

ROS8



Customer-Focused Solutions

October 14, 2004

ConocoPhillips Company
76 Broadway
Sacramento, CA 94563

ATTN: MR. THOMAS KOSEL

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

RE: QUARTERLY MONITORING REPORT
JULY THROUGH SEPTEMBER 2004

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. Jed Douglas, Miller Brooks Environmental (2 copies)

Enclosures:
20-0400/6129R01.QMS





Customer-Focused Solutions

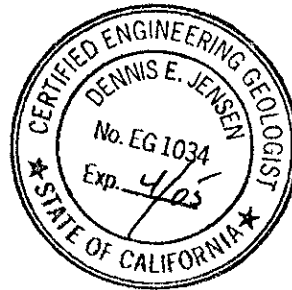
**QUARTERLY MONITORING REPORT
JULY THROUGH SEPTEMBER 2004**

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
October 8, 2004

LIST OF ATTACHMENTS

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Statements	Purge Water Disposal Limitations

Summary of Gauging and Sampling Activities
July 2004 through September 2004
76 Station 6129
3420 35th Ave.
Oakland, CA

Project Coordinator: **Thomas Kosel**
Telephone: **916-558-7666**

Water Sampling Contractor: **TRC**
Compiled by: **Valentina Tobon**

Date(s) of Gauging/Sampling Event: **08/27/04**

Sample Points

Groundwater wells: **3** onsite, **0** offsite Wells gauged: **3** Wells sampled: **3**
Purging method: **Submersible pump**
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: **29.61 feet** Maximum: **30.65 feet**
Average groundwater elevation (relative to available local datum): **71.29 feet**
Average change in groundwater elevation since previous event: **n/a**
Interpreted groundwater gradient and flow direction:
 Current event: **0.014 ft/ft, west**
 Previous event: *** see notes (11/13/03)**

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: **1,700 µg/l (MW-3)**
Wells with **MTBE** **2** Maximum: **2,600 µg/l (MW-3)**

Notes:

* Wells previously sampled (11/13/03) by Miller Brooks Environmental but not gauged.

TABLES

TABLE KEY

STANDARD ABBREVIATIONS

--	=	not analyzed, measured, or collected
LPH	=	liquid-phase hydrocarbons
Trace	=	less than 0.01 foot of LPH in well
µg/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)

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: $\text{Surface Elevation} - \text{Measured Depth to Water} + (\text{Dp} \times \text{LPH Thickness})$, 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.
8. Groundwater vs. Time graphs may be corrected for apparent level changes due to resurvey.

REFERENCE

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

Table 1
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
August 27, 2004
76 Station 6129

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8260B (µg/l)	Comments
MW-1												
8/27/04	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	
MW-2												
8/27/04	102.16	30.28	0.00	71.88	--	950	ND<5.0	ND<5.0	ND<5.0	ND<10	1400	
MW-3												
8/27/04	100.00	29.61	0.00	70.39	--	1700	ND<10	ND<10	ND<10	ND<20	2600	

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
January 1990 Through August 2004
76 Station 6129

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Total Xylenes (µg/l)	MTBE 8260B (µg/l)	Comments
MW-1												
01/05/90	--	--	--	--	--	--	ND	ND	ND	ND	--	
05/11/90	--	--	--	--	--	--	ND	7.1	ND	ND	--	
08/09/90	--	--	--	--	--	--	ND	ND	ND	ND	--	
11/14/90	--	--	--	--	--	--	ND	ND	ND	ND	--	
02/12/91	--	--	--	--	--	--	0.32	ND	ND	ND	--	
05/09/91	--	--	--	--	--	--	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	
MW-2												
01/05/90	--	--	--	--	--	--	ND	ND	ND	ND	--	
05/11/90	--	--	--	--	--	--	ND	ND	ND	ND	--	
08/09/90	--	--	--	--	--	--	ND	ND	ND	ND	--	
11/14/90	--	--	--	--	--	--	ND	ND	ND	ND	--	
02/12/91	--	--	--	--	--	--	ND	0.42	ND	0.51	--	
05/09/91	--	--	--	--	--	--	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	
MW-3												
01/05/90	--	--	0.00	--	--	--	ND	ND	ND	ND	--	
05/11/90	--	--	--	--	--	--	ND	ND	ND	ND	--	
08/09/90	--	--	--	--	--	--	ND	ND	ND	ND	--	
11/14/90	--	--	--	--	--	--	ND	ND	ND	ND	--	
02/12/91	--	--	--	--	--	--	ND	ND	ND	ND	--	
05/09/91	--	--	--	--	--	--	ND	ND	ND	ND	--	

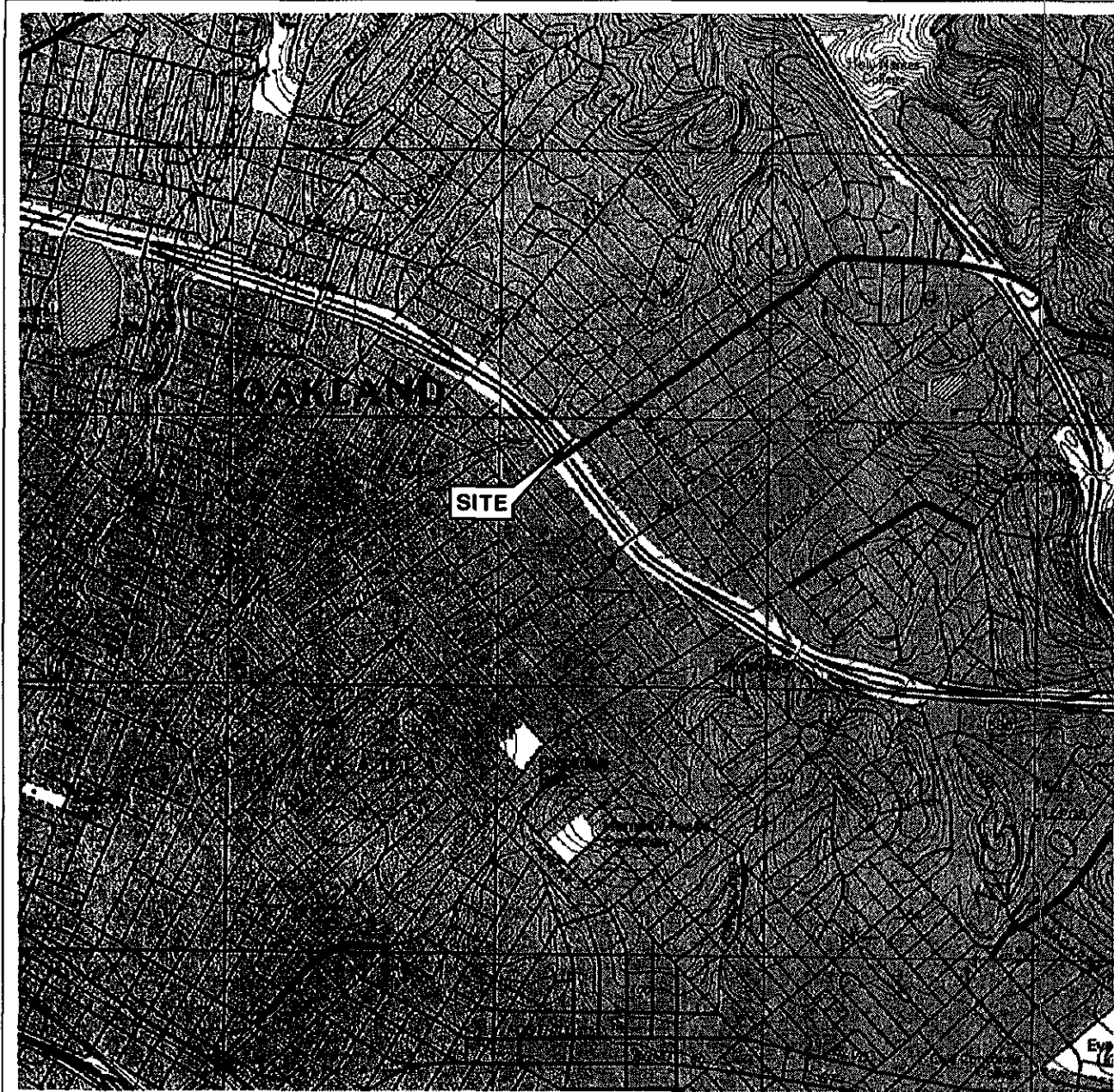
Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
January 1990 Through August 2004
76 Station 6129

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8260B (µg/l)	Comments
MW-3 continued												
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	

Table 3
ADDITIONAL ANALYTICAL RESULTS
76 Station 6129

Date Sampled	EDC (µg/l)	EDB (µg/l)	TAME 8260B (µg/l)	TBA 8260B (µg/l)	DIPE 8260B (µg/l)	ETBE 8260B (µg/l)	Ethanol 8260B (µg/l)
MW-1							
11/13/03	ND<4.0	ND<4.0	ND<4.0	ND<200	ND<4.0	ND<4.0	ND<1000
8/27/04	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<1.0	ND<0.50	ND<50
MW-2							
11/13/03	ND<80	ND<80	ND<80	ND<4000	ND<80	ND<80	ND<20000
8/27/04	ND<5.0	ND<5.0	ND<5.0	ND<50	24	ND<5.0	ND<500
MW-3							
11/13/03	ND<80	ND<80	ND<80	ND<4000	ND<80	ND<80	ND<20000
8/27/04	ND<10	ND<10	ND<10	ND<100	ND<20	ND<10	ND<1000

FIGURES



N

0 1/4 1/2 3/4 1 MILE



SCALE 1:24,000

SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
Oakland East Quadrangle
Address located from Mopquest



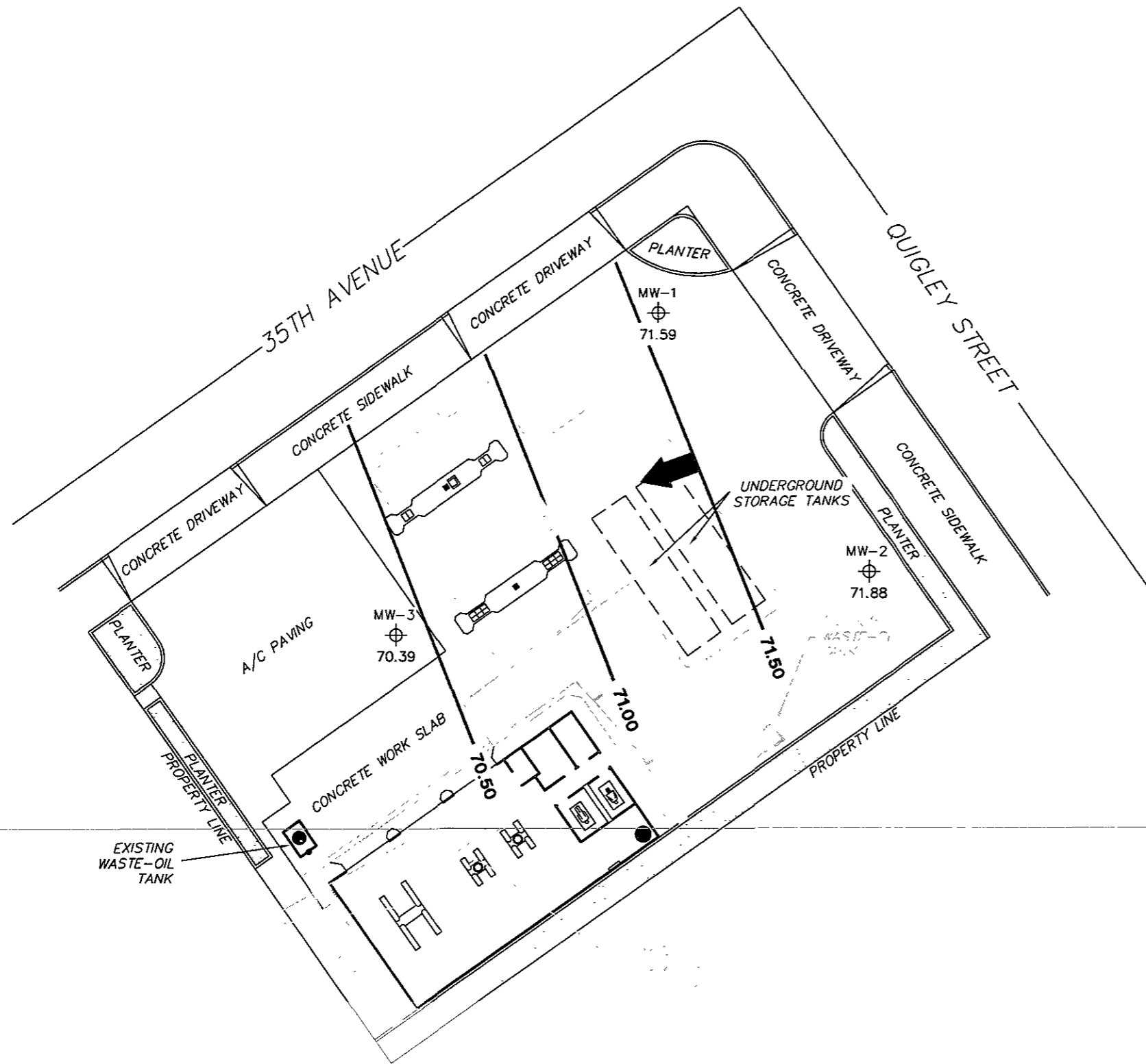
VICINITY MAP

76 Station 6129
3420 35th Street
Oakland, California




FIGURE 1

P.S. = 1:1

TRC



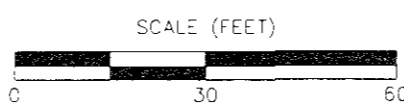
LEGEND

- MW-3  Monitoring Well with Groundwater Elevation (feet)
- 71.50  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.

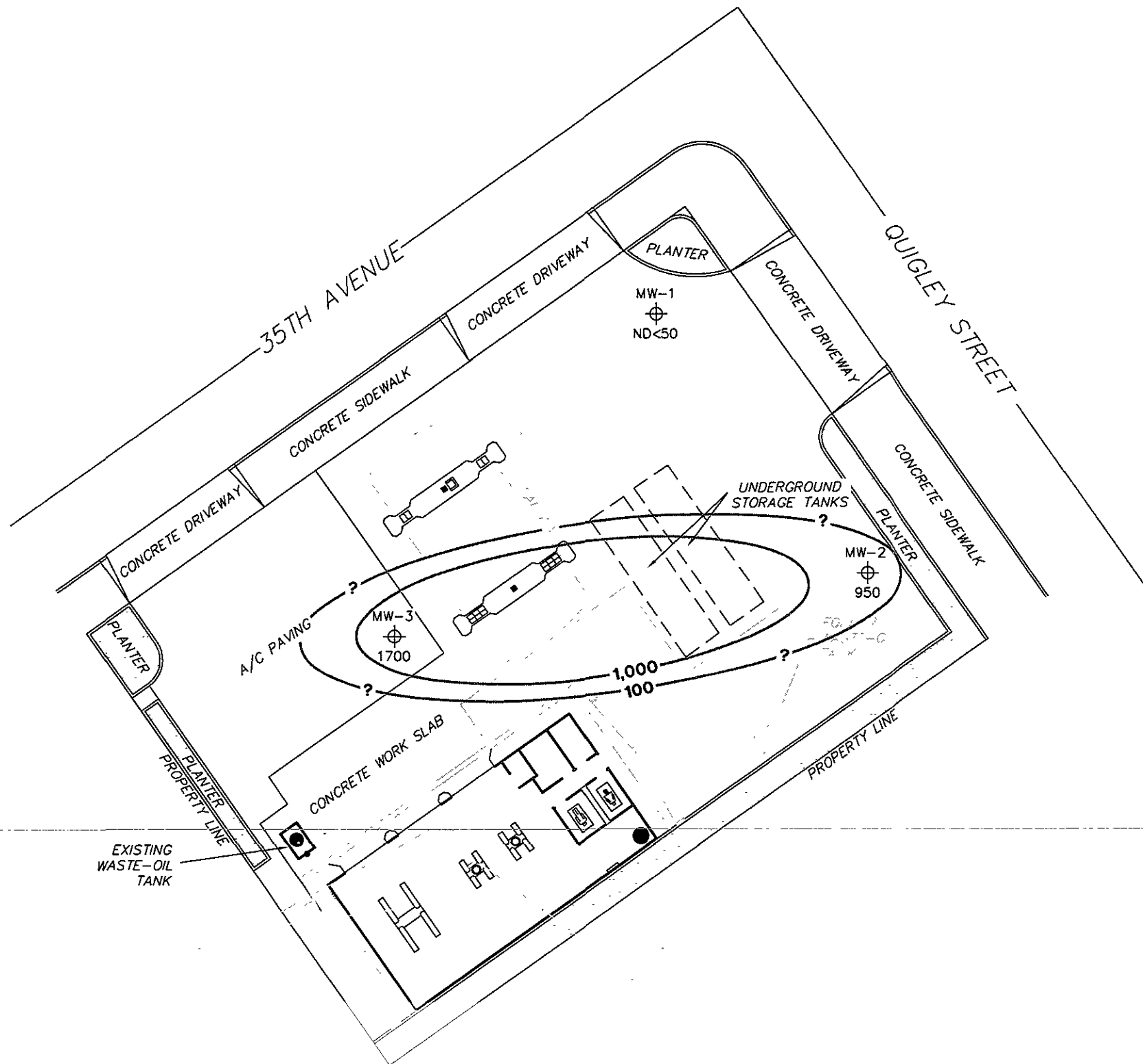
**GROUNDWATER ELEVATION
 CONTOUR MAP
 August 27, 2004**

76 Station 6'29
 3420 35th Street
 Oakland, California



TRC **FIGURE 2**

PS=1.1



LEGEND

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

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

NOTES:

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

**DISSOLVED-PHASE TPHH
CONCENTRATION MAP
August 27, 2004**

76 Station 6'29
3420 35th Street
Oakland, California

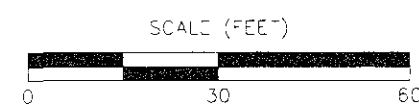
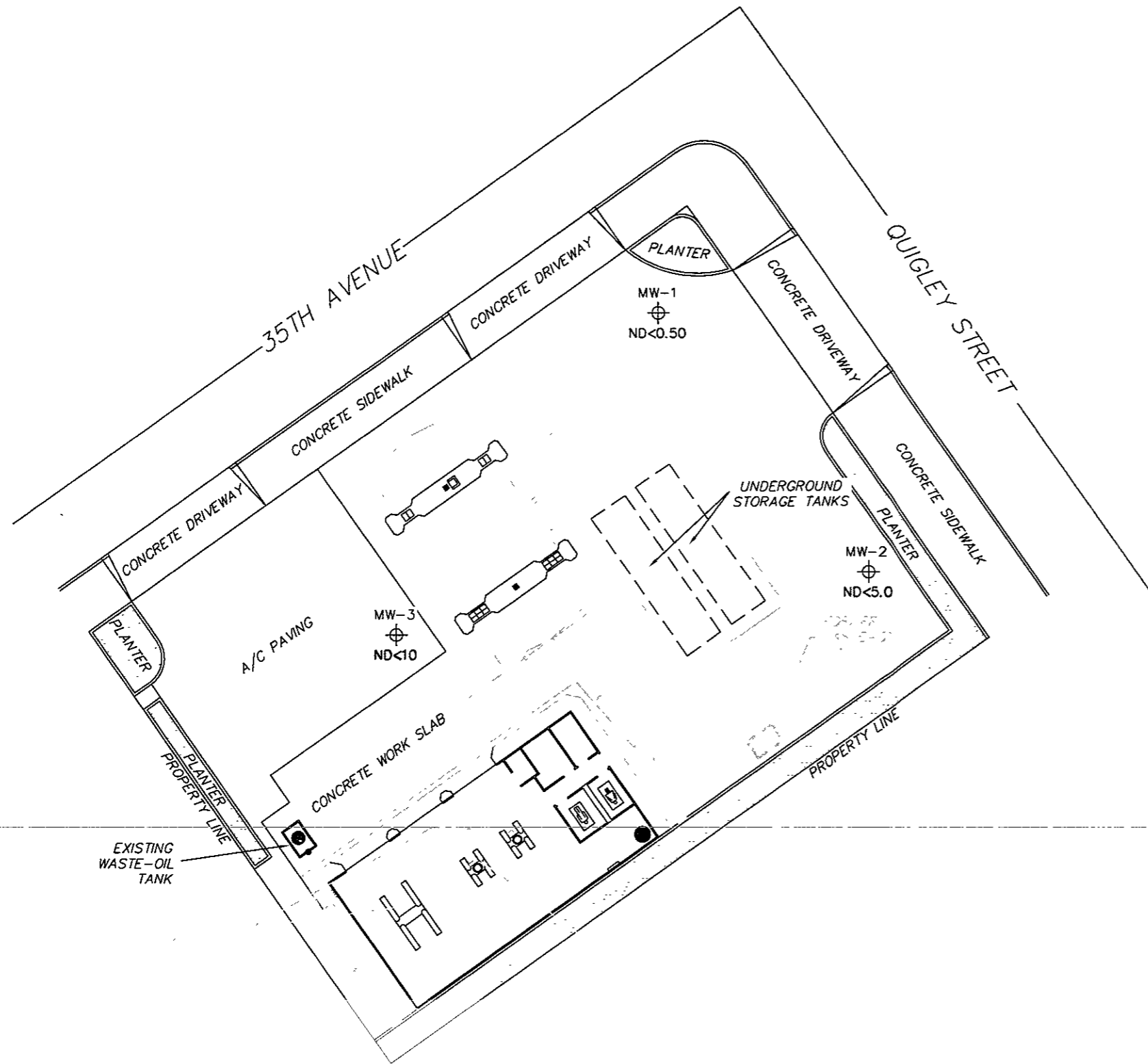


FIGURE 3

P:5=1.1 6129-00.3



LEGEND

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

NOTES:
 $\mu\text{g/l}$ = micrograms per liter. ND = not detected at limit indicated on official laboratory report.

**DISSOLVED-PHASE BENZENE
 CONCENTRATION MAP
 August 27, 2004**

76 Station 6'29
 3420 35th Street
 Oakland, California

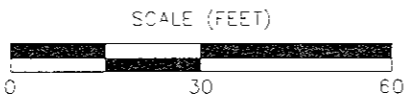
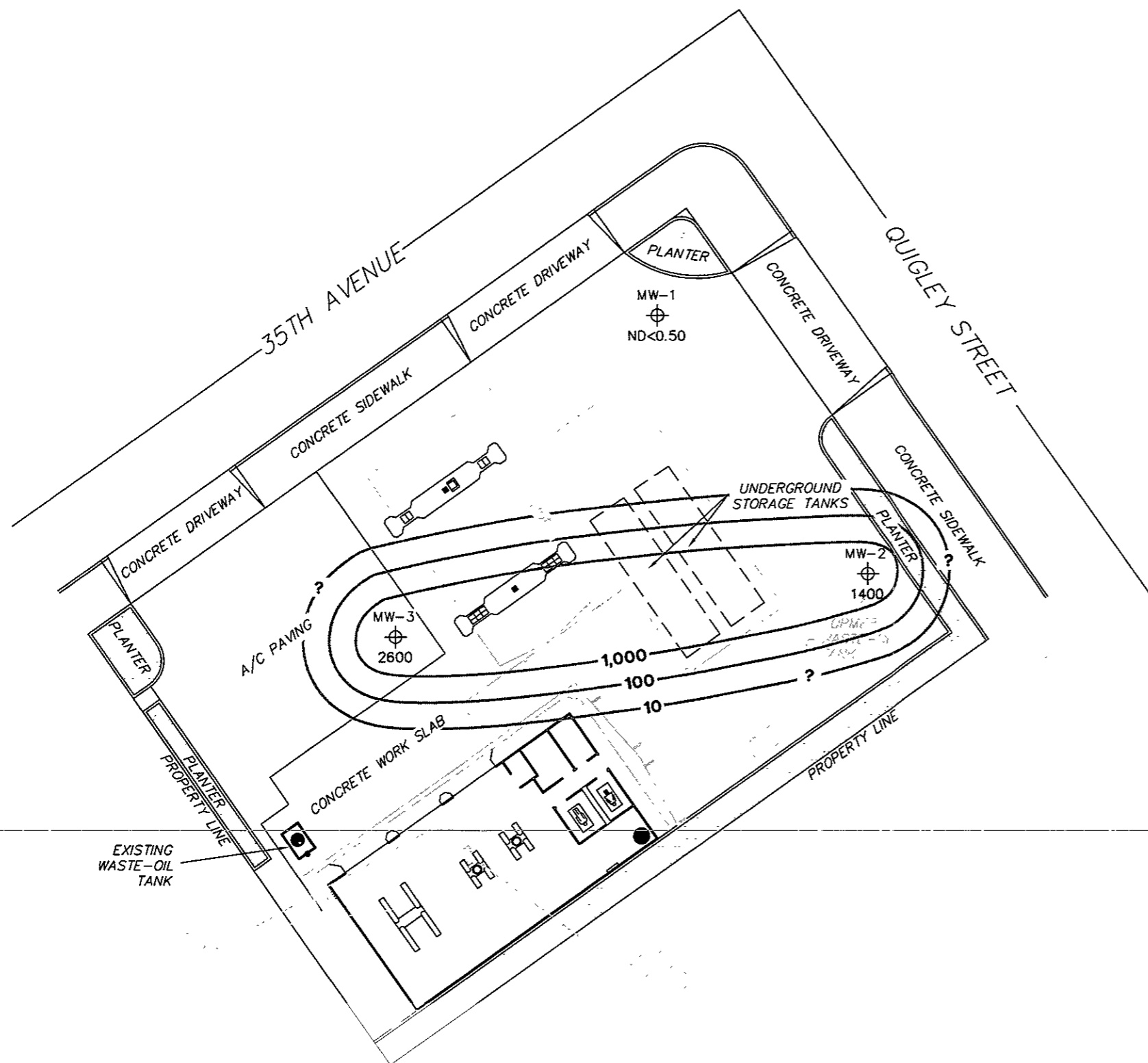


FIGURE 4

PS=1.1



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. ND = not detected at limit indicated on official laboratory report. Results obtained using EPA Method 8260B.

**DISSOLVED-PHASE MTBE
CONCENTRATION MAP
August 27, 2004**

76 Station 6129
3420 35th Street
Oakland, California

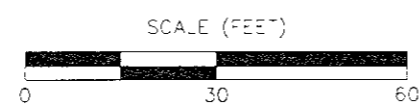
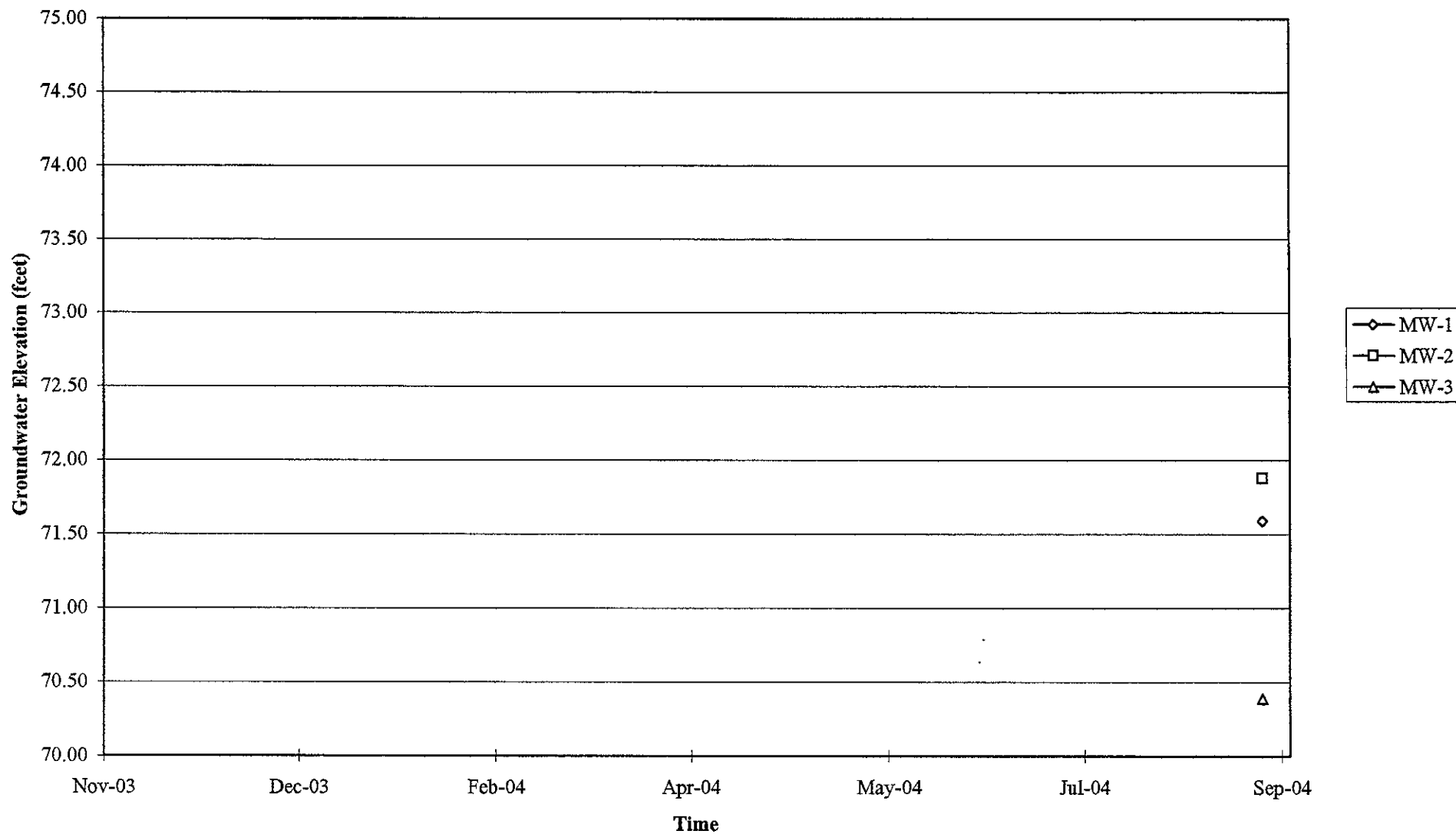


FIGURE 5

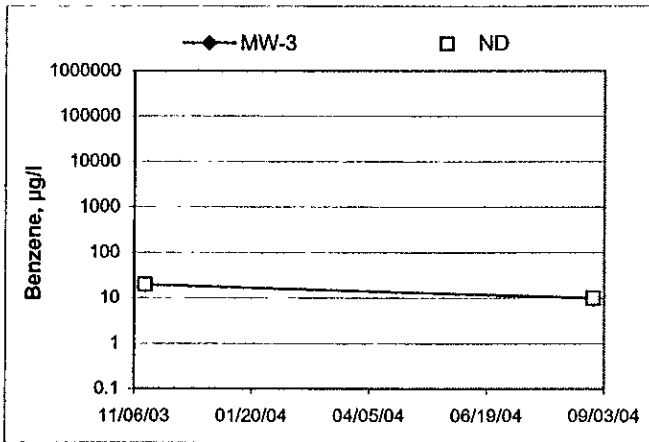
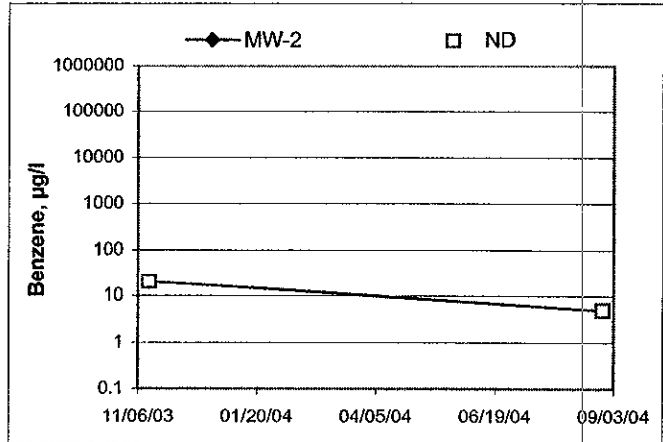
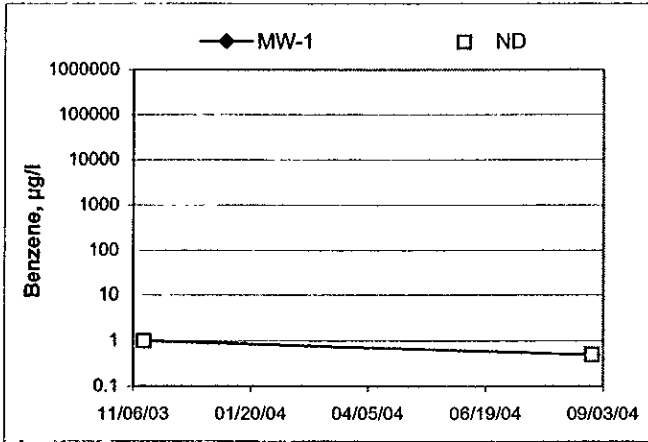
PS=1.1

GRAPHS

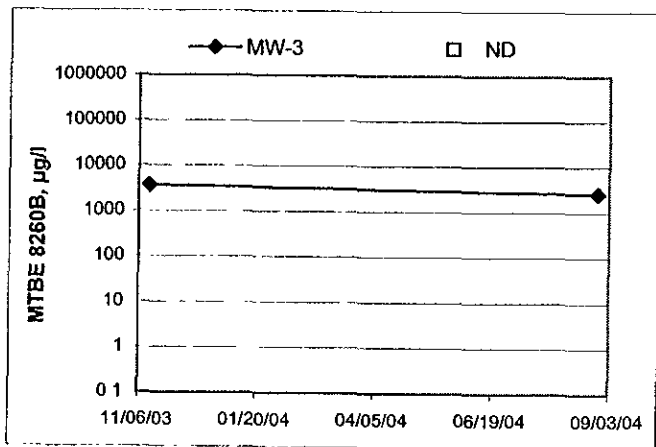
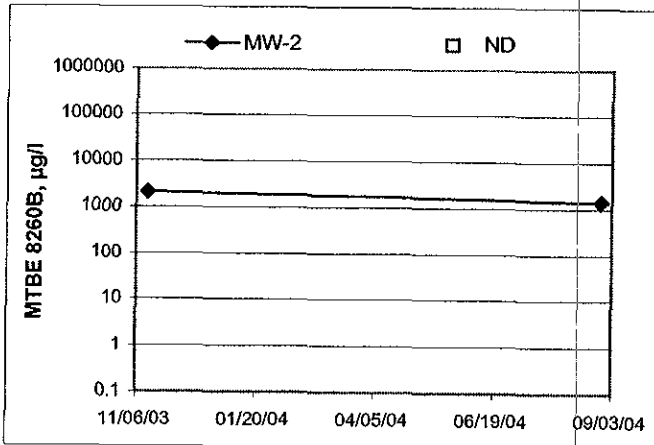
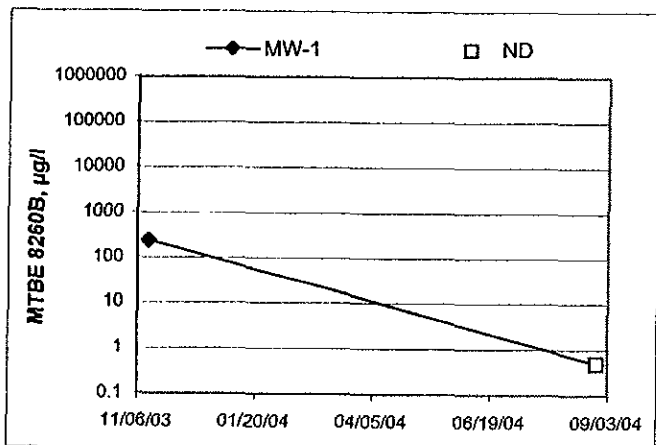
Groundwater Elevations vs. Time
76 Station 6129



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 measurement 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, and the samplers 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 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 well 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 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.

FIELD MONITORING DATA SHEET

Technician: J. KENNEDY Job #/Task #: 4150001 Date: 8/27/04
 Site # 6129 Project Manager A. COLLINS Page 1 of 1

Well #	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-2	/	0518	43.57	30.28	Ø	Ø	0623	2" 1/2 BOLTS MISSING CAP BRK
MW-4	✓	0522	43.46	30.6K	Ø	Ø	0602	2" 1/2 BOLTS BROKEN
MW-3	✓	0527	42.61	29.61	Ø	Ø	0700	NO LOCK

FIELD DATA <input checked="" type="checkbox"/> COMPLETE	QA/QC <input checked="" type="checkbox"/>	COC <input checked="" type="checkbox"/>	WELL BOX <input checked="" type="checkbox"/> CONDITION SHEETS
WTT CERTIFICATE	MANIFEST	DRUM <input checked="" type="checkbox"/> INVENTORY	TRAFFIC CONTROL



GROUNDWATER SAMPLING FIELD NOTES

Technician: J. KEANS

Site: 6129

Project No.: 405009

Date: 8/27/04

Well No.: MW-1

Purge Method: SUS

Depth to Water (feet): 30.65

Depth to Product (feet): ∅

Total Depth (feet): 43.46

LPH & Water Recovered (gallons): ∅

Water Column (feet): 12.81

Casing Diameter (Inches): 12"

80% Recharge Depth (feet): 33.21

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.
0541			2	743	20.0	6.81		
			4	598	20.5	6.77		
	0553		6	591	20.8	6.81		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
33.20			6		0602			
Comments: _____								

Well No.: MW-2

Purge Method: SUB

Depth to Water (feet): 30.28

Depth to Product (feet): ∅

Total Depth (feet): 43.57

LPH & Water Recovered (gallons): ∅

Water Column (feet): 13.29

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 32.94

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.
0608			2	589	20.0	6.79		
			4	548	20.1	6.81		
	0616		6	563	20.3	6.85		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
32.38			6		0623			
Comments: _____								

GROUNDWATER SAMPLING FIELD NOTES

Technician: J. KEARNS

Site: 6129

Project No.: 41050001

Date: 8/27/04

Well No.: MW-3

Purge Method: SUB

Depth to Water (feet): 29.61

Depth to Product (feet): 8

Total Depth (feet): 42.61

LPH & Water Recovered (gallons): 8

Water Column (feet): 13.00

Casing Diameter (Inches): 2"

80% Recharge Depth (feet): 31.91

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.
0631			2	532	19.8	6.99		
			4	538	20.2	7.01		
	0642		4	533	20.4	6.93		
Static at Time Sampled			Total Gallons Purged		Time Sampled			
31.89			6		0700			
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:								

TRC Alton Geoscience- Irvine

September 13, 2004

21 Technology Drive
Irvine, CA 92718

Attn.: Anju Farfan

Project#: 41050001/FA20

Project: Conoco Phillips #6129

Site: 3420 35th Ave., Oakland

Attached is our report for your samples received on 08/27/2004 18:30
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after
10/11/2004 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions,
please call me at (925) 484-1919.

You can also contact me via email. My email address is: dsharma@stl-inc.com

Sincerely,



Dimple Sharma
Project Manager

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine
Attn.: Anju Farfan

21 Technology Drive
Irvine, CA 92718
Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001/FA20
Conoco Phillips #6129

Received: 08/27/2004 18:30

Site: 3420 35th Ave., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-2	08/27/2004 06:23	Water	1
MW-1	08/27/2004 06:02	Water	2
MW-3	08/27/2004 07:00	Water	3

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/10/2004 17:12

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001/FA20

Conoco Phillips #6129

Received: 08/27/2004 18:30

Site: 3420 35th Ave., Oakland

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: MW-2	Lab ID: 2004-08-0761 - 1
Sampled: 08/27/2004 06:23	Extracted: 9/10/2004 12:11
Matrix: Water	QC Batch#: 2004/09/10-1C.64
Analysis Flag: o (See Legend and Note Section)	

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	950	500	ug/L	10.00	09/10/2004 12:11	dp
Benzene	ND	5.0	ug/L	10.00	09/10/2004 12:11	
Toluene	ND	5.0	ug/L	10.00	09/10/2004 12:11	
Ethylbenzene	ND	5.0	ug/L	10.00	09/10/2004 12:11	
Total xylenes	ND	10	ug/L	10.00	09/10/2004 12:11	
tert-Butyl alcohol (TBA)	ND	50	ug/L	10.00	09/10/2004 12:11	
Methyl tert-butyl ether (MTBE)	1400	5.0	ug/L	10.00	09/10/2004 12:11	
Di-isopropyl Ether (DIPE)	24	10	ug/L	10.00	09/10/2004 12:11	
Ethyl tert-butyl ether (ETBE)	ND	5.0	ug/L	10.00	09/10/2004 12:11	
tert-Amyl methyl ether (TAME)	ND	5.0	ug/L	10.00	09/10/2004 12:11	
1,2-DCA	ND	5.0	ug/L	10.00	09/10/2004 12:11	
EDB	ND	5.0	ug/L	10.00	09/10/2004 12:11	
Ethanol	ND	500	ug/L	10.00	09/10/2004 12:11	
Surrogate(s)						
1,2-Dichloroethane-d4	111.7	72-128	%	10.00	09/10/2004 12:11	
Toluene-d8	101.9	80-113	%	10.00	09/10/2004 12:11	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001/FA20

Conoco Phillips #6129

Received: 08/27/2004 18:30

Site: 3420 35th Ave., Oakland

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/09/09-2A.64-018

Water

Test(s): 8260FAB

QC Batch # 2004/09/09-2A.64

Date Extracted: 09/09/2004 19:18

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	09/09/2004 19:18	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/09/2004 19:18	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/09/2004 19:18	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	09/09/2004 19:18	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	09/09/2004 19:18	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	09/09/2004 19:18	
1,2-DCA	ND	0.5	ug/L	09/09/2004 19:18	
EDB	ND	0.5	ug/L	09/09/2004 19:18	
Benzene	ND	0.5	ug/L	09/09/2004 19:18	
Toluene	ND	0.5	ug/L	09/09/2004 19:18	
Ethylbenzene	ND	0.5	ug/L	09/09/2004 19:18	
Total xylenes	ND	1.0	ug/L	09/09/2004 19:18	
Ethanol	ND	50	ug/L	09/09/2004 19:18	
Surrogates(s)					
1,2-Dichloroethane-d4	105.4	72-128	%	09/09/2004 19:18	
Toluene-d8	102.4	80-113	%	09/09/2004 19:18	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001/FA20

Conoco Phillips #6129

Received: 08/27/2004 18:30

Site: 3420 35th Ave., Oakland

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2004/09/10-1C.64-036

Water

Test(s): 8260FAB

QC Batch # 2004/09/10-1C.64

Date Extracted: 09/10/2004 07:36

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	09/10/2004 07:36	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	09/10/2004 07:36	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/10/2004 07:36	
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L	09/10/2004 07:36	
Ethyl tert-butyl ether (ETBE)	ND	0.5	ug/L	09/10/2004 07:36	
tert-Amyl methyl ether (TAME)	ND	0.5	ug/L	09/10/2004 07:36	
1,2-DCA	ND	0.5	ug/L	09/10/2004 07:36	
EDB	ND	0.5	ug/L	09/10/2004 07:36	
Benzene	ND	0.5	ug/L	09/10/2004 07:36	
Toluene	ND	0.5	ug/L	09/10/2004 07:36	
Ethylbenzene	ND	0.5	ug/L	09/10/2004 07:36	
Total xylenes	ND	1.0	ug/L	09/10/2004 07:36	
Ethanol	ND	50	ug/L	09/10/2004 07:36	
Surrogates(s)					
1,2-Dichloroethane-d4	108.0	72-128	%	09/10/2004 07:36	
Toluene-d8	101.6	80-113	%	09/10/2004 07:36	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine
Attn.: Anju Farfan

21 Technology Drive
Irvine, CA 92718
Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001/FA20
Conoco Phillips #6129

Received: 08/27/2004 18:30

Site: 3420 35th Ave., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2004/09/09-2A.64

LCS 2004/09/09-2A.64-033

Extracted: 09/09/2004

Analyzed: 09/09/2004 18:33

LCSD 2004/09/09-2A.64-055

Extracted: 09/09/2004

Analyzed: 09/09/2004 18:55

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	21.6	23.2	25	86.4	92.8	7.1	65-165	20		
Benzene	23.0	24.3	25	92.0	97.2	5.5	69-129	20		
Toluene	25.1	25.4	25	100.4	101.6	1.2	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	509	492	500	101.8	98.4		72-128			
Toluene-d8	544	518	500	108.8	103.6		80-113			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/10/2004 17:12

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine
Attn.: Anju Farfan

21 Technology Drive
Irvine, CA 92718
Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001/FA20
Conoco Phillips #6129

Received: 08/27/2004 18:30

Site: 3420 35th Ave., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2004/09/10-1C.64

LCS 2004/09/10-1C.64-051

Extracted: 09/10/2004

Analyzed: 09/10/2004 06:51

LCSD 2004/09/10-1C.64-014

Extracted: 09/10/2004

Analyzed: 09/10/2004 07:14

Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	23.3	22.9	25	93.2	91.6	1.7	65-165	20		
Benzene	26.1	24.9	25	104.4	99.6	4.7	69-129	20		
Toluene	26.3	25.6	25	105.2	102.4	2.7	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	489	497	500	97.8	99.4		72-128			
Toluene-d8	521	535	500	104.2	107.0		80-113			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

09/10/2004 17:12

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience- Irvine

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

Phone: (949) 341-7440 Fax: (949) 753-0111

Project: 41050001/FA20

Conoco Phillips #6129

Received: 08/27/2004 18:30

Site: 3420 35th Ave., Oakland

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

dp

Sample contains discrete peak in gasoline range.

STL-San Francisco

1220 Quarry Lane

Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Chain Of Custody Record

90464

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS:

CONOCOPHILLIPS
Attn: Dee Huichinson
3611 South Harbor, Suite 200
San Jose, CA, 92704

ConocoPhillips Work Order Number

ConocoPhillips Cost Object

DATE: 8/27/04

PAGE: 1 of 1

2004-08-0701

SAMPLING COMPANY: TRC		YARD VALUE ID:	CONOCOPHILLIPS SITE NUMBER: 6129		GLOBAL ID NO.: T0600101465
ADDRESS: 21 Technology Drive, Irvine CA 92618			SITE ADDRESS (Street and City): 3420 35 th AVE. OAKLAND		CONOCOPHILLIPS SITE MANAGER: THOMAS ROSEZ
PROJECT CONTACT (Handcopy or PDF Report ID): Anju Farfan			ECF DELIVERABLE TO (RP or Designer): Peter Thomson, TRC pthomson@trcsolutions.com		PHONE NO.: 949-341-7408
TELEPHONE: 949-341-7440	FAX: 949-753-0111	EMAIL: afarfan@trcsolutions.com	LAB USE ONLY		
SAMPLER NAME(S) (Print): J. FARFAN		CONSULTANT PROJECT NUMBER: 41050001FA20			

REQUESTED ANALYSES

TURNAROUND TIME (CALENDAR DAYS):
 14 DAYS 7 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: _____
 CHECK BOX IF ECD IS NEEDED

- 8015m - TPHd Extractable
- 8260B - TPHg/BTEX/MBE
- 8260B - TPHg / BTEX / 8 Oxygenates
- 8260B - TPHg / BTEX / 8 Oxygenates + methanol (8015M)
- 8260B - Full Scan VOCs (does not include oxygenates)
- 8270C - Semi-Volatiles
- 8015M / 8021B - TPHg/BTEX/MBE
- Lead DTOTAL/DTSLC DTCLP
- TPPA by 8260B
- BTEX (8046 by 8260B)

FIELD NOTES:
 Container/Preservative
 or PID Readings
 or Laboratory Notes

TEMPERATURE ON RECEIPT: 60

* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONT.	8015m - TPHd Extractable	8260B - TPHg/BTEX/MBE	8260B - TPHg / BTEX / 8 Oxygenates	8260B - TPHg / BTEX / 8 Oxygenates + methanol (8015M)	8260B - Full Scan VOCs (does not include oxygenates)	8270C - Semi-Volatiles	8015M / 8021B - TPHg/BTEX/MBE	Lead DTOTAL/DTSLC DTCLP	TPPA by 8260B	BTEX (8046 by 8260B)
		DATE	TIME												
	MW-2	8/27	0625	b.w.	3									X	X
	MW-1	↓	0602	↓	↓									↓	↓
	MW-3	↓	0700	↓	↓									↓	↓

Prepared by (Signature): <i>[Signature]</i>	Received by (Signature): FERRIGERATI	DATE: 8/27/04	TIME: 0930
Prepared by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	DATE: 8/27/04	TIME: 1005
Prepared by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	DATE: 8/27/04	TIME: 1830

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 suspected of containing potentially hazardous material, such as liquid-phase hydrocarbons, was accumulated separately in a drum 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.