R058

TRC

March 20, 2006

ConocoPhillips Company
76 Broadway
Sacramento, CA 94563

ATTN: MR. THOMAS KOSEL

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

RE: QUARTERLY MONITORING REPORT
JANUARY THROUGH MARCH 2006

Dear Mr. Kosel:

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) 753-0101.

Sincerely,

TRC

Anju Farfan
QMS Operations Manager

CC: Mr. Daniel Davis, Delta Environmental Consultants, Inc. (2 copies)

Enclosures:
20-0400/6129R09.QMS

21 Technology Drive • Irvine, California 92618
Main: 949-727-9336 • Fax: 949-727-7399
www.trcsolutions.com

TRC

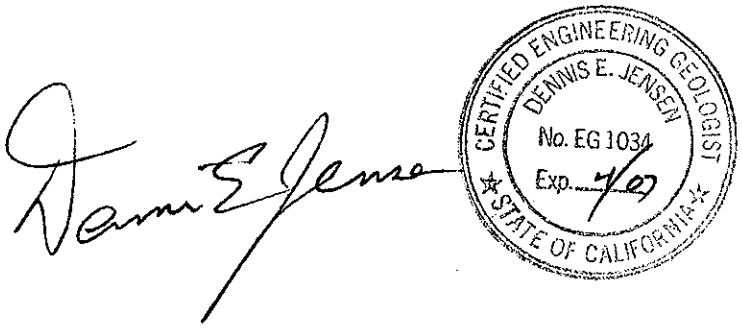
QUARTERLY MONITORING REPORT
JANUARY THROUGH MARCH 2006

76 STATION 6129
3420 35th Avenue
Oakland, California

Prepared For:

Mr. Thomas Kosel
CONOCOPHILLIPS COMPANY
76 Broadway
Sacramento, CA 94563

By:



Senior Project Geologist, Irvine Operations
March 14, 2006

21 Technology Drive • Irvine, California 92618
Main: 949-727-9336 • Fax: 949-727-7399
www.trcsolutions.com

LIST OF ATTACHMENTS	
Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Contents of Tables Table 1: Current Fluid Levels and Selected Analytical Results Table 1a: Additional Current Analytical Results Table 2: Historic Fluid Levels and Selected Analytical Results Table 2a: Additional Historic Analytical Results
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPPH Concentration Map Figure 4: Dissolved-Phase Benzene Concentration Map Figure 5: Dissolved-Phase MTBE Concentration Map
Graphs	Groundwater Elevations vs. Time Benzene Concentrations vs. Time MTBE 8260B Concentrations vs. Time
Field Activities	General Field Procedures Field Monitoring Data Sheet – 2/21/06 Groundwater Sampling Field Notes – 2/21/06
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

Summary of Gauging and Sampling Activities
January 2006 through March 2006
76 Station 6129
3420 35th Ave.
Oakland, CA

Project Coordinator: **Thomas Kosel**
Telephone: **916-558-7666**
Water Sampling Contractor: ***TRC***
Compiled by: **Daniel Lee**
Date(s) of Gauging/Sampling Event: **02/21/06**

Sample Points

Groundwater wells: **3** onsite, **0** offsite Wells gauged: **3** Wells sampled: **3**
Purging method: **Bailer**
Purge water disposal: **Onyx/Rodeo Unit 100**
Other Sample Points: **0** Type: **n/a**

Liquid Phase Hydrocarbons (LPH)

Wells with LPH: **0** Maximum thickness (feet): **n/a**
LPH removal frequency: **n/a** Method: **n/a**
Treatment or disposal of water/LPH: **n/a**

Hydrogeologic Parameters

Depth to groundwater (below TOC): Minimum: **28.27 feet** Maximum: **29.23 feet**
Average groundwater elevation (relative to available local datum): **72.66 feet**
Average change in groundwater elevation since previous event: **0.36 feet**
Interpreted groundwater gradient and flow direction:
Current event: **0.03 ft/ft, southwest**
Previous event: **0.02 ft/ft, southwest (12/06/05)**

Selected Laboratory Results

Wells with detected **Benzene:** **0** Wells above MCL (1.0 µg/l): **n/a**
Maximum reported benzene concentration: **n/a**

Wells with **TPPH 8260B** **2** Maximum: **420 µg/l (MW-3)**
Wells with **MTBE** **3** Maximum: **1,100 µg/l (MW-3)**

Notes:

This report presents the results of groundwater monitoring and sampling activities performed by TRC. Please contact the primary consultant for other specific information on this site.

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. e3quivalent 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)

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
TCE	=	trichloroethene
TPH-G	=	total petroleum hydrocarbons with gasoline distinction
TPH-D	=	total petroleum hydrocarbons with diesel distinction
TPPH	=	total purgeable petroleum hydrocarbons
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: Surface Elevation – Measured Depth to Water + (Dp x 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.
8. Groundwater vs. Time graphs may be corrected for apparent level changes due to re-survey.

REFERENCE

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

Contents of Tables
Site: 76 Station 6129

Current Event

Historic Data

Table 1

CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

February 21, 2006

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 (8015M) (µg/l)	TPPH (8260) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-1													
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	
MW-2													
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	
MW-3													
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	

Table 1 a
ADDITIONAL CURRENT ANALYTICAL RESULTS
76 Station 6129

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
MW-1							
02/21/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-2							
02/21/06	ND<10	ND<250	ND<0.50	ND<0.50	18	ND<0.50	ND<0.50
MW-3							
02/21/06	88	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.58

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

January 1990 Through February 2006

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 (8015M) (µg/l)	TPPH (8260) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (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	
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	

Table 2

HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS

January 1990 Through February 2006

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 (8015M) (µg/l)	TPPH (8260) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8260B) (µg/l)	Comments
MW-2 continued													
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	
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	
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	

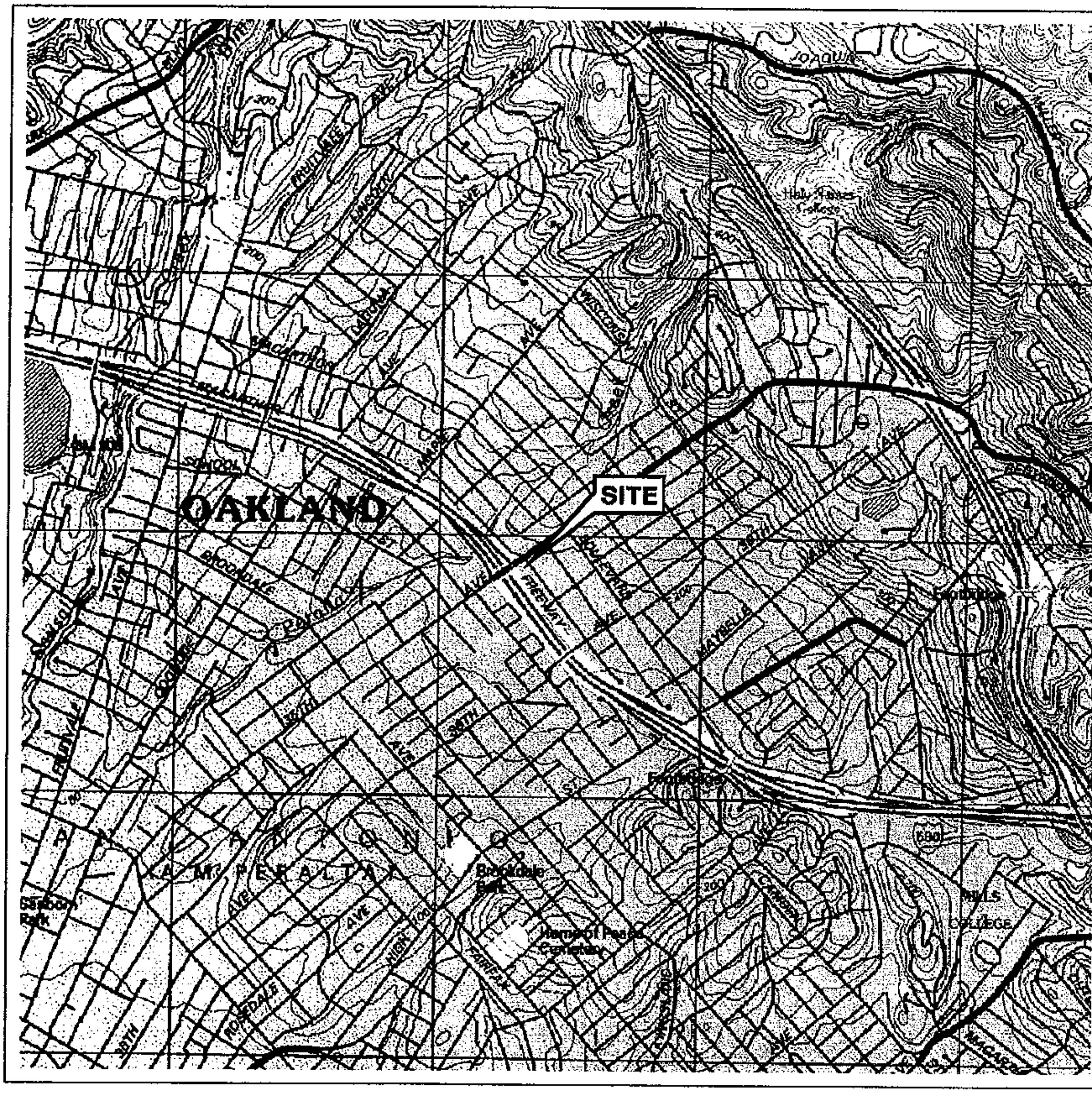
Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 6129

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(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
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
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
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
12/06/05	160	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 6129

Date Sampled	TBA	Ethanol (8260B)	Ethylene-dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME
	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)
MW-3 continued							
02/21/06	88	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.58

FIGURES



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SCALE 1:24,000

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SOURCE:

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

VICINITY MAP

76 Station 6129
3420 35th Avenue
Oakland, California

FIGURE 1

TRC

PS = 1:1

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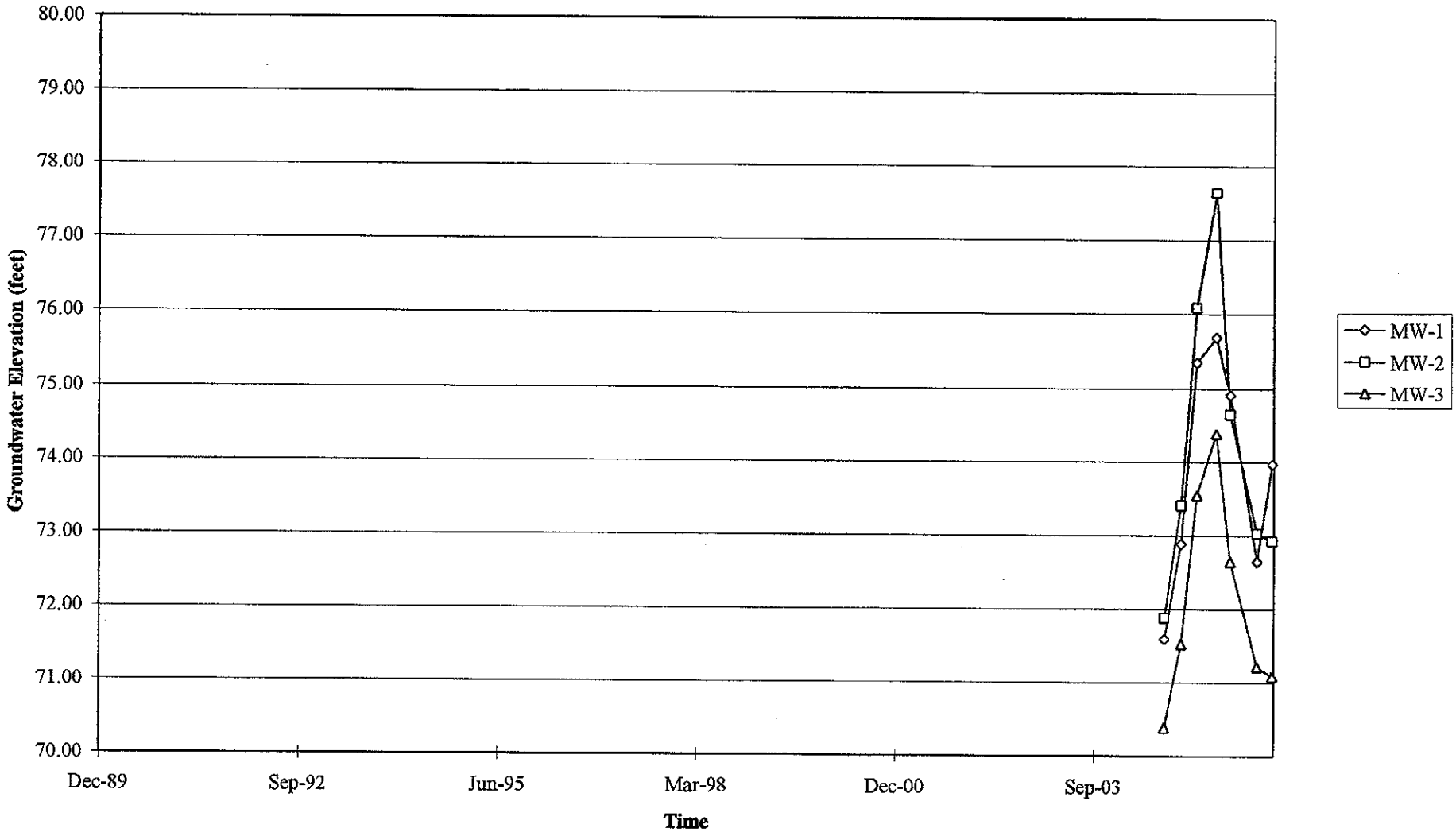
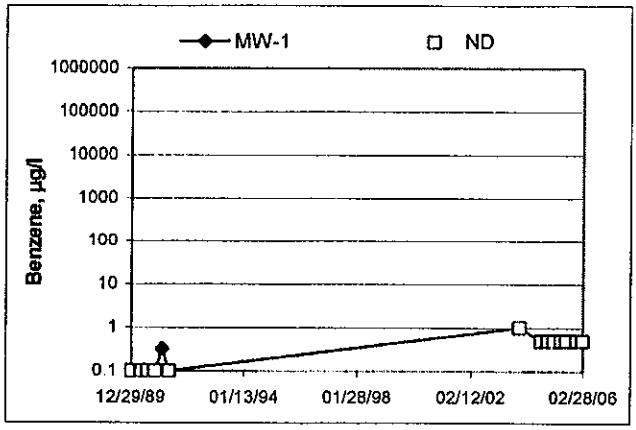
GRAPHS

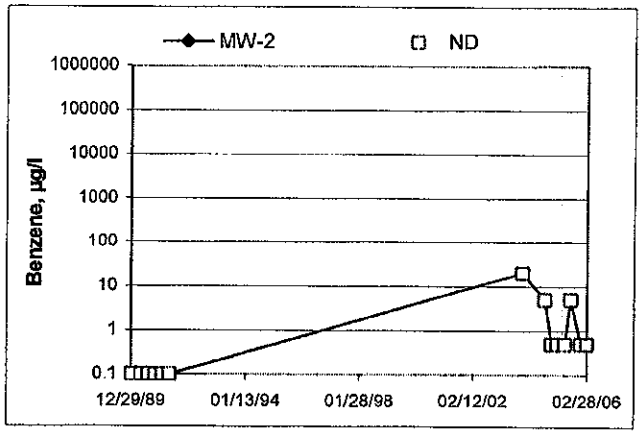
Groundwater Elevations vs. Time
76 Station 6129

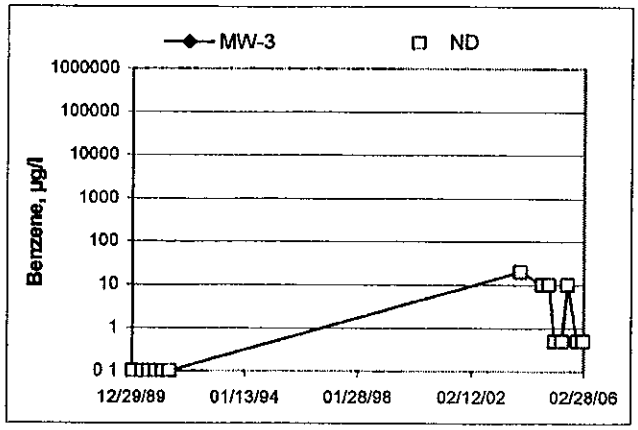


Elevations may have been corrected for apparent changes due to resurvey

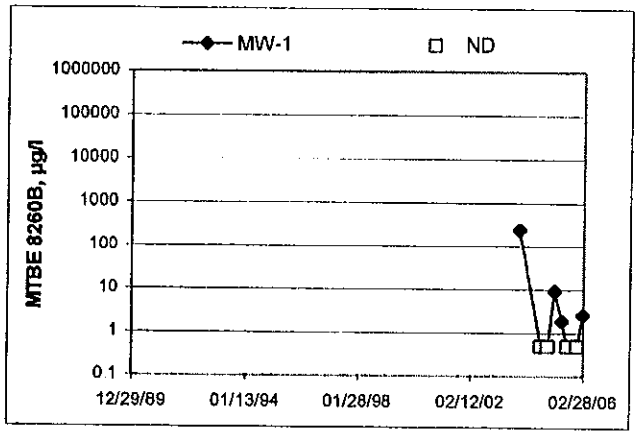
Benzene Concentrations vs Time
76 Station 6129

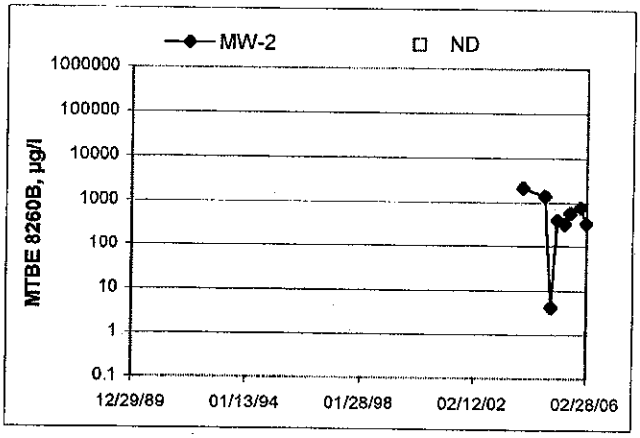


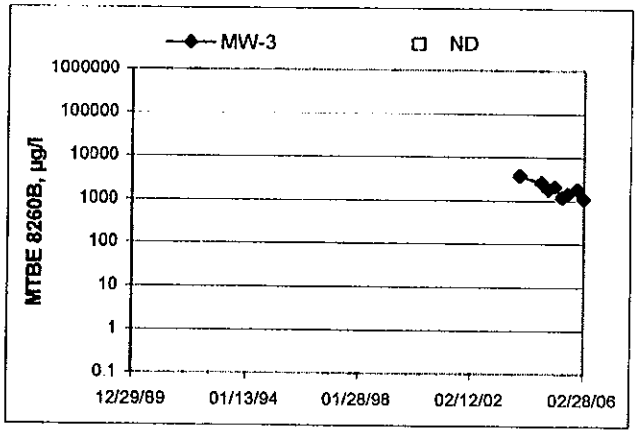




MTBE 8260B Concentrations vs Time
76 Station 6129







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 are 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 to a particular wells, 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.

FIELD MONITORING DATA SHEET

Technician: Nick Job #/Task #: 4105001 FA20 Date: 2-21-01

Site # 6129 Project Manager A. Collins Page 1 of 1

Well #	Time Gauged	TOC	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-1	0510	—	43.63	28.27	—	—	0624	2"
MW-2	0516	—	43.74	29.23	—	—	0651	1
MW-3	0523	—	42.76	28.91	—	—	0725	Y

FIELD DATA COMPLETE ✓ QA/QC COC ✓ WELL BOX CONDITION SHEETS ✓

WTT CERTIFICATE MANIFEST DRUM INVENTORY TRAFFIC CONTROL

GROUNDWATER SAMPLING FIELD NOTES

Technician: Nick

Site: 6129 Project No: 410500d Date: 2-21-06

Well No.: MW-1 Purge Method: HB

Depth to Water (feet): 28.27 Depth to Product (feet): —

Total Depth (feet): 43.63 LPH & Water Recovered (gallons): —

Water Column (feet): 15.36 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 31.34 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F ©)	pH	Turbidity	D.O
0548			2	642	12.9	7.57		
			4	642	13.4	7.12		
	0612		6	701	13.8	7.07		

Static at Time Sampled	Total Gallons Purged	Time Sampled
28.63	6	0621

Comments: Broke string on bailer, left bailer out

Well No.: MW-2 Purge Method: HB

Depth to Water (feet): 29.23 Depth to Product (feet): —

Total Depth (feet): 43.74 LPH & Water Recovered (gallons): —

Water Column (feet): 14.51 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 32.13 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F ©)	pH	Turbidity	D.O.
0628			2	673	12.8	7.57		
			4	719	13.5	7.07		
	0643		6	761	13.9	7.09		

Static at Time Sampled	Total Gallons Purged	Time Sampled
29.25	6	0651

Comments:

GROUNDWATER SAMPLING FIELD NOTES

Technician: NICK

Site: 6129 Project No.: 41050001 Date: 2-21-06

Well No.: MW-3 Purge Method: HB

Depth to Water (feet): 28.91 Depth to Product (feet): —

Total Depth (feet): 42.76 LPH & Water Recovered (gallons): —

Water Column (feet): 13.85 Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 31.68 1 Well Volume (gallons): 2

Time Start	Time Stop	Depth To Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F (C))	pH	Turbidity	D.O.
0658			2	616	13.0	7.14		
			4	667	13.9	6.95		
	0716		6	670	14.0	6.89		

Static at Time Sampled	Total Gallons Purged	Time Sampled
28.93	6	0725

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 (uS/cm)	Temperature (F C)	pH	Turbidity	D.O.

Static at Time Sampled	Total Gallons Purged	Time Sampled

Comments:

BC Laboratories, Inc

Date of Report: 03/02/2006

Anju Farfan

TRC Alton Geoscience
21 Technology Drive
Irvine, CA 92618-2302
RE: 6129
BC Lab Number: 0601748

Enclosed are the results of analyses for samples received by the laboratory on 02/21/06 22:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Hooker
Client Service Rep

Authorized Signature

BC Laboratories, Inc

TRC Alton Geoscience 21 Technology Drive Irvine CA, 92618-2302	Project: 6129 Project Number: [none] Project Manager: Anju Farfan	**Reported:** 03/02/06 13:18

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information				
0601748-01	**COC Number:**	—	**Receive Date:**	02/21/06 22:00	Delivery Work Order:
	Project Number:	6129	**Sampling Date:**	02/21/06 06:21	Global ID: T0600101465
	Sampling Location:	MW-1	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-1	**Sample Matrix:**	Water	Samle QC Type (SACode): CS
	Sampled By:	Nick of TRCI			Cooler ID:
0601748-02	**COC Number:**	---	**Receive Date:**	02/21/06 22:00	Delivery Work Order:
	Project Number:	6129	**Sampling Date:**	02/21/06 06:51	Global ID: T0600101465
	Sampling Location:	MW-2	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-2	**Sample Matrix:**	Water	Samle QC Type (SACode): CS
	Sampled By:	Nick of TRCI			Cooler ID:
0601748-03	**COC Number:**	---	**Receive Date:**	02/21/06 22:00	Delivery Work Order:
	Project Number:	6129	**Sampling Date:**	02/21/06 07:25	Global ID: T0600101465
	Sampling Location:	MW-3	**Sample Depth:**	---	Matrix: W
	Sampling Point:	MW-3	**Sample Matrix:**	Water	Samle QC Type (SACode): CS
	Sampled By:	Nick of TRCI			Cooler ID:

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TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6129
Project Number: [none]
Project Manager: Anju Farfan

Reported: 03/02/06 13:18

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0601748-01 | **Client Sample Name:** 6129, MW-1, MW-1, 2/21/2006 6:21:00AM, Nick

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:00	MCF	MS-V10	1	BPB1112	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:00	MCF	MS-V10	1	BPB1112	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:00	MCF	MS-V10	1	BPB1112	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:00	MCF	MS-V10	1	BPB1112	ND	
Methyl t-butyl ether	2.6	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:00	MCF	MS-V10	1	BPB1112	ND	
Toluene	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:00	MCF	MS-V10	1	BPB1112	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	02/23/06	02/25/06 14:00	MCF	MS-V10	1	BPB1112	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:00	MCF	MS-V10	1	BPB1112	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	02/23/06	02/25/06 14:00	MCF	MS-V10	1	BPB1112	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:00	MCF	MS-V10	1	BPB1112	ND	
Ethanol	ND	ug/L	250		EPA-8260	02/23/06	02/25/06 14:00	MCF	MS-V10	1	BPB1112	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:00	MCF	MS-V10	1	BPB1112	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50		EPA-8260	02/23/06	02/25/06 14:00	MCF	MS-V10	1	BPB1112	ND	
1,2-Dichloroethane-d4 (Surrogate)	96.7	%	76 - 114 (LCL - UCL)		EPA-8260	02/23/06	02/25/06 14:00	MCF	MS-V10	1	BPB1112		
Toluene-d8 (Surrogate)	99.1	%	88 - 110 (LCL - UCL)		EPA-8260	02/23/06	02/25/06 14:00	MCF	MS-V10	1	BPB1112		
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)		EPA-8260	02/23/06	02/25/06 14:00	MCF	MS-V10	1	BPB1112		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6129
Project Number: [none]
Project Manager: Anju Farfan

Reported: 03/02/06 13:18

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0601748-02 | **Client Sample Name:** 6129, MW-2, MW-2, 2/21/2006 6:51:00AM, Nick

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:24	MCF	MS-V10	1	BPB1112	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:24	MCF	MS-V10	1	BPB1112	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:24	MCF	MS-V10	1	BPB1112	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:24	MCF	MS-V10	1	BPB1112	ND	
Methyl t-butyl ether	340	ug/L	5.0		EPA-8260	02/23/06	02/28/06 23:28	MCF	MS-V10	10	BPB1112	ND	A01
Toluene	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:24	MCF	MS-V10	1	BPB1112	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	02/23/06	02/25/06 14:24	MCF	MS-V10	1	BPB1112	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:24	MCF	MS-V10	1	BPB1112	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	02/23/06	02/25/06 14:24	MCF	MS-V10	1	BPB1112	ND	
Diisopropyl ether	18	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:24	MCF	MS-V10	1	BPB1112	ND	
Ethanol	ND	ug/L	250		EPA-8260	02/23/06	02/25/06 14:24	MCF	MS-V10	1	BPB1112	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:24	MCF	MS-V10	1	BPB1112	ND	
Total Purgeable Petroleum Hydrocarbons	190	ug/L	50		EPA-8260	02/23/06	02/25/06 14:24	MCF	MS-V10	1	BPB1112	ND	A53
1,2-Dichloroethane-d4 (Surrogate)	105	%	76 - 114 (LCL - UCL)		EPA-8260	02/23/06	02/28/06 23:28	MCF	MS-V10	10	BPB1112		
1,2-Dichloroethane-d4 (Surrogate)	99.9	%	76 - 114 (LCL - UCL)		EPA-8260	02/23/06	02/25/06 14:24	MCF	MS-V10	1	BPB1112		
Toluene-d8 (Surrogate)	96.8	%	88 - 110 (LCL - UCL)		EPA-8260	02/23/06	02/25/06 14:24	MCF	MS-V10	1	BPB1112		
Toluene-d8 (Surrogate)	105	%	88 - 110 (LCL - UCL)		EPA-8260	02/23/06	02/28/06 23:28	MCF	MS-V10	10	BPB1112		
4-Bromofluorobenzene (Surrogate)	94.2	%	86 - 115 (LCL - UCL)		EPA-8260	02/23/06	02/28/06 23:28	MCF	MS-V10	10	BPB1112		
4-Bromofluorobenzene (Surrogate)	99.4	%	86 - 115 (LCL - UCL)		EPA-8260	02/23/06	02/25/06 14:24	MCF	MS-V10	1	BPB1112		

TRC Alton Geoscience	Project: 6129	
21 Technology Drive	Project Number: [none]	
Irvine CA, 92618-2302	Project Manager: Anju Farfan	**Reported:** 03/02/06 13:18

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0601748-03 | **Client Sample Name:** 6129, MW-3, MW-3, 2/21/2006 7:25:00AM, Nick

Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:47	MCF	MS-V10	1	BPB1112	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:47	MCF	MS-V10	1	BPB1112	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:47	MCF	MS-V10	1	BPB1112	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:47	MCF	MS-V10	1	BPB1112	ND	
Methyl t-butyl ether	1100	ug/L	25		EPA-8260	02/23/06	02/28/06 23:51	MCF	MS-V10	50	BPB1112	ND	A01
Toluene	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:47	MCF	MS-V10	1	BPB1112	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	02/23/06	02/25/06 14:47	MCF	MS-V10	1	BPB1112	ND	
t-Amyl Methyl ether	0.58	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:47	MCF	MS-V10	1	BPB1112	ND	
t-Butyl alcohol	88	ug/L	10		EPA-8260	02/23/06	02/25/06 14:47	MCF	MS-V10	1	BPB1112	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:47	MCF	MS-V10	1	BPB1112	ND	
Ethanol	ND	ug/L	250		EPA-8260	02/23/06	02/25/06 14:47	MCF	MS-V10	1	BPB1112	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	02/23/06	02/25/06 14:47	MCF	MS-V10	1	BPB1112	ND	
Total Purgeable Petroleum Hydrocarbons	420	ug/L	50		EPA-8260	02/23/06	02/25/06 14:47	MCF	MS-V10	1	BPB1112	ND	A53
1,2-Dichloroethane-d4 (Surrogate)	97.9	%	76 - 114	(LCL - UCL)	EPA-8260	02/23/06	02/25/06 14:47	MCF	MS-V10	1	BPB1112		
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114	(LCL - UCL)	EPA-8260	02/23/06	02/28/06 23:51	MCF	MS-V10	50	BPB1112		
Toluene-d8 (Surrogate)	88.4	%	88 - 110	(LCL - UCL)	EPA-8260	02/23/06	02/25/06 14:47	MCF	MS-V10	1	BPB1112		
Toluene-d8 (Surrogate)	116	%	88 - 110	(LCL - UCL)	EPA-8260	02/23/06	02/28/06 23:51	MCF	MS-V10	50	BPB1112		S09
4-Bromofluorobenzene (Surrogate)	98.1	%	86 - 115	(LCL - UCL)	EPA-8260	02/23/06	02/25/06 14:47	MCF	MS-V10	1	BPB1112		
4-Bromofluorobenzene (Surrogate)	96.2	%	86 - 115	(LCL - UCL)	EPA-8260	02/23/06	02/28/06 23:51	MCF	MS-V10	50	BPB1112		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6129
Project Number: [none]
Project Manager: Anju Farfan

Reported: 03/02/06 13:18

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample ID	QC Sample Type	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
Benzene	BPB1112	BPB1112-MS1	Matrix Spike	ND	26.250	25.000	ug/L		105		70 - 130	
		BPB1112-MSD1	Matrix Spike Duplicate	ND	25.580	25.000	ug/L	2.90	102	20	70 - 130	
Toluene	BPB1112	BPB1112-MS1	Matrix Spike	0.20000	24.650	25.000	ug/L		97.8		70 - 130	
		BPB1112-MSD1	Matrix Spike Duplicate	0.20000	24.490	25.000	ug/L	0.615	97.2	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BPB1112	BPB1112-MS1	Matrix Spike	ND	10.160	10.000	ug/L		102		76 - 114	
		BPB1112-MSD1	Matrix Spike Duplicate	ND	9.6000	10.000	ug/L		96.0		76 - 114	
Toluene-d8 (Surrogate)	BPB1112	BPB1112-MS1	Matrix Spike	ND	9.7400	10.000	ug/L		97.4		88 - 110	
		BPB1112-MSD1	Matrix Spike Duplicate	ND	9.9000	10.000	ug/L		99.0		88 - 110	
4-Bromofluorobenzene (Surrogate)	BPB1112	BPB1112-MS1	Matrix Spike	ND	10.340	10.000	ug/L		103		86 - 115	
		BPB1112-MSD1	Matrix Spike Duplicate	ND	9.8700	10.000	ug/L		98.7		86 - 115	

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6129
Project Number: [none]
Project Manager: Anju Farfan

Reported: 03/02/06 13:18

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 Percent Recovery	Control Limits RPD	Lab Quals
Benzene	BPB1112	BPB1112-BS1	LCS	25.650	25.000	0.50	ug/L	103		70 - 130		
Toluene	BPB1112	BPB1112-BS1	LCS	24.850	25.000	0.50	ug/L	99.4		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BPB1112	BPB1112-BS1	LCS	10.070	10.000		ug/L	101		76 - 114		
Toluene-d8 (Surrogate)	BPB1112	BPB1112-BS1	LCS	9.9800	10.000		ug/L	99.8		88 - 110		
4-Bromofluorobenzene (Surrogate)	BPB1112	BPB1112-BS1	LCS	10.290	10.000		ug/L	103		86 - 115		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6129
Project Number: [none]
Project Manager: Anju Farfan

Reported: 03/02/06 13:18

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	BPB1112	BPB1112-BLK1	ND	ug/L	0.50	0.12	
1,2-Dibromoethane	BPB1112	BPB1112-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichloroethane	BPB1112	BPB1112-BLK1	ND	ug/L	0.50	0.25	
Ethylbenzene	BPB1112	BPB1112-BLK1	ND	ug/L	0.50	0.12	
Methyl t-butyl ether	BPB1112	BPB1112-BLK1	ND	ug/L	0.50	0.12	
Toluene	BPB1112	BPB1112-BLK1	ND	ug/L	0.50	0.15	
Total Xylenes	BPB1112	BPB1112-BLK1	ND	ug/L	1.0	0.37	
t-Amyl Methyl ether	BPB1112	BPB1112-BLK1	ND	ug/L	0.50	0.49	
t-Butyl alcohol	BPB1112	BPB1112-BLK1	ND	ug/L	10	10	
Diisopropyl ether	BPB1112	BPB1112-BLK1	ND	ug/L	0.50	0.25	
Ethanol	BPB1112	BPB1112-BLK1	ND	ug/L	250	110	
Ethyl t-butyl ether	BPB1112	BPB1112-BLK1	ND	ug/L	0.50	0.25	
Total Purgeable Petroleum Hydrocarbons	BPB1112	BPB1112-BLK1	ND	ug/L	50	23	
1,2-Dichloroethane-d4 (Surrogate)	BPB1112	BPB1112-BLK1	98.5	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BPB1112	BPB1112-BLK1	101	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BPB1112	BPB1112-BLK1	98.4	%	86 - 115 (LCL - UCL)		

TRC Alton Geoscience
21 Technology Drive
Irvine CA, 92618-2302

Project: 6129
Project Number: [none]
Project Manager: Anju Farfan

Reported: 03/02/06 13:18

Notes and Definitions

V11	The Continuing Calibration Verification (CCV) recovery is not within established control limits.
S09	The surrogate recovery on the sample for this compound was not within the control limits
A53	Chromatogram not typical of gasoline.
A01	PQL's and MDL's are raised due to sample dilution.
ND	Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 10 01/21/04 Page __ Of __

Submission #: 06-01748 | Project Code: | TB Batch #

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 ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

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

COC Received ☑ YES ☐ NO

Ice Chest ID: RIW Temperature: 2.1 °C Thermometer ID: 48
Emissivity: 1.0 Container: V09
Date/Time: 2/21/16 Analyst Init: AGM

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
100ml TOTAL ORGANIC CARBON										
QT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A:3	A:3	A:3	"	"	"	"	"	"	"
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 QA/QC										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

omments:_____
ample Numbering Completed By: AGM Date/Time: 2/22/16 0100

[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

Page 1

BC LABORATORIES, INC.

[illegible] Bakersfield, CA 93308
(661) 327-4911 FAX (661) 327-1918

CHAIN OF CUSTODY

#06-01778

Analysis Requested

Circle one: Phillips 66 / Unocal

Consultant Firm: TRC
21 Technology Drive
Irvine, CA 92618-2302
Attn: Anju Farfan

Address: 3420 35th Ave

City: Oakland

4-digit site#: 6129

Workorder #: 4583TRC502

State: CA Zip:

Project #: 41050001

Phillips 66 Unocal Mgr:

Sampler Name: NICK

MATRIX: (GW) Ground-water / (S) Soil / (WW) Waste-water / (SL) Sludge

Lab #	Sample Description	Field Point Name	Date & Time Sampled		Matrix	BTEX/MTBE by 8021B, Gas by 8015	TPH GAS by 8015M	TPH DIESEL by 8015	8260 full list w/ MTBE & oxygenates	BTEX/~~[illegible]~~ by 8260B	ETHANOL by 8260B	TPPH by 8260B	8 OXYs by 8260B		Turnaround Time Requested
	-1	MW-1	2-21-06	0621	GW					X		X	X		
	-2	MW-2	↓	0651	↓					↓		↓	↓		
	-3	MW-3	↓	0725	↓					↓		↓	↓		

CHK BY: OTO DISTRIBUTION: JKR SUB-OUT ☐

Comments:

GLOBAL ID: T0600101465

Relinquished by (Signature)	Received by	Date & Time
NICK [signature]	FRIDGE	2-21-06
[signature]	Ross Dickey	2/21/06 1455
Ross Dickey	[signature]	2-21-06 1800
	[signature]	2/21/06 2200

(A) = ANALYSIS (C) = CONTAINER (P) = PRESERVATIVE

Northern CA

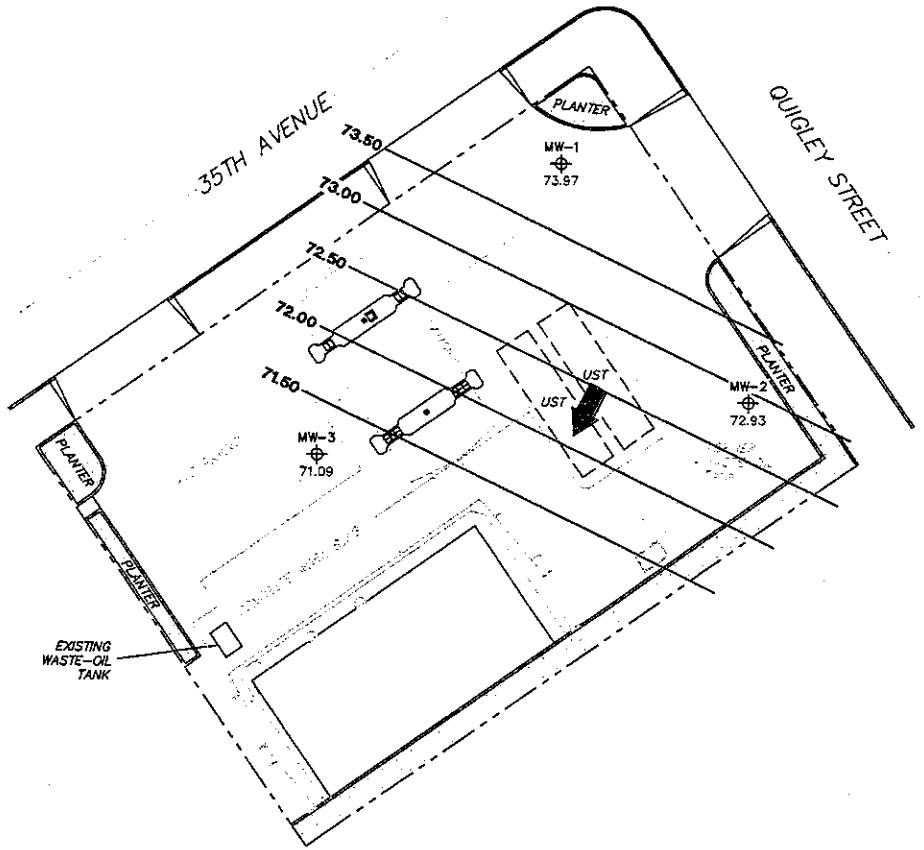
STATEMENTS

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 Onyx Transportation, Inc., 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 containing a significant amount of liquid-phase hydrocarbons was accumulated separately in drums for transportation and disposal by Filter Recycling, Inc.

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.



N

LEGEND

MW-3 ⊕ Monitoring Well with Groundwater Elevation (feet)

73.50 —— Groundwater Elevation Contour

General Direction of Groundwater Flow

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.

SCALE (FEET)

0 30 60

GROUNDWATER ELEVATION CONTOUR MAP
February 21, 2006

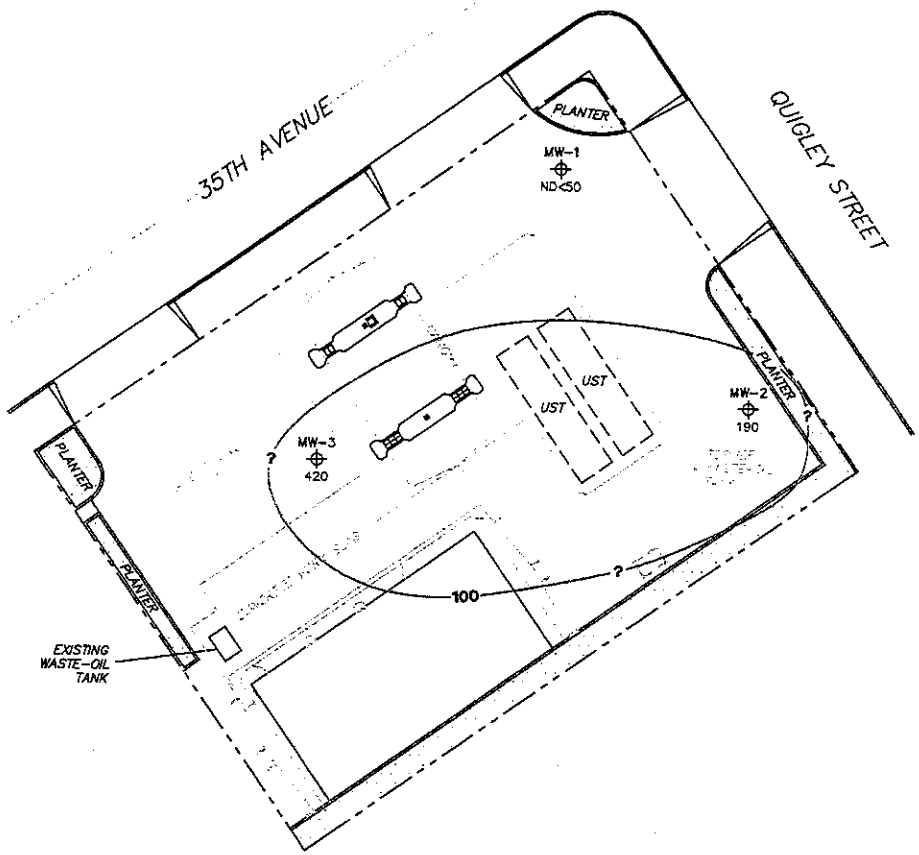
76 Station 6129
3420 35th Avenue
Oakland, California

TRC

FIGURE 2

PS=1:1 6129-003

\\IRVINE-FS1\Graphics\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-6000\6129+\6129_QMS.dwg Mar 14, 2006 - 2:17pm bschmidt



N

LEGEND

MW-3 ⊕ Monitoring Well with Dissolved-Phase TPPH Concentration (µg/l)

—100— Dissolved-Phase TPPH Contour (µg/l)

NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TPPH = total purgeable petroleum hydrocarbons. µg/l = micrograms per liter. UST = underground storage tank. ND = not detected at limit indicated on official laboratory report. Results obtained using EPA Method 8260B.

DISSOLVED-PHASE TPPH CONCENTRATION MAP
February 21, 2006

76 Station 6129
3420 35th Avenue
Oakland, California

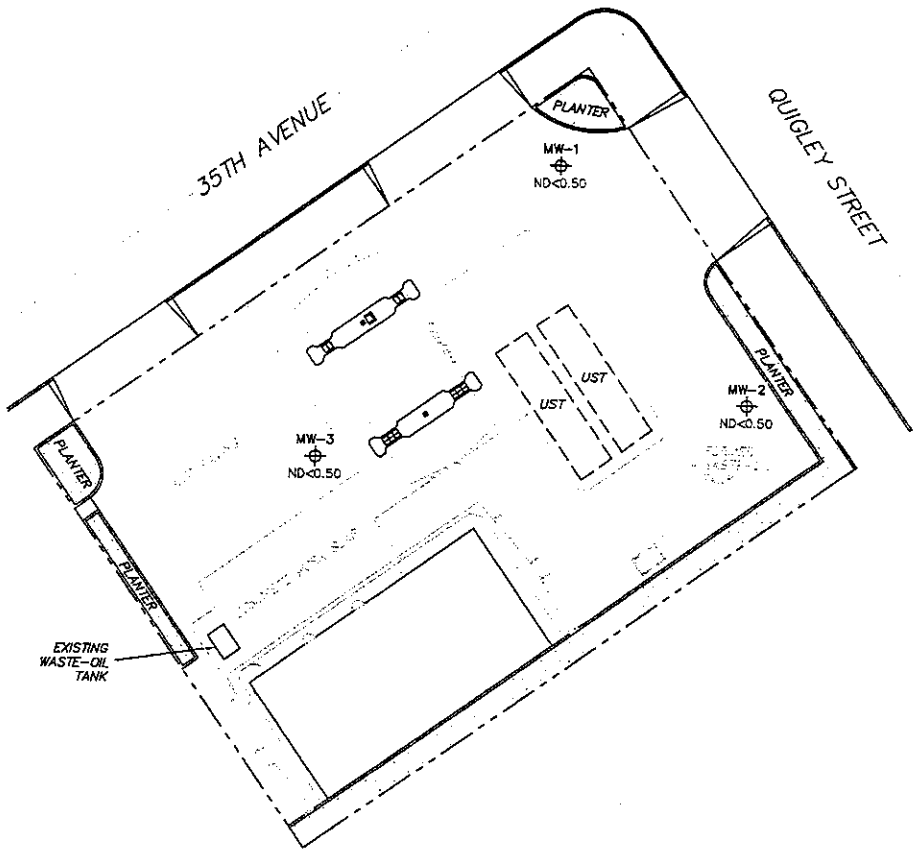
SCALE (FEET)
0 30 60

PS=1:1 6129-003

\\IRVINE-FS1\Graphics\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-6000\6129+\6129_QMS.dwg Mar 14, 2006 - 2:56pm bschmidt

TRC

FIGURE 3



N

LEGEND

MW-3 ⊕ Monitoring Well with Dissolved-Phase Benzene Concentration (µg/l)

NOTES:

µg/l = micrograms per liter. UST = underground storage tank. ND = not detected at limit indicated on official laboratory report.

SCALE (FEET)

0 30 60

DISSOLVED-PHASE BENZENE CONCENTRATION MAP
February 21, 2006

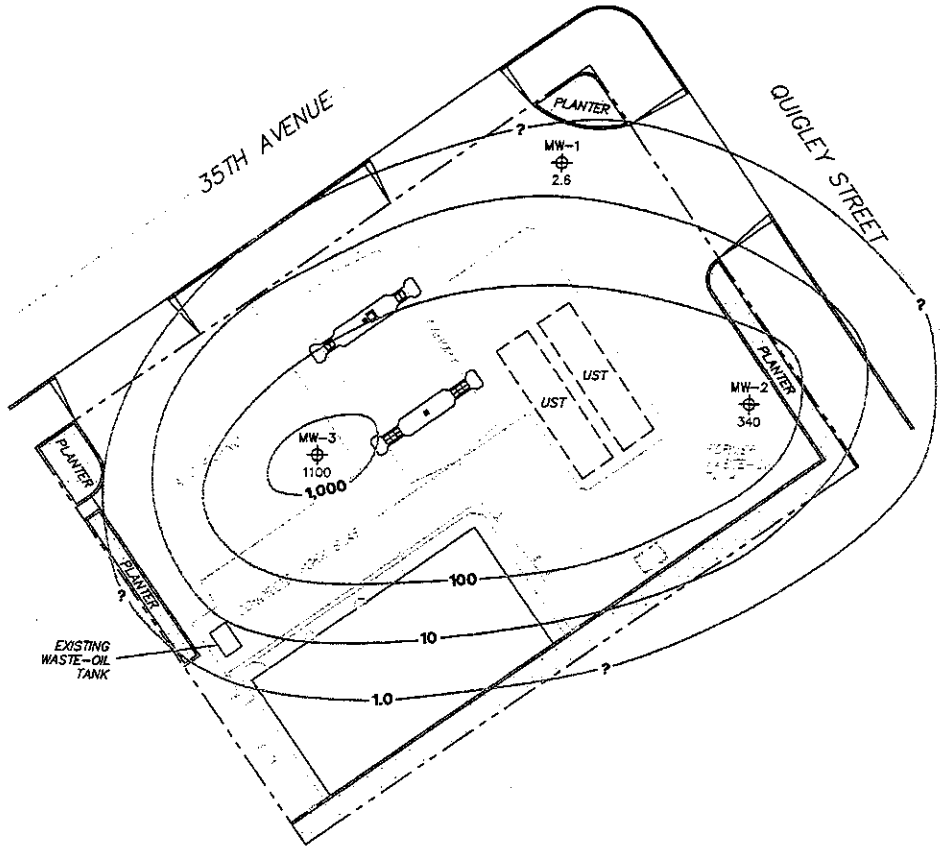
76 Station 6129
3420 35th Avenue
Oakland, California

TRC

FIGURE 4

PS=1:1 6129-003

\\IRVINE-FS1\Graphics\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-6000\6129+\6129_QMS.dwg Mar 14, 2006 - 2:59pm bachmidt



N

LEGEND

MW-3 ⊕ Monitoring Well with Dissolved-Phase MTBE Concentration (µg/l)

—1,000— Dissolved-Phase MTBE Contour (µg/l)

NOTES:

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. µg/l = micrograms per liter. UST = underground storage tank. Results obtained using EPA Method 8260B.

DISSOLVED-PHASE MTBE CONCENTRATION MAP
February 21, 2006

76 Station 6129
3420 35th Avenue
Oakland, California

SCALE (FEET)
0 30 60

PS=1:1 6129-003

\\RVINE-FS1\Graphics\Graphics\ProjectsByNumber\20-xxxx\20-0400(UnocalQMS)\x-5000\6129+\6129_QMS.dwg Mar 14, 2006 - 2:19pm bschmidt

TRC

FIGURE 5