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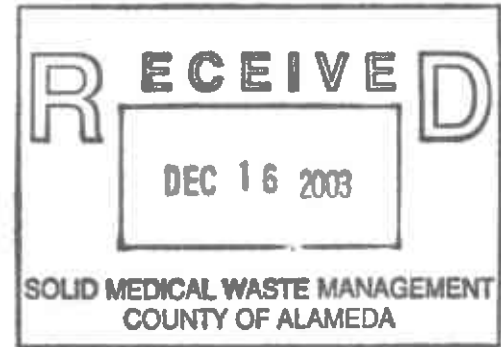
www.secor.com

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Rancho Cordova, CA 95670
916-861-0400 TEL
916-861-0430 FAX

RO-2444

December 19, 2003

Ms. Eya ~~Chu~~ GH
Alameda County Environmental Health Services Department
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502



RE: **Quarterly Summary Report-Third Quarter 2003**
SECOR Project No.: 77CP.60008.00.7124

Dear Ms. Chu:

On behalf of ConocoPhillips, SECOR International Incorporated (SECOR) is forwarding the quarterly summary report for the following location:

Service Station

76 Service Station No. 7124

Location

10151 East 14th Street
Oakland, California

Sincerely,
SECOR International Incorporated

M. Gavan Heinrich
Associate Geologist

GH

cc: Mr. David DeWitt, ConocoPhillips

QUARTERLY SUMMARY REPORT Third Quarter 2003

76 Service Station No. 7124
10151 East 14th Street
Oakland, California

City/County ID #: Oakland

County: Alameda

BACKGROUND

The Site is currently an active 76 Service Station located on the northwestern corner of the intersection of 14th Street and 102nd Avenue in Oakland, California. Site facilities include three underground storage tanks (USTs), and associated piping and fuel dispensers.

On March 22, 2000, SECOR supervised the removal and replacement of product lines and dispensers by Balch Petroleum (Balch) of Milpitas, California. Soil samples collected from beneath the dispensers and product lines revealed the presence of total petroleum hydrocarbons as gasoline (TPHg) at a maximum concentration of 6,200 milligrams per kilogram (mg/kg), MtBE at a maximum concentration of 120 mg/kg, and benzene at a maximum concentration of 7.4 mg/kg. Excavation and sampling activities were observed and approved by Inspector Gomez of the City of Oakland Fire Services Agency (COFSA).

On March 27, 2000, SECOR observed the over-excavation of approximately 60 cubic yards of soil from the beneath those portions of the dispensers and product lines where soil samples with elevated concentrations of petroleum hydrocarbons were located. Areas measuring approximately 8-10 feet long by 8-10 feet wide were over-excavated to an approximate depth of 8 feet below ground surface (bgs) in each of these areas. Additional over-excavation in these areas was not possible due to their proximity to the footings of the service station canopy. TPHg was detected in 2 of the 3 samples at a maximum concentration of 108 mg/kg; benzene was detected in 1 of the 3 samples at a maximum concentration of 0.162 mg/kg; and MtBE was detected in all 3 samples at a maximum concentration of 43.8 mg/kg. Lead was not detected at or above laboratory reporting limits in any samples.

During February, 2002, SECOR supervised the installation of four on-Site groundwater monitor wells. Prior to well installation, all borings were advanced to 26.5 feet bgs, and subsurface soil samples were collected every five feet. Soil samples were analyzed for gasoline range organics (GRO), BTEX, and fuel oxygenates via Method 8260B. The maximum reported concentrations were 42 mg/kg GRO, 0.36 mg/kg ethylbenzene, 0.26 mg/kg xylenes, and 1.2 mg/kg MtBE.

THIS QUARTER ACTIVITIES (Third Quarter 2003)

1. Gettler-Ryan performed groundwater monitoring and sampling event.

NEXT QUARTER ACTIVITIES (Fourth Quarter 2003)

1. Perform groundwater monitoring and sampling event.

CHARACTERIZATION/REMEDIAL STATUS

Soil contamination delineated?	<u>No</u>
Dissolved groundwater delineated	<u>No</u>
Free product delineated?	<u>N/A</u>
Soil/groundwater remediation in progress? Start?	<u>No</u>
Anticipated completion date?	<u>N/A</u>

CONSULTANT: SECOR International Incorporated

TRC
Customer-Focused Solutions

20-244

December 15, 2003

Alameda County

JAN 07 2004

ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

Environmental Health

ATTN: MR. DAVID B. DeWITT

SITE: 76 STATION 7124
10151 EAST 14TH STREET
OAKLAND, CALIFORNIA

RE: QUARTERLY MONITORING REPORT
OCTOBER THROUGH DECEMBER 2003

Dear Mr. DeWitt:

Please find enclosed our Quarterly Monitoring Report for 76 Station 7124, located at 10151 East 14th Street, Oakland, California. If you have any questions regarding this report, please call us at (949) 753-0101.

Sincerely,

TRC



Anju Farfan
QMS Operations Manager

AG

CC: Ms. Eva Chu, Alameda County Health Care Services
Mr. Gavan Heinrich, SECOR International Inc.

Enclosures
200400/7124R01.QMS.doc





**FOURTH QUARTER 2003
FLUID LEVEL MONITORING AND
GROUNDWATER SAMPLING REPORT**
December 15, 2003

76 STATION 7124
10151 East 14th Street
Oakland, California

Prepared For:

Mr. David B. DeWitt
CONOCOPHILLIPS COMPANY
76 Broadway
Sacramento, California 95818

By:

A handwritten signature in cursive script that reads 'Dennis E. Jensen'. To the right of the signature is a circular professional seal. The seal contains the text: 'CERTIFIED ENGINEERING GEOLOGIST' around the top inner edge, 'DENNIS E. JENSEN' in the center, 'No. EG 1034' below the name, 'Exp. 4/05' with a handwritten checkmark below the number, and 'STATE OF CALIFORNIA' around the bottom inner edge.

Senior Project Geologist, Irvine Operations

GROUNDWATER MONITORING REPORT

LIST OF ATTACHMENTS	
Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Table 1: Summary of Groundwater Levels and Chemical Analysis Results Table 2: Historic Groundwater Levels and Chemical Analysis Results Table 3: Summary of Additional Chemical Analysis Results
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase Hydrocarbon Concentration Map
Graphs	Benzene Concentrations vs. Time Hydrograph
Field Activities	General Field Procedures Groundwater Sampling Field Notes
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Disposal Documents	Statement of Authorized Transportation and Disposal
Statement	Limitations

Summary of Gauging and Sampling Activities
October 2003 through December 2003
76 Station 7124
10151 East 14th Street
Oakland, CA

Site Information:

Site:	76 Station 10151 East 14th Street Oakland, CA
Project Coordinator/Phone Number:	David DeWitt/916-558-7666
Groundwater wells onsite:	4
Groundwater wells offsite:	0

Field Activity:

Sampling consultant:	TRC
Date(s) sampled:	10/2/2003
Groundwater wells gauged:	4
Groundwater wells sampled:	4
Purging method:	submersible pump
Treatment/disposal method during sampling event:	Onyx/Rodeo Unit 100
Free product pumpouts other than sampling event:	No
Treatment/Disposal method during free product pumpouts:	N/A

Site Hydrogeology:

Minimum depth to groundwater (feet bgs):	16.68
Maximum depth to groundwater (feet bgs):	18.58
Average groundwater elevation (feet relative to mean sea level):	20.07
Average change in groundwater elevations since previous event (feet):	-1.03
Groundwater gradient and flow direction:	0.005 ft/ft, northwest
Previous gradient and/or flow direction (and date):	(7/1/2003)

Groundwater Condition (Benzene Maximum Contaminant Level [MCL] = 1.0 µg/l)

Wells with benzene concentrations below MCL:	4
Wells with benzene concentrations at or above MCL:	0
Minimum benzene concentration (µg/l):	ND
Maximum benzene concentration (µg/l):	ND
Minimum MTBE concentration (µg/l):	ND
Maximum MTBE concentration (µg/l):	460 (MW-3)
Minimum TPPH concentration (µg/l):	ND
Maximum TPPH concentration (µg/l):	73000 (MW-3)
Groundwater wells with free product:	0
Minimum free product thickness (feet):	0
Maximum free product thickness (feet):	0

Additional Information:

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

ABBREVIATIONS / SYMBOLS

LPH	=	liquid-phase hydrocarbons
µg/l	=	micrograms per liter
mg/l	=	milligrams per liter
ND	=	not detected at or above laboratory detection limit
DTSC	=	Department of Toxic Substances Control
N/A	=	not applicable
Trace	=	less than 0.01 foot of LPH in well
USTs	=	underground storage tanks
--	=	not analyzed, measured, or collected
TPH-G	=	total petroleum hydrocarbons with gasoline distinction
BTEX	=	benzene, toluene, ethylbenzene, and total xylenes
TPH-D	=	total petroleum hydrocarbons with diesel distinction
TRPH	=	total recoverable petroleum hydrocarbons
MTBE	=	methyl tertiary butyl ether
TAME	=	tertiary amyl methyl ether
ETBE	=	ethyl tertiary butyl ether
DIPE	=	di-isopropyl ether
TBA	=	tertiary butyl alcohol
1,1-DCA	=	1,1-Dichloroethane
1,2-DCA	=	1,2-Dichloroethane
1,1-DCE	=	1,1-Dichloroethene
1,2-DCE	=	cis- and trans-1,2-Dichloroethene
PCE	=	tetrachloroethene
TCA	=	trichloroethane
TCE	=	trichloroethene
PCB	=	polychlorinated biphenyls
TPPH	=	total purgeable petroleum hydrocarbons

NOTES

Elevations are in feet above mean sea level.

Groundwater elevation for wells with LPH is calculated as follows:

$$\text{Surface elevation} - \text{depth to water} + (0.75 \times \text{LPH thickness}).$$

Concentration Graphs have been modified to plot non-detect results at the reporting limit stated in the official laboratory report. All non-detect results prior to the Second Quarter 2000 were plotted at 0.1 µg/l for graphical display.

J = estimated concentration, value is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL)

REFERENCE

TRC began groundwater monitoring and sampling activities in October 2003. Historical data 76 Station 7124 was provided by Gettler-Ryan Inc., Dublin, California, in an excel table received in September 2003.

Table 1
SUMMARY OF GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS
October 2, 2003
76 Station 7124

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (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														
10/2/03	37.37	16.68	0.00	20.69	-1.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
MW-2														
10/2/03	37.87	17.93	0.00	19.94	-0.99	--	6900	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	32	
MW-3														
10/2/03	37.72	17.85	0.00	19.87	-0.97	--	73000	ND<50	ND<50	ND<50	ND<100	--	460	
MW-4														
10/2/03	38.36	18.58	0.00	19.78	-0.97	--	7100	ND<10	ND<10	ND<10	ND<20	--	70	

Table 2
HISTORIC GROUNDWATER LEVELS AND CHEMICAL ANALYSIS RESULTS

October 2, 2003

76 Station 7124

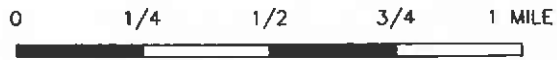
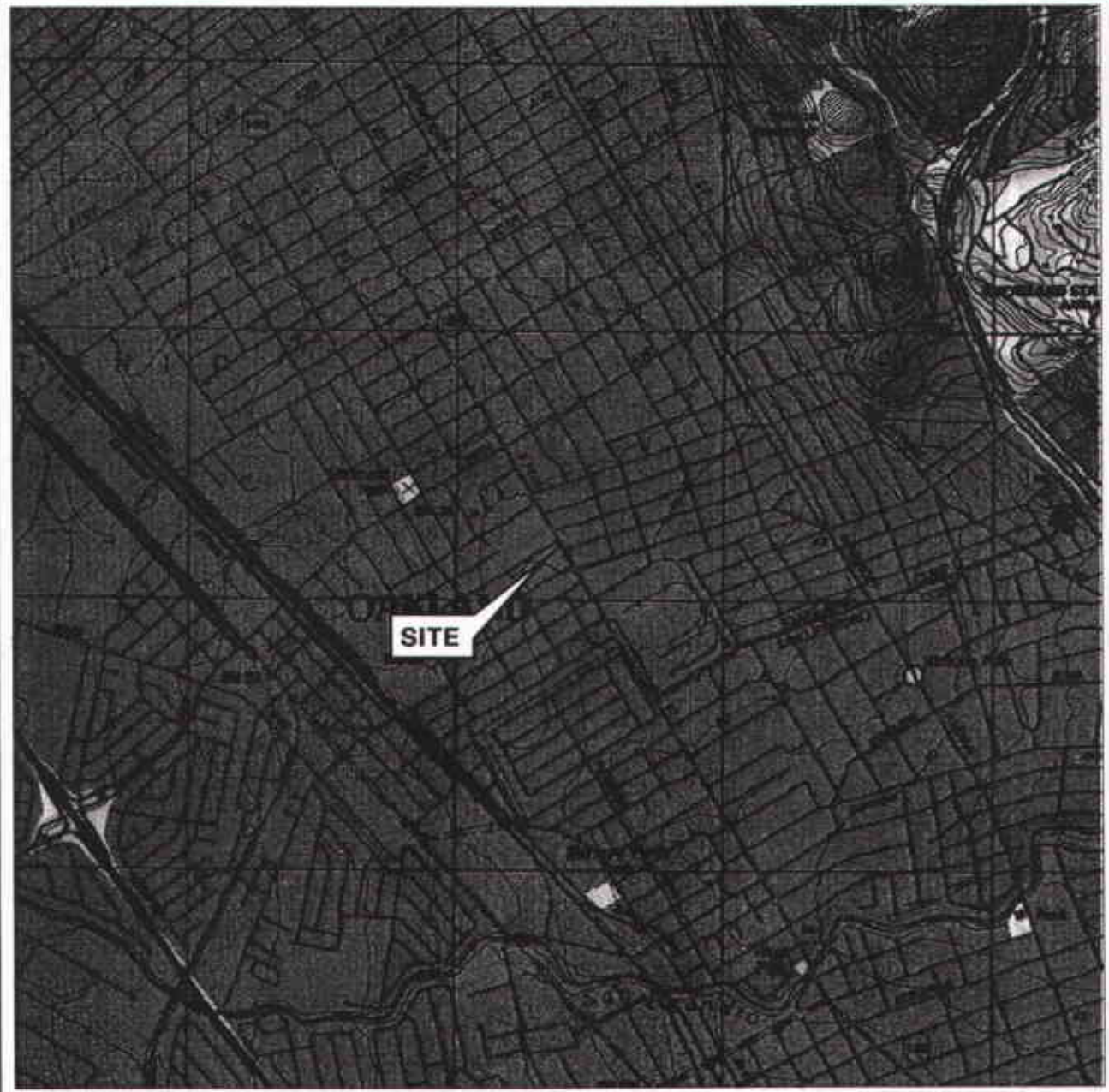
Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE 8021B (µg/l)	MTBE 8260B (µg/l)	Comments
MW-1														
7/28/02	37.37	15.88	0.00	21.49	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
11/3/02	37.37	16.75	0.00	20.62	-0.87	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
1/24/03	37.37	13.94	0.00	23.43	2.81	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
4/2/03	37.37	14.99	0.00	22.38	-1.05	460	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
7/1/03	37.37	15.48	0.00	21.89	-0.49	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
10/2/03	37.37	16.68	0.00	20.69	-1.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<2.0	
MW-2														
4/8/02	37.87	15.86	0.00	22.01	--	4,400	--	ND<2.5	ND<2.5	6.4	ND<2.5	380	490	
7/28/02	37.87	17.28	0.00	20.59	-1.42	3,200	--	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	170	
11/3/02	37.87	18.03	0.00	19.84	-0.75	3,800	--	ND<5.0	ND<5.0	ND<5.0	ND<10	--	72	
1/24/03	37.87	15.59	0.00	22.28	2.44	410	--	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	490	
4/2/03	37.87	16.50	0.00	21.37	-0.91	1,000	--	ND<5.0	ND<5.0	ND<5.0	ND<10	--	180	
7/1/03	37.87	16.94	0.00	20.93	-0.44	1,900	--	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	120	
10/2/03	37.87	17.93	0.00	19.94	-0.99	--	6900	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	32	
MW-3														
4/8/02	37.72	15.86	0.00	21.86	--	8,700	--	65	ND<25	400	ND<25	6,500	8,300	
7/28/02	37.72	17.22	0.00	20.50	-1.36	4,500	--	ND<25	ND<25	ND<25	ND<50	--	1,100	
11/3/02	37.72	17.90	0.00	19.82	-0.68	25,000	--	ND<5.0	ND<5.0	25	ND<10	--	470	
1/24/03	37.72	15.57	0.00	22.15	2.33	6,000	--	ND<25	ND<25	94	ND<50	--	10,000	
4/2/03	37.72	16.45	0.00	21.27	-0.88	130,000	--	ND<100	ND<100	ND<100	ND<200	--	4,400	
7/1/03	37.72	16.88	0.00	20.84	-0.43	9,400	--	ND<10	ND<10	ND<10	ND<20	--	2,200	
10/2/03	37.72	17.85	0.00	19.87	-0.97	--	73000	ND<50	ND<50	ND<50	ND<100	--	460	
MW-4														
4/8/02	38.36	16.59	0.00	21.77	--	13,000	--	ND<5.0	ND<5.0	28	ND<5.0	790	980	
7/28/02	38.36	17.93	0.00	20.43	-1.34	18,000	--	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	170	

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground- water Elevation (feet)	Change in Elevation (feet)	TPH-G (µg/l)	TPPH 8260B (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-4 continued														
11/3/02	38.36	18.66	0.00	19.70	-0.73	220	--	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.7	
1/24/03	38.36	16.27	0.00	22.09	2.39	ND<1,000	--	ND<10	ND<10	ND<10	ND<20	--	1,000	
4/2/03	38.36	17.19	0.00	21.17	-0.92	130,000	--	ND<100	ND<100	ND<100	ND<200	--	ND<400	
7/1/03	38.36	17.61	0.00	20.75	-0.42	15,000	--	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	170	
10/2/03	38.36	18.58	0.00	19.78	-0.97	--	7100	ND<10	ND<10	ND<10	ND<20	--	70	
Trip Blank														
4/8/02	--	--	--	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	--	
7/28/02	--	--	--	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<2.0	
11/3/02	--	--	--	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<2.0	
1/24/03	--	--	--	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<2.0	
4/2/03	--	--	--	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<2.0	
7/1/03	--	--	--	--	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<2.0	

Table 3
SUMMARY OF ADDITIONAL CHEMICAL ANALYSIS RESULTS
76 Station 7124

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 8015B (mg/l)	Ethanol 8260B (µg/l)	1,2 DCE (µg/l)
MW-1									
7/28/02	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--	ND<2.0
11/3/02	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--	ND<2.0
1/24/03	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--	ND<2.0
4/2/03	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--	ND<2.0
7/1/03	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--	ND<2.0
10/2/03	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	--	ND<500	--
MW-2									
4/8/02	--	ND<40	ND<40	ND<2,000	ND<40	ND<40	ND<10,000	--	ND<40
7/28/02	--	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2,500	--	ND<10
11/3/02	--	ND<20	ND<20	ND<1,000	ND<20	ND<20	ND<5,000	--	ND<20
1/24/03	--	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2,500	--	ND<10
4/2/03	--	ND<20	ND<20	ND<1,000	ND<20	ND<20	ND<5,000	--	ND<20
7/1/03	--	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2,500	--	ND<10
10/2/03	ND<2.0	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	--	ND<500	--
MW-3									
10/2/03	ND<200	ND<200	ND<200	ND<10000	ND<200	ND<200	--	ND<50000	--
MW-4									
4/8/02	--	ND<100	ND<100	ND<5,000	ND<100	ND<100	ND<25,000	--	ND<100
7/28/02	--	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2,500	--	ND<10
11/3/02	--	ND<2.0	ND<2.0	ND<100	ND<2.0	ND<2.0	ND<500	--	ND<2.0
1/24/03	--	ND<40	ND<40	ND<2,000	ND<40	ND<40	ND<10,000	--	ND<40
4/2/03	--	ND<400	ND<400	ND<20,000	ND<400	ND<400	ND<100,000	--	ND<400
7/1/03	--	ND<10	ND<10	ND<500	ND<10	ND<10	ND<2,500	--	ND<10
10/2/03	ND<40	ND<40	ND<40	ND<2000	ND<40	ND<40	--	ND<10000	--

FIGURES



SCALE 1:24,000



VICINITY MAP

79 Station #7124
10151 East 14th Street
Oakland, California

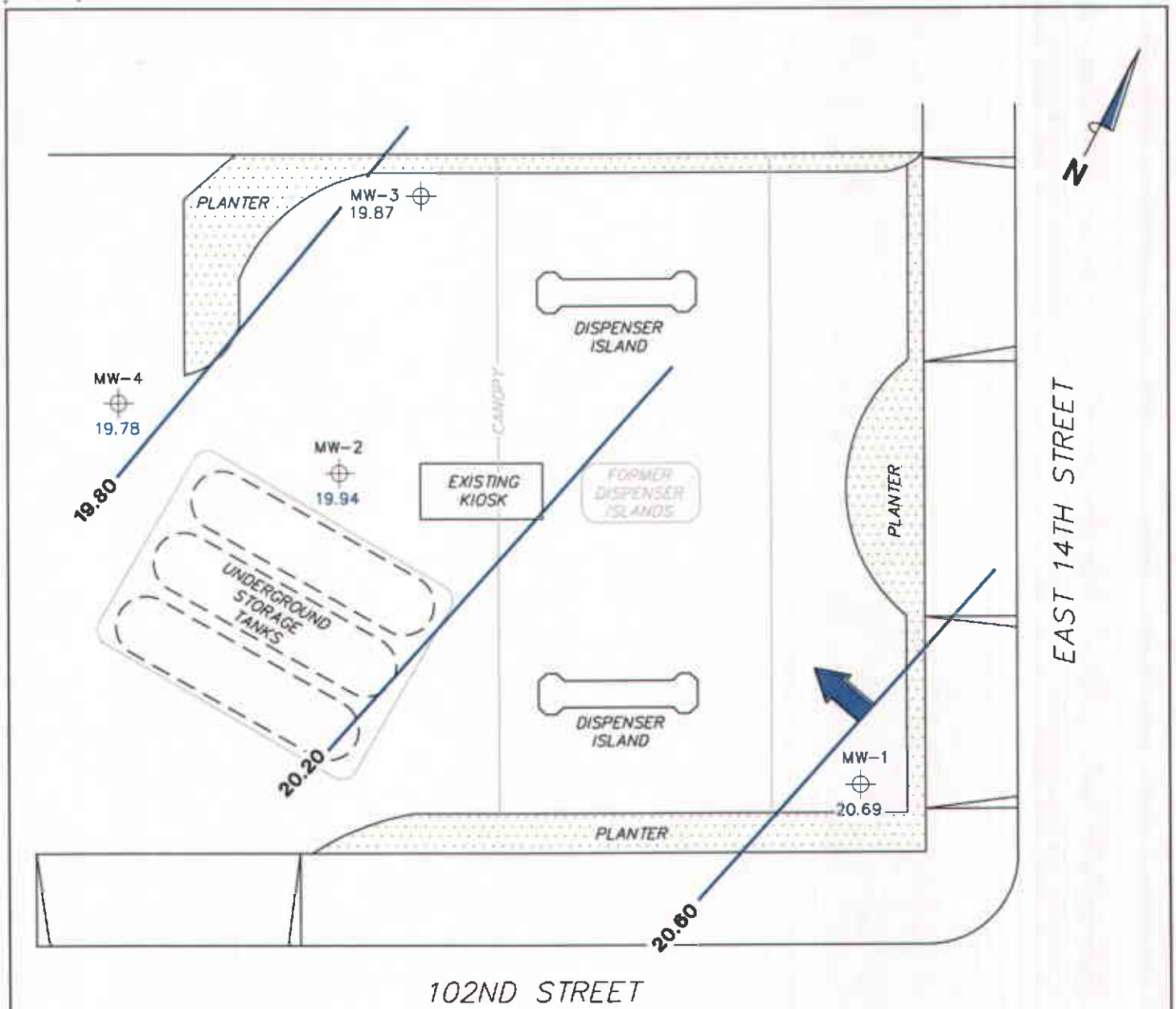
SOURCE:

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




TRC

FIGURE 1

P.S. = 1:1



LEGEND

- MW-4  Monitoring Well with Groundwater Elevation (feet)
- 20.60  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
 October 2, 2003**

76 Station 7124
 10151 East 14th Street
 Oakland, California

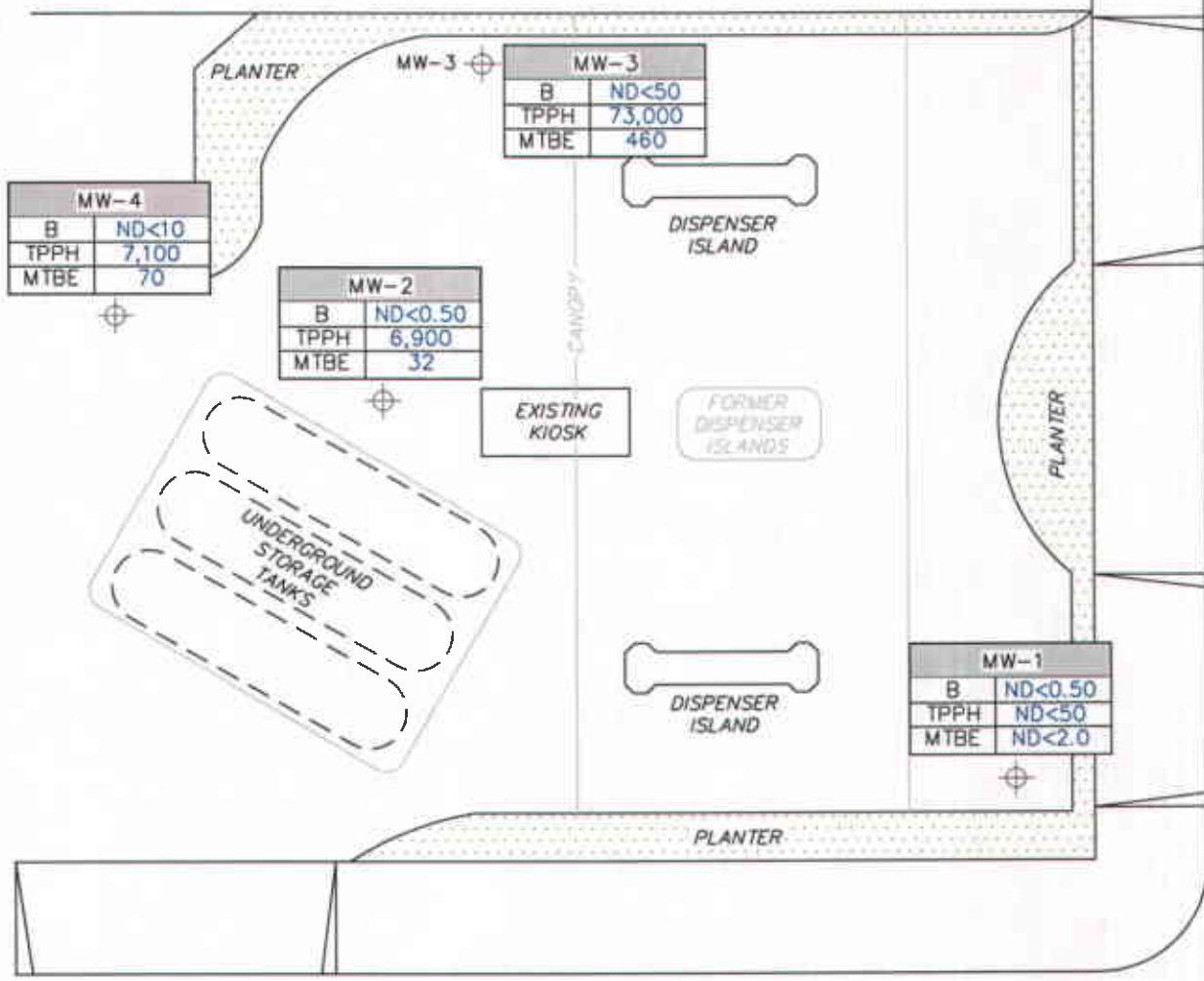


FIGURE 2

PS=1:1



EAST 14TH STREET



102ND STREET

NOTES:

B = benzene. TPPH = total purgeable petroleum hydrocarbons. MTBE = methyl tertiary butyl ether. $\mu\text{g/l}$ = micrograms per liter. ND = not detected at limit indicated on official laboratory report. Results obtained using EPA Method 8260B.

LEGEND

Well No.	
B	$\mu\text{g/l}$
TPPH	$\mu\text{g/l}$
MTBE	$\mu\text{g/l}$

⊕ Monitoring Well with Dissolved-Phase Hydrocarbon Concentrations ($\mu\text{g/l}$)

**DISSOLVED-PHASE HYDROCARBON CONCENTRATIONS MAP
October 2, 2003**

76 Station 7124
10151 East 14th Street
Oakland, California

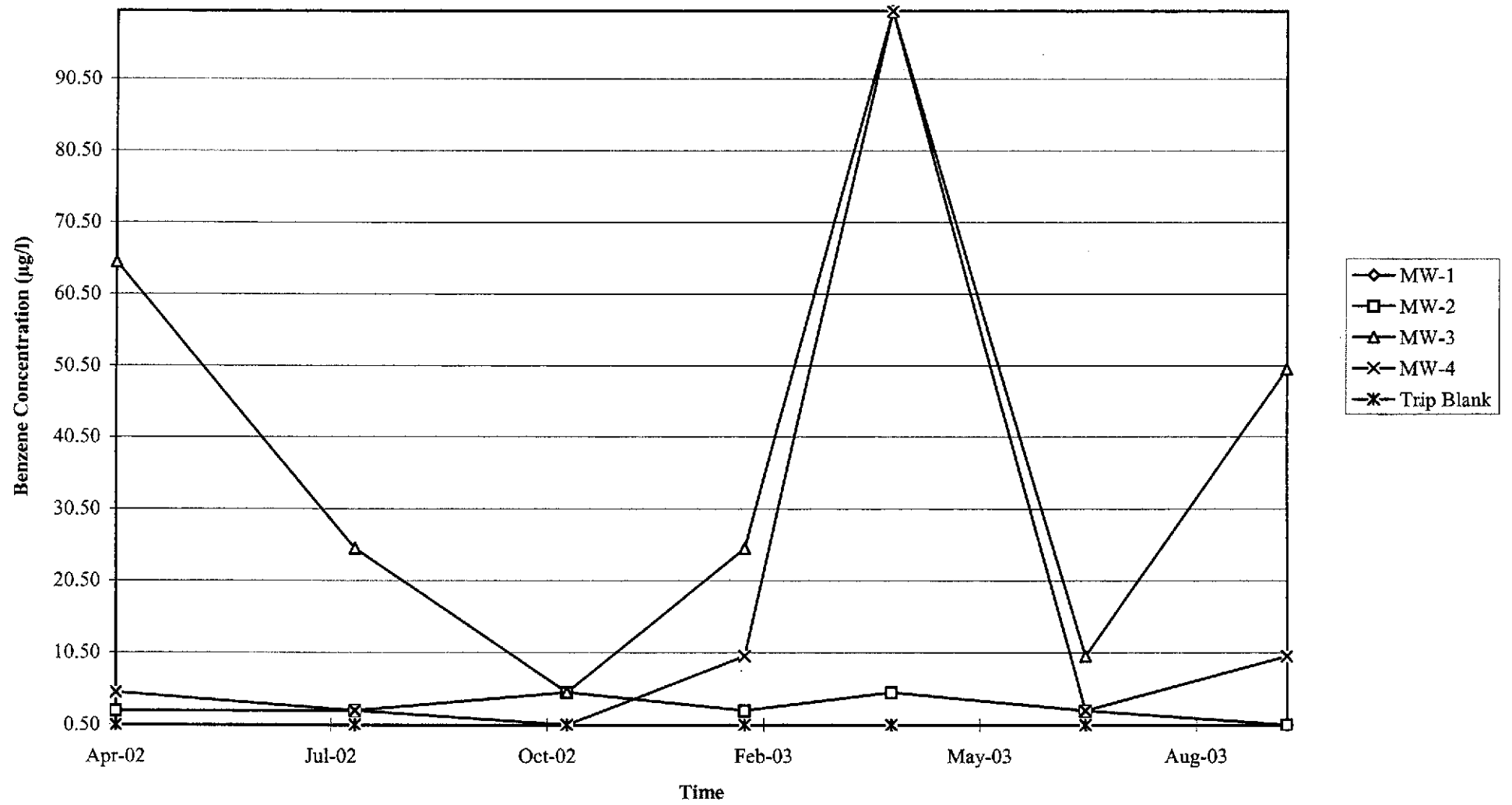


FIGURE 3

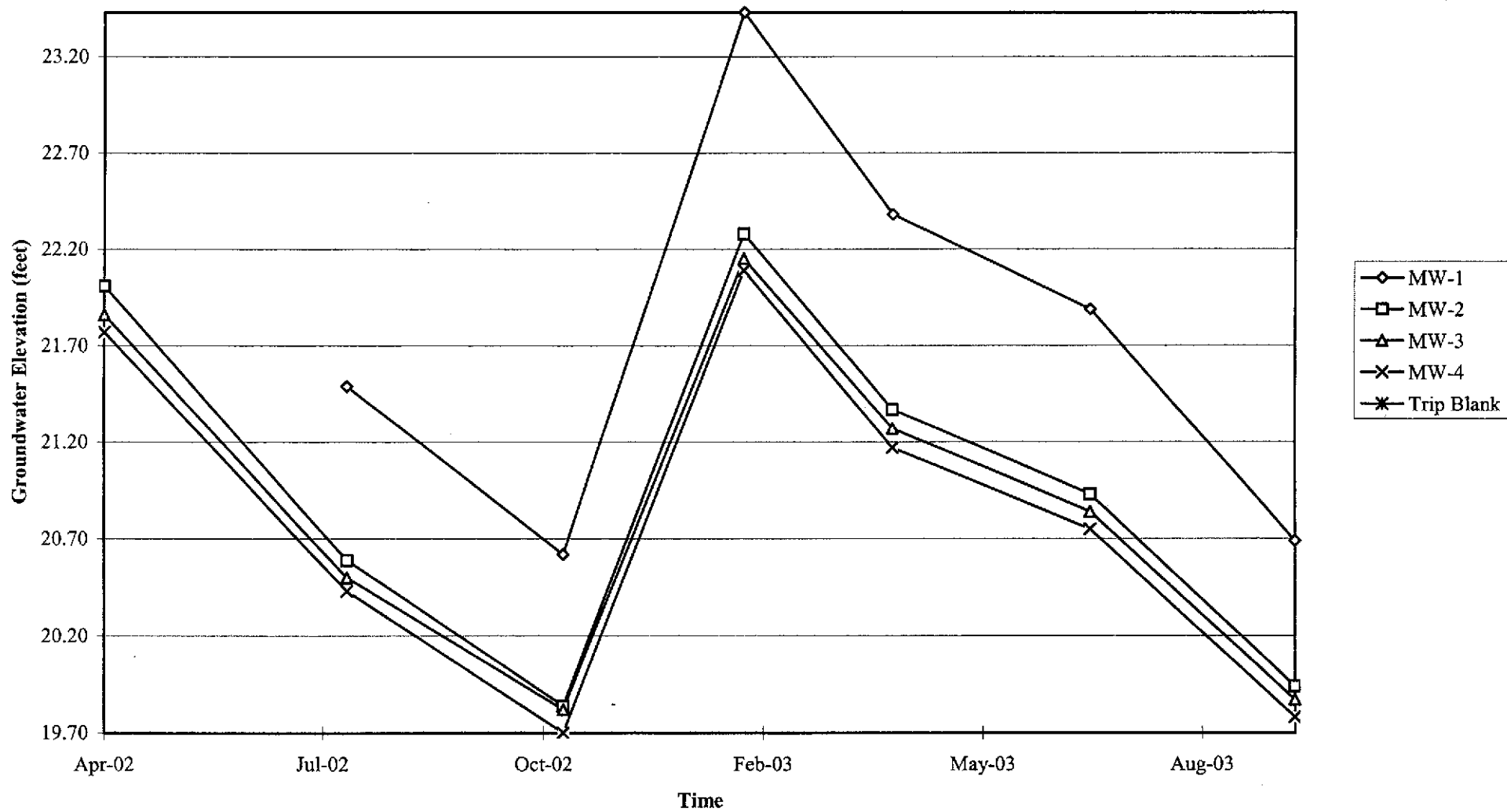
PS=1:1

GRAPHS

Graph 1
Benzene Concentrations vs. Time
76 Station 7124



Graph 2
Hydrograph
76 Station 7124



GENERAL FIELD PROCEDURES

General field procedures used during fluid level monitoring and groundwater sampling activities are described below.

FLUID LEVEL MONITORING

Fluid levels are monitored in the wells using an electronic interface probe with conductance sensors. The depth to liquid-phase hydrocarbons (LPH) and water is measured relative to the well box top or top of casing. Well box or casing elevations are surveyed to within 0.02 foot relative to a county or city benchmark.

GROUNDWATER SAMPLING

Groundwater monitoring wells are purged and sampled in accordance with standard regulatory protocol. Typically, monitoring wells that contain no LPH are purged of groundwater prior to sampling so that fluids collected are representative of fluids within the formation. Temperature, pH, and specific conductance are typically measured after each well casing volume has been removed. Purging is considered complete when the specified number of casing volumes of fluid have been removed and the three (3) parameters (pH, conductivity, and temperature) have stabilized (see groundwater sampling field notes for volume removed). Samples for laboratory analysis are collected without further purging if the well does not recharge within 2 hours to 80% of its volume before purging.

The purge water is either (1) pumped directly into a licensed vacuum truck; or (2) treated and disposed onsite using the TRC Alton Geoscience Mobile Groundwater Treatment Trailer; or (3) temporarily stored in labeled drums prior to transport to a treatment/recycling facility. If an automatic recovery system (ARS) is operating at the site, purged water may be pumped into the ARS for treatment.

In monitoring wells that are purged and contain measurable LPH, the purged water and LPH removed from wells will be either pumped directly into a licensed vacuum truck and removed from the site, or temporarily stored in labeled drums pending transport to an approved treatment/recycling facility.

With respect to wells that have been designated as "no purge", the wells will be sampled without bailing or pumping fluids from the well prior to collecting the sample. In addition, no purge samples are typically collected from active pumping wells.

GROUNDWATER SAMPLE COLLECTION

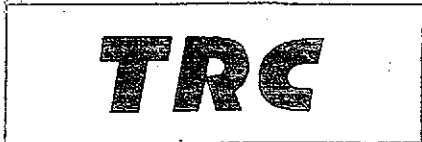
Groundwater samples are collected by lowering a ½ to 4-inch-diameter, bottom-fill, disposable polyethylene bailer to just below the static water level in the well. The samples are carefully transferred from the check-valve-equipped bailer to the container specified by the laboratory method. The sample containers are filled to zero headspace and fitted with Teflon-sealed caps. Each sample is labeled with the project number, well number, sample date, and sampler's initials, then transported to a state-certified laboratory for analysis. Samples remain chilled prior to and during shipment to an analytical laboratory.

Chain of custody protocol is followed for all groundwater samples selected for laboratory analysis. The chain of custody form(s) accompanies the samples from the sampling locality to the laboratory, providing a continuous record of possession prior to analysis. When a freight or overnight carrier ships samples, the carrier is noted on the chain of custody form.

DECONTAMINATION

Nitrile gloves are worn at all times during monitoring, sampling, and purging activities. Typically, gloves are changed between each well. All monitoring, sampling, and purging equipment that could contact well fluids is either dedicated to a particular well or cleaned prior to each use in a Liqui-nox solution followed by two rinses: the first rinse in tap water and the final rinse in deionized water.

FIELD MONITORING DATA SHEET



Technician: David Tenney Job #/Task #: 410500-01 FAP0 Date: 10-2-03

Site # 7124 Project Manager Anju Farfan Page 1 of 1

Well #	Grade	TOC	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
MW-1		X	24.76	16.68	X	X	1415	4"
MW-2		X	25.08	17.93	X	X	1452	4"
MW-3		X	25.10	17.85	X	X	1522	4"
MW-4		X	24.93	18.58	X	X	1612	4"

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

GROUNDWATER SAMPLING FIELD NOTES

Technician: David Tenney

Site: 7124

Project No.: 410500-01 FA20

Date: 10-2-03

Well No. MW-3

Purge Method: Sub

Depth to Water (feet): ~~17.85~~ 17.85

Depth to Product (feet): /

Total Depth (feet): ~~25.10~~ 25.10

LPH & Water Recovered (gallons): /

Water Column (feet): 7.25

Casing Diameter (Inches): 4

80% Recharge Depth(feet): 19.30

Borehole Diameter (Inches): /

1 Borehole Volume (gallons): 5

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F °C)	pH	Turbidity	D.O.
1510			5	550	20.1	7.19		
			10	569	19.6	6.34		
	1516		15	600	19.7	6.67		
Static at Time Sampled			Total Gallons Purged		Sample Time			
18.09			15		1522			
Comments:								

Well No. MW-4

Purge Method: Sub

Depth to Water (feet): 18.58

Depth to Product (feet): /

Total Depth (feet): 24.93

LPH & Water Recovered (gallons): /

Water Column (feet): 6.35

Casing Diameter (Inches): 4"

80% Recharge Depth(feet): 19.85

Borehole Diameter (Inches): /

1 Borehole Volume (gallons): 9

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F °C)	pH	Turbidity	D.O.
1542			4	576	20.3	6.91		
			8	575	20.5	6.91		
			12	576	20.2	6.93		
Static at Time Sampled			Total Gallons Purged		Sample Time			
18.63			12		1612			
Comments:								

Borehole Volume Constants	Casing/Borehole Diameter	2"/8"	4"/8"	4"/10"	6"/10"	6"/12"
	Borehole Constant (gal/ft)	0.88	1.19	(1.63)	2.16	(3.07)

GROUNDWATER SAMPLING FIELD NOTES

Technician: David Tenney

Site: 7124

Project No.: 410500-01 FA20

Date: 10-2-03

Well No. MW-1

Purge Method: Sub

Depth to Water (feet): 16.68

Depth to Product (feet): —

Total Depth (feet): 24.76

LPH & Water Recovered (gallons): —

Water Column (feet): 8.08

Casing Diameter (Inches): 4"

80% Recharge Depth(feet): 18.30

Borehole Diameter (Inches): —

1 Borehole Volume (gallons): 5

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
1359			5	499	20.8	6.55		
			10	492	20.1	6.82		
	1407		15	502	20.1	6.82		
Static at Time Sampled		Total Gallons Purged			Sample Time			
17.44		15			1415			
Comments:								

Well No. MW-2

Purge Method: Sub

Depth to Water (feet): 17.93

Depth to Product (feet): —

Total Depth (feet): 25.08

LPH & Water Recovered (gallons): —

Water Column (feet): 7.15

Casing Diameter (Inches): 4"

80% Recharge Depth(feet): 19.36

Borehole Diameter (Inches): —

1 Borehole Volume (gallons): 5

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (uS/cm)	Temperature (F, C)	pH	Turbidity	D.O.
1438			5	571	20.6	7.28		
			10	578	20.6	6.75		
	1442		15	545	20.7	6.64		
Static at Time Sampled		Total Gallons Purged			Sample Time			
18.03		15			1452			
Comments:								

Borehole Volume Constants	Casing/Borehole Diameter	2"/8"	4"/8"	4"/10"	6"/10"	6"/12"
	Borehole Constant (gal/ft)	0.88	1.19	<u>1.63</u>	2.16	<u>3.07</u>



STL

Submission#: 2003-10-0214

TRC Alton Geoscience

October 16, 2003

21 Technology Drive
Irvine, CA 92718

Attn.: Anju Farfan

Project#: 410500-01

Project: ConocoPhillips #7124

Site: 10151 East 14th St., Oakland

Attached is our report for your samples received on 10/03/2003 14:48

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 11/17/2003 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: asalimpour@stl-inc.com

Sincerely,

Afsaneh Salimpour
Project Manager

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

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 410500-01

ConocoPhillips #7124

Received: 10/03/2003 14:48

Site: 10151 East 14th St., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	10/02/2003 14:15	Water	1
MW-2	10/02/2003 14:52	Water	2
MW-3	10/02/2003 15:22	Water	3
MW-4	10/02/2003 16:12	Water	4

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 410500-01

ConocoPhillips #7124

Received: 10/03/2003 14:48

Site: 10151 East 14th St, Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-1	Lab ID:	2003-10-0214 - 1
Sampled:	10/02/2003 14:15	Extracted:	10/09/2003 20:10
Matrix:	Water	QC Batch#:	2003/10/09-01:62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	10/09/2003 20:10	
Benzene	ND	0.50	ug/L	1.00	10/09/2003 20:10	
Toluene	ND	0.50	ug/L	1.00	10/09/2003 20:10	
Ethylbenzene	ND	0.50	ug/L	1.00	10/09/2003 20:10	
Total xylenes	ND	1.0	ug/L	1.00	10/09/2003 20:10	
tert-Butyl alcohol (TBA)	ND	100	ug/L	1.00	10/09/2003 20:10	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	1.00	10/09/2003 20:10	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	10/09/2003 20:10	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	10/09/2003 20:10	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	10/09/2003 20:10	
1,2-DCA	ND	2.0	ug/L	1.00	10/09/2003 20:10	
EDB	ND	2.0	ug/L	1.00	10/09/2003 20:10	
Ethanol	ND	500	ug/L	1.00	10/09/2003 20:10	
Surrogate(s)						
1,2-Dichloroethane-d4	90.1	76-114	%	1.00	10/09/2003 20:10	
Toluene-d8	88.3	88-110	%	1.00	10/09/2003 20:10	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 410500-01

ConocoPhillips #7124

Received: 10/03/2003 14:48

Site: 10151 East 14th St., Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-2	Lab ID:	2003-10-0214 - 2
Sampled:	10/02/2003 14:52	Extracted:	10/14/2003 21:45
Matrix:	Water	QC Batch#:	2003/10/14-2B.68

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	6900	50	ug/L	1.00	10/14/2003 21:45	g
Benzene	ND	0.50	ug/L	1.00	10/14/2003 21:45	
Toluene	ND	0.50	ug/L	1.00	10/14/2003 21:45	
Ethylbenzene	ND	0.50	ug/L	1.00	10/14/2003 21:45	
Total xylenes	ND	1.0	ug/L	1.00	10/14/2003 21:45	
tert-Butyl alcohol (TBA)	ND	100	ug/L	1.00	10/14/2003 21:45	
Methyl tert-butyl ether (MTBE)	32	2.0	ug/L	1.00	10/14/2003 21:45	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	10/14/2003 21:45	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	10/14/2003 21:45	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	10/14/2003 21:45	
1,2-DCA	ND	2.0	ug/L	1.00	10/14/2003 21:45	
EDB	ND	2.0	ug/L	1.00	10/14/2003 21:45	
Ethanol	ND	500	ug/L	1.00	10/14/2003 21:45	
Surrogate(s)						
1,2-Dichloroethane-d4	100.3	76-114	%	1.00	10/14/2003 21:45	
Toluene-d8	106.7	88-110	%	1.00	10/14/2003 21:45	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 410500-01

ConocoPhillips #7124

Received: 10/03/2003 14:48

Site: 10151 East 14th St., Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-3	Lab ID:	2003-10-0214 - 3
Sampled:	10/02/2003 15:22	Extracted:	10/12/2003 20:05
Matrix:	Water	QC Batch#:	2003/10/12-1B:65
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	73000	5000	ug/L	100.00	10/12/2003 20:05	g
Benzene	ND	50	ug/L	100.00	10/12/2003 20:05	
Toluene	ND	50	ug/L	100.00	10/12/2003 20:05	
Ethylbenzene	ND	50	ug/L	100.00	10/12/2003 20:05	
Total xylenes	ND	100	ug/L	100.00	10/12/2003 20:05	
tert-Butyl alcohol (TBA)	ND	10000	ug/L	100.00	10/12/2003 20:05	
Methyl tert-butyl ether (MTBE)	460	200	ug/L	100.00	10/12/2003 20:05	
Di-isopropyl Ether (DIPE)	ND	200	ug/L	100.00	10/12/2003 20:05	
Ethyl tert-butyl ether (ETBE)	ND	200	ug/L	100.00	10/12/2003 20:05	
tert-Amyl methyl ether (TAME)	ND	200	ug/L	100.00	10/12/2003 20:05	
1,2-DCA	ND	200	ug/L	100.00	10/12/2003 20:05	
EDB	ND	200	ug/L	100.00	10/12/2003 20:05	
Ethanol	ND	50000	ug/L	100.00	10/12/2003 20:05	
Surrogate(s)						
1,2-Dichloroethane-d4	103.3	76-114	%	100.00	10/12/2003 20:05	
Toluene-d8	99.6	88-110	%	100.00	10/12/2003 20:05	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 410500-01

ConocoPhillips #7124

Received: 10/03/2003 14:48

Site: 10151 East 14th St., Oakland

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	MW-4	Lab ID:	2003-10-0214 - 4
Sampled:	10/02/2003 16:12	Extracted:	10/13/2003 17:29
Matrix:	Water	QC Batch#:	2003/10/13-01.68
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	7100	1000	ug/L	20.00	10/13/2003 17:29	g
Benzene	ND	10	ug/L	20.00	10/13/2003 17:29	
Toluene	ND	10	ug/L	20.00	10/13/2003 17:29	
Ethylbenzene	ND	10	ug/L	20.00	10/13/2003 17:29	
Total xylenes	ND	20	ug/L	20.00	10/13/2003 17:29	
tert-Butyl alcohol (TBA)	ND	2000	ug/L	20.00	10/13/2003 17:29	
Methyl tert-butyl ether (MTBE)	70	40	ug/L	20.00	10/13/2003 17:29	
Di-isopropyl Ether (DIPE)	ND	40	ug/L	20.00	10/13/2003 17:29	
Ethyl tert-butyl ether (ETBE)	ND	40	ug/L	20.00	10/13/2003 17:29	
tert-Amyl methyl ether (TAME)	ND	40	ug/L	20.00	10/13/2003 17:29	
1,2-DCA	ND	40	ug/L	20.00	10/13/2003 17:29	
EDB	ND	40	ug/L	20.00	10/13/2003 17:29	
Ethanol	ND	10000	ug/L	20.00	10/13/2003 17:29	
Surrogate(s)						
1,2-Dichloroethane-d4	112.7	76-114	%	20.00	10/13/2003 17:29	
Toluene-d8	97.9	88-110	%	20.00	10/13/2003 17:29	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 410500-01

ConocoPhillips #7124

Received: 10/03/2003 14:48

Site: 10151 East 14th St., Oakland

Batch QC Report		
Prep(s): 5030B	Water	Test(s): 8260FAB
Method: Blank		QC Batch # 2003/10/09-01.62
MB: 2003/10/09-01.62-050		Date Extracted: 10/09/2003 11:18

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/09/2003 11:18	
Benzene	ND	0.5	ug/L	10/09/2003 11:18	
Toluene	ND	0.5	ug/L	10/09/2003 11:18	
Ethylbenzene	ND	0.5	ug/L	10/09/2003 11:18	
Total xylenes	ND	1.0	ug/L	10/09/2003 11:18	
tert-Butyl alcohol (TBA)	ND	100	ug/L	10/09/2003 11:18	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	10/09/2003 11:18	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	10/09/2003 11:18	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	10/09/2003 11:18	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	10/09/2003 11:18	
1,2-DCA	ND	2.0	ug/L	10/09/2003 11:18	
EDB	ND	2.0	ug/L	10/09/2003 11:18	
Ethanol	ND	500	ug/L	10/09/2003 11:18	
Surrogates(s)					
1,2-Dichloroethane-d4	80.8	76-114	%	10/09/2003 11:18	
Toluene-d8	88.0	88-110	%	10/09/2003 11:18	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 410500-01

ConocoPhillips #7124

Received: 10/03/2003 14:48

Site: 10151 East 14th St., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Method Blank

Water

QC Batch # 2003/10/12-1B.65

MB: 2003/10/12-1B.65-033

Date Extracted: 10/12/2003 12:33

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/12/2003 12:33	
tert-Butyl alcohol (TBA)	ND	100	ug/L	10/12/2003 12:33	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	10/12/2003 12:33	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	10/12/2003 12:33	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	10/12/2003 12:33	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	10/12/2003 12:33	
1,2-DCA	ND	2.0	ug/L	10/12/2003 12:33	
EDB	ND	2.0	ug/L	10/12/2003 12:33	
Benzene	ND	0.5	ug/L	10/12/2003 12:33	
Toluene	ND	0.5	ug/L	10/12/2003 12:33	
Ethylbenzene	ND	0.5	ug/L	10/12/2003 12:33	
Total xylenes	ND	1.0	ug/L	10/12/2003 12:33	
Ethanol	ND	500	ug/L	10/12/2003 12:33	
Surrogates(s)					
1,2-Dichloroethane-d4	84.3	76-114	%	10/12/2003 12:33	
Toluene-d8	102.3	88-110	%	10/12/2003 12:33	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Afton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 410500-01

ConocoPhillips #7124

Received: 10/03/2003 14:48

Site: 10151 East 14th St., Oakland

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2003/10/13-01.68-008

Water

Test(s): 8260FAB

QC Batch # 2003/10/13-01.68

Date Extracted: 10/13/2003 16:08

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/13/2003 16:08	
Benzene	ND	0.5	ug/L	10/13/2003 16:08	
Toluene	ND	0.5	ug/L	10/13/2003 16:08	
Ethylbenzene	ND	0.5	ug/L	10/13/2003 16:08	
Total xylenes	ND	1.0	ug/L	10/13/2003 16:08	
tert-Butyl alcohol (TBA)	ND	100	ug/L	10/13/2003 16:08	
tert-Butyl alcohol (TBA)	ND	100	ug/L	10/13/2003 16:08	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	10/13/2003 16:08	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	10/13/2003 16:08	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	10/13/2003 16:08	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	10/13/2003 16:08	
1,2-DCA	ND	2.0	ug/L	10/13/2003 16:08	
EDB	ND	2.0	ug/L	10/13/2003 16:08	
Ethanol	ND	500	ug/L	10/13/2003 16:08	
Surrogates(s)					
1,2-Dichloroethane-d4	88.4	76-114	%	10/13/2003 16:08	
Toluene-d8	104.8	88-110	%	10/13/2003 16:08	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 410500-01

ConocoPhillips #7124

Received: 10/03/2003 14:48

Site: 10151 East 14th St., Oakland

Batch QC Report

Prep(s): 5030B

Method Blank

MB: 2003/10/14-2B 68-003

Water

Test(s): 8260FAB

QC Batch # 2003/10/14-2B.68

Date Extracted: 10/14/2003 21:03

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	10/14/2003 21:03	
tert-Butyl alcohol (TBA)	ND	100	ug/L	10/14/2003 21:03	
Methyl tert-butyl ether (MTBE)	ND	2.0	ug/L	10/14/2003 21:03	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	10/14/2003 21:03	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	10/14/2003 21:03	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	10/14/2003 21:03	
1,2-DCA	ND	2.0	ug/L	10/14/2003 21:03	
EDB	ND	2.0	ug/L	10/14/2003 21:03	
Benzene	ND	0.5	ug/L	10/14/2003 21:03	
Toluene	ND	0.5	ug/L	10/14/2003 21:03	
Ethylbenzene	ND	0.5	ug/L	10/14/2003 21:03	
Total xylenes	ND	1.0	ug/L	10/14/2003 21:03	
Ethanol	ND	500	ug/L	10/14/2003 21:03	
Surrogates(s)					
1,2-Dichloroethane-d4	99.1	76-114	%	10/14/2003 21:03	
Toluene-d8	104.8	88-110	%	10/14/2003 21:03	

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 410500-01

ConocoPhillips #7124

Received: 10/03/2003 14:48

Site: 10151 East 14th St., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2003/10/09-01.62

LCS 2003/10/09-01.62-049

Extracted: 10/09/2003

Analyzed: 10/09/2003 09:49

LCSD 2003/10/09-01.62-011

Extracted: 10/09/2003

Analyzed: 10/09/2003 10:11

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	21.8	21.5	25.0	87.2	86.0	1.4	69-129	20		
Toluene	21.7	21.7	25.0	86.8	86.8	0.0	70-130	20		
Methyl tert-butyl ether (MTBE)	19.4	20.2	25.0	77.6	80.8	4.0	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	428	423	500	85.6	84.6		76-114			
Toluene-d8	451	443	500	90.2	88.6		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 410500-01

ConocoPhillips #7124

Received: 10/03/2003 14:48

Site: 10151 East 14th St., Oakland

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike				Water			QC Batch # 2003/10/12-1B.65			
LCS	2003/10/12-1B.65-048			Extracted: 10/12/2003			Analyzed: 10/12/2003 11:48			
LCSD	2003/10/12-1B.65-010			Extracted: 10/12/2003			Analyzed: 10/12/2003 12:10			
Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	21.8	21.1	25	87.2	84.4	3.3	65-165	20		
Benzene	23.2	23.0	25	92.8	92.0	0.9	69-129	20		
Toluene	24.3	25.0	25	97.2	100.0	2.8	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	457	461	500	91.4	92.2		76-114			
Toluene-d8	499	498	500	99.8	99.6		88-110			

Gas/BTEX Fuel Oxygenates by 8260B

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Project: 410500-01

ConocoPhillips #7124

Received: 10/03/2003 14:48

Site: 10151 East 14th St., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2003/10/13-01.68

LCS 2003/10/13-01.68-026

Extracted: 10/13/2003

Analyzed: 10/13/2003 15:26

LCSD 2003/10/13-01.68-046

Extracted: 10/13/2003

Analyzed: 10/13/2003 15:46

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	21.6	22.3	25.0	86.4	89.2	3.2	69-129	20		
Toluene	23.2	24.1	25.0	92.8	96.4	3.8	70-130	20		
Methyl tert-butyl ether (MTBE)	20.4	21.8	25.0	81.6	87.2	6.6	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	424	496	500	84.8	99.2		76-114			
Toluene-d8	510	531	500	102.0	106.2		88-110			

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

10/15/2003 15:10

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Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

21 Technology Drive

Irvine, CA 92718

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

Project: 410500-01

ConocoPhillips #7124

Received: 10/03/2003 14:48

Site: 10151 East 14th St., Oakland

Batch QC Report

Prep(s): 5030B

Test(s): 8260FAB

Laboratory Control Spike

Water

QC Batch # 2003/10/14-2B.68

LCS 2003/10/14-2B.68-022

Extracted: 10/14/2003

Analyzed: 10/14/2003 20:22

LCSD 2003/10/14-2B.68-043

Extracted: 10/14/2003

Analyzed: 10/14/2003 20:43

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	22.7	24.6	25	90.8	98.4	8.0	65-165	20		
Benzene	24.0	25.0	25	96.0	100.0	4.1	69-129	20		
Toluene	24.1	25.6	25	96.4	102.4	6.0	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	459	499	500	91.8	99.8		76-114			
Toluene-d8	513	521	500	102.6	104.2		88-110			

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

10/15/2003 15:10

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Gas/BTEX Fuel Oxygenates by 8260B

TRC Alton Geoscience

Attn.: Anju Farfan

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Irvine, CA 92718

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

Project: 410500-01

ConocoPhillips #7124

Received: 10/03/2003 14:48

Site: 10151 East 14th St., Oakland

Legend and Notes

Analysis Flag

o

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

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

STL San Francisco

Sample Receipt Checklist

Submission #: 2003- 10 - 0214

Checklist completed by: (initials) DSH Date: 10/07/03

Courier name: STL San Francisco Client WORLD

Custody seals intact on shipping container/samples Yes ___ No ___ Not Present

Chain of custody present? Yes No ___

Chain of custody signed when relinquished and received? Yes No ___

Chain of custody agrees with sample labels? Yes No ___

Samples in proper container/bottle? Yes No ___

Sample containers intact? Yes No ___

Sufficient sample volume for indicated test? Yes No ___

All samples received within holding time? Yes No ___

Container/Temp Blank temperature in compliance (4° C ± 2)? Temp: 4.7 °C Yes No ___

Water - VOA vials have zero headspace? Ice Present Yes No ___

No VOA vials submitted ___ Yes No ___

(if bubble is present, refer to approximate bubble size and itemize in comments as S (small ~O), M (medium ~ O) or L (large ~ O))

Water - pH acceptable upon receipt? Yes No

pH adjusted- Preservative used: HNO₃ HCl H₂SO₄ NaOH ZnOAc -Lot #(s) _____

For any item check-listed "No", provided detail of discrepancy in comment section below:

Comments:

Project Management [Routing for instruction of indicated discrepancy(ies)]

Project Manager: (initials) _____ Date: _____/_____/03

Client contacted: Yes No

Summary of discussion:

Corrective Action (per PM/Client):

STL-San Francisco

2003-10-0214

ConocoPhillips Chain Of Custody Record

78078

1220 Quarry Lane
Pleasanton, CA 94566
(925) 484-1919 (925) 484-1096 fax

ConocoPhillips Site Manager:
INVOICE REMITTANCE ADDRESS:
CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

ConocoPhillips Work Order Number
ConocoPhillips Cost Object

DATE: 10-2-03
PAGE: 1 of 1

SAMPLING COMPANY: TRC		Valid Value ID:	CONOCOPHILLIPS SITE NUMBER 7124		GLOBAL ID NO.:
ADDRESS: 21 Technology Drive, Irvine, CA 92618			SITE ADDRESS (Street and City): 10151 East 14th Street Oakland		
PROJECT CONTACT (Hardcopy or PDF Report to): Anju Farfan			EDF DELIVERABLE TO (RP or Designee): Chris Rentz, crentz@trcsolutions.com	PHONE NO.: 949-753-0101	E-MAIL: afarfan@trcsolutions.com
TELEPHONE: 949-341-7440	FAX: 949-753-0111	LAB USE ONLY			

SAMPLER NAME(S) (Print): David Tenney
CONSULTANT PROJECT NUMBER: 410500-01

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 EDD IS NEEDED

REQUESTED ANALYSES

815m - TPHd Extractable	8260B - TPHg/BTEX/MTBE	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/MTBE	Lead <input type="checkbox"/> Total <input type="checkbox"/> STLC <input type="checkbox"/> TCLP	TPPH by 8260b	BTEX/MTBE by 8260b	8 OXYS by 8260b
								X	X	X
								↓	↓	↓

FIELD NOTES:
Container/Preservative or PID Readings or Laboratory Notes
4.7°C
TEMPERATURE ON RECEIPT °C

* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONT.
		DATE	TIME		
	MW-1	10-2-03	1415	GW	3
	MW-2	↓	1452	↓	↓
	MW-3	↓	1522	↓	↓
	MW-4	↓	1612	↓	↓

Relinquished by: (Signature) David Tenney	Received by: (Signature) Mike Romualdo (ROMUALDO)	Date: 10-03-03	Time: 1340
Relinquished by: (Signature) Mike Romualdo	Received by: (Signature) [Signature]	Date: 10-3-03	Time: 1446
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

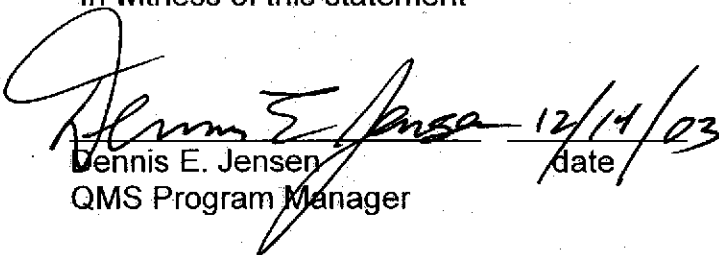
TRC Customer Focused Solutions
5052 Commercial Circle
Concord, CA 94520-1248

Statement of Authorized Transportation and Disposal

This is to certify that non-hazardous groundwater produced during purging and sampling of monitoring wells at ConocoPhillips site number 7124 was accumulated at TRC's groundwater monitoring facility at Concord, California, for transportation by Onyx Transportation, Inc. to the ConocoPhillips Refinery at Rodeo California for disposal. TRC records indicate that approximately 57 gallons of purge water from the site were transferred to the purge water holding tank on 10/2/03. The contents of the holding tank were transported to the Unit 100 Water Treatment Facility at the Rodeo Refinery on 11/3/03.

Disposal at the facility was authorized by ConocoPhillips in accordance with "ESD Standard Operating Procedures – Water Quality and Compliance", as revised on February 7, 2003. The procedure requires that TRC dispose only of monitoring well purge water from sites for which TRC services are under contract by ConocoPhillips. The non-hazardous nature of the purge water is confirmed quarterly by analysis by an independent certified laboratory of a random sample from the TRC holding facility. The sample is analyzed for all analytes and parameters that might affect the ConocoPhillips NPDES permit for ultimate disposal of the water. Documentation of compliance with ConocoPhillips requirements is provided by an ESD Form R-149, which is on file with ConocoPhillips.

In witness of this statement


Dennis E. Jensen
QMS Program Manager

12/14/03
date

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.