity	Colar	Depth	
(2400hr) (gal) (°C)	(µmhos/cm)	(units)	(NTU)	/(mg/l)	(ft)	
101tial 20.3		634	(0W	cleov		
1005 15 10,4	112	599	11	cloudy	11,85	
1007 30 20.4	11 >	5,94	1\	1)	12.10	
1000 13 20.4	59 4,5 20.4 415 5,99 11					
					- Marija Mar	
NOTIFICATION OF THE PROPERTY O						
		nformation	2 1		1 /	
Date: ( II ) Time: (C	15	metals &	20 Sample Ves	Turbidity: sels: 3 VC	As & 1 poly	
Odor: nove	Analysis:	8260	Preservative	e: HCl	& HN03	
Purging Equipment			Sampling	Equipment		
submersible pump peristalti	submersible pumpperistaltic pump					
bailer (disposable) bailer (st dedicated bladder p	bailer (disposable) bailer (st. steel) dedicated bladder pump					
other:other:					•	
Well Integrity: 0706d Lock: NO						
Note: To convert water column height the water column height by: .17 for 2'	t to total amour	nt of gallons in				
Signature: Brean Dolly						

TEC Accutite Water Sample Field Data Sheet							
Project#: 5-608-1-13 Purged By: BD Well ID: MW-7							
Client Name: Olympian San	npled By: BD			Sample ID:	MW-7		
Location: 1435 Webster				QA Samples			
, 1	Purge Information						
	rt (2400hr):	<del></del>					
Depth to Bottom: 19.81 Dep	oth to Water:	9.32		Casing Diameter: 4"			
h	ge (gal): 💪	82		x 3 volumes: 20, 46			
F	ield Measuren	nents		6.6. lor	<del>lannas (a) k a zalan Kinas da zajak (a) k a (a) (</del> a)		
	•	pH T mits)	Furbidity (NTU)	(mg/l)	Depth (ft)		
			0w	clear	*************		
	28 m 5 Co.	.54 1 ,93	١,	1	14,20		
		03	11	1)	15.50		
		08	( .	l.c	16.50		
				· · · · · · · · · · · · · · · · · · ·			
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	Sample Inform	ation		gannes programme and a second second			
Date: 7 11 17 Time: 1253		: 9.60		Turbidity:	1000		
Odor: AM Ana	meto alysis: 8		mple Vess eservative	sels: 3 VO : HCI	As & 1 Poly & HNO3		
Purging Equipment		S	Sampling E	Equipment			
🔀 submersible pump 🔃 peristaltic pum				_ peristaltic			
bailer (disposable)bailer (st. steel)bailer (disposable)bailer (st. steel)					•		
dedicatedbladder pumpdedicatedbladder pump other:							
Well Integrity: 000 d Lock : 100							
Note: To convert water column height to total amount of gallons in one well volume, multiply							
the water column height by: 17 for 2" well diameter, .65 for 4", 1.47 for 6", or 2.62 for 8".							
Signature: Buan Down							

TEC Accutite Water Sample Field Data Sheet						
Project #: (= -608-1-13	Purged By: BD	Well ID: MW-8				
Client Name: Olympian	Sampled By: BD	Sample ID: MW-8				
Location: 1435 Webster		QA Samples:				
Purge Information						
Date: 7/11/13	End (2400hr): 1142					
Depth to Bottom: 20.03	Depth to Water: 997	97 Casing Diameter: 4"				
DTB - DTW: 10,06	Purge (gal): 6.54	x 3 volumes:   9.62				
Time Volume Te	Turbidity D.O. Depth (NTU) (mg/l) (ft)					
- initial 20 1135 6.5 21.		11 11 14.60				
1140 13.0 20	201 / 20	1 18,40				
	· · · · · · · · · · · · · · · · · · ·	ALLONS PURGED				
MATERIAL RESIDENCE AND A STORY OF STORY AND						
7/11/17	Sample Information	Tunkidiku   As /				
Date: 7 11 13 Time: 125 DTW: 11. 10 Turbidity: 10W  Metals & Sample Vessels: 3 VOAs & 1 PDY  Odor: Structure: HCI 1 HN03						
Purging Equipment  Submersible pump peristaltic pump bailer (disposable) bailer (st. steel) dedicated bladder pump other:  Sampling Equipment submersible pump peristaltic pump bailer (disposable) bailer (st. steel) dedicated bladder pump other:						
Well Integrity: god Lock: $\Lambda_0$						
Note: To convert water column height to total amount of gallons in one well volume, multiply the water column height by: .17 for 2" well diameter, .65 for 4", 1.47 for 6", or 2.62 for 8".						
Signature: Brian Doluty						

TEC Accutite Water Sample Field Data Sheet							
Project #: E-608-1-13 Purged By: BD						Well ID:	MW-9
Client Name:	Olympian		Sampled By	: BD		Sample ID:	MW-9
Location:	1435 Webste	er	· · · · · · · · · · · · · · · · · · ·	<del></del>		QA Samples	S; ***
	Purge Information						
Date: 7/11	113		Start (2400h	r): 0917 End (2400hr): 0937			): 0932
Depth to Bot	tom: 19.94	···	Depth to Wa	iter: 9, 35 Casing Diameter: 4"			
DTB - DTW:	10.59	·	Purge (gal):	6.88		x 3 volumes	: 20,65
Field Measurements  Time Volume Temp Conductivity pH Turbidity (2400hr) (gal) (°C) (µmhos/cm) (units) (NTU)						COLO p.o. (mg/l) Clev	Depth (ft)
0922	70	20,8	38-2	5.86	100	1	
0927	14.0	20. S	390	5 9 D			13.68
0932	21.0	20,3	394	5.91	(.	11	14.71
		<del>•</del>					
RECORDS OF THE PROPERTY OF THE							
,	1		Sample Ir	nformation			18
Date: 7/	11/15	Time: $O^q$	38	DTW: 10. 1	Sample Ves	Turbidity:	DAS & 1 pily
Odor: NOY			Analysis:	8260	Preservative		9 HNO3 7
Expense in the contract of the	Purging E	quipment			Sampling	Equipment	i <del>pudania interia</del> (Intercutiónes mestantistico e m
	ible pump _		•	1	sible pump _		
					isposable) _ d	baller (st. bladder pul	
other: other:							
Well Integrity: 00 Lock: n0							
Note: To convert water column height to total amount of gallons in one well volume, multiply the water column height by: .17 for 2" well diameter, .65 for 4", 1.47 for 6", or 2.62 for 8".							
Signature: Brin Dohn							

#### TEC ACCUTITE Well Data Sheet Project #: E-608-1-13 Site Name: 1435 Webster Sampler: BD Site Address: Alameda Client: Olympian MEASUREMENT COMMENTS WELL DTP PT DTW Historic Today's WELL ID TIME (i.e. pressurized or DTB DTB DIAMETER maintenance req.) date: 6/3/09 11.09 MW-2 19.42 2" 11.10 2" MW-3 21.85 10.71 2" MW-4 19.76 11.35 MW-6 19.34 2" 33.6 MW-7 19.81 4" 10,46 4" MW-8 20.03 9.81 MW-9 19.94 4"

Abbreviations:

V	TEC Accutite /ater Sample Field Data Sh	neet						
Project #: 6-608-1-13	Purged By: BD	Well ID:	MW-2					
Client Name: Olympian	Sampled By: BD	Sample ID:	MW-2					
Location: 1435 Webster		QA Samples	:					
	Purge Information	n mangangan kemangan dipanggan dan membandak dipangkan pambanggan palaman menganggan berada di	ANNE ANN AND ANN AND ANN AND AND AND AND AND					
Date: 8 20 13	ate: 8 20 13 Start (2400hr): 035 End (2400hr): 1547							
Depth to Bottom: 19.42	Depth to Water: 11.0 🧍	Casing Diam	. 3					
<u>ртв - ртw: 8, 33</u>	Purge (gal): \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	x 3 volumes	: 4.25					
king ang pagnang shahang kalan (pandahan tahan yay pagnan sa Mahili Mahali Mahadan manan mahaman manan manan ma	Field Measurements		S					
Time Volume Temp (2400hr) (gal) (°C)	Conductivity pH (µmhos/cm) (units)	Turbidity D.O. (NTU) (mg/l)	Depth (ft)					
1038 1.5 20.8	1430 7.43	brown 3.03						
1040 3.0 20.6	1433 7.41	4 3.21						
1042 4.5 20.5	1435 14	1 3.43						
	Sample Information	- Control of the Cont	Acceptantion party and published acceptance of the control of the					
Date: 8/20/1> Time: 10	ST DTW: 1/.	{   Turbidity: /	In .					
Odor: NONa	Dissolved mytals Analysis! Analysis!	Sample Vessels: 3.20 Preservative:	AS lamber we sept a inpreserved a lpoly					
Purging Equipment		Sampling Equipment	, , , , , , , , , , , , , , , , , , ,					
submersible pump peristaltic bailer (disposable) bailer (st.		sible pump peristaltic lisposable) bailer (st. s	* *1					
dedicated bladder pu	mp dedicate	dedicated bladder pump						
other:	other:		THE CONTRACT OF THE PROPERTY O					
Well Integrity: 9004	Lock: MD							
Note: To convert water column height the water column height by: .17 for 2"			I I POR UZI SERMA E INCHINI MANARAMANINI MADIFINI					
Signature: Brum Ddr	7							

		TEC A /ater Sample F	ccutite Field Data Sh	eet						
Project #: E − 6	08-1-13	Purged By:	BD		Well ID:	MW-3				
Client Name: Olyr	mpian	Sampled By	: BD		Sample ID:	MW-3				
Location: 1435	Webster		************************************		QA Samples	) was				
paragram and paragrams and an applicable and paragraphs and paragraphs and an applicable and an applicable and an applicable and applicable a	tana di manangan kejagan kangan di manangan di Manangan yang pelabagai da	Purge Int	formation							
Date: 8/20/13	3	Start (2400h	r): 100	<u> </u>	End (2400hr	): 1014				
Depth to Bottom:	21.85	Depth to Wa	ter: // //	0	Casing Dian	neter: 2"				
DTB - DTW: 10	75	Purge (gal):	1.83		x 3 volumes	: 5.40				
Field Measurements										
	lume Temp gal) (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)				
1009 2.	0 21.5	790	6.90	bisin	3.24					
1011 3.		792	6.89	r t	3,25					
1014 3	.5 21.1	794	691	( )	3.28					
				4						
			,							
			<del>•</del>							
	Marcon Company									
oh ala	- 8 P	Sample In	formation	r er		1 ch 1				
Date: 6 20 1	7 Time: ((	Dissolved med	DTW: 11.(	୬ > <sup>∉</sup> Sample Ves	Turbidity: ssels: 3-∀€	rAs 1 ambr d				
Odor: None	SDECTION OF THE PROPERTY .	Dissolved med Analysis:	3 (13/A 8260-	Preservativ	e: HGH	unpresenced				
	ırging Equipment				Equipment					
	ump peristaltic ble) bailer (st.		ı <i>'</i>		peristaltic					
,	bladder pu		bailer (disposable) bailer (st. steel) dedicated bladder pump							
other:			other:			AND THE RESIDENCE OF THE PROPERTY OF THE PROPE				
Well Integrity: (	7001	Lock: YY								
Note: To convert	water column height									
the water column r	neight by: .17 for 2"	wen diameter,	.00 101 4 , 1.4	+1 1010, OFZ	.UZ IUI O .					
Signature: 1	els mus	2000								

\	TEC Accutite Water Sample Field Data	ı Sheet							
Project #: E-608-1-13	Purged By: 🕪	Well ID: MW-4							
Client Name: Olympian	Sampled By:	Sample ID: MW-4							
Location: 1435 Webster		QA Samples:							
	Purge Information								
Date: 8 20 17	Start (2400hr): 124	59 End (2400hr): 12(3							
Depth to Bottom: 19.76	Depth to Water: /()	Casing Diameter: 2"							
DTB - DTW: 9,05	Purge (gal): / S (	x 3 volumes: 4,62							
Field Measurements									
Time Volume Temp (2400hr) (gal) (°C)	Conductivity pH (µmhos/cm) (units)	Turbidity D.O. Depth (NTU) (mg/l) (ft)							
121 1.5 20.4	580 7.25	5 low-brown 3.15							
1210 WELL WENT	DRY @ ~2.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
COMMISSION OF STREET, AND DESCRIPTION OF STREET, AND S									
Date: 8/20/13 Time: 17	Sample Information  DTW: 1/  dissolved metals, hex.ch  Analysis: Provis \$260	n / 9 ) Turbidity: OW NOME Sample Vessels: 3-V⊖As / plly d / au - Preservative: HG Mproserves							
Purging Equipment	en e	Sampling Equipment							
submersible pump peristalti bailer (disposable) bailer (st		mersible pump peristaltic pump							
dedicated bladder p		er (disposable) bailer (st. steel) cated bladder pump							
other:	other:								
Well Integrity: 900 L	Lock: ND								
Note: To convert water column height the water column height by: .17 for 2'									
Signature: Brun Do	hutz	THE ACCOMPANY OF THE PROPERTY							

TEC Accutite Water Sample Field Data Sheet										
Project #: ⊆ -608 -	1-13	Purged By:	BD		Well ID:	MW-6				
Client Name: Olympian	·	Sampled By	: BD		Sample ID:	MVV-6				
Location: 1435 Webste	r				QA Samples	5:				
		Purge Inf	formation							
Date: 8 20 17		Start (2400h	····	5	End (2400hr	1:0952				
Depth to Bottom: 19.34		Depth to Wa	ter: 11.35		Casing Dian	neter: 2"				
DTB - DTW: 7.99		Purge (gal):			x 3 volumes	: 4.07				
Field Measurements										
Time Volume (2400hr) (gal)	Temp (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)				
0948 1.5	21.3	573	7.15	Tow	3.09					
0950 3.0	21.3	567	699	e l	3.24					
0952 4.0	21.3	571	6.94	11	3.40					
	=45.4 ·				***					
Date: 8/20/13	Time: 12	40.095	formation DTW: 12	.40	Turbidity:	W.				
Odor: Nnu		hex chron Metals, Analysis:	ne, dissolved Fergission	Sample Ves Preservativ	ssels: 3-V은 e: 카안	PAS I amber & I ro VMpreserved				
Purging E	quipment			Sampling	Equipment					
submersible pump					peristaltic					
<u>&gt; bailer (disposable)</u> dedicated	bailer (st. s bladder pun		bailer (di dedicate		bailer (st. bladder pui	ll.				
other:	_ Diaddel pui	<del>.</del>			•					
			The contradiction is a supply of the Ambert Potan spokes and		A CONTRACTOR OF THE PROPERTY O	ok do Nest Control de la maio de				
Well Integrity: 900 d	Jump haight	Lock: M	t of gallong in	one well vel	imo multiple	nacion del la (la 2 Ayung) (in la cultura de la cue proprio perquedi a como processió del .				
Note: To convert water co the water column height by										
Signature: Briw	Doll	A Commonweal			2000					

	Water Sample F	ccutite Field Data Sh	eet				
Project #: E-608-1-13	Purged By:	BD		Well ID:	MW-7		
Client Name: Olympian	Sampled By	: BD		Sample ID:	MW-7		
Location: 1435 Webster		······································		QA Samples	S: ~~		
EXXXVI (SOCCERT EXECUTE AND ADDRESS OF THE STATE OF THE S	Purge In	formation					
Date: 8 20 13 Start (2400hr): 110 End (2400hr): 1/25							
Depth to Bottom: 19.81	Depth to Wa	iter: 9.86	5	Casing Dian	neter: 4"		
DTB-DTW: 9,93	Purge (gal):	6.45		x 3 volumes	: 19,36		
BETTA - REL THE DESCRIPTION HARDESTANDS AND	Field Mea	surements	CE E CONTRACTOR DE LA CONT		2011110		
Time Volume Tem (2400hr) (gal) (°C	•	pH (units)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)		
1/15 6.5 21:	7 5947	7.55	100-cleer	0.35			
1120 13.0 21.	1 4876	7.52	( l	0.18			
1125 19.5 20.	8 3784	7.52	1/	0.22			
				·			
ezgysseptiangenestaniska gybby dar Euroko-Godinkous van bys selfunkin velks fra proproducerenis vedicina presentanism posturanism proproducerenis vedicina presentanism proproducerenis vedicina vedicina proproducerenis vedicina proproducerenis vedicina proproducerenis vedicina proproducerenis vedicina proproducerenis vedicina vedicina proproducerenis vedicina ved	Sample Ir	nformation					
Date: 8/20/13 Time:	1154	DTW: 10.7	19	Turbidity:	10W		
Odor: Slight	dissolved me Analysis: Fer	tals, hex chron room 8260-	<sup>№</sup> \$ample Ves Preservativ	sels: 3-∀€ e: ⊢G⊢	Aslamberd 1 unpreserved		
Purging Equipme			Sampling	Equipment			
submersible pump peris				peristaltic	i ii		
bailer (disposable) baile dedicated bladde	•		isposable) .d	bailer (st. bladder pur	i l		
other:	c t				·		
Well Integrity: 9 70 1	Lock: no	and an anticomplete fundamental services of the service of the services of the					
Note: To convert water column he water column height by: .17 fo	eight to total amour				golydd Philifeld Dallyn, maes ywn mei amegawy, ysgan amegydd		
the water column neight by: .17 to	or z well diameter,	.00 101 4 7, 1.4	+/ 101 0 , 01 2	, UZ IUI O .			
Signature: Brun Z	J-NO-C						

\$3.5 \$2.5

	TEC Accutite Water Sample Field Data	a Sheet						
Project #: F-608-1-13	•	Well ID: MW-8						
Client Name: Olympian	Sampled By: BD	Sample ID: MW-8						
	Campied By. BB							
Location: 1435 Webster QA Samples:								
Date: 6 20 13 Start (2400hr): 70 138 End (2400hr): 1148								
Depth to Bottom: 20.03	Depth to Water: ( )	1 .						
DTB - DTW: 9, 57	Purge (gal): 6,22							
bpoyding and scales and the Mile Obstructive and Physics and through the annex of the special and the control of the control o	Field Measurement							
Time Volume Tem (2400hr) (gal) (°C)	p Conductivity pH	<sup>-</sup> Turbidity D.O. Depth						
1142 6.0 21.	8 1107 696	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>						
1146 12.5 20,		6 11 0.14						
1148 WELL W'	ENT DROP (B)	~ 15 GAL LONS PURGED						
	Sample Information							
Date: 8/21/13 Time:	1241 DTW: 1	2.25 Turbidity: 100						
Odor: slight	hex Chrone, dissolv Analysis: Myak, 68266	2.25 Turbidity: W  Pld. Sample Vessels: 3-40As 1 poly & 1  Preservative: HCL in preserved						
Purging Equipme		Sampling Equipment						
submersible pump perisi bailer (disposable) bailer	taltic pump subn	mersible pump peristaltic pump '						
· · · · · · · · · · · · · · · · · · ·		bailer (disposable) bailer (st. steel) dedicated bladder pump						
other:								
Well Integrity: 900 0	Lock: /)/)							
Note: To convert water column he the water column height by: .17 fo	eight to total amount of gallon							
0 (	12 well diameter, .00 for 4"	, 1.47 101 0 , 01 2.02 101 0 .						
Signature: Brem D	Lolina							

TEC Accutite Water Sample Field Data Sheet										
Project #: E-608-1-13	Purged By:	BD		Well ID:	MW-9					
Client Name: Olympian	Sampled By	: BD		Sample ID:	MVV-9					
Location: 1435 Webster		QA Samples	S:							
	Purge In	formation			$\alpha$					
Date: 8 20 (13	r): 0916		End (2400hr	): 0926						
Depth to Bottom: 19.94	Depth to Wa	iter: P. 81		Casing Dian	neter: 4"					
DTB - DTW: 9.13 Purge (gal): 5.90 x 3 volumes: 17.80										
Field Measurements										
Time Volume Temp (2400hr) (gal) (°C)	Conductivity (µmhos/cm)	pH (units)	Turbidity (NTU)	D.O. (mg/l)	Depth (ft)					
0921 6.0 20.5	407	5,99	102	4.13	1203					
0929 120 20.3	400	5.93	11	3.60	13.48					
0929 15-0 20.2	389	5.91	( )	2.52	14.96					
	<u> </u>				OMANUS POR NATIONAL PROPERTY OF THE PROPERTY O					
Date: 8 20 13 Time: 09	22	nformation DTW: (	2	Turbidity:	100					
	Dissolved meta	als, hex. chrome	Sample Ves	ssels: 3-∀€	PASIAMEND, 1					
Odor: Nove	Analysis:ິ ′	-8260>	Preservativ	e: Het	unpreserved					
Purging Equipment  submersible pump peristaltion	numn	suhmers		Equipment peristaltic	numn					
bailer (disposable) bailer (st.				bailer (st.						
dedicated bladder pu	mp	dedicatedbladder pump other:								
other:		otner:								
Well Integrity: 900 d	Lock: MO	at the plant of the state of th	<del>in conservation d</del> escriptions	nggo, and torpering the relatives						
Note: To convert water column height the water column height by: .17 for 2"										
Signature: Brem	Plant	d self-publichase pur kompletingspielsbelgebellspielsbelges; sow any it experies allementer		Wilder and the second s						

## **ATTACHMENT B**

LABORATORY REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION





Tec Accutite 262 Michelle Ct South San Francisco, California 94080

Tel: (650) 616-1200 Fax: (650) 616-1244

Email: tecaccutite@gmail.com

RE: 1435 Webster

Work Order No.: 1307049

#### Dear Paul Dotson:

Torrent Laboratory, Inc. received 7 sample(s) on July 12, 2013 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 test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Patti Sandrock
QA Officer

July 23, 2013

Date

Total Page Count: 28 Page 1 of 28



**Date:** 7/23/2013

Client: Tec Accutite
Project: 1435 Webster
Work Order: 1307049

### **CASE NARRATIVE**

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.

Analytical Comment for 6010B, Note: The spikes in the MS/MSD for Iron are not recoverable. The sample concentration is greater than 4X the spike concentration. No corrective action is required.

Total Page Count: 28 Page 2 of 28



## **Sample Result Summary**

Report prepared for: Paul Dotson Date Received: 07/12/13

Tec Accutite Date Reported: 07/23/13

MW-2					1307049-00		
Parameters:	Analysis Method	<u>DF</u>	MDL	<u>PQL</u>	Results	<u>Unit</u>	
МТВЕ	SW8260B	1	0.17	0.50	25	ug/L	
Iron	SW6010B	1	0.002	0.30	77	mg/L	
Arsenic	SW6010B	1	0.005	0.010	0.027	mg/L	
Chromium	SW6010B	1	0.002	0.005	0.17	mg/L	
MW-3					13	07049-002	
Parameters:	Analysis Method	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>	
Iron	SW6010B	1	0.002	0.30	70	mg/L	
Chromium	SW6010B	1	0.002	0.005	0.17	mg/L	
MW-4					13	07049-003	
Parameters:	<u>Analysis</u> <u>Method</u>	DF	MDL	PQL	Results	<u>Unit</u>	
MTBE	SW8260B	1	0.17	0.50	59	ug/L	
TPH as Gasoline	8260TPH	1	31	50	90	ug/L	
Iron	SW6010B	1	0.002	0.30	4.0	mg/L	
Chromium	SW6010B	1	0.002	0.005	0.013	mg/L	
MW-6					13	07049-004	
Parameters:	<u>Analysis</u> <u>Method</u>	DF	MDL	<u>PQL</u>	<u>Results</u>	<u>Unit</u>	
Iron	SW6010B	1	0.002	0.30	6.6	mg/L	
Chromium	SW6010B	1	0.002	0.005	0.017	mg/L	

Total Page Count: 28 Page 3 of 28



Chromium

## **Sample Result Summary**

Report prepared for: Paul Dotson Date Received: 07/12/13

Tec Accutite Date Reported: 07/23/13

**1-7** 1307049-005

MW-7					13	07049-005
Parameters:	<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	<u>PQL</u>	Results	<u>Unit</u>
MTBE	SW8260B	1	0.17	0.50	2.1	ug/L
Iron	SW6010B	1	0.002	0.30	0.68	mg/L
MW-8					13	07049-006
Parameters:	Analysis Method	DF	MDL	PQL	Results	<u>Unit</u>
MTBE	SW8260B	1	0.17	0.50	80	ug/L
Diisopropyl ether (DIPE)	SW8260B	1	0.15	0.50	10	ug/L
Toluene	SW8260B	1	0.059	0.50	6.4	ug/L
Ethyl Benzene	SW8260B	1	0.074	0.50	89	ug/L
m,p-Xylene	SW8260B	1	0.13	1.0	33	ug/L
TPH as Gasoline	8260TPH	1	31	50	1300	ug/L
tert-Butanol	SW8260B	44	68	220	3200	ug/L
Benzene	SW8260B	44	3.9	22	260	ug/L
Iron	SW6010B	1	0.002	0.30	5.3	mg/L
Arsenic	SW6010B	1	0.005	0.010	0.011	mg/L
MW-9					13	07049-007
Parameters:	<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	<u>PQL</u>	Results	<u>Unit</u>
Iron	SW6010B	1	0.002	0.30	3.8	mg/L

Total Page Count: 28 Page 4 of 28

SW6010B

0.005

0.002

0.0098

mg/L



Report prepared for: Paul Dotson Date Received: 07/12/13
Tec Accutite Date Reported: 07/23/13

Client Sample ID:MW-2Lab Sample ID:1307049-001AProject Name/Location:1435 WebsterSample Matrix:Groundwater

Project Name/Location: Project Number:

o-Xylene

(S) Toluene-d8

(S) Dibromofluoromethane

(S) 4-Bromofluorobenzene

 Date/Time Sampled:
 07/11/13 / 11:00

 Tag Number:
 1435 Webster

SW8260B

SW8260B

SW8260B

SW8260B

NA

NA

NA

NA

07/18/13

07/18/13

07/18/13

07/18/13

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	07/18/13	1	0.17	0.50	25		ug/L	416542	NA
tert-Butanol	SW8260B	NA	07/18/13	1	1.5	5.0	ND		ug/L	416542	NA
Diisopropyl ether (DIPE)	SW8260B	NA	07/18/13	1	0.15	0.50	ND		ug/L	416542	NA
ETBE	SW8260B	NA	07/18/13	1	0.13	0.50	ND		ug/L	416542	NA
Benzene	SW8260B	NA	07/18/13	1	0.088	0.50	ND		ug/L	416542	NA
TAME	SW8260B	NA	07/18/13	1	0.095	0.50	ND		ug/L	416542	NA
Toluene	SW8260B	NA	07/18/13	1	0.059	0.50	ND		ug/L	416542	NA
Ethyl Benzene	SW8260B	NA	07/18/13	1	0.074	0.50	ND		ug/L	416542	NA
m,p-Xylene	SW8260B	NA	07/18/13	1	0.13	1.0	ND		ug/L	416542	NA

0.076

61.2

75.1

64.1

0.50

131

127

120

ND

93.2

90.7

96.0

416542

416542

416542

416542

ug/L

%

%

%

NA

NA

NA

NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	7/18/13	07/18/13	1	31	50	ND		ug/L	416542	9223
(S) 4-Bromofluorobenzene	8260TPH	7/18/13	07/18/13	1	41.5	125	101		%	416542	9223

Total Page Count: 28 Page 5 of 28



Report prepared for: Paul Dotson Date Received: 07/12/13 Tec Accutite Date Reported: 07/23/13

Client Sample ID: MW-2 Lab Sample ID: 1307049-001B 1435 Webster Sample Matrix: Groundwater

Project Name/Location: **Project Number:** 

Date/Time Sampled: 07/11/13 / 11:00

Tag Number: 1435 Webster

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron	SW6010B	7/16/13	07/17/13	1	0.002	0.30	77		mg/L	416477	9185
Arsenic	SW6010B	7/16/13	07/17/13	1	0.005	0.010	0.027		mg/L	416477	9185
Chromium	SW6010B	7/16/13	07/17/13	1	0.002	0.005	0.17		mg/L	416477	9185
Selenium	SW6010B	7/16/13	07/17/13	1	0.004	0.020	ND		mg/L	416477	9185

Total Page Count: 28 Page 6 of 28



DF MDL PQL

Results

Lab

Unit Analytical Prep

Paul Dotson Report prepared for: Date Received: 07/12/13 Tec Accutite Date Reported: 07/23/13

Client Sample ID: MW-3 Lab Sample ID: 1307049-002A

Project Number:

Date/Time Sampled: 07/11/13 / 10:39 Tag Number: 1435 Webster

Analysis

Project Name/Location: 1435 Webster Sample Matrix: Groundwater

Parameters:	Method	Date	Analyzed					Qualifier		Batch	Batch
MTBE	SW8260B	NA	07/18/13	1	0.17	0.50	ND	u	ıg/L	416542	NA
tert-Butanol	SW8260B	NA	07/18/13	1	1.5	5.0	ND	u	ıg/L	416542	NA
Diisopropyl ether (DIPE)	SW8260B	NA	07/18/13	1	0.15	0.50	ND	u	ıg/L	416542	NA
ETBE	SW8260B	NA	07/18/13	1	0.13	0.50	ND	u	ıg/L	416542	NA
Benzene	SW8260B	NA	07/18/13	1	0.088	0.50	ND	u	ıg/L	416542	NA
TAME	SW8260B	NA	07/18/13	1	0.095	0.50	ND	u	ıg/L	416542	NA
Toluene	SW8260B	NA	07/18/13	1	0.059	0.50	ND	u	ıg/L	416542	NA
Ethyl Benzene	SW8260B	NA	07/18/13	1	0.074	0.50	ND	u	ıg/L	416542	NA
m,p-Xylene	SW8260B	NA	07/18/13	1	0.13	1.0	ND	u	ıg/L	416542	NA
o-Xylene	SW8260B	NA	07/18/13	1	0.076	0.50	ND	u	ıg/L	416542	NA
(S) Dibromofluoromethane	SW8260B	NA	07/18/13	1	61.2	131	90.0		%	416542	NA
(S) Toluene-d8	SW8260B	NA	07/18/13	1	75.1	127	91.8		%	416542	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	07/18/13	1	64.1	120	97.0		%	416542	NA
Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab U Qualifier	Jnit /	Analytical Batch	Prep Batch
											İ.

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	7/18/13	07/18/13	1	31	50	ND		ug/L	416542	9223
(S) 4-Bromofluorobenzene	8260TPH	7/18/13	07/18/13	1	41.5	125	112		%	416542	9223

Total Page Count: 28 Page 7 of 28



Groundwater

Report prepared for: Paul Dotson Date Received: 07/12/13 Tec Accutite Date Reported: 07/23/13

**Client Sample ID:** MW-3 Lab Sample ID: 1307049-002B 1435 Webster Sample Matrix:

**Project Name/Location:** Project Number:

Date/Time Sampled: 07/11/13 / 10:39 Tag Number: 1435 Webster

Date DF MDL PQL Results Lab Unit Analytical **Analysis** Prep Prep Qualifier Parameters: Method Analyzed Batch Batch Date SW6010B 0.002 0.30 70 416477 Iron 7/16/13 07/17/13 mg/L 9185 Arsenic SW6010B 7/16/13 0.005 0.010 ND 416477 9185 07/17/13 1 mg/L Chromium SW6010B 7/16/13 07/17/13 1 0.002 0.005 0.17 mg/L 416477 9185 SW6010B 7/16/13 0.004 0.020 ND 9185 Selenium 07/17/13 mg/L 416477

Total Page Count: 28 Page 8 of 28



Report prepared for: Paul Dotson Date Received: 07/12/13
Tec Accutite Date Reported: 07/23/13

Client Sample ID:MW-4Lab Sample ID:1307049-003AProject Name/Location:1435 WebsterSample Matrix:Groundwater

Project Name/Location: Project Number:

 Date/Time Sampled:
 07/11/13 / 12:18

 Tag Number:
 1435 Webster

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
		<u> </u>									
MTBE	SW8260B	NA	07/18/13	1	0.17	0.50	59		ug/L	416542	NA
tert-Butanol	SW8260B	NA	07/18/13	1	1.5	5.0	ND		ug/L	416542	NA
Diisopropyl ether (DIPE)	SW8260B	NA	07/18/13	1	0.15	0.50	ND		ug/L	416542	NA
ETBE	SW8260B	NA	07/18/13	1	0.13	0.50	ND		ug/L	416542	NA
Benzene	SW8260B	NA	07/18/13	1	0.088	0.50	ND		ug/L	416542	NA
TAME	SW8260B	NA	07/18/13	1	0.095	0.50	ND		ug/L	416542	NA
Toluene	SW8260B	NA	07/18/13	1	0.059	0.50	ND		ug/L	416542	NA
Ethyl Benzene	SW8260B	NA	07/18/13	1	0.074	0.50	ND		ug/L	416542	NA
m,p-Xylene	SW8260B	NA	07/18/13	1	0.13	1.0	ND		ug/L	416542	NA
o-Xylene	SW8260B	NA	07/18/13	1	0.076	0.50	ND		ug/L	416542	NA
(S) Dibromofluoromethane	SW8260B	NA	07/18/13	1	61.2	131	99.9		%	416542	NA
(S) Toluene-d8	SW8260B	NA	07/18/13	1	75.1	127	91.1		%	416542	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	07/18/13	1	64.1	120	98.3		%	416542	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	7/18/13	07/18/13	1	31	50	90	Х	ug/L	416542	9223
(S) 4-Bromofluorobenzene	8260TPH	7/18/13	07/18/13	1	41.5	125	112		%	416542	9223

NOTE: x - Does not match pattern of reference Gasoline standard. Hydrocarbons in the range of C5-C12 quantified as Gasoline.



Report prepared for: Paul Dotson Date Received: 07/12/13
Tec Accutite Date Reported: 07/23/13

Client Sample ID:MW-4Lab Sample ID:1307049-003BProject Name/Location:1435 WebsterSample Matrix:Groundwater

Project Name/Location: Project Number:

 Date/Time Sampled:
 07/11/13 / 12:18

 Tag Number:
 1435 Webster

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron	SW6010B	7/16/13	07/17/13	1	0.002	0.30	4.0		mg/L	416477	9185
Arsenic	SW6010B	7/16/13	07/17/13	1	0.005	0.010	ND		mg/L	416477	9185
Chromium	SW6010B	7/16/13	07/17/13	1	0.002	0.005	0.013		mg/L	416477	9185
Selenium	SW6010B	7/16/13	07/17/13	1	0.004	0.020	ND		mg/L	416477	9185

Total Page Count: 28 Page 10 of 28



Report prepared for: Paul Dotson Date Received: 07/12/13
Tec Accutite Date Reported: 07/23/13

Client Sample ID:MW-6Lab Sample ID:1307049-004AProject Name/Location:1435 WebsterSample Matrix:Groundwater

NA

 $\mathsf{N}\mathsf{A}$ 

NA

7/18/13

7/18/13

07/18/13

07/18/13

07/18/13

07/18/13

07/18/13

Project Name/Location: Project Number:

Toluene

Ethyl Benzene

TPH as Gasoline

(S) 4-Bromofluorobenzene

m,p-Xylene

 Date/Time Sampled:
 07/11/13 / 10:13

 Tag Number:
 1435 Webster

SW8260B

SW8260B

SW8260B

8260TPH

8260TPH

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	07/18/13	1	0.17	0.50	ND		ug/L	416542	NA
tert-Butanol	SW8260B	NA	07/18/13	1	1.5	5.0	ND		ug/L	416542	NA
Diisopropyl ether (DIPE)	SW8260B	NA	07/18/13	1	0.15	0.50	ND		ug/L	416542	NA
ETBE	SW8260B	NA	07/18/13	1	0.13	0.50	ND		ug/L	416542	NA
Benzene	SW8260B	NA	07/18/13	1	0.088	0.50	ND		ug/L	416542	NA
TAME	SW8260B	NA	07/18/13	1	0.095	0.50	ND		ug/L	416542	NA

0.059

0.074

0.13

31

41.5

0.50

0.50

1.0

50

125

ND

ND

ND

ND

97.3

ug/L

ug/L

ug/L

ug/L

%

416542

416542

416542

416542

416542

NA

NA

NA

9223

9223

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch	1
(S) 4-Bromofluorobenzene	SW8260B	NA	07/18/13	1	64.1	120	94.8		%	416542	NA	
(S) Toluene-d8	SW8260B	NA	07/18/13	1	75.1	127	94.1		%	416542	NA	
(S) Dibromofluoromethane	SW8260B	NA	07/18/13	1	61.2	131	105		%	416542	NA	
o-Xylene	SW8260B	NA	07/18/13	1	0.076	0.50	ND		ug/L	416542	NA	

1

Total Page Count: 28 Page 11 of 28



Sample Matrix:

Groundwater

Report prepared for: Paul Dotson Date Received: 07/12/13
Tec Accutite Date Reported: 07/23/13

Client Sample ID: MW-6 Lab Sample ID: 1307049-004B

1435 Webster

Project Name/Location: Project Number:

 Date/Time Sampled:
 07/11/13 / 10:13

 Tag Number:
 1435 Webster

Date DF MDL PQL Results Lab Unit Analytical **Analysis** Prep Prep Qualifier Parameters: Method Analyzed Batch Batch Date SW6010B 0.002 0.30 6.6 416477 Iron 7/16/13 07/17/13 mg/L 9185 Arsenic SW6010B 7/16/13 0.005 0.010 ND 416477 9185 07/17/13 1 mg/L Chromium SW6010B 7/16/13 07/17/13 1 0.002 0.005 0.017 mg/L 416477 9185 SW6010B 7/16/13 0.004 0.020 ND 9185 Selenium 07/17/13 mg/L 416477

Total Page Count: 28 Page 12 of 28



Paul Dotson Report prepared for: Date Received: 07/12/13 Tec Accutite Date Reported: 07/23/13

**Client Sample ID:** MW-7 Lab Sample ID: 1307049-005A 1435 Webster Sample Matrix: Groundwater

Project Name/Location: **Project Number:** 

(S) 4-Bromofluorobenzene

Date/Time Sampled: 07/11/13 / 12:53 Tag Number: 1435 Webster

SW8260B

NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	07/18/13	1	0.17	0.50	2.1		ug/L	416542	NA
tert-Butanol	SW8260B	NA	07/18/13	1	1.5	5.0	ND		ug/L	416542	NA
Diisopropyl ether (DIPE)	SW8260B	NA	07/18/13	1	0.15	0.50	ND		ug/L	416542	NA
ETBE	SW8260B	NA	07/18/13	1	0.13	0.50	ND		ug/L	416542	NA
Benzene	SW8260B	NA	07/18/13	1	0.088	0.50	ND		ug/L	416542	NA
TAME	SW8260B	NA	07/18/13	1	0.095	0.50	ND		ug/L	416542	NA
Toluene	SW8260B	NA	07/18/13	1	0.059	0.50	ND		ug/L	416542	NA
Ethyl Benzene	SW8260B	NA	07/18/13	1	0.074	0.50	ND		ug/L	416542	NA
m,p-Xylene	SW8260B	NA	07/18/13	1	0.13	1.0	ND		ug/L	416542	NA
o-Xylene	SW8260B	NA	07/18/13	1	0.076	0.50	ND		ug/L	416542	NA
(S) Dibromofluoromethane	SW8260B	NA	07/18/13	1	61.2	131	111		%	416542	NA
(S) Toluene-d8	SW8260B	NA	07/18/13	1	75.1	127	93.3		%	416542	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	7/18/13	07/18/13	1	31	50	ND		ug/L	416542	9223
(S) 4-Bromofluorobenzene	8260TPH	7/18/13	07/18/13	1	41.5	125	94.6		%	416542	9223

64.1

120

98.7

%

416542

NA

07/18/13 1

Total Page Count: 28 Page 13 of 28



Report prepared for: Paul Dotson Date Received: 07/12/13 Tec Accutite Date Reported: 07/23/13

Client Sample ID: MW-7 Lab Sample ID: 1307049-005B 1435 Webster Sample Matrix: Groundwater

Project Name/Location: **Project Number:** 

Date/Time Sampled: 07/11/13 / 12:53

Tag Number: 1435 Webster

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron	SW6010B	7/16/13	07/17/13	1	0.002	0.30	0.68		mg/L	416477	9185
Arsenic	SW6010B	7/16/13	07/17/13	1	0.005	0.010	ND		mg/L	416477	9185
Chromium	SW6010B	7/16/13	07/17/13	1	0.002	0.005	ND		mg/L	416477	9185
Selenium	SW6010B	7/16/13	07/17/13	1	0.004	0.020	ND		mg/L	416477	9185

Total Page Count: 28 Page 14 of 28



Paul Dotson Report prepared for: Date Received: 07/12/13 Tec Accutite Date Reported: 07/23/13

**Client Sample ID:** 8-WM Lab Sample ID: 1307049-006A 1435 Webster Sample Matrix: Groundwater

Project Name/Location: **Project Number:** 

Date/Time Sampled:

07/11/13 / 12:37 Tag Number: 1435 Webster

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
			,u., u								
MTBE	SW8260B	NA	07/18/13	1	0.17	0.50	80		ug/L	416542	NA
Diisopropyl ether (DIPE)	SW8260B	NA	07/18/13	1	0.15	0.50	10		ug/L	416542	NA
ETBE	SW8260B	NA	07/18/13	1	0.13	0.50	ND		ug/L	416542	NA
TAME	SW8260B	NA	07/18/13	1	0.095	0.50	ND		ug/L	416542	NA
Toluene	SW8260B	NA	07/18/13	1	0.059	0.50	6.4		ug/L	416542	NA
Ethyl Benzene	SW8260B	NA	07/18/13	1	0.074	0.50	89		ug/L	416542	NA
m,p-Xylene	SW8260B	NA	07/18/13	1	0.13	1.0	33		ug/L	416542	NA
o-Xylene	SW8260B	NA	07/18/13	1	0.076	0.50	ND		ug/L	416542	NA
(S) Dibromofluoromethane	SW8260B	NA	07/18/13	1	61.2	131	101		%	416542	NA
(S) Toluene-d8	SW8260B	NA	07/18/13	1	75.1	127	93.8		%	416542	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	07/18/13	1	64.1	120	99.8		%	416542	NA
tert-Butanol	SW8260B	NA	07/18/13	44	68	220	3200		ug/L	416542	NA
Benzene	SW8260B	NA	07/18/13	44	3.9	22	260		ug/L	416542	NA
(S) Dibromofluoromethane	SW8260B	NA	07/18/13	44	61.2	131	109		%	416542	NA
(S) Toluene-d8	SW8260B	NA	07/18/13	44	75.1	127	94.1		%	416542	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	07/18/13	44	64.1	120	101		%	416542	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	7/18/13	07/18/13	1	31	50	1300	Х	ug/L	416542	9223
(S) 4-Bromofluorobenzene	8260TPH	7/18/13	07/18/13	1	41.5	125	103		%	416542	9223

NOTE: x - Although TPH as Gasoline constituents are present, sample chromatogram does not resemble pattern of reference Gasoline standard.

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Report prepared for: Paul Dotson Date Received: 07/12/13 Tec Accutite Date Reported: 07/23/13

Client Sample ID: 8-WM Lab Sample ID: 1307049-006B 1435 Webster Sample Matrix: Groundwater

Project Name/Location: **Project Number:** 

Date/Time Sampled: 07/11/13 / 12:37

1435 Webster Tag Number:

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron	SW6010B	7/16/13	07/17/13	1	0.002	0.30	5.3		mg/L	416477	9185
Arsenic	SW6010B	7/16/13	07/17/13	1	0.005	0.010	0.011		mg/L	416477	9185
Chromium	SW6010B	7/16/13	07/17/13	1	0.002	0.005	ND		mg/L	416477	9185
Selenium	SW6010B	7/16/13	07/17/13	1	0.004	0.020	ND		mg/L	416477	9185

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Report prepared for: Paul Dotson Date Received: 07/12/13
Tec Accutite Date Reported: 07/23/13

Client Sample ID:MW-9Lab Sample ID:1307049-007AProject Name/Location:1435 WebsterSample Matrix:Groundwater

Project Name/Location: Project Number:

(S) 4-Bromofluorobenzene

 Date/Time Sampled:
 07/11/13 / 9:38

 Tag Number:
 1435 Webster

SW8260B

NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
MTBE	SW8260B	NA	07/18/13	1	0.17	0.50	ND		ug/L	416542	NA
tert-Butanol	SW8260B	NA	07/18/13	1	1.5	5.0	ND		ug/L	416542	NA
Diisopropyl ether (DIPE)	SW8260B	NA	07/18/13	1	0.15	0.50	ND		ug/L	416542	NA
ETBE	SW8260B	NA	07/18/13	1	0.13	0.50	ND		ug/L	416542	NA
Benzene	SW8260B	NA	07/18/13	1	0.088	0.50	ND		ug/L	416542	NA
TAME	SW8260B	NA	07/18/13	1	0.095	0.50	ND		ug/L	416542	NA
Toluene	SW8260B	NA	07/18/13	1	0.059	0.50	ND		ug/L	416542	NA
Ethyl Benzene	SW8260B	NA	07/18/13	1	0.074	0.50	ND		ug/L	416542	NA
m,p-Xylene	SW8260B	NA	07/18/13	1	0.13	1.0	ND		ug/L	416542	NA
o-Xylene	SW8260B	NA	07/18/13	1	0.076	0.50	ND		ug/L	416542	NA
(S) Dibromofluoromethane	SW8260B	NA	07/18/13	1	61.2	131	112		%	416542	NA
(S) Toluene-d8	SW8260B	NA	07/18/13	1	75.1	127	94.7		%	416542	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Gasoline	8260TPH	7/18/13	07/18/13	1	31	50	ND		ug/L	416542	9223
(S) 4-Bromofluorobenzene	8260TPH	7/18/13	07/18/13	1	41.5	125	97.2		%	416542	9223

64.1

120

101

%

416542

NA

07/18/13

Total Page Count: 28 Page 17 of 28



Report prepared for: Paul Dotson Date Received: 07/12/13
Tec Accutite Date Reported: 07/23/13

Client Sample ID:MW-9Lab Sample ID:1307049-007BProject Name/Location:1435 WebsterSample Matrix:Groundwater

Project Name/Location: Project Number:

 Date/Time Sampled:
 07/11/13 / 9:38

 Tag Number:
 1435 Webster

Date DF MDL PQL Results Lab Unit Analytical **Analysis** Prep Prep Qualifier Parameters: Method Analyzed Batch Batch Date SW6010B 0.002 0.30 3.8 416477 Iron 7/16/13 07/17/13 mg/L 9185 Arsenic SW6010B 0.005 0.010 ND 416477 9185 7/16/13 07/17/13 1 mg/L Chromium SW6010B 7/16/13 07/17/13 1 0.002 0.005 0.0098 mg/L 416477 9185 SW6010B 7/16/13 0.004 0.020 ND 9185 Selenium 07/17/13 mg/L 416477

Total Page Count: 28 Page 18 of 28



# **MB Summary Report**

Work Order: NA NA 1307049 Prep Method: Prep Date: NA Prep Batch: Matrix: Water Analytical SW8260B **Analyzed Date:** 07/18/13 Analytical 416542 Method: Batch: Units: ug/L

		T	<u> </u>	
Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	0.18	0.50	ND	
Chloromethane	0.16	0.50	ND	
Vinyl Chloride	0.16	0.50	ND	
Bromomethane	0.18	0.50	ND	
Trichlorofluoromethane	0.18	0.50	ND	
1,1-Dichloroethene	0.15	0.50	ND	
Freon 113	0.19	0.50	ND	
Methylene Chloride	0.23	5.0	ND	
trans-1,2-Dichloroethene	0.19	0.50	ND	
MTBE	0.17	0.50	ND	
tert-Butanol	1.5	5.0	ND	
Diisopropyl ether (DIPE)	0.13	0.50	ND	
1,1-Dichloroethane	0.13	0.50	ND	
ETBE	0.17	0.50	ND	
cis-1,2-Dichloroethene	0.19	0.50	ND	
2,2-Dichloropropane	0.15	0.50	ND	
Bromochloromethane	0.20	0.50	ND	
Chloroform	0.13	0.50	ND	
Carbon Tetrachloride	0.15	0.50	ND	
1,1,1-Trichloroethane	0.097	0.50	ND	
1,1-Dichloropropene	0.15	0.50	ND	
Benzene	0.13	0.50	ND	
TAME	0.17	0.50	ND	
1,2-Dichloroethane	0.14	0.50	ND	
Trichloroethylene	0.13	0.50	ND	
Dibromomethane	0.15	0.50	ND	
1,2-Dichloropropane	0.17	0.50	ND	
Bromodichloromethane	0.13	0.50	ND	
cis-1,3-Dichloropropene	0.096	0.50	ND	
Toluene	0.14	0.50	ND	
Tetrachloroethylene	0.14	0.50	ND	
trans-1,3-Dichloropropene	0.23	0.50	ND	
1,1,2-Trichloroethane	0.14	0.50	ND	
Dibromochloromethane	0.096	0.50	ND	
1,3-Dichloropropane	0.10	0.50	ND	
1,2-Dibromoethane	0.19	0.50	ND	
Chlorobenzene	0.14	0.50	ND	
Ethyl Benzene	0.15	0.50	ND	
1,1,1,2-Tetrachloroethane	0.096	0.50	ND	
m,p-Xylene	0.13	1.0	ND	

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Total Page Count: 28 Page 19 of 28



## **MB Summary Report**

Work Order:	1307049	Prep I	/lethod:	NA	Prep	Date:	NA	Prep Batch:	NA
Matrix:	Water	Analy		SW8260B	Anal	yzed Date:	07/18/13	Analytical	416542
Units:	ug/L	Metho	d: 					Batch:	
Parameters		MDL	PQL	Method Blank Conc.	Lab Qualifier				
o-Xylene		0.15	0.50	ND					
Styrene		0.21	0.50	ND					
Bromoform		0.21	1.0	ND					
Isopropyl Benzen	е	0.097	0.50	ND					
Bromobenzene		0.15	0.50	ND					
1,1,2,2-Tetrachlor	oethane	0.11	0.50	ND					
n-Propylbenzene		0.078	0.50	ND					
2-Chlorotoluene		0.076	0.50	ND					
1,3,5,-Trimethylbe	enzene	0.074	0.50	ND					
4-Chlorotoluene		0.088	0.50	ND					
tert-Butylbenzene		0.081	0.50	ND					
1,2,3-Trichloropro	pane	0.14	0.50	ND					
1,2,4-Trimethylbe	nzene	0.083	0.50	ND					
sec-Butyl Benzen	е	0.092	0.50	ND					
p-Isopropyltoluene	Э	0.093	0.50	ND					
1,3-Dichlorobenze	ene	0.10	0.50	ND					
1,4-Dichlorobenze	ene	0.069	0.50	ND					
n-Butylbenzene		0.081	0.50	ND					
1,2-Dichlorobenze	ene	0.057	0.50	ND					
1,2-Dibromo-3-Ch	loropropane	0.15	0.50	ND					
Hexachlorobutadi	ene	0.19	0.50	ND					
1,2,4-Trichlorober	nzene	0.12	0.50	ND					
Naphthalene		0.14	1.0	ND					
1,2,3-Trichlorober	nzene	0.23	0.50	ND					
(S) Dibromofluoro				107					
(S) Toluene-d8				95.0					
(S) 4-Bromofluoro	benzene			108					
Ethanol		0.21	0.50	ND	TIC				
Work Order:	1307049	Prep I	/lethod:	3010B	Prep	Date:	07/16/13	Prep Batch:	9185
Matrix:	Water	Analy		SW6010B	Anal	yzed Date:	07/17/13	Analytical	416477
Units:	mg/L	Metho	a:					Batch:	
Parameters		MDL	PQL	Method Blank Conc.	Lab Qualifier				
Iron		0.002	0.30	0.010	1	1			
Arsenic		0.005	0.010	ND					
Chromium		0.002	0.005	ND					

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# **MB Summary Report**

Work Order:	1307049	Prep Method:	5030	Prep Date:	07/18/13	Prep Batch:	9223
Matrix:	Water	Analytical	8260TPH	Analyzed Date:	07/18/13	Analytical	416542
Units:	ug/L	Method:				Batch:	

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Gasoline (S) 4-Bromofluorobenzene	31	50	ND 97.6	



# LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1307049	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA	
Matrix:	Water	Analytical	SW8260B	Analyzed Date:	07/18/13	Analytical	416542	
Units:	ug/L	Method:				Batch:		

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.14	0.50	ND	17.04	114	90.2	23.2	61.4 - 129	30	
Benzene	0.087	0.50	ND	17.04	116	93.2	21.9	66.9 - 140	30	
Trichloroethylene	0.057	0.50	ND	17.04	105	85.4	20.1	69.3 - 144	30	
Toluene	0.059	0.50	ND	17.04	115	89.5	24.9	76.6 - 123	30	
Chlorobenzene	0.068	0.50	ND	17.04	112	87.3	24.3	73.9 - 137	30	
(S) Dibromofluoromethane			ND	11.36	96.3	96.2		61.2 - 131		
(S) Toluene-d8			ND	11.36	94.6	94.4		75.1 - 127		
(S) 4-Bromofluorobenzene			ND	11.36	96.6	95.5		64.1 - 120		

Work Order:	1307049	Prep Method:	3010B	Prep Date:	07/16/13	Prep Batch:	9185
Matrix:	Water	Analytical Method:	SW6010B	Analyzed Date:	07/17/13	Analytical Batch:	416477
Units:	mg/L	Metriou.				Daton.	

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Iron	0.002	0.3	0.010	10	94.83	102	7.09	80 - 120	30	_
Arsenic	0.005	0.01	ND	1	94.62	96.8	2.26	80 - 120	30	
Chromium	0.002	0.005	ND	1	92.98	96.6	3.83	80 - 120	30	
Selenium	0.004	0.02	ND	1	94.76	96.8	2.12	80 - 120	30	

Work Order:	1307049	Prep Method:	5030	Prep Date:	07/18/13	Prep Batch:	9223
Matrix:	Water	Analytical	8260TPH	Analyzed Date:	07/18/13	Analytical	416542
Units:	ug/L	Method:				Batch:	

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Gasoline	31	50	ND	227.27	91.7	88.9	3.12	52.4 - 127	30	
(S) 4-Bromofluorobenzene			97.6	11.36	121	110		41.5 - 125		



Water

Matrix:

Arsenic

Chromium

Selenium

## **MS/MSD Summary Report**

Raw values are used in quality control assessment.

75 - 125

75 - 125

75 - 125

9185

20

20

20

416477

Work Order: 1307049 Prep Method: 3010B

0.005

0.002

0.004

0.010

0.005

0.020

Prep Date: 07/16/13 Prep Batch:

91.1

87.6

86.7

1.39

0.191

0.540

Analytical SW6010B **Analyzed Date:** Analytical 07/17/13 Batch:

89.8

87.8

87.2

Method:

Spiked Sample: 1307049-001B

0.0266

0.1723

0

Units: mg/L PQL MS % MSD % MS/MSD % RPD **Parameters** MDL Sample **Spike** Lab Conc. Conc. % RPD Recovery Limits Qualifier Recovery Recovery Limits 0.002 0.30 76.94 10 75 - 125 NR Iron 0.000 0.000 6.05 20

1

1

1



## Laboratory Qualifiers and Definitions

#### **DEFINITIONS:**

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.

**Blank (Method/Preparation Blank)** -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.

**Duplicate** - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)

Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.

Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)

Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.

Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero

Practical Quantitation Limit (PQL) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.

Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates

Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis

**Tentatively Identified Compound (TIC)** - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.

Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3, mg.m3, ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

#### LABORATORY QUALIFIERS:

- B Indicates when the anlayte is found in the associated method or preparation blank
- **D** Surrogate is not recoverable due to the necessary dilution of the sample
- **E** Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
- H- Indicates that the recommended holding time for the analyte or compound has been exceeded
- J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
- NA Not Analyzed
- N/A Not Applicable
- NR Not recoverable a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
- R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
- S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case parrative
- **X** -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

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## Sample Receipt Checklist

Date and Time Received: 7/12/2013 13:07 Client Name: Tec Accutite

Project Name: 1435 Webster Received By: pp

Work Order No.: 1307049 Physically Logged By: ng

Checklist Completed By: ng

Carrier Name: First Courier

**Chain of Custody (COC) Information** 

Chain of custody present? <u>Yes</u>

Chain of custody signed when relinquished and received? Yes

Chain of custody agrees with sample labels? Yes

Custody seals intact on sample bottles? Not Present

**Sample Receipt Information** 

Custody seals intact on shipping container/cooler? Not Present

Shipping Container/Cooler In Good Condition? Yes

Samples in proper container/bottle? Yes

Samples containers intact? Yes

Sufficient sample volume for indicated test? Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes

Container/Temp Blank temperature in compliance? Yes Temperature: °C

Water-VOA vials have zero headspace? Yes Water-pH acceptable upon receipt? N/A

pH Checked by: n/a pH Adjusted by: n/a

Samples received in a cooler with ice at 6 deg C.

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## **Login Summary Report**

Client ID: TL5132 Tec Accutite QC Level:

Project Name:1435 WebsterTAT Requested:5+ day:0Project #:Date Received:7/12/2013

**Report Due Date:** 7/23/2013 **Time Received:** 13:07

Comments: 5day TAT. EDF requested. Seven groundwaters for GRO, VOCs (BTEX/oxys) and Metals (Fe, Cr, As, Se). Send report to

Paul Dotson.

Per phone covnversation with Paul Dotson on 7/16/13: Do not analyze samples for Hexavalent Chromium or Ferrous iron.

They will resample. Analyze for everything else (GRO, BTEX, fuel oxys, and Fe/Cr/As/Se). --KB 07/16/13

Work Order #: 1307049

WO Sample ID	Client Sample ID	Collection Date/Time	<u>Matrix</u>	Scheduled Disposal	Sample On Hold	<u>Test</u> On Hold	Requested Tests	Subbed
1307049-001A	MW-2	07/11/13 11:00	Water	08/26/13				
							W_8260Pet	
							EDF	
Commis Nata	CDO DTEV/fuel evice Du						W_GCMS-GRO	
Sample Note:	GRO, BTEX/fuel oxys. Ru	•		00/00/40				
1307049-001B	MW-2	07/11/13 11:00	Water	08/26/13			W_6010B_ALL	
Sample Note:	Metals (Fe, Cr, As, Se). R	un all comples to E	CI o				W_0010D_ALL	
1307049-002A	MW-3	07/11/13 10:39		08/26/13				
1307049-002A	IVIVV-3	07/11/13 10.39	water	06/20/13			W_8260Pet	
							W_GCMS-GRO	
1307049-002B	MW-3	07/11/13 10:39	Water	08/26/13			_	
							W_6010B_ALL	
1307049-003A	MW-4	07/11/13 12:18	Water	08/26/13			W 0000D-4	
							W_8260Pet W_GCMS-GRO	
1307049-003B	MW-4	07/11/13 12:18	Water	08/26/13			W_00M0-010	
							W_6010B_ALL	
1307049-004A	MW-6	07/11/13 10:13	Water	08/26/13				
							W_8260Pet	
1307049-004B	MW-6	07/11/13 10:13	Water	08/26/13			W_GCMS-GRO	
1307043-0045	10100-0	07/11/13 10.13	vvater	00/20/13			W_6010B_ALL	
1307049-005A	MW-7	07/11/13 12:53	Water	08/26/13				
							W_8260Pet	
1007010 0050		07/11/10 10 50	144.4	00/00/40			W_GCMS-GRO	
1307049-005B	MW-7	07/11/13 12:53	Water	08/26/13			W_6010B_ALL	
1307049-006A	MW-8	07/11/13 12:37	Water	08/26/13			W_0010D_ALL	
1007010 00071		0771710 12.07	viato.	00/20/10			W_8260Pet	
							W_GCMS-GRO	
1307049-006B	MW-8	07/11/13 12:37	Water	08/26/13				

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## **Login Summary Report**

Client ID: TL5132 Tec Accutite QC Level:

Project Name:1435 WebsterTAT Requested:5+ day:0Project #:Date Received:7/12/2013

**Report Due Date:** 7/23/2013 **Time Received:** 13:07

Comments: 5day TAT. EDF requested. Seven groundwaters for GRO, VOCs (BTEX/oxys) and Metals (Fe, Cr, As, Se). Send report to

Paul Dotson.

Per phone covnversation with Paul Dotson on 7/16/13: Do not analyze samples for Hexavalent Chromium or Ferrous iron.

They will resample. Analyze for everything else (GRO, BTEX, fuel oxys, and Fe/Cr/As/Se). --KB 07/16/13

Work Order #: 1307049

Client Sample ID	Collection Date/Time	<u>Matrix</u>			<u>Test</u> <u>On Hold</u>	Requested Tests	Subbed
MW-9	07/11/13 9:38	Water	08/26/13			W_6010B_ALL	
						W_8260Pet W_GCMS-GRO	
MW-9	07/11/13 9:38	Water	08/26/13			_	
	Sample ID MW-9	Sample ID         Date/Time           MW-9         07/11/13         9:38	MW-9 07/11/13 9:38 Water	Sample ID         Date/Time         Disposal           MW-9         07/11/13         9:38         Water         08/26/13	Sample ID         Date/Time         Disposal         On Hold           MW-9         07/11/13         9:38         Water         08/26/13	Sample ID         Date/Time         Disposal         On Hold         On Hold           MW-9         07/11/13         9:38         Water         08/26/13	Sample ID         Date/Time         Disposal         On Hold         On Hold         Tests           MW-9         07/11/13 9:38 Water         08/26/13         W_6010B_ALL           W_8260Pet         W_GCMS-GRO

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### **CHAIN OF CUSTODY**

Lab Work Order #: 1307049

Project				Report to:	Brian	7	(P)		Analysis F	Required			<del></del>		Turr	-around	Time (work	(days)
Name:				tecaccutite@gmail.com			क्ष		<u> </u>	·					ASAP	1 Day	2 Days	3 Days
Project	1435 Webste	er St.		Bill to: TEC Accutite		×	√A, A								5 Days	10 Days	Other:	-
Address:			(650) 616-1200		BTE	3									Sam	ole Type		
Global ID:	T0600100766		-			Hg	etals Cr,								ground v	vater		
Sampler:	BD	Date :	7/11/13	PO#: 7	1882	T C	Metals (Fe, Fe(יו'), Cr. Cr(יו'), As, S						1 1			Repor	t Format	-
Field Point		Sample	# of	Container	Sample Date	8260 TPHg BTEX oxygenates									EDF			
ID	Sample ID	Matrix	Containers	Туре	& Time		(F.							:		Re	marks	,
MW-2	MW-2	W	4	VOAs w/ HCl and poly	7/11/13	1	1	_	ooiAj	B					Run to E	SLs		
MW-3	MW-3	W	4	VOAs w/ HCl and poly	7/11/13	1	1	-0	102A	B							,	
MW-4	MW-4	W	4	VOAs w/ HCl and poly	7/11/12	1	√	~ (	003A	B								
MW-6	MW-6	W	4	VOAs w/ HCl and poly	1/11/13	V	√	~	004A	B		,						
MW-7	MW-7	W	4	VOAs w/ HCl and poly	7/1/13	1	√	-0	05 A/	В								
MW-8	MW-8	W	4	VOAs w/ HCl and poly	7/11/13	1	√	-(	106A	B								
MW-9	MW-9	; W	4	VOAs w/ HCl and Poly	7/11/3	1	· 1	- 0	907 A/	ß							. 0	
				(								,			Ter	mp.		
					,													
Relinquished	by: Brian Do	7 1	Tue	Date:	7/12/13	Time:	12		Received	by: Firs	A Co	uriev Joy	ce Bro	Date NSO N	07]	2/1	Time 3 <i>i</i> 1 3	3:13
Relinquished	re Br	Dog	Rs ranso	Date: ~ 07	12/13	Time:	:07		Received	by:		pka		Date	1	13	; Tim	.07

in anger

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FCS



Tec Accutite 262 Michelle Ct South San Francisco, California 94080

Tel: (650) 616-1200 Fax: (650) 616-1244

Email: tecaccutite@gmail.com

RE: 1435 Webster

Work Order No.: 1308133

### Dear Brian Doherty:

Torrent Laboratory, Inc. received 7 sample(s) on August 20, 2013 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 test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Patti Sandrock
QA Officer

August 27, 2013

Date

Total Page Count: 19 Page 1 of 19



**Date:** 8/27/2013

Client: Tec Accutite
Project: 1435 Webster
Work Order: 1308133

#### **CASE NARRATIVE**

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

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MW-2

# **Sample Result Summary**

Report prepared for: Brian Doherty Date Received: 08/20/13

Tec Accutite Date Reported: 08/27/13

1308133-001

Parameters:	Analysis Method	<u>DF</u>	MDL	PQL	Results	<u>Unit</u>
Chromium (Dissolved)	SW6020	1	0.12	0.50	5.5	ug/L
Arsenic (Dissolved)	SW6020	1	0.11	0.30	2.3	ug/L
Iron (Dissolved)	SW6020	10	10	10	2000	ug/L
Ferrous Iron (Total)	H8146	1	0.1	0.1	0.19	mg/L

MW-3 1308133-002

Parameters:	Analysis Method	<u>DF</u>	MDL	<u>PQL</u>	Results	<u>Unit</u>
Iron (Dissolved)	SW6020	1	1.0	1.0	150	ug/L
Chromium (Dissolved)	SW6020	1	0.12	0.50	2.2	ug/L
Ferrous Iron (Total)	H8146	1	0.1	0.1	0.14	mg/L
Hexavalent Chromium	SW7199	1	0.42	0.50	1.7	ug/L

MW-4 1308133-003

Parameters:	Analysis Method	DF	MDL	PQL	Results	<u>Unit</u>
Iron (Dissolved)	SW6020	1	1.0	1.0	140	ug/L
Chromium (Dissolved)	SW6020	1	0.12	0.50	1.6	ug/L
Arsenic (Dissolved)	SW6020	1	0.11	0.30	0.34	ug/L
Hexavalent Chromium	SW7199	1	0.42	0.50	1.4	ug/L

MW-6 1308133-004

Parameters:	<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	<u>PQL</u>	Results	<u>Unit</u>
Iron (Dissolved)	SW6020	1	1.0	1.0	34	ug/L
Chromium (Dissolved)	SW6020	1	0.12	0.50	0.62	ug/L

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MW-7

## **Sample Result Summary**

Report prepared for: Brian Doherty Date Received: 08/20/13

Tec Accutite Date Reported: 08/27/13

1308133-005

Parameters:	Analysis Method	DF	MDL	PQL	Results	<u>Unit</u>
Iron (Dissolved)	SW6020	1	1.0	1.0	29	ug/L
Chromium (Dissolved)	SW6020	1	0.12	0.50	0.70	ug/L
Arsenic (Dissolved)	SW6020	1	0.11	0.30	1.8	ug/L
Hexavalent Chromium	SW7199	1	0.42	0.50	0.56	ug/L

MW-8 1308133-006

Parameters:	Analysis Method	<u>DF</u>	MDL	<u>PQL</u>	Results	<u>Unit</u>	
Arsenic (Dissolved)	SW6020	1	0.11	0.30	6.3	ug/L	
Iron (Dissolved)	SW6020	10	10	10	2800	ug/L	
Ferrous Iron (Total)	H8146	1	0.1	0.1	2.2	mg/L	

MW-9 1308133-007

Parameters:	<u>Analysis</u> <u>Method</u>	<u>DF</u>	MDL	<u>PQL</u>	Results	<u>Unit</u>
Iron (Dissolved)	SW6020	1	1.0	1.0	38	ug/L
Arsenic (Dissolved)	SW6020	1	0.11	0.30	0.34	ug/L



Report prepared for: Brian Doherty Date Received: 08/20/13
Tec Accutite Date Reported: 08/27/13

Client Sample ID: MW-2 Lab Sample ID: 1308133-001A

Project Name/Location: 1435 Webster Sample Matrix: Water

 Project Number:
 T0600100766

 Date/Time Sampled:
 08/20/13 / 10:54

 Tag Number:
 T0600100766

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Chromium (Dissolved)	SW6020	NA	08/23/13	1	0.12	0.50	5.5	•	ug/L	417028	NA
Arsenic (Dissolved)	SW6020	NA	08/23/13	1	0.11	0.30	2.3		ug/L	417028	NA
Selenium (Dissolved)	SW6020	NA	08/23/13	1	0.083	1.0	ND		ug/L	417028	NA
Iron (Dissolved)	SW6020	NA	08/23/13	10	10	10	2000		ug/L	417028	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Hexavalent Chromium	SW7199	NA	08/20/13	1	0.42	0.50	ND		ug/L	417020	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch	
Ferrous Iron (Total)	H8146	NA	08/20/13	1	0.1	0.1	0.19		mg/L	417062	NA	•

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Report prepared for: Brian Doherty Date Received: 08/20/13
Tec Accutite Date Reported: 08/27/13

Client Sample ID: MW-3 Lab Sample ID: 1308133-002A

Project Name/Location: 1435 Webster Sample Matrix: Water

 Project Number:
 T0600100766

 Date/Time Sampled:
 08/20/13 / 10:16

 Tag Number:
 T0600100766

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron (Dissolved)	SW6020	NA	08/23/13	1	1.0	1.0	150		ug/L	417028	NA
Chromium (Dissolved)	SW6020	NA	08/23/13	1	0.12	0.50	2.2		ug/L	417028	NA
Arsenic (Dissolved)	SW6020	NA	08/23/13	1	0.11	0.30	ND		ug/L	417028	NA
Selenium (Dissolved)	SW6020	NA	08/23/13	1	0.083	1.0	ND		ug/L	417028	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Hexavalent Chromium	SW7199	NA	08/20/13	1	0.42	0.50	1.7		ug/L	417020	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Ferrous Iron (Total)	H8146	NA	08/20/13	1	0.1	0.1	0.14		mg/L	417062	NA

Total Page Count: 19 Page 6 of 19



Report prepared for: Brian Doherty Date Received: 08/20/13
Tec Accutite Date Reported: 08/27/13

Client Sample ID: MW-4 Lab Sample ID: 1308133-003A

Project Name/Location: 1435 Webster Sample Matrix: Water

 Project Number:
 T0600100766

 Date/Time Sampled:
 08/20/13 / 12:28

 Tag Number:
 T0600100766

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron (Dissolved)	SW6020	NA	08/23/13	1	1.0	1.0	140		ug/L	417028	NA
Chromium (Dissolved)	SW6020	NA	08/23/13	1	0.12	0.50	1.6		ug/L	417028	NA
Arsenic (Dissolved)	SW6020	NA	08/23/13	1	0.11	0.30	0.34		ug/L	417028	NA
Selenium (Dissolved)	SW6020	NA	08/23/13	1	0.083	1.0	ND		ug/L	417028	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Hexavalent Chromium	SW7199	NA	08/20/13	1	0.42	0.50	1.4		ug/L	417020	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Ferrous Iron (Total)	H8146	NA	08/20/13	1	0.1	0.1	ND		mg/L	417062	NA

Total Page Count: 19 Page 7 of 19



Report prepared for: Brian Doherty Date Received: 08/20/13
Tec Accutite Date Reported: 08/27/13

Client Sample ID: MW-6 Lab Sample ID: 1308133-004A

Project Name/Location: 1435 Webster Sample Matrix: Water Project Number: T0600100766

 Date/Time Sampled:
 08/20/13 / 9:54

 Tag Number:
 T0600100766

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron (Dissolved)	SW6020	NA	08/23/13	1	1.0	1.0	34		ug/L	417028	NA
Chromium (Dissolved)	SW6020	NA	08/23/13	1	0.12	0.50	0.62		ug/L	417028	NA
Arsenic (Dissolved)	SW6020	NA	08/23/13	1	0.11	0.30	ND		ug/L	417028	NA
Selenium (Dissolved)	SW6020	NA	08/23/13	1	0.083	1.0	ND		ug/L	417028	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Hexavalent Chromium	SW7199	NA	08/20/13	1	0.42	0.50	ND		ug/L	417020	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Ferrous Iron (Total)	H8146	NA	08/20/13	1	0.1	0.1	ND		mg/L	417062	NA

Total Page Count: 19 Page 8 of 19



Report prepared for: Brian Doherty Date Received: 08/20/13
Tec Accutite Date Reported: 08/27/13

Client Sample ID: MW-7 Lab Sample ID: 1308133-005A

Project Name/Location: 1435 Webster Sample Matrix: Water

 Project Number:
 T0600100766

 Date/Time Sampled:
 08/20/13 / 11:54

 Tag Number:
 T0600100766

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron (Dissolved)	SW6020	NA	08/23/13	1	1.0	1.0	29		ug/L	417028	NA
Chromium (Dissolved)	SW6020	NA	08/23/13	1	0.12	0.50	0.70		ug/L	417028	NA
Arsenic (Dissolved)	SW6020	NA	08/23/13	1	0.11	0.30	1.8		ug/L	417028	NA
Selenium (Dissolved)	SW6020	NA	08/23/13	1	0.083	1.0	ND		ug/L	417028	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Hexavalent Chromium	SW7199	NA	08/20/13	1	0.42	0.50	0.56		ug/L	417020	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Ferrous Iron (Total)	H8146	NA	08/20/13	1	0.1	0.1	ND		mg/L	417062	NA

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Report prepared for: Brian Doherty Date Received: 08/20/13
Tec Accutite Date Reported: 08/27/13

Client Sample ID: MW-8 Lab Sample ID: 1308133-006A

Project Name/Location: 1435 Webster Sample Matrix: Water

 Project Number:
 T0600100766

 Date/Time Sampled:
 08/20/13 / 12:41

 Tag Number:
 T0600100766

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Chromium (Dissolved)	SW6020	NA	08/23/13	1	0.12	0.50	ND		ug/L	417028	NA
Arsenic (Dissolved)	SW6020	NA	08/23/13	1	0.11	0.30	6.3		ug/L	417028	NA
Selenium (Dissolved)	SW6020	NA	08/23/13	1	0.083	1.0	ND		ug/L	417028	NA
Iron (Dissolved)	SW6020	NA	08/23/13	10	10	10	2800		ug/L	417028	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Hexavalent Chromium	SW7199	NA	08/20/13	1	0.42	0.50	ND		ug/L	417020	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch	
Ferrous Iron (Total)	H8146	NA	08/20/13	1	0.1	0.1	2.2		mg/L	417062	NA	•

Total Page Count: 19 Page 10 of 19



Report prepared for: Brian Doherty Date Received: 08/20/13
Tec Accutite Date Reported: 08/27/13

Client Sample ID: MW-9 Lab Sample ID: 1308133-007A

Project Name/Location: 1435 Webster Sample Matrix: Water

 Project Number:
 T0600100766

 Date/Time Sampled:
 08/20/13 / 9:32

 Tag Number:
 T0600100766

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Iron (Dissolved)	SW6020	NA	08/23/13	1	1.0	1.0	38		ug/L	417028	NA
Chromium (Dissolved)	SW6020	NA	08/23/13	1	0.12	0.50	ND		ug/L	417028	NA
Arsenic (Dissolved)	SW6020	NA	08/23/13	1	0.11	0.30	0.34		ug/L	417028	NA
Selenium (Dissolved)	SW6020	NA	08/23/13	1	0.083	1.0	ND		ug/L	417028	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Hexavalent Chromium	SW7199	NA	08/20/13	1	0.42	0.50	ND		ug/L	417020	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Ferrous Iron (Total)	H8146	NA	08/20/13	1	0.1	0.1	ND		mg/L	417062	NA

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# **MB Summary Report**

Work Order:	1308133	Prep I	Method:	NA	Prep	Date:	NA	Prep Batch:	NA
Matrix:	Water	Analy		SW7199	Anal	yzed Date:	08/20/13	Analytical	417020
Units:	ug/L	Metho	oa:					Batch:	
Parameters		MDL	PQL	Method Blank Conc.	Lab Qualifier				
Hexavalent Chromi	ium	0.42	0.50	ND					
Work Order:	1308133	Prep I	Method:	NA	Prep	Date:	NA	Prep Batch:	NA
Matrix:	Water	Analy		SW6020	Anal	yzed Date:	08/23/13	Analytical	417028
Units:	ug/L	Metho	od:					Batch:	
Parameters		MDL	PQL	Method Blank Conc.	Lab Qualifier				
Iron (Dissolved)		1.0	1.0	ND	•	•			
Chromium (Dissolv		0.12	0.50	ND					
Arsenic (Dissolved)		0.11	0.30	0.16					
Selenium (Dissolve	ed)	0.083	1.0	ND					
Work Order:	1308133	Prep I	Method:	NA	Prep	Date:	NA	Prep Batch:	NA
Matrix:	Water	Analy		H8146	Anal	yzed Date:	08/20/13	Analytical	417062
Units:	mg/L	Metho	od:					Batch:	
Parameters		MDL	PQL	Method Blank Conc.	Lab Qualifier				
Ferrous Iron (Total)	)	0.1	0.1	0.1	•				

Total Page Count: 19 Page 12 of 19



# LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1308133	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical	SW7199	Analyzed Date:	08/20/13	Analytical	417020
Units:	ug/L	Method:				Batch:	

Parameters	MDL	PQL	Blank Conc.	Conc.	Recovery	Recovery	% RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Hexavalent Chromium	0.42	0.50	ND	10	104	102	1.80	90 - 110	15	

Work Order:	1308133	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water	Analytical	SW6020	Analyzed Date:	08/23/13	Analytical	417028
Units:	ug/L	Method:				Batch:	

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Iron (Dissolved)	1.0	1.0	ND	50	89.7	95.0	5.44	80 - 120	20	
Chromium (Dissolved)	0.12	0.50	ND	50	84.9	84.9	1.05	80 - 120	20	
Arsenic (Dissolved)	0.11	0.30	0.16	50	87.3	90.3	2.58	80 - 120	20	
Selenium (Dissolved)	0.083	1.0	ND	50	115	103	9.96	80 - 120	20	

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## **MS/MSD Summary Report**

Raw values are used in quality control assessment.

Work Order: 1308133 Prep Method: NA NA

Prep Batch: NA

Matrix:

Units:

Water

Analytical SW7199 Method:

**Analyzed Date:** 08/20/13 Analytical Batch:

417020

Spiked Sample:

1308133-002A

ug/L

Spike PQL MS % MSD % MS/MSD % RPD MDL Sample Lab Conc. Conc. % RPD Recovery Limits Qualifier Recovery Recovery Limits 0.42 0.50 1.692 10 112 113 0.686 85 - 115

Work Order:

**Parameters** 

1308133

Prep Method:

Prep Date:

Prep Date:

NA

Prep Batch:

20

Matrix:

Water

Analytical

Method:

SW6020

NA

Analyzed Date:

08/23/13

Analytical Batch:

NA 417028

Spiked Sample:

1308133-001A

Units: ua/L

Hexavalent Chromium

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Iron (Dissolved)	1.0	1.0	1900	50	0.000	0.000	5.04	75 - 125	20	NR,S
Chromium (Dissolved)	0.12	0.50	5.5	50	92.3	93.9	0.824	75 - 125	20	
Arsenic (Dissolved)	0.11	0.30	2.3	50	78.8	79.9	0.634	75 - 125	20	
Selenium (Dissolved)	0.083	1.0	0.00	50	81.2	84.6	3.12	75 - 125	20	

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Ferrous Iron (Total)

# **Duplicate QC Summary Report**

Work Order:	1308133	Pre	p Method:	NA	F	Prep Date:	NA	Prep Batch:	NA
Matrix:	Water		alytical thod:	H8146	A	Analyzed Date:	08/20/13	Analytical Batch:	417062
Units:								Lab Sample ID:	1308133-001A-Dup
Parameters		MDL	<u>PQL</u>	Sample Result	Duplicate Result	% RPD			

Raw values are used in quality control assessment.

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### Laboratory Qualifiers and Definitions

#### **DEFINITIONS:**

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.

**Blank (Method/Preparation Blank)** -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.

**Duplicate** - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)

Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.

Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)

Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.

Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero

Practical Quantitation Limit (PQL) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.

Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates

Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis

**Tentatively Identified Compound (TIC) -** A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.

**Units:** the unit of measure used to express the reported result - **mg/L** and **mg/Kg** (equivalent to PPM - parts per million in **liquid** and **solid**), **ug/L** and **ug/Kg** (equivalent to PPB - parts per billion in **liquid** and **solid**), **ug/m3**, **mg.m3**, **ppbv** and **ppmv** (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

#### **LABORATORY QUALIFIERS:**

- B Indicates when the anlayte is found in the associated method or preparation blank
- **D** Surrogate is not recoverable due to the necessary dilution of the sample
- **E** Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
- H- Indicates that the recommended holding time for the analyte or compound has been exceeded
- J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
- NA Not Analyzed
- N/A Not Applicable
- NR Not recoverable a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
- R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
- S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case parrative
- **X** -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

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## Sample Receipt Checklist

Client Name: Tec Accutite Date and Time Received: 8/20/2013 14:30

Project Name: <u>1435 Webster</u> Received By: <u>ke</u>

Work Order No.: 1308133 Physically Logged By: ng

Checklist Completed By: ng

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present? <u>Yes</u>

Chain of custody signed when relinquished and received? Yes

Chain of custody agrees with sample labels? Yes

Custody seals intact on sample bottles? <u>Not Present</u>

**Sample Receipt Information** 

Custody seals intact on shipping container/cooler?

Not Present

Shipping Container/Cooler In Good Condition? <u>Yes</u>

Samples in proper container/bottle? Yes

Samples containers intact? <u>Yes</u>

Sufficient sample volume for indicated test? Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes

Container/Temp Blank temperature in compliance? <u>Yes</u> Temperature: <u>7</u> °C

Water-VOA vials have zero headspace? No VOA vials submitted

Water-pH acceptable upon receipt? N/A

pH Checked by: n/a pH Adjusted by: n/a

Samples received in a cooler with ice at 7 deg C.



## **Login Summary Report**

Client ID: TL5132 Tec Accutite QC Level: II

 Project Name:
 1435 Webster
 TAT Requested:
 5+ day:0

 Project #:
 T0600100766
 Date Received:
 8/20/2013

Report Due Date: 8/27/2013 Time Received: 14:30

Comments: Dissolved metals by ICP-MS

Work Order #: 1308133

WO Sample ID	Client Sample ID	Collection Date/		<u>Matrix</u>	Scheduled Disposal	Sample On Hold	<u>Test</u> On Hold	Requested Tests	Subbed
1308133-001A	MW-2	08/20/13		Water	10/04/13			_	
								W_6020_D	
								EDF	
								W_Ferrous Iron W_7199CrVI	
Osmanla Natar	Discolused markets Fo. Cr. C	- A- Hay (	Ob	Fama				W_7 199CIVI	
Sample Note:	Dissolved metals-Fe, Cr, S EDF, PDF. Run to ESLs	e, As. Hex-	onrome,	, Ferrous II	on.				
1308133-002A	MW-3	08/20/13	10:16	Water	10/04/13				
		00/20/10		···aio.	. 0, 0 ., . 0			W_6020_D	
								W_Ferrous Iron	
								W_7199CrVI	
1308133-003A	MW-4	08/20/13	12:28	Water	10/04/13				
								W_6020_D	
								W_7199CrVI	
1308133-004A	MW-6	08/20/13	0.54	Water	10/04/13			W_Ferrous Iron	
1306133-004A	10100-6	00/20/13	9.54	vvalei	10/04/13			W_6020_D	
								W_Ferrous Iron	
								W_7199CrVI	
1308133-005A	MW-7	08/20/13	11:54	Water	10/04/13			=	
								W_6020_D	
								W_7199CrVI	
								W_Ferrous Iron	
1308133-006A	MW-8	08/20/13	12:41	Water	10/04/13			W 0000 B	
								W_6020_D W_7199CrVI	
								W_Ferrous Iron	
1308133-007A	MW-9	08/20/13	9:32	Water	10/04/13			vv_i ellous iloli	
1000100 00171		30/20/10	0.02	· rator	10,01,10			W 6020 D	
								W_Ferrous Iron	
								W_7199CrVI	

Sample Note:

Total Page Count: 19 Page 18 of 19





### **CHAIN OF CUSTODY**

Lab Work Order #: <u>1.308133</u>

Project Name:	1435 Webster			Report to: <u>Brian</u> tecaccutite@gmail.com		Analysis Required								Turn-around Time (work days)			
						ed Metals Sr, Se, As)	7196 Hex Chromium	SM3500D Ferrous Iron						ASAP	1 Day	2 Days	3 Days
Project				Bill to: TEC Accutite (650) 616-1200										5 Days	10 Days	Other:	
ddress:										×				Sample Type			
lobal ID: T0600100766				2400		solv Fe, C	Hex CF	00D Fer						ground	water		
ampler:	er: BD Date: 8/26/13				PO# 21998					1					Repor	Report Format	
Field Point ID	Sample ID	Sample Matrix	# of Containers	Container	Sample Date	6020B Dissolved (including Fe, Cr,	7196	SM35						EDF, P	OF .		
				Туре	& Time										Rei	narks	
MW-2	MW-2	w	2	Poly and amber w/septa	8/20/13	1	1	1						Run to	ESLs		
MW-3	MW-3	w	2	Poly and amber w/septa	8/20/13	1	1	. /								-	
MW-4	MW-4	, W	2	Poly and amber w/septa	8/4/13	1	1	/								,	
MW-6	MW-6	w	2	Poly and amber w/septa	8/2013	1	1	J									
MW-7	MW-7	w	2	Poly and amber w/septa	8/20/13	1	1	1								,	
MW-8	MW-8	W	2	Poly and amber w/septa	8/20/3	1	1	1				,					
MW-9	MW-9	W	2	Poly and amber w/septa	8/26/13 0932	1	1	1							79		
															1		
Relinquished by: Brian Doherty Date: 8/20/13					Time: 14:30			Received by: Kayhue & &			Date: Time: 9-20-2013 1430						
Relinquishe	d by:			Date:		Time:			Received b				Da			Time	e:

Login by : MZ

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# ATTACHMENT C

GEOTRACKER SUBMISSION CONFIRMATIONS



#### STATE WATER RESOURCES CONTROL BOARD

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**UPLOADING A EDF FILE** 

# **SUCCESS**

Processing is complete. No errors were found! Your file has been successfully submitted!

Submittal Type: EDF

Report Title: THIRD QUARTER 2013 GROUNDWATER MONITORING REPORT

Report Type: Monitoring Report - Quarterly

Facility Global ID: T0600100766

Facility Name: OLYMPIAN #112

File Name: TEC Accutite 1307049 1435 Webster EDF.zip

Organization Name: TEC Accutite
Username: TEC-OLYMPIAN
IP Address: 67.126.45.211

Submittal Date/Time: 9/5/2013 4:51:12 PM

**Confirmation Number: 2593631803** 

**VIEW QC REPORT** 

**VIEW DETECTIONS REPORT** 

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Submittal Type: EDF

Report Title: THIRD QUARTER 2013 GROUNDWATER MONITORING REPORT

Report Type: Monitoring Report - Quarterly

Facility Global ID: T0600100766

Facility Name: OLYMPIAN #112

File Name: TEC Accutite 1308133 1435 Webster EDF.zip

Organization Name: TEC Accutite
Username: TEC-OLYMPIAN
IP Address: 67.126.45.211

Submittal Date/Time: 9/5/2013 4:52:40 PM

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<u>Submittal Type:</u> GEO\_WELL

Report Title: THIRD QUARTER 2013 GROUNDWATER MONITORING REPORT

Facility Global ID: T0600100766
Facility Name: OLYMPIAN #112
File Name: GEO\_WELL.zip
Organization Name: TEC Accutite
Username: TEC-OLYMPIAN
IP Address: 67.126.45.211

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