



76 Broadway
Sacramento, California 95818

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1:34 pm, Jul 29, 2009

Alameda County
Environmental Health

July 21, 2009

Barbara Jakub
Alameda County Health Agency
1131 Harbor Bay parkway, Suite250
Alameda, California 94502-577

Re: **Quarterly Summary Report (QSR)—Second Quarter 2009**
76 Service Station # 6129 RO # 058
3420 35th Ave
Oakland, CA

Dear Ms. Jakub:

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

If you have any questions or need additional information, please call me at (916) 558-7666.

Sincerely,

Terry L. Grayson
Site Manager
Risk Management & Remediation

July 21, 2009

Ms. Barbara Jakub
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

**Re: Quarterly Summary Report – Second Quarter 2009
Fuel Leak Case No. R0000058**

Dear Ms. Jakub:

On behalf of ConocoPhillips Company (COP), Delta Consultants (Delta) is submitting the Quarterly Summary Report – Second Quarter 2009 and forwarding a copy of TRC Solutions, Inc. (TRC's) *Quarterly Monitoring Report, April through June 2009*, dated July 6, 2009, for the following location:



Service Station

76 Service Station No. 6129

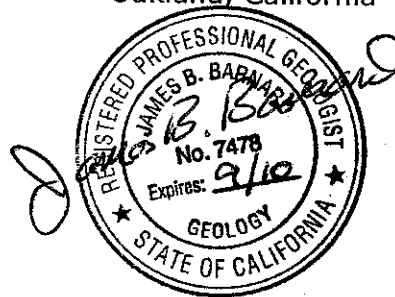
Location

3420 35th Avenue
Oakland, California

Sincerely,
DELTA CONSULTANTS

A handwritten signature in black ink that reads "James B. Barnard".

James B. Barnard, P.G.
Senior Project Manager
California Registered Professional Geologist No. 7478



cc: Mr. Terry Grayson, ConocoPhillips (electronic copy)

QUARTERLY SUMMARY REPORT
Second Quarter 2009
76 Service Station No. 6129
3420 35th Avenue
Oakland, California

SITE DESCRIPTION

The site is currently an operating 76 Service Station that dispenses gasoline stored in two 12,000-gallon underground storage tanks (USTs) from two dispenser islands. An automotive repair facility is present at the site which contains three service bays. Additionally, there is one used-oil UST, three hydraulic lifts, and three groundwater monitoring wells (MW-1 through MW-3) present at the site. There was previously one used-oil UST, one clarifier beneath the central hydraulic lift, and two floor drains, all of which have been removed.

PREVIOUS ASSESSMENT

According to Kaprealian Engineering, Inc. (KEI), in 1989 two 10,000-gallon gasoline USTs and one 550-gallon waste oil UST were removed from the site. Analytical data from soil samples collected beneath the former gasoline USTs, used-oil UST, and product piping indicated low concentrations of petroleum hydrocarbons were present in each of the sampling areas. Three groundwater monitoring wells (MW-1 through MW-3) were installed in 1989 to depths of approximately 44 feet below ground surface (bgs).

In 1990, four soil borings (EB1 through EB4) were advanced at the site in the vicinity of MW-3 in an attempt to define the petroleum hydrocarbon impact to soil. Based on the analytical data from the soil sampling, approximately 230 cubic yards of soil were excavated from an area between the dispenser islands and around monitoring well MW-3 in 1991. The excavation was completed as to not destroy monitoring well MW-3. Analytical data from confirmation soil samples indicated the majority of the impacted soil had been removed.

On November 12 and 13, 2003, as part of a due diligence investigation, four soil borings (SB-1 and SB-3 through SB-5) were advanced to total depths of approximately 31.5 to 36.5 feet bgs. Proposed boring SB-2 was unable to be advanced due to the presence of subsurface utilities and/or structures. Groundwater was encountered in the borings at a depth of approximately 35 feet bgs. Methyl tertiary butyl ether (MTBE) was reported at concentrations ranging from 0.37 to 0.41 milligrams per kilogram (mg/kg) in the soil samples collected at depths ranging from 26 and 31 feet bgs. All other constituents were below the laboratory's indicated reporting limits for the soil samples analyzed. The three existing groundwater monitoring wells were sampled on November 13, 2003. Analytical data indicated MTBE was present at concentrations ranging from 240 and 3,700 micrograms per liter ($\mu\text{g/L}$), with the most elevated concentrations found in monitoring wells MW-2 (2,100 $\mu\text{g/L}$) and MW-3 (3,700 $\mu\text{g/L}$).

On September 13, 2006, Delta observed the advancement of six boreholes by a licensed contractor using CPT technology. The CPT borings provided accurate continuous records of the subsurface lithology and stratigraphy and measured depth to

first groundwater. Groundwater and soil samples were not collected from the CPT borings.

On November 7 and 8, 2006, Delta observed the advancement of five soil borings (B-2, B-7, B-8, B-9, and B-14) by a licensed contractor using hollow stem auger technology. Four of these soil borings were advanced adjacent to the previously advanced CPT borings. On December 27, 2006, four soil borings (B-10, B-12, B-15, and B-16) were advanced using hollow stem auger technology. Soil samples were collected every five feet for lithologic descriptions, field hydrocarbon screening, and laboratory analysis. A description of this work is presented in the *Soil Boring Site Assessment Report* dated February 19, 2007.

SENSITIVE RECEPTORS

2004 - A 1,000-foot radius well search was completed by the request of the Alameda County Public Works Agency (ACPWA). The search indicated that a six-inch diameter irrigation well was located at 3397 Arkansas Street, approximately 800 feet west-northwest of the site. The well was installed in August 1977 to a total depth of 62 feet bgs with depth to water reported at 18 feet bgs. Alameda County Health Care Services update of July 30, 1984 reported the well owner as Arthur Smith.

2006 – A survey entailing a visit to the State of California Department of Water Resources (DWR) office in Sacramento was conducted to examine well log records and to identify domestic wells within the survey area. The DWR survey indicated three potential receptors were located within one mile of the site; two irrigation wells located 0.5 mile and 0.8 mile north (up-gradient) of the site and one domestic/irrigation well located 0.8 mile northeast (up-gradient) of the site. Two additional potential receptors were identified although the specific addresses could not be located. Based on groundwater gradient information and distance to the receptors from the site, identified receptors do not appear to be at risk due to gasoline constituents in groundwater at the site.

MONITORING AND SAMPLING

Groundwater monitoring and sampling activities were conducted at the site from January 1990 through May 1991. Sampling activities were re-initiated during the third quarter 2004. The monitoring well network is currently sampled on a quarterly basis. Samples collected from the monitoring wells are analyzed for total purgeable petroleum hydrocarbons (TPPH), benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and MTBE, di-isopropyl ether (DIPE), tertiary butyl alcohol (TBA), tertiary amyl methyl ether (TAME), ethyl tertiary butyl ether (ETBE), 1,2-dichloroethane (1,2-DCA), ethylene dibromide (EDB), and ethanol by Environmental Protection Agency (EPA) Method 8260. TRC has been retained to perform the monitoring and sampling. A copy of TRC's *Quarterly Monitoring Report - April through June 2009*, dated July 6, 2009 has been forwarded with this report.

During the most recent groundwater monitoring event, conducted on May 28, 2009, the depth to groundwater ranged from 27.55 feet (MW-3) to 28.25 feet (MW-1) below top of casing (TOC). The groundwater flow direction was interpreted to be to the southwest with a gradient of 0.02 foot per foot (ft/ft). This is inconsistent with the

previous quarterly sampling event when the groundwater flow direction was interpreted to be to the northwest with a gradient of 0.022 ft/ft. Historic groundwater flow directions presented as a rose diagram included as Attachment A.

Contaminants of Concern:

- **TPPH:** TPPH was above the laboratory's indicated reporting limits in the groundwater samples collected and submitted for analysis from monitoring wells MW-2 and MW-3 at concentrations of 460 µg/L and 410 µg/L, respectively during the current sampling event.
- **Benzene:** Benzene was below the laboratory's indicated reporting limit in each of the groundwater samples collected and submitted for analysis from the monitoring wells monitored and sampled during the current sampling event.
- **MTBE:** MTBE was above the laboratory's indicated reporting limits in the groundwater samples collected and submitted for analysis from monitoring wells MW-1, MW-2, and MW-3 at concentrations of 17 µg/L, 740 µg/L, and 750 µg/L, respectively during the current sampling event.
- **DIPE:** DIPE was above the laboratory's indicated reporting limits in the groundwater sample collected and submitted for analysis from monitoring well MW-2 at a concentration of 20 µg/L during the current sampling event.
- **TBA:** TBA was below the laboratory's indicated reporting limits in the groundwater sample collected and submitted for analysis from monitoring well all wells during the current sampling event.

With the exception of the constituents listed above, all other constituents tested were below the laboratory's indicated reporting limits the groundwater samples collected and submitted for analysis from the three monitoring wells during the second quarter 2009 sampling event.

REMEDIATION STATUS

Remediation has not been required by the lead regulatory agency for this site.

CHARACTERIZATION STATUS

A *Site Assessment Work Plan*, dated March 23, 2009, has been submitted to the agency for review. Delta is currently awaiting a response for Alameda County Health Care Services for the advancement of soil borings and installation of additional monitoring wells on-site. Groundwater monitoring is ongoing.

RECENT CORRESPONDENCE

No regulatory correspondence was received during the second quarter 2009.

WASTE DISPOSAL SUMMARY

In 1991, based on the analytical results of soil samples from borings EB1 through EB4, approximately 230 cubic yards of soil were excavated from the area between the dispensers and the pump islands in the area around MW-3.

Thirty three (33) drums of non-hazardous soil and water produced during recent field activities were transported off-site for disposal on 10/19/06 and 12/29/06.

THIS QUARTER ACTIVITIES (Second Quarter 2009)

1. TRC conducted the quarterly monitoring and sampling event at the site on May 28, 2009 and submitted *Quarterly Monitoring Report, April through June 2009*, dated July 6, 2009.

NEXT QUARTER ACTIVITIES (Third Quarter 2009)

1. TRC will conduct the quarterly groundwater monitoring and sampling event at the site
2. If approval of the submitted Site Assessment Work Plan (March 23, 2009) is received, Delta will initiate planned work and prepare a report.

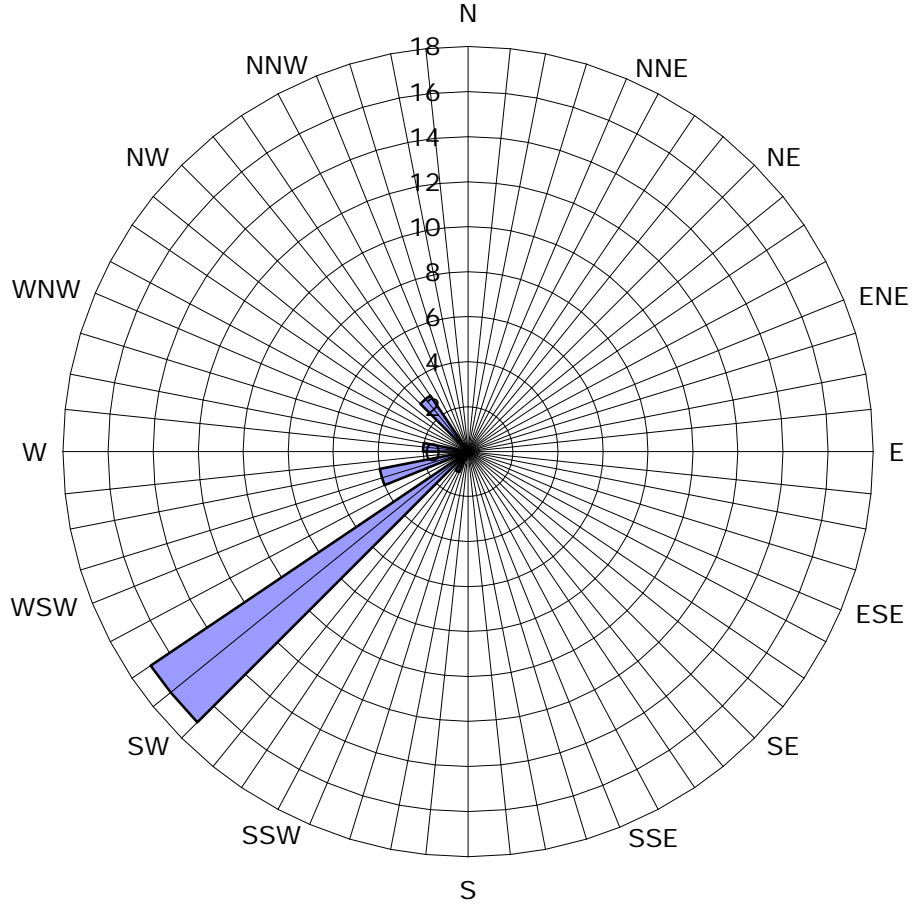
CONSULTANT: Delta Consultants

Attachment A – Historic Groundwater Flow Directions

Attachment A

Historic Groundwater Flow Directions

Historic Groundwater Flow Directions
ConocoPhillips Site No. 6129
3420 35th Avenue
Oakland, California



Legend
Concentric circles represent
Quarterly Monitoring Events:

First Quarter 1990 through
Second Quarter 2009

25 data points shown

■ Groundwater Flow Direction



21 Technology Drive
Irvine, CA 92618

949.727.9336 PHONE
949.727.7399 FAX

www.TRCSolutions.com

DATE: July 6, 2009

TO: ConocoPhillips Company
76 Broadway
Sacramento, CA 94563

ATTN: MR. TERRY GRAYSON

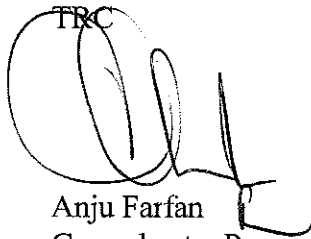
SITE: 76 STATION 6129
3420 35TH AVENUE
OAKLAND, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
APRIL THROUGH JUNE 2009

Dear Mr. Grayson,

Please find enclosed our Quarterly Monitoring Report for 76 Station 6129, located at 3420 35th Avenue, Oakland, California. If you have any questions regarding this report, please call us at (949) 727-9336.

Sincerely,

TRC


Anju Farfan
Groundwater Program Operations Manager

CC: Mr. James Barnard, Delta Consultants (1 copy)

Enclosures:
20-0400/6129R23 QMS

**QUARTERLY MONITORING REPORT
APRIL THROUGH JUNE 2009**

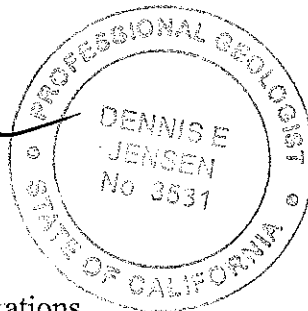
76 STATION 6129
3420 35th Avenue
Oakland, California

Prepared For:

Mr. Terry Grayson
CONOCOPHILLIPS COMPANY
76 Broadway
Sacramento, CA 94563

By:

Dennis E. Jensen



Senior Project Geologist, Irvine Operations

Date: 7/6/09



LIST OF ATTACHMENTS

Summary Sheet	Summary of Gauging and Sampling Activities
Tables	<p>Table Key</p> <p>Contents of Tables</p> <p>Table 1: Current Fluid Levels and Selected Analytical Results</p> <p>Table 1a: Additional Current Analytical Results</p> <p>Table 1b: Additional Current Analytical Results</p> <p>Table 2: Historic Fluid Levels and Selected Analytical Results</p> <p>Table 2a: Additional Historic Analytical Results</p> <p>Table 2b: Additional Historic Analytical Results</p> <p>Table 2c: Additional Historic Analytical Results</p>
Coordinated Event Data	<p><i>Former Exxon Station 7-0234</i></p> <p>Table 1A: Cumulative Groundwater Monitoring and Sampling Data</p> <p>Table 1B: Additional Cumulative Groundwater Monitoring and Sampling Data</p>
Figures	<p>Figure 1: Vicinity Map</p> <p>Figure 2: Groundwater Elevation Contour Map</p> <p>Figure 3: Dissolved-Phase TPH-G (GC/MS) Concentration Map</p> <p>Figure 4: Dissolved-Phase Benzene Concentration Map</p> <p>Figure 5: Dissolved-Phase MTBE Concentration Map</p>
Graphs	<p>Groundwater Elevations vs. Time</p> <p>Benzene Concentrations vs. Time</p> <p>MTBE 8260B Concentrations vs. Time</p>
Field Activities	<p>General Field Procedures</p> <p>Field Monitoring Data Sheet – 05/28/09</p> <p>Groundwater Sampling Field Notes – 05/28/09</p>
Laboratory Reports	<p>Official Laboratory Reports</p> <p>Quality Control Reports</p> <p>Chain of Custody Records</p>
Statements	<p>Purge Water Disposal</p> <p>Limitations</p>

Summary of Gauging and Sampling Activities
April 2009 through June 2009
76 Station 6129
3420 35th Ave.
Oakland, CA

Project Coordinator: **Terry Grayson**
Telephone: **916-558-7666**

Water Sampling Contractor: **TRC**
Compiled by: **Christina Carrillo**

Date(s) of Gauging/Sampling Event: **05/28/09**

Sample Points

Groundwater wells: **3** onsite, **0** offsite Points gauged: **3** Points sampled: **3**
Purging method: **Submersible pump**
Purge water disposal: **Veolia/Rodeo Unit 100**
Other Sample Points: **0** Type: --

Liquid Phase Hydrocarbons (LPH)

Sample Points with LPH: **0** Maximum thickness (feet): --
LPH removal frequency: -- Method: --
Treatment or disposal of water/LPH: --

Hydrogeologic Parameters

Depth to groundwater (below TOC): Minimum: **27.55 feet** Maximum: **28.25 feet**
Average groundwater elevation (relative to available local datum): **73.63 feet**
Average change in groundwater elevation since previous event: **-1.57 feet**
Interpreted groundwater gradient and flow direction:
 Current event: **0.02 ft/ft, southwest**
 Previous event: **0.022 ft/ft, northwest (03/09/09)**

Selected Laboratory Results

Sample Points with detected **Benzene**: **0** Sample Points above MCL (1.0 µg/l): --
 Maximum reported benzene concentration: --

Sample Points with **TPH-G by GC/MS** **2** Maximum: **460 µg/l (MW-2)**
Sample Points with **MTBE 8260B** **3** Maximum: **750 µg/l (MW-3)**

Notes:

TABLES

TABLE KEY

STANDARD ABBREVIATIONS

--	=	not analyzed, measured, or collected
LPH	=	liquid-phase hydrocarbons
Trace	=	less than 0.01 foot of LPH in well
ug/l	=	micrograms per liter (approx. equivalent to parts per billion, ppb)
mg/l	=	milligrams per liter (approx. equivalent to parts per million, ppm)
ND<	=	not detected at or above laboratory detection limit
TOC	=	top of casing (surveyed reference elevation)
D	=	duplicate
P	=	no-purge sample

ANALYTES

BTEX	=	benzene, toluene, ethylbenzene, and (total) xylenes
DIPE	=	di-isopropyl ether
ETBE	=	ethyl tertiary butyl ether
MTBE	=	methyl tertiary butyl ether
PCB	=	polychlorinated biphenyls
PCE	=	tetrachloroethene
TBA	=	tertiary butyl alcohol
TCA	=	trichloroethane
ICE	=	trichloroethene
IPH-G	=	total petroleum hydrocarbons with gasoline distinction
IPH-G (GC/MS)	=	total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B
IPH-D	=	total petroleum hydrocarbons with diesel distinction
TRPH	=	total recoverable petroleum hydrocarbons
TAME	=	tertiary amyl methyl ether
1,1-DCA	=	1,1-dichloroethane
1,2-DCA	=	1,2-dichloroethane (same as EDC, ethylene dichloride)
1,1-DCE	=	1,1-dichloroethene
1,2-DCE	=	1,2-dichloroethene (cis- and trans-)

NOTES

1. Elevations are in feet above mean sea level. Depths are in feet below surveyed top-of-casing.
2. Groundwater elevations for wells with LPH are calculated as: $\text{Surface Elevation} - \text{Measured Depth to Water} + (\text{Dp} \times \text{LPH Thickness})$, where Dp is the density of the LPH, if known. A value of 0.75 is used for gasoline and when the density is not known. A value of 0.83 is used for diesel.
3. Wells with LPH are generally not sampled for laboratory analysis (see General Field Procedures).
4. Comments shown on tables are general. Additional explanations may be included in field notes and laboratory reports, both of which are included as part of this report.
5. A "J" flag indicates that a reported analytical result is an estimated concentration value between the method detection limit (MDL) and the practical quantification limit (PQL) specified by the laboratory.
6. Other laboratory flags (qualifiers) may have been reported. See the official laboratory report (attached) for a complete list of laboratory flags.
7. Concentration graphs based on tables (presented following Figures) show non-detect results prior to the Second Quarter 2000 plotted at fixed values for graphical display. Non-detect results reported since that time are plotted at reporting limits stated in the official laboratory report.

REFERENCE

TRC began groundwater monitoring and sampling 76 Station 6129 in August 2004

Table 1
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
May 28, 2009
76 Station 6129

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1														
05/28/09	102.24	28.25	0.00	73.99	-0.75	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	17	
MW-2														
05/28/09	102.16	27.71	0.00	74.45	-1.96	--	460	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	740	
MW-3														
05/28/09	100.00	27.55	0.00	72.45	-1.99	--	410	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	750	

Table 1 a
ADDITIONAL CURRENT ANALYTICAL RESULTS
76 Station 6129

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Iron Ferric (µg/l)
MW-1 05/28/09	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.88	ND<2.0	21	ND<10	27000
MW-2 05/28/09	ND<10	ND<250	ND<0.50	ND<0.50	20	ND<0.50	ND<0.50	1.6	ND<2.0	49	ND<10	43000
MW-3 05/28/09	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.5	ND<2.0	23	ND<10	11000

Table 1 b
ADDITIONAL CURRENT ANALYTICAL RESULTS
76 Station 6129

Date Sampled	Iron Ferrous (µg/l)	Iron (total) (µg/l)	Manganese (dissolved) (µg/l)	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Alkalinity (total) (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Con-ductance (µmhos)	Pre-purge Dissolved Oxygen (mg/l)	Pre-purge ORP (mV)
MW-1												
05/28/09	ND<500	27000	10	680	2.9	43	310	7.7	126	798	4.05	70
MW-2												
05/28/09	ND<1000	44000	4.3	500	1.6	40	370	7.1	138	813	1.54	80
MW-3												
05/28/09	ND<500	12000	49	300	ND<0.44	39	300	7.5	125	667	0.91	66

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
January 1990 Through May 2009
76 Station 6129

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1														
01/05/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
05/11/90	--	--	--	--	--	ND	--	ND	7.1	ND	ND	--	--	
08/09/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/14/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
02/12/91	--	--	--	--	--	ND	--	0.32	ND	ND	ND	--	--	
05/09/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/13/03	--	--	--	--	--	--	180	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	240	
08/27/04	102.24	30.65	0.00	71.59	--	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
11/23/04	102.24	29.35	0.00	72.89	1.30	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
02/09/05	102.24	26.89	0.00	75.35	2.46	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	9.3	
05/17/05	102.24	26.56	0.00	75.68	0.33	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.9	
07/27/05	102.24	27.33	0.00	74.91	-0.77	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/06/05	102.24	29.59	0.00	72.65	-2.26	--	ND<50	ND<0.50	0.93	ND<0.50	1.8	--	ND<0.50	
02/21/06	102.24	28.27	0.00	73.97	1.32	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.6	
06/08/06	102.24	26.07	0.00	76.17	2.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	11	
09/15/06	102.24	28.86	0.00	73.38	-2.79	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.4	
12/14/06	102.24	29.49	0.00	72.75	-0.63	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	3.5	
03/28/07	102.24	27.24	0.00	75.00	2.25	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	0.64	
06/25/07	102.24	28.30	0.00	73.94	-1.06	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
09/22/07	102.24	30.61	0.00	71.63	-2.31	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	4.1	
12/14/07	102.24	30.30	0.00	71.94	0.31	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	0.65	
03/17/08	102.24	27.22	0.00	75.02	3.08	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	14	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
January 1990 Through May 2009
76 Station 6129

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground- water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1 continued														
06/20/08	102.24	30.10	0.00	72.14	-2.88	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	11	
09/11/08	102.24	31.04	0.00	71.20	-0.94	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.3	
11/25/08	102.24	30.88	0.00	71.36	0.16	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.8	
03/09/09	102.24	27.50	0.00	74.74	3.38	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	25	
05/28/09	102.24	28.25	0.00	73.99	-0.75	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	17	
MW-2														
01/05/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
05/11/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/09/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/14/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
02/12/91	--	--	--	--	--	ND	--	ND	0.42	ND	0.51	--	--	
05/09/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/13/03	--	--	--	--	--	--	ND<2000	ND<20	ND<20	ND<20	ND<40	--	2100	
08/27/04	102.16	30.28	0.00	71.88	--	--	950	ND<5.0	ND<5.0	ND<5.0	ND<10	--	1400	
11/23/04	102.16	28.75	0.00	73.41	1.53	--	53	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.2	
02/09/05	102.16	26.08	0.00	76.08	2.67	--	ND<500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	400	
05/17/05	102.16	24.53	0.00	77.63	1.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	330	
07/27/05	102.16	27.51	0.00	74.65	-2.98	--	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<10	--	580	
12/06/05	102.16	29.13	0.00	73.03	-1.62	--	340	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	780	
02/21/06	102.16	29.23	0.00	72.93	-0.10	--	190	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	340	
06/08/06	102.16	25.76	0.00	76.40	3.47	--	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<10	--	440	
09/15/06	102.16	29.17	0.00	72.99	-3.41	--	ND<500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	570	
12/14/06	102.16	29.11	0.00	73.05	0.06	--	520	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	770	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
January 1990 Through May 2009
76 Station 6129

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-2 continued														
03/28/07	102.16	26.68	0.00	75.48	2.43	--	290	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	460	
06/25/07	102.16	25.91	0.00	76.25	0.77	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	1.2	
09/22/07	102.16	30.18	0.00	71.98	-4.27	--	400	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	530	
12/14/07	102.16	29.96	0.00	72.20	0.22	--	400	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	930	
03/17/08	102.16	26.74	0.00	75.42	3.22	--	570	ND<5.0	ND<5.0	ND<5.0	ND<10	--	630	
06/20/08	102.16	29.78	0.00	72.38	-3.04	--	580	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1200	
09/11/08	102.16	30.62	0.00	71.54	-0.84	--	220	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	29	
11/25/08	102.16	30.48	0.00	71.68	0.14	--	500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1500	
03/09/09	102.16	25.75	0.00	76.41	4.73	--	910	ND<5.0	ND<5.0	ND<5.0	ND<10	--	1400	
05/28/09	102.16	27.71	0.00	74.45	-1.96	--	460	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	740	
MW-3														
01/05/90	--	--	0.00	--	--	ND	--	ND	ND	ND	ND	--	--	
05/11/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
08/09/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/14/90	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
02/12/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
05/09/91	--	--	--	--	--	ND	--	ND	ND	ND	ND	--	--	
11/13/03	--	--	--	--	--	--	2600	ND<20	ND<20	ND<20	ND<40	--	3700	
08/27/04	100.00	29.61	0.00	70.39	--	--	1700	ND<10	ND<10	ND<10	ND<20	--	2600	
11/23/04	100.00	28.48	0.00	71.52	1.13	--	1500	ND<10	ND<10	ND<10	ND<20	--	1800	
02/09/05	100.00	26.45	0.00	73.55	2.03	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2100	
05/17/05	100.00	25.61	0.00	74.39	0.84	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1200	
07/27/05	100.00	27.35	0.00	72.65	-1.74	--	ND<1000	ND<10	ND<10	ND<10	ND<20	--	1400	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
January 1990 Through May 2009
76 Station 6129

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-3 continued														
12/06/05	100.00	28.78	0.00	71.22	-1.43	--	430	ND<0.50	1.6	ND<0.50	3.6	--	1800	
02/21/06	100.00	28.91	0.00	71.09	-0.13	--	420	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1100	
06/08/06	100.00	25.97	0.00	74.03	2.94	--	ND<1200	ND<12	ND<12	ND<12	ND<25	--	1000	
09/15/06	100.00	28.73	0.00	71.27	-2.76	--	ND<1200	ND<12	ND<12	ND<12	ND<12	--	1200	
12/14/06	100.00	28.62	0.00	71.38	0.11	--	ND<1000	ND<10	ND<10	ND<10	ND<10	--	1300	
03/28/07	100.00	26.69	0.00	73.31	1.93	--	500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	860	
06/25/07	100.00	26.74	0.00	73.26	-0.05	--	270	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	570	
09/22/07	100.00	29.57	0.00	70.43	-2.83	--	500	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	980	
12/14/07	100.00	29.30	0.00	70.70	0.27	--	270	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	570	
03/17/08	100.00	26.82	0.00	73.18	2.48	--	220	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	520	
06/20/08	100.00	29.10	0.00	70.90	-2.28	--	490	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1300	
09/11/08	100.00	29.89	0.00	70.11	-0.79	--	630	ND<5.0	ND<5.0	ND<5.0	ND<10	--	1200	
11/25/08	100.00	29.74	0.00	70.26	0.15	--	380	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	870	
03/09/09	100.00	25.56	0.00	74.44	4.18	--	310	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	720	
05/28/09	100.00	27.55	0.00	72.45	-1.99	--	410	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	750	

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 6129

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Iron Ferric (µg/l)
MW-1												
11/13/03	ND<200	ND<1000	ND<4.0	ND<4.0	ND<4.0	ND<4.0	ND<4.0	--	--	--	--	--
08/27/04	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	--
11/23/04	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50	--	--	--	--	--
02/09/05	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
05/17/05	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
07/27/05	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
12/06/05	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/21/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
06/08/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
09/15/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
12/14/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
03/28/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
06/25/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
09/22/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
12/14/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
03/17/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
06/20/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
09/11/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/25/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
03/09/09	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.83	--	--	--	--
05/28/09	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.88	ND<2.0	21	ND<10	27000
MW-2												
11/13/03	ND<4000	ND<20000	ND<80	ND<80	ND<80	ND<80	ND<80	--	--	--	--	--
08/27/04	ND<50	ND<500	ND<5.0	ND<5.0	24	ND<5.0	ND<5.0	--	--	--	--	--
11/23/04	ND<5.0	ND<50	ND<0.50	ND<0.50	18	ND<0.50	ND<0.50	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 6129

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Iron Ferric (µg/l)
MW-2 continued												
02/09/05	ND<50	ND<500	ND<5.0	ND<5.0	19	ND<5.0	ND<5.0	--	--	--	--	--
05/17/05	ND<5.0	ND<50	ND<0.50	ND<0.50	12	ND<0.50	ND<0.50	--	--	--	--	--
07/27/05	140	ND<500	ND<5.0	ND<5.0	16	ND<5.0	ND<5.0	--	--	--	--	--
12/06/05	61	ND<250	ND<0.50	ND<0.50	15	ND<0.50	ND<0.50	--	--	--	--	--
02/21/06	ND<10	ND<250	ND<0.50	ND<0.50	18	ND<0.50	ND<0.50	--	--	--	--	--
06/08/06	ND<100	ND<2500	ND<5.0	ND<5.0	14	ND<5.0	ND<5.0	--	--	--	--	--
09/15/06	ND<100	ND<2500	ND<5.0	ND<5.0	17	ND<5.0	ND<5.0	--	--	--	--	--
12/14/06	27	ND<250	ND<0.50	ND<0.50	20	ND<0.50	ND<0.50	--	--	--	--	--
03/28/07	260	ND<250	ND<0.50	ND<0.50	23	ND<0.50	ND<0.50	--	--	--	--	--
06/25/07	ND<10	ND<250	ND<0.50	ND<0.50	23	ND<0.50	ND<0.50	--	--	--	--	--
09/22/07	ND<10	ND<250	ND<0.50	ND<0.50	35	ND<0.50	ND<0.50	--	--	--	--	--
12/14/07	48	ND<250	ND<0.50	ND<0.50	24	ND<0.50	ND<0.50	--	--	--	--	--
03/17/08	ND<100	ND<2500	ND<5.0	ND<5.0	18	ND<5.0	ND<5.0	--	--	--	--	--
06/20/08	ND<10	ND<250	ND<0.50	ND<0.50	16	ND<0.50	ND<0.50	--	--	--	--	--
09/11/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
11/25/08	ND<10	ND<250	ND<0.50	ND<0.50	19	ND<0.50	ND<0.50	--	--	--	--	--
03/09/09	ND<100	ND<2500	ND<5.0	ND<5.0	15	ND<5.0	ND<5.0	1.4	--	--	--	--
05/28/09	ND<10	ND<250	ND<0.50	ND<0.50	20	ND<0.50	ND<0.50	1.6	ND<2.0	49	ND<10	43000
MW-3												
11/13/03	ND<4000	ND<20000	ND<80	ND<80	ND<80	ND<80	ND<80	--	--	--	--	--
08/27/04	ND<100	ND<1000	ND<10	ND<10	ND<20	ND<10	ND<10	--	--	--	--	--
11/23/04	ND<100	ND<1000	ND<10	ND<10	ND<20	ND<10	ND<10	--	--	--	--	--
02/09/05	130	ND<1000	ND<10	ND<10	ND<10	ND<10	ND<10	--	--	--	--	--
05/17/05	ND<100	ND<1000	ND<10	ND<10	ND<10	ND<10	ND<10	--	--	--	--	--
07/27/05	360	ND<1000	ND<10	ND<10	ND<10	ND<10	ND<10	--	--	--	--	--

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 6129

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)	Carbon (organic, total) (mg/l)	Chromium VI (µg/l)	Chromium (total) (µg/l)	Chromium (dissolved) (µg/l)	Iron Ferric (µg/l)
MW-3 continued												
12/06/05	160	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
02/21/06	88	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.58	--	--	--	--	--
06/08/06	ND<250	ND<6200	ND<12	ND<12	ND<12	ND<12	ND<12	--	--	--	--	--
09/15/06	ND<250	ND<6200	ND<12	ND<12	ND<12	ND<12	ND<12	--	--	--	--	--
12/14/06	ND<200	ND<5000	ND<10	ND<10	ND<10	ND<10	ND<10	--	--	--	--	--
03/28/07	500	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	--	--	--	--
06/25/07	11	ND<250	ND<0.50	0.65	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
09/22/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
12/14/07	26	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
03/17/08	ND<10	ND<250	ND<0.50	0.65	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
06/20/08	49	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
09/11/08	ND<100	ND<2500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	--	--	--	--
11/25/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	--	--	--	--
03/09/09	15	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.4	--	--	--	--
05/28/09	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.5	ND<2.0	23	ND<10	11000

Table 2 b
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 6129

Date Sampled	Iron Ferrous (µg/l)	Iron (total) (µg/l)	Manganese (dissolved) (µg/l)	Manganese (total) (µg/l)	Nitrogen as Nitrate (mg/l)	Sulfate (mg/l)	Alkalinity (total) (mg/l)	Dissolved Oxygen (Lab) (mg O/)	Redox Potential (ORP-Lab) (mV)	Specific Conductance (µmhos)	Post-purge Dissolved Oxygen (mg/l)	Pre-purge Dissolved Oxygen (mg/l)
MW-1												
03/09/09	ND<1000	--	--	--	2.0	46	310	--	--	--	1.95	2.54
05/28/09	ND<500	27000	10	680	2.9	43	310	7.7	126	798	--	4.05
MW-2												
03/09/09	940	--	--	--	2.0	41	410	--	--	--	0.85	1.32
05/28/09	ND<1000	44000	4.3	500	1.6	40	370	7.1	138	813	--	1.54
MW-3												
03/09/09	ND<500	--	--	--	ND<0.44	38	310	--	--	--	0.94	0.84
05/28/09	ND<500	12000	49	300	ND<0.44	39	300	7.5	125	667	--	0.91

Table 2 c
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 6129

Date Sampled	Pre-purge ORP (mV)	Post-purge ORP (mV)
MW-1		
03/09/09	8	24
05/28/09	70	--
MW-2		
03/09/09	39	56
05/28/09	80	--
MW-3		
03/09/09	14	32
05/28/09	66	--

COORDINATED EVENT DATA

**TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA**

Former Exxon Service Station 70234
3450 35th Avenue
Oakland, California

Well ID	Sampling Date	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHg (µg/L)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	Total Pb (µg/L)	Organic Pb (mg/L)
MW1	07/15/92	---	Well installed.										
MW1	07/17/92	192.00	33.02	158.98	No	67	---	6.6	6.9	2.0	4.5	17	---
MW1	10/22/92	192.00	34.07	157.93	No	<50	---	2.9	<0.5	<0.5	<0.5	16	---
MW1	02/04/93	192.00	29.43	162.57	No	<50	---	0.8	<0.5	<0.5	<0.5	4	---
MW1	05/03/93	192.00	29.72	162.28	No	71	---	2.8	7.2	2.2	22	40	---
MW1	07/30/93	192.00	32.95	159.05	No	<50	---	<0.5	<0.5	<0.5	<0.5	5	---
MW1	10/19/93	192.00	34.34	157.66	No	<50	---	<0.5	<0.5	<0.5	<0.5	12	---
MW1	02/23/94	192.00	31.72	160.28	No	<50	---	<0.5	<0.5	<0.5	<0.5	4	---
MW1	06/06/94	192.00	31.77	160.23	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3	---
MW1	08/18/94	192.00	33.76	158.24	No	<50	---	<0.5	<0.5	<0.5	<0.5	130	---
MW1	11/15/94	192.00	34.08	157.92	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3.0	<100
MW1	02/06/95	192.00	28.50	163.50	No	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
MW1	05/10/95	192.00	29.30	162.70	No	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
MW1	09/20/99	192.00	33.30	158.70	No	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<75	<50
MW1	Well destroyed in June 200												
MW2	07/15/92	---	Well installed.										
MW2	07/17/92	194.85	34.65	160.20	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3	---
MW2	10/22/92	194.85	35.64	159.21	No	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
MW2	02/04/93	194.85	31.13	163.72	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3	---
MW2	05/03/93	194.85	31.08	163.77	No	<50	---	<0.5	<0.5	<0.5	<0.5	3	---
MW2	07/30/93	194.85	34.34	160.51	No	<50	---	<0.5	<0.5	<0.5	<0.5	14	---
MW2	10/19/93	194.85	36.00	158.85	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3	---
MW2	02/23/94	194.85	33.92	160.93	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3	---
MW2	06/06/94	194.85	33.50	161.35	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3	---
MW2	08/18/94	194.85	35.38	159.47	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3.0	---
MW2	11/15/94	194.85	35.93	158.92	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3.0	<100
MW2	02/06/95	194.85	30.38	164.47	No	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
MW2	05/10/95	194.85	30.77	164.08	No	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
MW2	09/20/99	194.85	35.15	159.70	No	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<75	<0.5
MW2	Well destroyed in June 200												
MW3	07/15/92	---	Well installed.										
MW3	07/17/92	196.90	37.24	159.66	No	<50	---	<0.5	<0.5	<0.5	<0.5	50	---
MW3	10/22/92	196.90	35.95	160.95	No	<50	---	<0.5	<0.5	<0.5	<0.5	9	---
MW3	02/04/93	196.90	29.85	167.05	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3	---
MW3	05/03/93	196.90	29.87	167.03	No	<50	---	<0.5	<0.5	<0.5	<0.5	3	---
MW3	07/30/93	196.90	33.85	163.05	No	<50	---	<0.5	<0.5	<0.5	<0.5	22	---

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 70234
3450 35th Avenue
Oakland, California

Well ID	Sampling Date	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHg (µg/L)	MTBE (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	Total Pb (µg/L)	Organic Pb (mg/L)
MW3	10/19/93	196.90	35.89	161.01	No	<50	---	<0.5	<0.5	<0.5	<0.5	12	---
MW3	02/23/94	196.90	32.88	164.02	No	<50	---	<0.5	<0.5	<0.5	<0.5	25	---
MW3	06/06/94	196.90	32.40	164.50	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3	---
MW3	08/18/94	196.90	35.07	161.83	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3.0	---
MW3	11/15/94	196.90	35.97	160.93	No	<50	---	<0.5	<0.5	<0.5	<0.5	<3.0	<100
MW3	02/06/95	196.90	28.39	168.51	No	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
MW3	05/10/95	196.90	28.90	168.00	No	<50	---	<0.5	<0.5	<0.5	<0.5	---	---
MW3	09/20/99	196.90	34.68	162.22	No	75.0	1.87	<0.5	11.5	1.8	18.0	<75	<0.5
MW3	Well destroyed in June 200												
MW4	03/02/09	---	Well installed.										
MW4	03/30/09	197.62	30.94	166.68	No	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW4	04/02/09	197.62	Well surveyed.										
MW4	05/28/09	197.62	32.00	165.62	No	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW5	03/06/09	---	Well installed.										
MW5	03/30/09	196.35	30.05	166.30	No	4,200	1,900	540	140	<12	310	---	---
MW5	04/02/09	196.35	Well surveyed.										
MW5	05/28/09	196.35	31.45	164.90	No	5,300	3,600	890	150	<25	140	---	---
MW6	03/09/09	---	Well installed.										
MW6	03/30/09	192.41	26.94	165.47	No	2,800	4,800	0.91	<0.50	<0.50	<0.50	---	---
MW6	04/02/09	192.41	Well surveyed.										
MW6	05/28/09	192.41	28.04	164.37	No	2,800	6,000	<100	<100	<100	<100	---	---
MW7	03/09/09	---	Well installed.										
MW7	03/30/09	194.34	29.15	165.19	No	55	66	<0.50	<0.50	<0.50	<0.50	---	---
MW7	04/02/09	194.34	Well surveyed.										
MW7	05/28/09	194.34	30.16	164.18	No	50	67	<1.0	<1.0	<1.0	<1.0	---	---
MW8	03/04/09	---	Well installed.										
MW8	03/30/09	192.96	27.35	165.61	No	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW8	04/02/09	192.96	Well surveyed.										
MW8	05/28/09	192.96	28.72	164.24	No	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW9	03/05/09	---	Well installed.										
MW9	03/30/09	195.16	28.31	166.85	No	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---
MW9	04/02/09	195.16	Well surveyed.										
MW9	05/28/09	195.16	29.69	165.47	No	<50	<0.50	<0.50	<0.50	<0.50	<0.50	---	---

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA

Former Exxon Service Station 70234
3450 35th Avenue
Oakland, California

Notes:	=	Data prior to 1999 provided by EA Environmental Science and Engineering in previously submitted reports.
TOC Elev.	=	Top of well casing elevation; datum is mean sea level.
DTW	=	Depth to water.
GW Elev.	=	Groundwater elevation; datum is mean sea level.
NAPL	=	Non-aqueous phase liquid.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8260.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8020.
Total Pb	=	Total lead analyzed using EPA Method 6010.
Organic Pb	=	Organic lead analyzed using CA DHS LUFT method.
EDB	=	1,2-dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-dichloroethane analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
µg/L.	=	Micrograms per liter.
mg/L.	=	Milligrams per liter.
<	=	Less than the stated laboratory reporting limit.
---	=	Not sampled/Not analyzed/Not measured/Not applicable.

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 70234
3450 35th Avenue
Oakland, California

Well ID	Sampling Date	EDB (µg/L)	1,2-DCA (µg/L)	TAME (µg/L)	TBA (µg/L)	ETBE (µg/L)	DIPE (µg/L)
MW1 MW1	07/17/92 - 09/20/99 Well destroyed in June 2000.	Not analyzed for these analytes.					
MW2 MW2	07/17/92 - 09/20/99 Well destroyed in June 2000.	Not analyzed for these analytes.					
MW3 MW3	07/17/92 - 09/20/99 Well destroyed in June 2000.	Not analyzed for these analytes.					
MW4 MW4	03/30/09 05/28/09	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<5.0 <5.0	<0.50 <0.50	<0.50 <0.50
MW5 MW5	03/30/09 05/28/09	<12 <25	17 <25	<12 <25	450 <250	<12 <25	<12 <25
MW6 MW6	03/30/09 05/28/09	<0.50 <100	<0.50 <100	1.3 <100	410 <1,000	<0.50 <100	0.82 <100
MW7 MW7	03/30/09 05/28/09	<0.50 <1.0	<0.50 <1.0	<0.50 <1.0	<5.0 <10	<0.50 <1.0	<0.50 <1.0
MW8 MW8	03/30/09 05/28/09	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<5.0 <5.0	<0.50 <0.50	<0.50 <0.50
MW9 MW9	03/30/09 05/28/09	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<5.0 <5.0	<0.50 <0.50	<0.50 <0.50

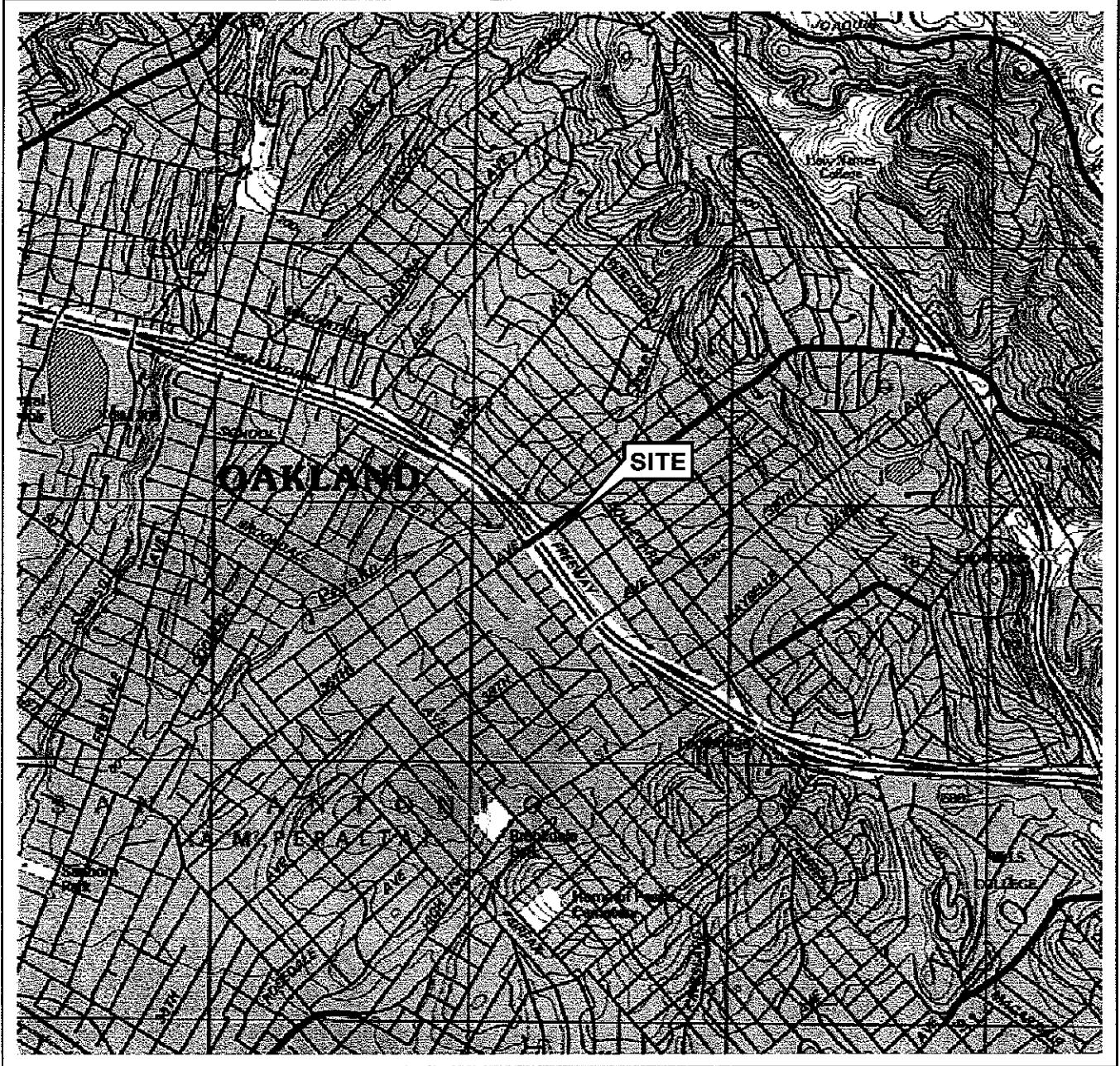
**TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA**

Former Exxon Service Station 70234
3450 35th Avenue
Oakland, California

Notes:	=	Data prior to 1999 provided by EA Environmental Science and Engineering in previously submitted reports.
TOC Elev.	=	Top of well casing elevation; datum is mean sea level.
DTW	=	Depth to water.
GW Elev.	=	Groundwater elevation; datum is mean sea level.
NAPL	=	Non-aqueous phase liquid.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8260.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8020.
Total Pb	=	Total lead analyzed using EPA Method 6010.
Organic Pb	=	Organic lead analyzed using CA DHS LUFT method.
EDB	=	1,2-dibromoethane analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-dichloroethane analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
µg/L	=	Micrograms per liter.
mg/L	=	Milligrams per liter.
<	=	Less than the stated laboratory reporting limit.
---	=	Not sampled/Not analyzed/Not measured/Not applicable.

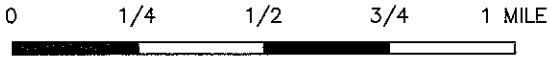
FIGURES

PS-1:1 L:\QMS VICINITY MAP S\6129vm.dwg Jan 20, 2009 - 1:53pm akers



SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
Oakland East Quadrangle



SCALE 1:24,000



QUADRANGLE
LOCATION







FACILITY:

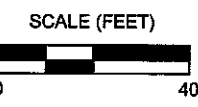
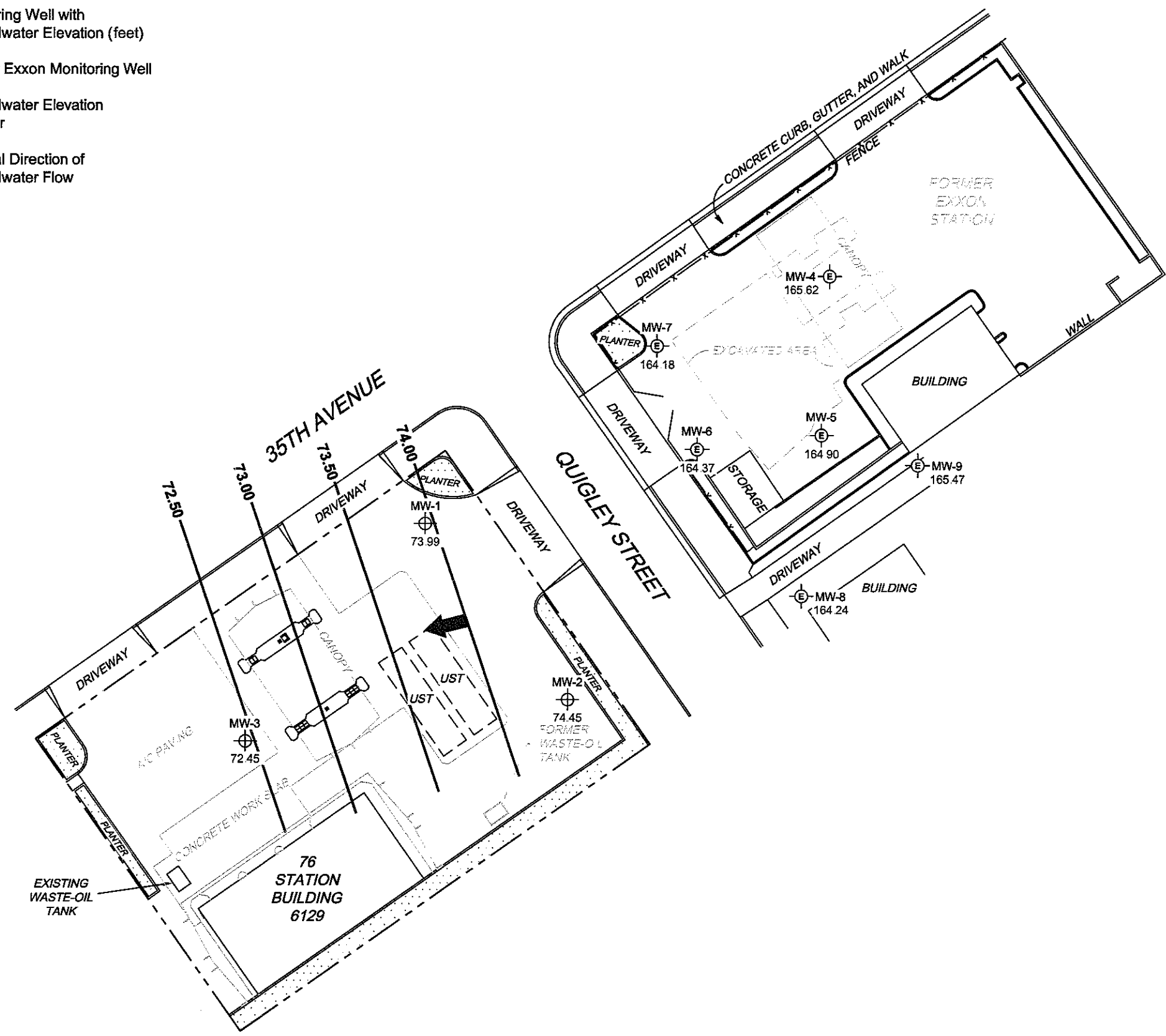
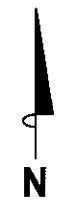
76 STATION 6129
3420 35TH AVENUE
OAKLAND, CALIFORNIA


VICINITY MAP

FIGURE 1

LEGEND




- MW-3  Monitoring Well with Groundwater Elevation (feet)
- MW-9  Former Exxon Monitoring Well
- 74.00  Groundwater Elevation Contour
-  General Direction of Groundwater Flow

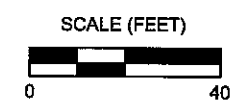
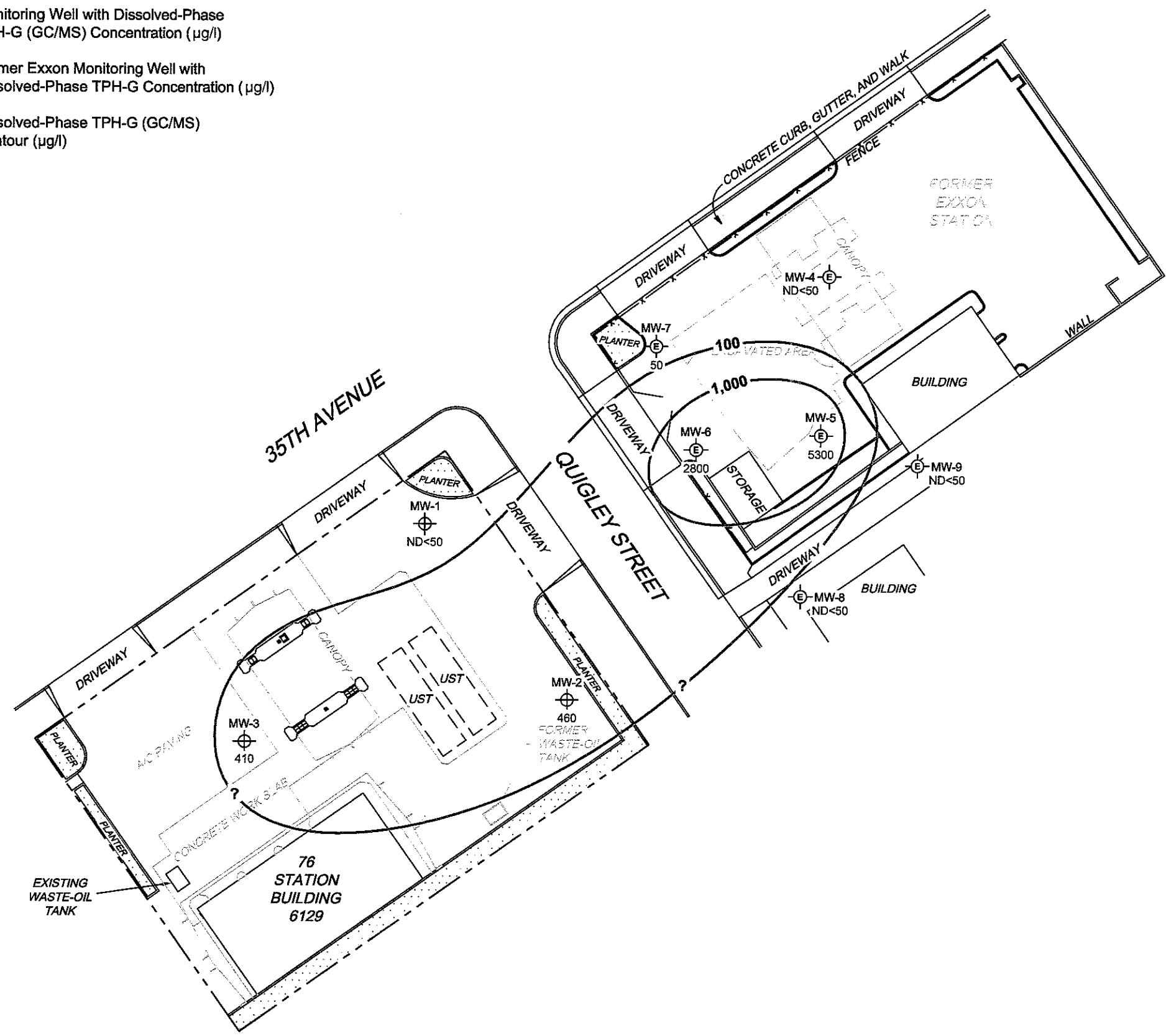


PROJECT:	165521
FACILITY:	76 STATION 6129 3420 35TH AVENUE OAKLAND, CALIFORNIA
GROUNDWATER ELEVATION CONTOUR MAP May 28, 2009	
	FIGURE 2


NOTES:
 Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank. Former Exxon Service Station data provided by ERI; not included in groundwater contour interpretation.

LEGEND

- MW-3  Monitoring Well with Dissolved-Phase TPH-G (GC/MS) Concentration ($\mu\text{g/l}$)
- MW-9  Former Exxon Monitoring Well with Dissolved-Phase TPH-G Concentration ($\mu\text{g/l}$)
-  1,000 Dissolved-Phase TPH-G (GC/MS) Contour ($\mu\text{g/l}$)




NOTES:
 Contour lines are interpretive and based on laboratory analysis results of groundwater samples.
 TPH-G (GC/MS) = total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B.
 TPH-G = total petroleum hydrocarbons as gasoline. $\mu\text{g/l}$ = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. Former Exxon Service Station data provided by ERI; TPH-G results obtained using EPA Method 8015.


PROJECT:	165521
FACILITY:	76 STATION 6129 3420 35TH AVENUE OAKLAND, CALIFORNIA
DISSOLVED-PHASE TPH-G (GC/MS) CONCENTRATION MAP May 28, 2009	
	FIGURE 3

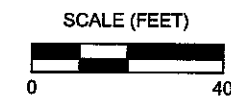
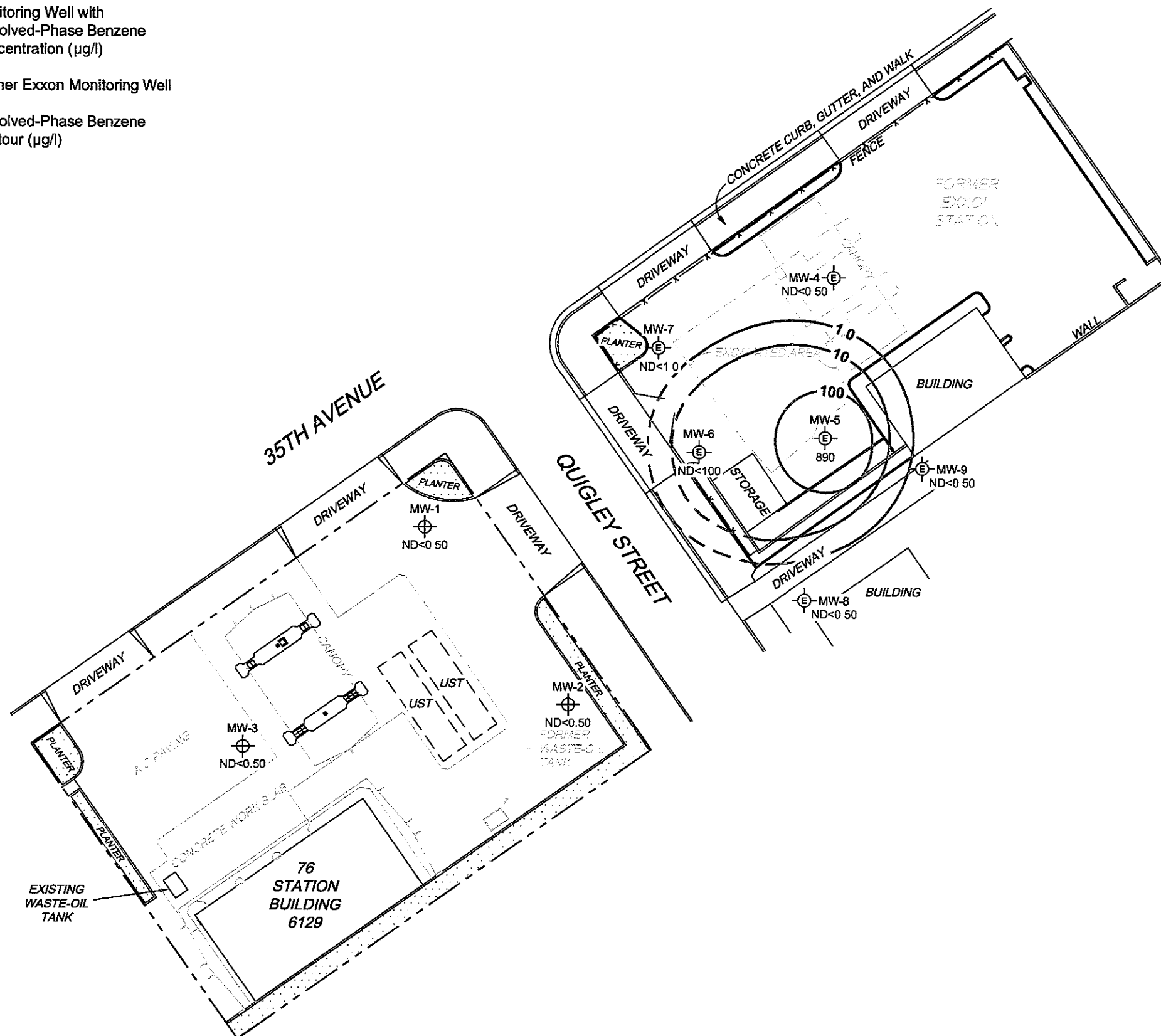
MS=1:1 6129-003 L:\Graphics\CIMS NORTH-SOUTH\DX-6000\6129+6129_CIMS.dwg Jun 29, 2009 - 8:51am akers


LEGEND

MW-3  Monitoring Well with Dissolved-Phase Benzene Concentration ($\mu\text{g/l}$)

MW-9  Former Exxon Monitoring Well

100  Dissolved-Phase Benzene Contour ($\mu\text{g/l}$)



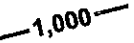


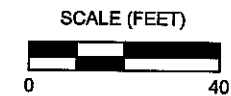
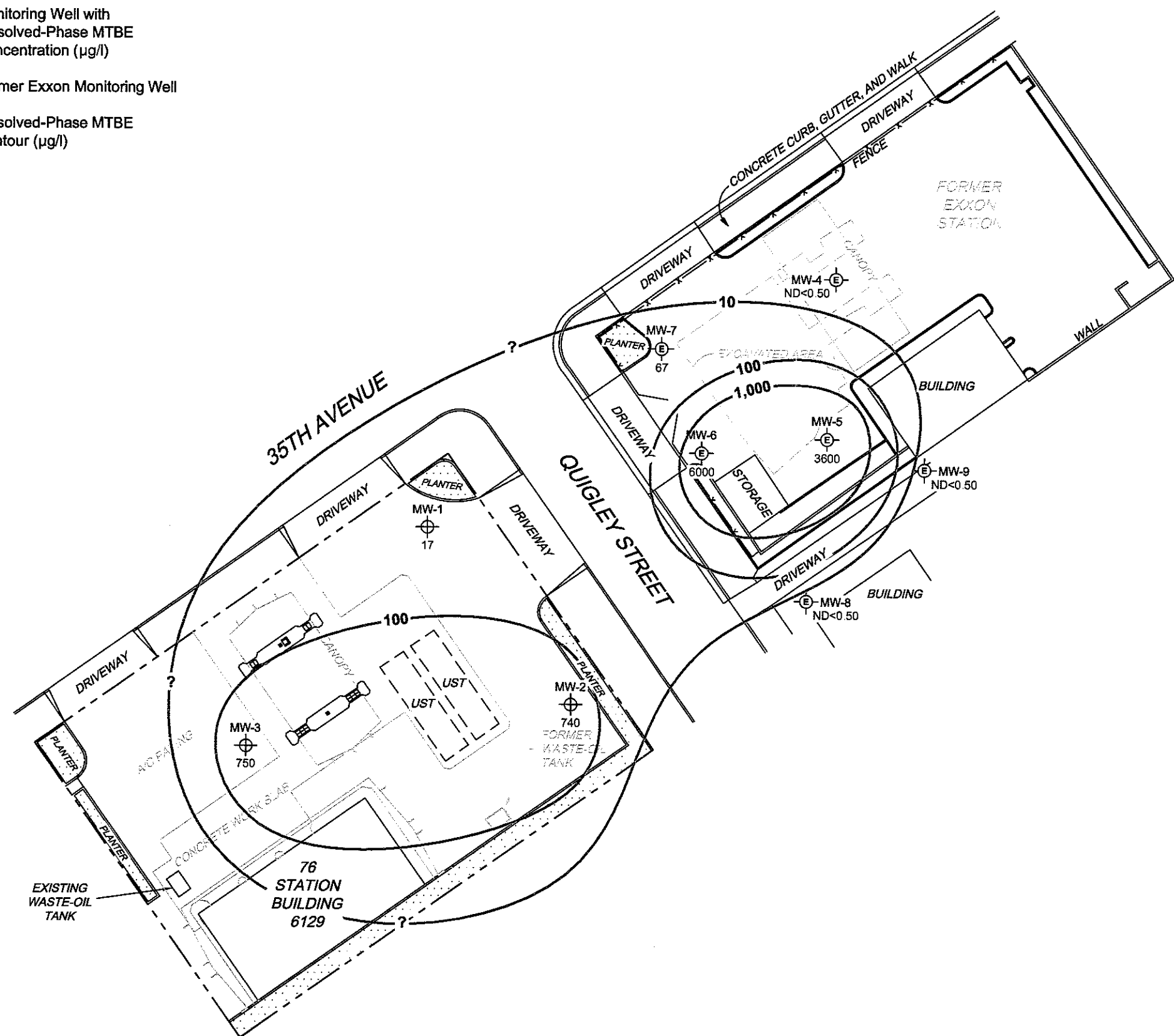
PROJECT:	165521
FACILITY:	76 STATION 6129 3420 35TH AVENUE OAKLAND, CALIFORNIA
DISSOLVED-PHASE BENZENE CONCENTRATION MAP May 28, 2009	
	FIGURE 4


NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. $\mu\text{g/l}$ = micrograms per liter. ND = not detected at limit indicated on official laboratory report. Dashes indicate contour based on non-detect at elevated detection limit. UST = underground storage tank.

LEGEND

- MW-3  Monitoring Well with Dissolved-Phase MTBE Concentration ($\mu\text{g/l}$)
- MW-9  Former Exxon Monitoring Well
-  1,000 Dissolved-Phase MTBE Contour ($\mu\text{g/l}$)



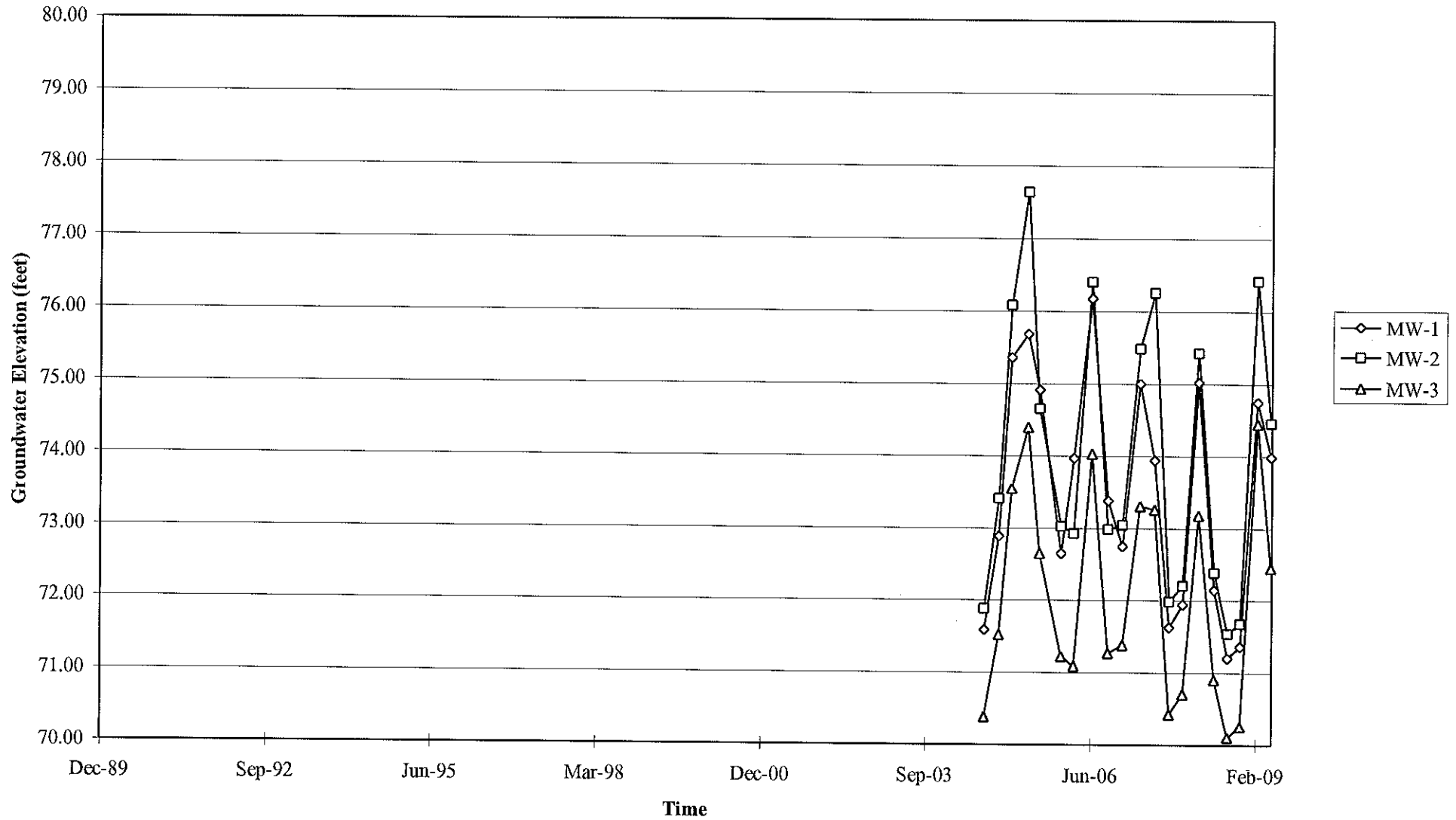
PROJECT:	165521
FACILITY:	76 STATION 6129 3420 35TH AVENUE OAKLAND, CALIFORNIA
DISSOLVED-PHASE MTBE CONCENTRATION MAP May 28, 2009	
	FIGURE 5

NOTES:
 Contour lines are interpretive and based on laboratory analysis results of groundwater samples.
 MTBE = methyl tertiary butyl ether. $\mu\text{g/l}$ = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank. Results obtained using EPA Method 8260B.

MS=1:1 6129-003 L:\Graphics\CMS NORTH-SOUTH\EX-6000\6129-003.dwg Jun 29, 2009 - 8:53am akers

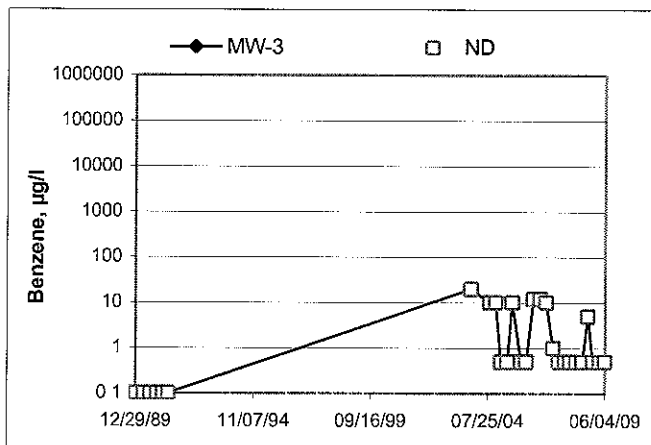
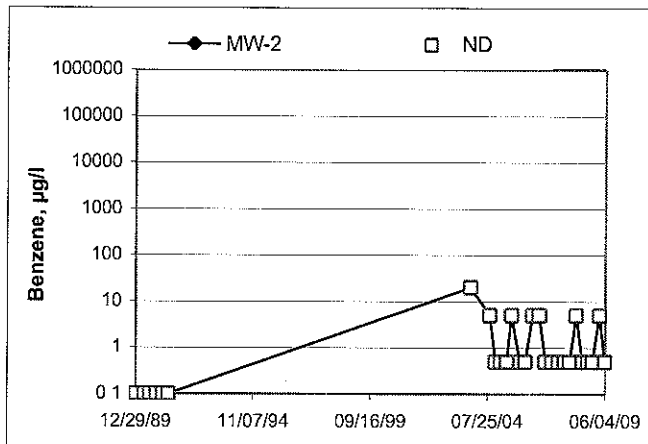
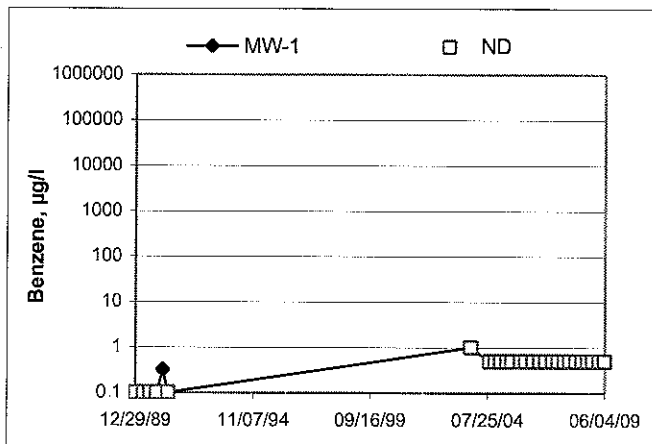
GRAPHS

Groundwater Elevations vs. Time
76 Station 6129

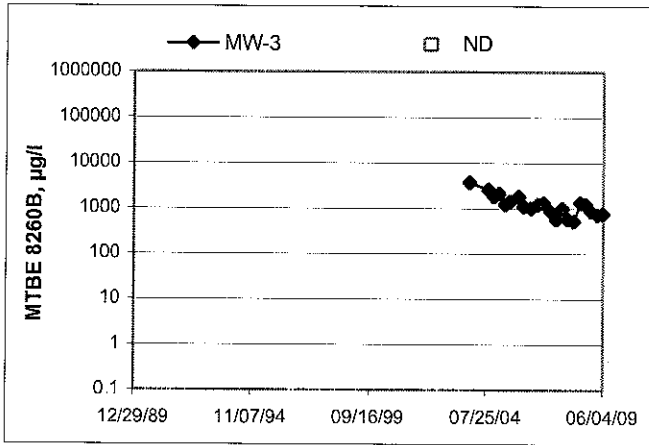
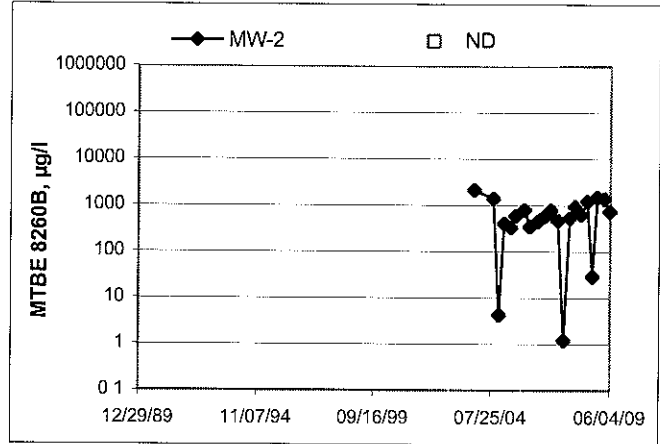
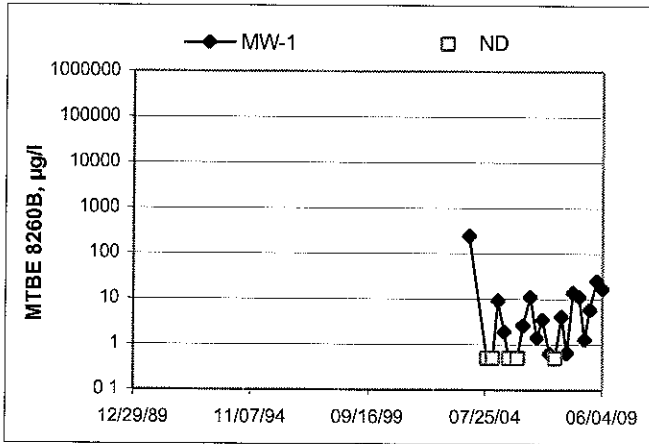


Elevations may have been corrected for apparent changes due to resurvey

Benzene Concentrations vs Time 76 Station 6129



MTBE 8260B Concentrations vs Time
76 Station 6129



GENERAL FIELD PROCEDURES

Groundwater Monitoring and Sampling Assignments

For each site, TRC technicians are provided with a Technical Service Request (TSR) that specifies activities required to complete the groundwater monitoring and sampling assignment for the site. TSRs are based on client directives, instructions from the primary environmental consultant for the site, regulatory requirements, and TRC's previous experience with the site.

Fluid Level Measurements

Initial site activities include determination of well locations based on a site map provided with the TSR. Well boxes are opened and caps are removed. Indications of well or well box damage or of pressure buildup in the well are noted.

Fluid levels in each well are measured using a coated cloth tape equipped with an electronic interface probe, which distinguishes between liquid phase hydrocarbon (LPH) and water. The depth to LPH (if it is present), to water, and to the bottom of the well are measured from the top of the well casing (surveyors mark or notch if present) to the nearest 0.01 foot. Unless otherwise instructed, a well with less than 0.67 foot between the measured top of water and the measured bottom of the well casing is considered dry, and is not sampled. If the well contains 0.67 foot or more of water, an attempt is made to bail and/or sample as specified on the TSR.

Wells that are found to contain LPH are not purged or sampled. Instead, one casing volume of fluid is bailed from the well and the well is re-sealed. Bailed fluids are placed in a container separate from normal purge water, and properly disposed.

Purging and Groundwater Parameter Measurement

TSR instructions may specify that a well not be purged (no-purge sampling), be purged using low-flow methods, or be purged using conventional pump and/or bail methods. Conventional purging generally consists of pumping or bailing until a minimum of three casing volumes of water have been removed or until the well has been pumped dry. Pumping is generally accomplished using submersible electric or pneumatic diaphragm pumps.

During conventional purging, three groundwater parameters (temperature, pH, and conductivity) are measured after removal of each casing volume. Stabilization of these parameters, to within 10 percent, confirm that sufficient purging has been completed. In some cases, the TSR indicates that other parameters are also to be measured during purging. TRC commonly measures dissolved oxygen (DO), oxidation-reduction potential (ORP), and/or turbidity. Instruments used for groundwater parameter measurements are calibrated daily according to manufacturer's instructions.

Low-flow purging utilizes a bladder or peristaltic pump to remove water from the well at a low rate. Groundwater parameters specified by the TSR are measured continuously until they become stable in general accordance with EPA guidelines.

Purge water is generally collected in labeled drums for disposal. Drums may be left on site for disposal by others, or transported to a collection location for eventual transfer to a licensed treatment or recycling facility. In some cases, purge water may be collected directly from the site by a licensed vacuum truck company, or may be treated on site by an active remediation system, if so directed.

Groundwater Sample Collection

After wells are purged, or not purged, according to TSR instructions, samples are collected for laboratory analysis. For wells that have been purged using conventional pump or bail methods, sampling is conducted after the well has recovered to 80 percent of its original volume or after two hours if the well does not recover to at least 80 percent. If there is insufficient recharge of water in the well after two hours, the well is not sampled.

Samples are collected by lowering a new, disposable, ½-inch to 4-inch polyethylene bottom-fill bailer to just below the water level in the well. The bailer is retrieved and the water sample is carefully transferred to containers specified for the laboratory analytical methods indicated by the TSR. Particular care is given to containers for volatile organic analysis (VOAs) which require filling to zero headspace and fitting with Teflon-sealed caps.

After filling, all containers are labeled with project number (or site number), well designation, sample date, sample time, and the sampler's initials, and placed in an insulated chest with ice. Samples remain chilled prior to and during transport to a state-certified laboratory for analysis. Sample container descriptions and requested analyses are entered onto a chain-of-custody form in order to provide instructions to the laboratory. The chain-of-custody form accompanies the samples during transportation to provide a continuous record of possession from the field to the laboratory. If a freight or overnight carrier transports the samples, the carrier is noted on the form.

For wells that have been purged using low-flow methods, sample containers are filled from the effluent stream of the bladder or peristaltic pump. In some cases, if so specified by the TSR, samples are taken from the sample ports of actively pumping remediation wells.

Sequence of Gauging, Purging and Sampling

The sequence in which monitoring activities are conducted is specified on the TSR. In general, wells are gauged beginning with the least affected well and ending with the well that has the highest concentration based on previous analytic results. After all gauging for the site is completed, wells are purged and/or sampled from the least-affected to the most-affected well.

Decontamination

In order to reduce the possibility of cross contamination between wells, strict isolation and decontamination procedures are observed. Portable pumps are not used in wells with LPH. Technicians wear nitrile gloves during all gauging, purging, and sampling activities. Gloves are changed between wells and more often if warranted. Any equipment that could come in contact with fluids are either dedicated a particular well, decontaminated prior to each use, or discarded after a single use. Decontamination consists of washing in a solution of Liqui-nox and water and rinsing twice. The final rinse is in deionized water.

Exceptions

Additional tasks or non-standard procedures, if any, that may be requested or required for a particular site, and noted on the site TSR, are documented in field notes on the following pages

GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: 6129

Project No: 165521

Date: 05-28-09

Well No. MW-1

Purge Method: Sub

Depth to Water (feet): 28.25

Depth to Product (feet):

Total Depth (feet): 43.48

LPH & Water Recovered (gallons):

Water Column (feet): 15.23

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 31.29

1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F. C)	pH	D O (mg/L)	ORP	Turbidity
Pre-Purge									
1236			3	868.5	24.7	7.75	4.05 3.02	70 68	
			6	895.6	23.5	7.11	0.65	69	
	1242		9	860.7	23.3	7.11	0.64	70	
1243	1244		12	848.6	23.3	6.98	0.69	68	
Static at Time Sampled			Total Gallons Purged			Sample Time			
31.29			12			1256			
Comments:									

Well No. MW-3

Purge Method: Sub

Depth to Water (feet): 27.55

Depth to Product (feet):

Total Depth (feet): 39.45

LPH & Water Recovered (gallons):

Water Column (feet): 11.90

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 29.93

1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F. C)	pH	D O (mg/L)	ORP	Turbidity
Pre-Purge									
1312			3	616.7	24.9	8.70	0.91 0.99	66 63	
			6	686.2	23.3	8.25	0.89	64	
	1318		9	677.1	23.3	8.12	0.93	64	
Static at Time Sampled			Total Gallons Purged			Sample Time			
29.93			9			1337			
Comments:									

GROUNDWATER SAMPLING FIELD NOTES

Technician: JOE

Site: 6129

Project No: 165521

Date: 05-28-09

Well No. MW-2

Purge Method: SUB

Depth to Water (feet): 27.71

Depth to Product (feet): _____

Total Depth (feet) 43.56

LPH & Water Recovered (gallons): _____

Water Column (feet): 15.85

Casing Diameter (Inches): 2"

80% Recharge Depth(feet): 30.88

1 Well Volume (gallons): 3

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	DO (mg/L)	ORP	Turbidity
Pre-Purge							1.54	80	
1252			3	691.2	25.5	9.22	1.50	69	
			6	737.0	24.3	8.50	1.41	70	
	1401		9	721.3	23.8	8.39	1.48	71	
Static at Time Sampled			Total Gallons Purged			Sample Time			
29.09			9			1412			
Comments:									

Well No. _____

Purge Method: _____

Depth to Water (feet): _____

Depth to Product (feet): _____

Total Depth (feet) _____

LPH & Water Recovered (gallons): _____

Water Column (feet): _____

Casing Diameter (Inches): _____

80% Recharge Depth(feet): _____

1 Well Volume (gallons): _____

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	DO (mg/L)	ORP	Turbidity
Pre-Purge									
Static at Time Sampled			Total Gallons Purged			Sample Time			
Comments:									



Laboratories, Inc.

Environmental Testing Laboratory Since 1949



Date of Report: 06/15/2009

Anju Farfan

TRC

21 Technology Drive
Irvine, CA 92618

RE: 6129
BC Work Order: 0906997
Invoice ID: B063312

Enclosed are the results of analyses for samples received by the laboratory on 5/28/2009. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature



TRC
21 Technology Drive
Irvine, CA 92618

Project: 6129
Project Number: 4510932381
Project Manager: Anju Farfan

Reported: 06/15/2009 15:27

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			Receive Date:	Metal Analysis:
0906997-01	COC Number:	---		05/28/2009 21:50	Metal Analysis: 2-Lab Filtered and Acidified
	Project Number:	6129		05/28/2009 12:56	
	Sampling Location:	---		---	
	Sampling Point:	MW-1		Water	
	Sampled By:	TRCI			
0906997-02	COC Number:	---		05/28/2009 21:50	Metal Analysis: 2-Lab Filtered and Acidified
	Project Number:	6129		05/28/2009 13:37	
	Sampling Location:	---		---	
	Sampling Point:	MW-3		Water	
	Sampled By:	TRCI			
0906997-03	COC Number:	---		05/28/2009 21:50	Metal Analysis: 2-Lab Filtered and Acidified
	Project Number:	6129		05/28/2009 14:12	
	Sampling Location:	---		---	
	Sampling Point:	MW-2		Water	
	Sampled By:	TRCI			

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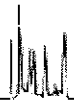
Project: 6129
Project Number: 4510932381
Project Manager: Anju Farfan

Reported: 06/15/2009 15:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906997-01		Client Sample Name: 6129, MW-1, 5/28/2009 12:56:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 15:01	JCC	MS-V4	1	BSF0441	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 15:01	JCC	MS-V4	1	BSF0441	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 15:01	JCC	MS-V4	1	BSF0441	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 15:01	JCC	MS-V4	i	BSF0441	ND	
Methyl t-butyl ether	17	ug/L	0.50		EPA-8260	06/05/09	06/08/09 15:01	JCC	MS-V4	1	BSF0441	ND	
Toluene	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 15:01	JCC	MS-V4	1	BSF0441	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/05/09	06/08/09 15:01	JCC	MS-V4	i	BSF0441	ND	
t-Amvl Methvl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 15:01	JCC	MS-V4	i	BSF0441	ND	
t-Butvl alcohol	ND	ug/L	10		EPA-8260	06/05/09	06/08/09 15:01	JCC	MS-V4	i	BSF0441	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 15:01	JCC	MS-V4	1	BSF0441	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/05/09	06/08/09 15:01	JCC	MS-V4	1	BSF0441	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/08/09 15:01	JCC	MS-V4	i	BSF0441	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		Luft-GC/MS	06/05/09	06/08/09 15:01	JCC	MS-V4	i	BSF0441	ND	
1,2-Dichloroethane-d4 (Surrogate)	88.6	%	76 - 114 (LCL - UCL)		EPA-8260	06/05/09	06/08/09 15:01	JCC	MS-V4	1	BSF0441		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	06/05/09	06/08/09 15:01	JCC	MS-V4	1	BSF0441		
4-Bromofluorobenzene (Surrogate)	94.9	%	86 - 115 (LCL - UCL)		EPA-8260	06/05/09	06/08/09 15:01	JCC	MS-V4	i	BSF0441		

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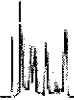
Project: 6129
Project Number: 4510932381
Project Manager: Anju Farfan

Reported: 06/15/2009 15:27

Water Analysis (General Chemistry)

BCL Sample ID: 0906997-01		Client Sample Name: 6129, MW-1, 5/28/2009 12:56:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Total Alkalinity as CaCO3	310	mg/L	4.1		EPA-310.1	06/03/09	06/03/09 09:11	FM2	MET-1	1	BSF0294	ND	
Nitrate as NO3	2.9	mg/L	0.44		EPA-300.0	05/28/09	05/29/09 01:53	CRR	IC2	1	BSE1782	ND	
Sulfate	43	mg/L	1.0		EPA-300.0	05/28/09	05/29/09 01:53	CRR	IC2	1	BSE1782	ND	
Electrical Conductivity @ 25 C	798	umhos/cm	1.00		EPA-120.1	06/01/09	06/01/09 11:55	FM2	MET-1	1	BSF0068		
Iron (III) Species	27000	ug/L	100		Calc	06/01/09	06/04/09 15:11	TMS	Calc	1	BSF0109	ND	
Iron (II) Species	ND	ug/L	500		SM-3500-FeI	05/29/09	05/29/09 00:30	MRM	SPEC05	5	BSE1750	ND	A10
Non-Volatile Organic Carbon	0.88	mg/L	0.30		EPA-415.1	05/29/09	05/29/09 16:23	CDR	TOC2	1	BSF0052	ND	
Dissolved Oxygen	7.7	mg O/L	0.50		SM-4500OG	05/29/09	05/29/09 07:45	HPR	YSI-57	1	BSE1813		S05

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Irvine, CA 92618

Project: 6129
Project Number: 4510932381
Project Manager: Anju Farfan

Reported: 06/15/2009 15:27

Water Analysis (Metals)

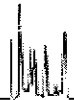
BCL Sample ID: 0906997-01		Client Sample Name: 6129, MW-1, 5/28/2009 12:56:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Hexavalent Chromium	ND	ug/L	2.0		EPA-7196	05/29/09	05/29/09 07:58	TDC	KONE-1	1	BSF0016	ND	
Chromium	ND	ug/L	10		EPA-6010B	05/29/09	05/29/09 15:30	PPS	PE-OP1	1	BSE1799	ND	
Manganese	10	ug/L	1.0		EPA-200.8	05/29/09	06/08/09 12:46	PRA	PE-EL1	1	BSF0312	ND	
Total Chromium	21	ug/L	10		EPA-6010B	06/01/09	06/02/09 15:13	PPS	PE-OP1	1	BSF0029	ND	
Total Iron	27000	ug/L	50		EPA-6010B	06/03/09	06/04/09 11:03	PPS	PE-OP1	1	BSF0194	ND	
Total Recoverable Manganese	680	ug/L	1.0		EPA-200.8	06/01/09	06/02/09 19:37	PPS	PE-EL1	1	BSF0026	ND	

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Project: 6129
Project Number: 4510932381
Project Manager: Anju Farfan

Reported: 06/15/2009 15:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906997-02		Client Sample Name: 6129, MW-3, 5/28/2009 1:37:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 02:05	JCC	MS-V4	1	BSF0441	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 02:05	JCC	MS-V4	1	BSF0441	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 02:05	JCC	MS-V4	1	BSF0441	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 02:05	JCC	MS-V4	i	BSF0441	ND	
Methyl t-butyl ether	750	ug/L	5.0		EPA-8260	06/05/09	06/09/09 05:28	JCC	MS-V4	10	BSF0441	ND	A01
Toluene	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 02:05	JCC	MS-V4	1	BSF0441	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/05/09	06/06/09 02:05	JCC	MS-V4	1	BSF0441	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 02:05	JCC	MS-V4	1	BSF0441	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	06/05/09	06/06/09 02:05	JCC	MS-V4	i	BSF0441	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 02:05	JCC	MS-V4	i	BSF0441	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/05/09	06/06/09 02:05	JCC	MS-V4	1	BSF0441	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 02:05	JCC	MS-V4	1	BSF0441	ND	
Total Purgeable Petroleum Hydrocarbons	410	ug/L	50		Luft-GC/MS	06/05/09	06/06/09 02:05	JCC	MS-V4	1	BSF0441	ND	A90
1,2-Dichloroethane-d4 (Surrogate)	84.9	%	76 - 114 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 02:05	JCC	MS-V4	1	BSF0441		
1,2-Dichloroethane-d4 (Surrogate)	89.0	%	76 - 114 (LCL - UCL)		EPA-8260	06/05/09	06/09/09 05:28	JCC	MS-V4	10	BSF0441		
Toluene-d8 (Surrogate)	98.3	%	88 - 110 (LCL - UCL)		EPA-8260	06/05/09	06/09/09 05:28	JCC	MS-V4	10	BSF0441		
Toluene-d8 (Surrogate)	103	%	88 - 110 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 02:05	JCC	MS-V4	1	BSF0441		
4-Bromofluorobenzene (Surrogate)	94.5	%	86 - 115 (LCL - UCL)		EPA-8260	06/05/09	06/09/09 05:28	JCC	MS-V4	10	BSF0441		
4-Bromofluorobenzene (Surrogate)	94.7	%	86 - 115 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 02:05	JCC	MS-V4	1	BSF0441		

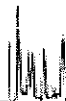
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Project: 6129
Project Number: 4510932381
Project Manager: Anju Fartan

Reported: 06/15/2009 15:27

Water Analysis (General Chemistry)

BCL Sample ID: 0906997-02		Client Sample Name: 6129, MW-3, 5/28/2009 1:37:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Total Alkalinity as CaCO3	300	mg/L	4.1		EPA-310.1	06/03/09	06/03/09 09:17	FM2	MET-1	1	BSF0294	ND	
Nitrate as NO3	ND	mg/L	0.44		EPA-300.0	05/28/09	05/29/09 02:07	CRR	IC2	i	BSE1782	ND	
Sulfate	39	mg/L	1.0		EPA-300.0	05/28/09	05/29/09 02:07	CRR	IC2	1	BSE1782	ND	
Electrical Conductivity @ 25 C	667	umhos/cm	1.00		EPA-120.1	06/01/09	06/01/09 11:58	FM2	MET-1	1	BSF0068		
Iron (III) Species	11000	ug/L	100		Calc	06/01/09	06/04/09 15:11	TMS	Calc	1	BSF0109	ND	
Iron (II) Species	ND	ug/L	500		SM-3500-FeI	05/29/09	05/29/09 00:30	MRM	SPEC05	5	BSE1750	ND	A10
Non-Volatile Organic Carbon	1.5	mg/L	0.30		EPA-415.1	05/29/09	05/29/09 16:40	CDR	TOC2	1	BSF0052	ND	
Dissolved Oxygen	7.5	mg O/L	0.50		SM-4500OG	05/29/09	05/29/09 07:45	HPR	YSI-57	1	BSE1813		S05

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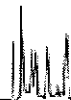
Project: 6129
Project Number: 4510932381
Project Manager: Anju Farfan

Reported: 06/15/2009 15:27

Water Analysis (Metals)

BCL Sample ID: 0906997-02		Client Sample Name: 6129, MW-3, 5/28/2009 1:37:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Hexavalent Chromium	ND	ug/L	2.0		EPA-7196	05/29/09	05/29/09 07:58	TDC	KONE-i	i	BSF0016	ND	
Chromium	ND	ug/L	10		EPA-6010B	05/29/09	05/29/09 15:32	PPS	PE-OP1	i	BSE1799	ND	
Manganese	49	ug/L	1.0		EPA-200.8	05/29/09	06/08/09 12:49	PRA	PE-EL1	1	BSF0312	ND	
Total Chromium	23	ug/L	10		EPA-6010B	06/01/09	06/02/09 15:15	PPS	PE-OP1	1	BSF0029	ND	
Total Iron	12000	ug/L	50		EPA-6010B	06/03/09	06/04/09 11:04	PPS	PE-OP1	1	BSF0194	ND	
Total Recoverable Manganese	300	ug/L	1.0		EPA-200.8	06/01/09	06/02/09 19:40	PPS	PE-EL1	1	BSF0026	ND	

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Project: 6129
Project Number: 4510932381
Project Manager: Anju Fartan

Reported: 06/15/2009 15:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0906997-03		Client Sample Name: 6129, MW-2, 5/28/2009 2:12:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 02:29	JCC	MS-V4	1	BSF0441	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 02:29	JCC	MS-V4	1	BSF0441	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 02:29	JCC	MS-V4	1	BSF0441	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 02:29	JCC	MS-V4	1	BSF0441	ND	
Methyl t-butyl ether	740	ug/L	5.0		EPA-8260	06/05/09	06/09/09 05:53	JCC	MS-V4	10	BSF0441	ND	A01
Toluene	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 02:29	JCC	MS-V4	i	BSF0441	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	06/05/09	06/06/09 02:29	JCC	MS-V4	i	BSF0441	ND	
t-Amvl Methyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 02:29	JCC	MS-V4	i	BSF0441	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	06/05/09	06/06/09 02:29	JCC	MS-V4	1	BSF0441	ND	
Diisopropyl ether	20	ug/L	0.50		EPA-8260	06/05/09	06/06/09 02:29	JCC	MS-V4	1	BSF0441	ND	
Ethanol	ND	ug/L	250		EPA-8260	06/05/09	06/06/09 02:29	JCC	MS-V4	1	BSF0441	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	06/05/09	06/06/09 02:29	JCC	MS-V4	1	BSF0441	ND	
Total Purgeable Petroleum Hydrocarbons	460	ug/L	50		Luft-GC/MS	06/05/09	06/06/09 02:29	JCC	MS-V4	1	BSF0441	ND	
1,2-Dichloroethane-d4 (Surrogate)	86.9	%	76 - 114 (LCL - UCL)		EPA-8260	06/05/09	06/09/09 05:53	JCC	MS-V4	10	BSF0441		
1,2-Dichloroethane-d4 (Surrogate)	88.1	%	76 - 114 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 02:29	JCC	MS-V4	1	BSF0441		
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 02:29	JCC	MS-V4	i	BSF0441		
Toluene-d8 (Surrogate)	99.0	%	88 - 110 (LCL - UCL)		EPA-8260	06/05/09	06/09/09 05:53	JCC	MS-V4	10	BSF0441		
4-Bromofluorobenzene (Surrogate)	94.7	%	86 - 115 (LCL - UCL)		EPA-8260	06/05/09	06/09/09 05:53	JCC	MS-V4	10	BSF0441		
4-Bromofluorobenzene (Surrogate)	97.0	%	86 - 115 (LCL - UCL)		EPA-8260	06/05/09	06/06/09 02:29	JCC	MS-V4	i	BSF0441		

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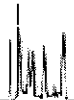
Project: 6129
Project Number: 4510932381
Project Manager: Anju Farfan

Reported: 06/15/2009 15:27

Water Analysis (General Chemistry)

BCL Sample ID: 0906997-03		Client Sample Name: 6129, MW-2, 5/28/2009 2:12:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Total Alkalinity as CaCO3	370	mg/L	4.1		EPA-310.1	06/03/09	06/03/09 09:23	FM2	MET-1	1	BSE0294	ND	
Nitrate as NO3	1.6	mg/L	0.44		EPA-300.0	05/28/09	05/29/09 02:21	CRR	IC2	1	BSE1782	ND	
Sulfate	40	mg/L	1.0		EPA-300.0	05/28/09	05/29/09 02:21	CRR	IC2	1	BSE1782	ND	
Electrical Conductivity @ 25 C	813	umhos/cm	1.00		EPA-120.1	06/01/09	06/01/09 12:00	FM2	MET-1	1	BSE0068		
Iron (III) Species	43000	ug/L	100		Calc	06/01/09	06/04/09 15:11	TMS	Calc	1	BSE0109	ND	
Iron (II) Species	ND	ug/L	1000		SM-3500-FeI	05/29/09	05/29/09 00:30	MRM	SPEC05	10	BSE1750	ND	A10
Non-Volatile Organic Carbon	1.6	mg/L	0.30		EPA-415.1	05/29/09	05/29/09 16:58	CDR	TOC2	1	BSE0052	ND	
Dissolved Oxygen	7.1	mg O/L	0.50		SM-4500OG	05/29/09	05/29/09 07:45	HPR	YSI-57	1	BSE1813		S05

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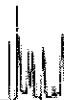
Project: 6129
Project Number: 4510932381
Project Manager: Anju Farfan

Reported: 06/15/2009 15:27

Water Analysis (Metals)

BCL Sample ID: 0906997-03		Client Sample Name: 6129, MW-2, 5/28/2009 2:12:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Hexavalent Chromium	ND	ug/L	2.0		EPA-7196	05/29/09	05/29/09 07:58	TDC	KONE-1	1	BSF0016	ND	
Chromium	ND	ug/L	10		EPA-6010B	05/29/09	05/29/09 15:34	PPS	PE-OP1	i	BSE1799	ND	
Manganese	4.3	ug/L	1.0		EPA-200.8	05/29/09	06/08/09 13:08	PRA	PE-EL1	1	BSF0312	ND	
Total Chromium	49	ug/L	10		EPA-6010B	06/01/09	06/02/09 15:16	PPS	PE-OP1	1	BSF0029	ND	
Total Iron	44000	ug/L	50		EPA-6010B	06/03/09	06/04/09 11:06	PPS	PE-OP1	1	BSF0194	ND	
Total Recoverable Manganese	500	ug/L	1.0		EPA-200.8	06/01/09	06/02/09 19:43	PPS	PE-EL1	1	BSF0026	ND	

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Project Manager: Anju Fartan

Reported: 06/15/2009 15:27

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quais
										RPD	Percent Recovery	
Benzene	BSF0441	Matrix Spike	0906490-68	0	22.920	25.000	ug/L		91.7		70 - 130	
		Matrix Spike Duplicate	0906490-68	0	23.980	25.000	ug/L	4.5	95.9	20	70 - 130	
Toluene	BSF0441	Matrix Spike	0906490-68	0	23.520	25.000	ug/L		94.1		70 - 130	
		Matrix Spike Duplicate	0906490-68	0	23.510	25.000	ug/L	0.1	94.0	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BSF0441	Matrix Spike	0906490-68	ND	9.8900	10.000	ug/L		98.9		76 - 114	
		Matrix Spike Duplicate	0906490-68	ND	10.390	10.000	ug/L		104		76 - 114	
Toluene-d8 (Surrogate)	BSF0441	Matrix Spike	0906490-68	ND	10.060	10.000	ug/L		101		88 - 110	
		Matrix Spike Duplicate	0906490-68	ND	9.9800	10.000	ug/L		99.6		88 - 110	
4-Bromofluorobenzene (Surrogate)	BSF0441	Matrix Spike	0906490-68	ND	9.9800	10.000	ug/L		99.8		86 - 115	
		Matrix Spike Duplicate	0906490-68	ND	9.9200	10.000	ug/L		99.2		86 - 115	

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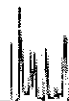
Project: 6129
Project Number: 4510932381
Project Manager: Anju Fartan

Reported: 06/15/2009 15:27

Water Analysis (General Chemistry) Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Spike Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
										RPD	Percent Recovery	
Iron (II) Species	BSE1750	Duplicate	0906992-01	41086	41175		ug/L	0.2		10		
Nitrate as NO3	BSE1782	Duplicate	0906927-01	15.773	15.436		mg/L	2.2		10		
		Matrix Spike	0906927-01	15.773	38.455	22.358	mg/L		101		80 - 120	
		Matrix Spike Duplicate	0906927-01	15.773	37.927	22.358	mg/L	1.9	99.1	10	80 - 120	
Sulfate	BSE1782	Duplicate	0906927-01	206.74	206.55		mg/L	0.1		10		
		Matrix Spike	0906927-01	206.74	309.98	101.01	mg/L		102		80 - 120	
		Matrix Spike Duplicate	0906927-01	206.74	309.36	101.01	mg/L	0	102	10	80 - 120	
Dissolved Oxygen	BSE1813	Duplicate	0906986-01	2.6000	2.6000		mg O/L	0		10		
Non-Volatile Organic Carbon	BSF0052	Duplicate	0906977-01	0.71100	0.68400		mg/L	3.9		10		
		Matrix Spike	0906977-01	0.71100	5.8724	5.0251	mg/L		103		80 - 120	
		Matrix Spike Duplicate	0906977-01	0.71100	5.8211	5.0251	mg/L	1.0	102	10	80 - 120	
Electrical Conductivity @ 25 C	BSF0068	Duplicate	0906997-01	797.50	799.00		umhos/cm	0.2		10		
Total Alkalinity as CaCO3	BSF0294	Duplicate	0907130-01	111.36	111.67		mg/L	0.3		10		

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Project: 6129
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Reported: 06/15/2009 15:27

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Source Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
										RPD	Percent Recovery	
Chromium	BSE1799	Duplicate	0906923-01	3.8497	ND		ug/L			20		
		Matrix Spike	0906923-01	3.8497	185.26	204.08	ug/L		88.9		75 - 125	
		Matrix Spike Duplicate	0906923-01	3.8497	202.73	204.08	ug/L	9.2	97.5	20	75 - 125	
Hexavalent Chromium	BSF0016	Duplicate	0906997-01	1.1000	ND		ug/L			10		
		Matrix Spike	0906997-01	1.1000	53.853	52.632	ug/L		100		85 - 115	
		Matrix Spike Duplicate	0906997-01	1.1000	53.360	52.632	ug/L	0.7	99.3	10	85 - 115	
Total Recoverable Manganese	BSF0026	Duplicate	0906999-01	27.840	27.778		ug/L	0.2		20		
		Matrix Spike	0906999-01	27.840	127.21	100.00	ug/L		99.4		70 - 130	
		Matrix Spike Duplicate	0906999-01	27.840	121.89	100.00	ug/L	5.6	94.0	20	70 - 130	
Total Chromium	BSF0029	Duplicate	0906944-01	27.729	18.041		ug/L	42.3		20		A02
		Matrix Spike	0906944-01	27.729	230.87	200.00	ug/L		102		75 - 125	
		Matrix Spike Duplicate	0906944-01	27.729	226.90	200.00	ug/L	2.4	99.6	20	75 - 125	
Total Iron	BSF0194	Duplicate	0906997-01RE1	27468	28485		ug/L	3.6		20		
		Matrix Spike	0906997-01RE1	27468	32193	1000.0	ug/L		472		75 - 125	A03
		Matrix Spike Duplicate	0906997-01RE1	27468	34199	1000.0	ug/L	35.1	673	20	75 - 125	A03,Q02
Manganese	BSF0312	Duplicate	0907162-01	0.046000	ND		ug/L			20		
		Matrix Spike	0907162-01	0.046000	101.12	102.04	ug/L		99.1		70 - 130	
		Matrix Spike Duplicate	0907162-01	0.046000	105.51	102.04	ug/L	3.9	103	20	70 - 130	

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Benzene	BSF0441	BSF0441-BS1	LCS	25.180	25.000	0.50	ug/L	101		70 - 130		
Toluene	BSF0441	BSF0441-BS1	LCS	24.390	25.000	0.50	ug/L	97.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BSF0441	BSF0441-BS1	LCS	9.8900	10.000		ug/L	98.9		76 - 114		
Toluene-d8 (Surrogate)	BSF0441	BSF0441-BS1	LCS	10.010	10.000		ug/L	100		88 - 110		
4-Bromofluorobenzene (Surrogate)	BSF0441	BSF0441-BS1	LCS	10.120	10.000		ug/L	101		86 - 115		

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Project Number: 4510932381
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Reported: 06/15/2009 15:27

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Iron (II) Species	BSE1750	BSE1750-BS1	LCS	2045.7	2000.0	100	ug/L	102		90 - 110		
Nitrate as NO3	BSE1782	BSE1782-BS1	LCS	22.400	22.134	0.44	mg/L	101		90 - 110		
Sulfate	BSE1782	BSE1782-BS1	LCS	100.24	100.00	1.0	mg/L	100		90 - 110		
Non-Volatile Organic Carbon	BSF0052	BSF0052-BS1	LCS	5.1840	5.0000	0.30	mg/L	104		85 - 115		
Electrical Conductivity @ 25 C	BSF0068	BSF0068-BS1	LCS	296.50	303.00	1.00	umhos/cm	97.9		90 - 110		
Total Alkalinity as CaCO3	BSF0294	BSF0294-BS3	LCS	100.41	100.00	4.1	mg/L	100		90 - 110		



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Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Chromium	BSE1799	BSE1799-BS1	LCS	198.57	200.00	10	ug/L	99.3		85 - 115		
Hexavalent Chromium	BSF0016	BSF0016-BS1	LCS	51.097	50.000	2.0	ug/L	102		85 - 115		
Total Recoverable Manganese	BSF0026	BSF0026-BS1	LCS	95.105	100.00	1.0	ug/L	95.1		85 - 115		
Total Chromium	BSF0029	BSF0029-BS1	LCS	202.88	200.00	10	ug/L	101		85 - 115		
Total Iron	BSF0194	BSF0194-BS1	LCS	1101.1	1000.0	50	ug/L	110		85 - 115		
Manganese	BSF0312	BSF0312-BS1	LCS	101.31	100.00	1.0	ug/L	101		85 - 115		

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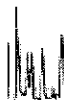
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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BSF0441	BSF0441-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BSF0441	BSF0441-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BSF0441	BSF0441-BLK1	ND	ug/L	0.50		
Ethylbenzene	BSF0441	BSF0441-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BSF0441	BSF0441-BLK1	ND	ug/L	0.50		
Toluene	BSF0441	BSF0441-BLK1	ND	ug/L	0.50		
Total Xylenes	BSF0441	BSF0441-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BSF0441	BSF0441-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BSF0441	BSF0441-BLK1	ND	ug/L	10		
Diisopropyl ether	BSF0441	BSF0441-BLK1	ND	ug/L	0.50		
Ethanol	BSF0441	BSF0441-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BSF0441	BSF0441-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BSF0441	BSF0441-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BSF0441	BSF0441-BLK1	97.5	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BSF0441	BSF0441-BLK1	101	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BSF0441	BSF0441-BLK1	92.9	%	86 - 115 (LCL - UCL)		

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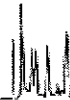
Project: 6129
Project Number: 4510932381
Project Manager: Anju Farfan

Reported: 06/15/2009 15:27

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Iron (II) Species	BSE1750	BSE1750-BLK1	ND	ug/L	100		
Nitrate as NO3	BSE1782	BSE1782-BLK1	ND	mg/L	0.44		
Sulfate	BSE1782	BSE1782-BLK1	ND	mg/L	1.0		
Non-Volatile Organic Carbon	BSF0052	BSF0052-BLK1	ND	mg/L	0.30		
Iron (III) Species	BSF0109	BSF0109-BLK1	ND	ug/L	100		
Total Alkalinity as CaCO3	BSF0294	BSF0294-BLK1	ND	mg/L	4.1		



TRC
21 Technology Drive
Irvine, CA 92618

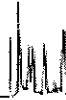
Project: 6129
Project Number: 4510932381
Project Manager: Aniu Farfan

Reported: 06/15/2009 15:27

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Chromium	BSE1799	BSE1799-BLK1	ND	ug/L	10		
Hexavalent Chromium	BSF0016	BSF0016-BLK1	ND	ug/L	2.0		
Total Recoverable Manganese	BSF0026	BSF0026-BLK1	ND	ug/L	1.0		
Total Chromium	BSF0029	BSF0029-BLK1	ND	ug/L	10		
Total Iron	BSF0194	BSF0194-BLK1	ND	ug/L	50		
Manganese	BSF0312	BSF0312-BLK1	ND	ug/L	1.0		



TRC
21 Technology Drive
Irvine, CA 92618

Project: 6129
Project Number: 4510932381
Project Manager: Anju Farfan

Reported: 06/15/2009 15:27

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.
- A10 PQL's and MDL's were raised due to matrix interference.
- A90 TPPH does not exhibit a "gasoline" pattern. TPPH is entirely due to MTBE.
- Q02 Matrix spike precision is not within the control limits.
- S05 The sample holding time was exceeded.



LABORATORIES, INC.

June 11, 2009

TRC
21 Technology Drive
Irvine, CA 92618
Attn: Anju Farfan

Attached are the results from Zalco Laboratories, Inc.

<u>BCL Sample ID</u>	<u>Client Sample ID</u>	<u>Sample Date/Time</u>
0906997-01	MW-1	05/28/09 @ 12:56
0906997-02	MW-3	05/28/09 @ 13:37
0906997-03	MW-2	05/28/09 @ 14:12



ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

Thursday, June 04, 2009

Molly Meyers
BC Laboratories Inc
4100 Atlas Court
Bakersfield, CA 93308

TEL: (661) 327-4911
FAX (661) 327-1918

RE: 0906997

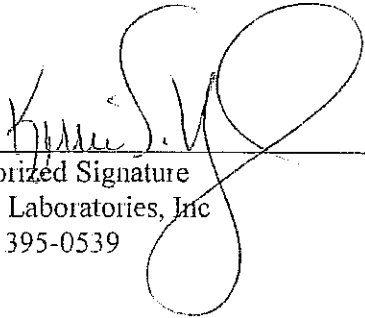
Order No : 0905379

Dear Molly Meyers:

Zalco Laboratories, Inc. received 3 sample(s) on 5/29/2009 for the analyses presented in the following report.

We appreciate your business and look forward to serving you in the future. Please feel free to call our office if you have any questions regarding these test results.

Sincerely,



Authorized Signature
Zalco Laboratories, Inc
(661) 395-0539



ZALCO LABORATORIES, INC.

Analytical and Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

CLIENT: BC Laboratories Inc
Lab Order: 0905379
Project: 0906997
Client Sample ID: 0906997-01

Report Date: 6/4/2009
Lab ID: 0905379-001A
Collection Date: 5/28/2009 12:56:00 PM
Matrix: AQUEOUS

Report Comment:

Analyses	Method	Result	Units	Date Analyzed	Qual
OXIDATION REDUCTION POTENTIAL BY ASTM D1498					
Oxidation Reduction Potential	D1498	126	mv	6/1/2009	

**Qualifiers /
Abbreviations:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
H - Hold Time Exceeded

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
DLR: Detection Limit for Reporting
NSS - Non-Sufficient Sample Amount

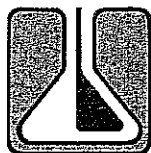
**ZALCO LABORATORIES, INC.**

Analytical and Consulting Services

4309 Armour Avenue
Bakersfield, California 93308(661) 395-0539
FAX (661) 395-3069**CLIENT:** BC Laboratories Inc**Lab Order:** 0905379**Project:** 0906997**Client Sample ID:** 0906997-02**Report Date:** 6/4/2009**Lab ID:** 0905379-002A**Collection Date:** 5/28/2009 1:37:00 PM**Matrix:** AQUEOUS**Report Comment:**

Analyses	Method	Result	Units	Date Analyzed	Qual.
OXIDATION REDUCTION POTENTIAL BY ASTM D1498					
Oxidation Reduction Potential	D1498	125	mv	6/1/2009	

**Qualifiers /
Abbreviations:**ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
H - Hold Time ExceededS - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
DLR: Detection Limit for Reporting
NSS - Non-Sufficient Sample Amount

**ZALCO LABORATORIES, INC.**

Analytical and Consulting Services

4309 Armour Avenue
Bakersfield, California 93308(661) 395-0539
FAX (661) 395-3069

CLIENT: BC Laboratories Inc
Lab Order: 0905379
Project: 0906997
Client Sample ID: 0906997-03

Report Date: 6/4/2009
Lab ID: 0905379-003A
Collection Date: 5/28/2009 2:12:00 PM
Matrix: AQUEOUS

Report Comment:

Analyses	Method	Result	Units	Date Analyzed	Qual.
OXIDATION REDUCTION POTENTIAL BY ASTM D1498					
Oxidation Reduction Potential	D1498	138	mv	6/1/2009	

**Qualifiers /
Abbreviations:**

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
H - Hold Time Exceeded

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
DLR: Detection Limit for Reporting
NSS - Non-Sufficient Sample Amount

SUBCONTRACT ORDER

BC Laboratories

0906997

0905379

SENDING LABORATORY:

BC Laboratories
4100 Atlas Ct
Bakersfield, CA 93308
Phone: 661-327-4911
Fax: 661-327-1918
Project Manager: Molly Meyers

RECEIVING LABORATORY:

Zalco Laboratories SZLCLB
4309 Armour
Bakersfield, CA 93308
Phone :395-0539
Fax: 395-3069

Analysis	Due	Expires	Laboratory ID	Comments
Sample ID: 0906997-01 - F	Water	Sampled:05/28/09 12:56		21.7
oiA-D1498w ORP ZLCLB	06/11/09 17:00	05/27/10 12:56		
Containers Supplied: Q+Amb				
Sample ID: 0906997-02	Water	Sampled:05/28/09 13:37		
oiA-D1498w ORP ZLCLB	06/11/09 17:00	05/27/10 13:37		
Containers Supplied: Q+Amb				
Sample ID: 0906997-03	Water	Sampled:05/28/09 14:12		
oiA-D1498w ORP ZLCLB	06/11/09 17:00	05/27/10 14:12		
Containers Supplied: Q+Amb				

Released By: Natany Date: 5/29/09
 Received By: Jessica Date: 5-29-09 1042
 Released By: [Signature] Date: 5-29-09 1048
 Received By: Jessica Date: 5/29/09 10:48

Submission #: 0906995 Ann 5/28 0906997

SHIPPING INFORMATION
 Federal Express UPS Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

All samples received? Yes No All samples containers intact? Yes No Description(s) match COC? Yes No

COC Received
 YES NO

Emissivity: 0.98 Container: QTA Thermometer ID: TH163
 Temperature: A 2.7 °C / C 2.4 °C

2150
 Date/Time 05-28-09
 Analyst Init MLW

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL							(1)	(2)	(3)	
PT PE UNPRESERVED							E	E	E	
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS							D	D	D	
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON							B	B	B	
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PLA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL							A	B	A	B
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT-EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER							F	F		
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON							C	C	C	
ENCORE										

Comments: _____
 Sample Numbering Completed By: MLW Date/Time: 05-28-09 2225

A = Actual / C = Corrected

BC LABORATORIES, INC.

4100 Atlas Court Bakersfield, CA 93308
 (661) 327-4911 FAX (661) 327-1918

CHAIN OF CUSTODY

Analysis Requested

0906997 ~~0906995~~ Perm 6129

Bill to: Conoco Phillips/ TRC	Consultant Firm: TRC	MATRIX (GW) Ground-water (S) Soil (WW) Waste-water (SL) Sludge BTEX/MTBE by 8021B, Gas by 8015 TPH GAS by 8015M TOC by 415.1 OCP by 857M D 1947 TPH DIESEL by 8015 8260 full list w/ oxygenates BTEX/MTBE/OXYS BY 8260B, FDB/EDC by 8260B ETHANOL by 8260B TPH - G by GC/MS, Nitrate by 300.0 Sulfate by 300.0, Alkalinity by 310.1, Dissolved Magnesium by 200.8 Chrom VI by 7196, Dissolved Chrom by 600.0 Do by SM 4500-g, Specific Conductance by 120.1 Total Chromium, Ferric Iron, Total Manganese by 200.8, Ferrous Iron by SM 18 3500 FETD
Address: 3420 35TH AVE.	21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan	
City: oakland	4-digit site#: 6129	
State: CA Zip:	Workorder # 04583-451093238/	
Conoco Phillips Mgr: Terry Bryson	Project #: 165521	
Sampler Name: JOE		

Lab#	Sample Description	Field Point Name	Date & Time Sampled													Turnaround Time Requested
	-1 -8	MW-1	05-28-09 1256	GW	X	X	X	X	X	X	X	X	X	X	X	STD
	-2 -8	MW-3	↓ 1337	↓	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	↓
	-3 -9	MW-2	↓ 1412	↓	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	↓
	ALM 5/28															

CHK-BY DISTRIBUTION
 CONSIGNMENT
 SUB-OUT E

SHORT HOLDING TIME
 NO₂ NO₃ OP SS
 BOD MBAS C O T

Comments: GLOBAL ID: 70600101465	Relinquished by: (Signature) <i>Joe D. Lewis</i>	Received by: <i>R. R. Wiley</i>	Date & Time 05-28-09 1628
	Relinquished by: (Signature) <i>R. R. Wiley 5/28/09</i>	Received by: <i>R. R. Wiley</i>	Date & Time 5-28-09 1825
	Relinquished by: (Signature) <i>R. R. Wiley 5-28-09 2140</i>	Received by:	Date & Time

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STATEMENTS

Purge Water Disposal

Non-hazardous groundwater produced during purging and sampling of monitoring was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by a licensed carrier, to the ConocoPhillips Refinery at Rodeo, California. Disposal at the Rodeo facility was authorized by ConocoPhillips in accordance with "ESD Standard Operating Procedures – Water Quality and Compliance", as revised on February 7, 2003. Documentation of compliance with ConocoPhillips requirements is provided by an ESD Form R-149, which is on file at TRC's Concord Office. Purge water suspected of containing potentially hazardous material, such as liquid-phase hydrocarbons, was accumulated separately in a drum for transportation and disposal by others.

Limitations

The fluid level monitoring and groundwater sampling activities summarized in this report have been performed under the responsible charge of a California Registered Geologist or Registered Civil Engineer and have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, express or implied, is made regarding the conclusions and professional opinions presented in this report. The conclusions are based solely upon an analysis of the observed conditions. If actual conditions differ from those described in this report, our office should be notified.