

**RECEIVED**

2:54 pm, Apr 12, 2010

Alameda County  
Environmental Health

The logo for ConocoPhillips, featuring the word "ConocoPhillips" in a bold, sans-serif font with a stylized oil drop above the "o" in "Phillips".

76 Broadway  
Sacramento, California 95818

April 12, 2010

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

Re: **Quarterly Summary Report—First Quarter 2010**  
**Former 76 Service Station # 7124 RO # 2444**  
**10151 International Blvd.**  
**Oakland, CA**

Dear Ms. Jakub:

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

**Barbara, if possible this site needs to be released per the Pilot Testing Work Plan sent in July 2009 due to the high levels detected. Your review/approval of that work would be greatly appreciated.**

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

Sincerely,

A handwritten signature in black ink, appearing to read "Terry L. Grayson".

Terry L. Grayson  
Site Manager  
Risk Management & Remediation



**Stantec**

**Stantec Consulting Corporation**  
290 Conejo Ridge Avenue  
Thousand Oaks, CA 91361  
Tel: (805) 230-1266  
Fax: (805) 230-1277

**Quarterly Summary Report - First Quarter 2010  
Former 76 Service Station No. 7124  
10151 International Boulevard  
Oakland, California**

**Stantec Project No.:  
211302511**

**Submitted to:  
Ms. Barbara Jakub  
Alameda County Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Oakland, California 94502**

*(Sent Via Electronic Upload to Alameda ftp)*

**Submitted by:  
Stantec Consulting Corporation  
290 Conejo Ridge Avenue  
Thousand Oaks, CA 91361  
805-230-1266**

**Prepared on behalf of:  
ConocoPhillips Company  
Mr. Terry Grayson  
Site Manager  
76 Broadway  
Sacramento, California 95818**

**April 12, 2010**

## **Quarterly Summary Report – First Quarter 2010**

April 12, 2010

### **INTRODUCTION**

On behalf of ConocoPhillips, Stantec Consulting Corporation (Stantec), has prepared this quarterly summary report for the former 76 Service Station No. 7124, located at 10151 International Boulevard, in Oakland, California. Currently the site is monitored and sampled semi-annually during the first and third quarter of each year.

### **SITE DESCRIPTION**

The site is located on the northwest corner of the intersection of International Boulevard and 102nd Avenue in Oakland, California (Figure 1). Since the semi-annual monitoring and sampling event performed on July 16, 2009, TRC staff have observed the site (currently a Royal Gasoline-branded station) to be closed and fenced off. Site facilities include three underground storage tanks (USTs) and associated piping and fuel dispensers. A detailed site plan is included as Figure 2.

### **SITE GEOLOGY AND HYDROGEOLOGY**

As shown in the United States Geological Survey *Geologic Map and Map Database of the Oakland Metropolitan Area, Alameda, Contra Costa, and San Francisco Counties, California*, prepared in 2000, the site is underlain by Holocene-aged alluvial fan and fluvial deposits. Based on assessment activities performed by Stantec in September 2008, the subsurface generally consists of silty sands to depths of 5 to 7 feet below ground surface (bgs), underlain by a clay layer generally to depths of 12 to 15 feet bgs. Below this clay layer, interbedded silt and clay with occasional sand lenses with thicknesses of up to three feet have been logged.

As outlined in the California Department of Water Resources 2003 *California Groundwater: Bulletin 118*, the site lies within the East Bay Plain Subbasin of the Santa Clara Valley Groundwater Basin. The East Bay Plain Subbasin is a northwest trending alluvial plain of Quaternary Age, bounded on the north by San Pablo Bay, on the east by the contact with Franciscan Complex rocks, and on the south by the Niles Cone Groundwater Basin. The East Bay Plain Subbasin extends beneath San Francisco Bay to the west.

### **PREVIOUS ASSESSMENT**

On March 22, 2000, SECOR International Incorporated (SECOR [now Stantec]) supervised the removal and replacement of product lines and dispensers by Balch Petroleum 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), methyl tertiary butyl ether (MTBE) up to 120 mg/kg, and benzene up to 7.4 mg/kg. Excavation and sampling activities were observed and approved by Inspector Gomez of the City of Oakland Fire Services Agency.

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 to 10 feet long by 8 to 10 feet wide were over-excavated to an approximate

## Quarterly Summary Report – First Quarter 2010

April 12, 2010

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depth of 8 feet 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 two of the three samples at a concentration of 108 mg/kg; benzene was detected in one of the three samples at 0.162 mg/kg; and MTBE was detected in all three samples at maximum concentrations of up to 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 monitoring wells (MW-1 through MW-4). 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), benzene, toluene, ethylbenzene, total xylenes (BTEX), and fuel oxygenates via EPA 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.

In September 2008, Stantec oversaw the advancement of two on-site and five off-site direct push soil borings. Soil and grab groundwater samples were collected and analyzed for total purgeable petroleum hydrocarbons (TPPH [aka gasoline]), BTEX, and fuel oxygenates tert-butyl alcohol (TBA), MTBE, di-isopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), and ethanol, as well as, ethylene di-bromide (EDB) and 1,2-dichloroethane (1,2-DCA) via EPA Method 8260B. Maximum concentrations of TPPH and MTBE in groundwater were observed in off-site boring SB-4 (north of monitoring well MW-3), at concentrations of 45,000 micrograms per liter ( $\mu\text{g/L}$ ), and 62  $\mu\text{g/L}$ , respectively.

### **SENSITIVE RECEPTORS**

During the third quarter of 2004, SECOR completed a ½-mile radius agency receptor survey and obtained an Environmental Data Resources Incorporated (EDR) radius map for the site. The agency survey identified two industrial supply wells, three cathodic protection wells, and two wells of unknown type within the search radius. The survey also identified twelve wells of unknown type that could not be precisely located because the records on file with DWR did not include this information. These wells may or may not be located within the search radius. The EDR radius map did not identify any water supply wells within the search radius, but did identify two water supply wells within one mile of the site.

During the third quarter of 2008, Stantec contacted the DWR to obtain copies of all well completion reports for wells located within 0.25-mile of the site. Stantec reviewed these well completion reports and determined that monitoring and vapor extraction wells associated with two sites are located within 0.25-mile of the site. One monitoring well is located approximately 650 feet south-southeast of the site (cross-gradient), while six monitoring wells and two vapor extraction wells are located approximately 1,150 feet north-northwest of the site (cross-gradient). No domestic or industrial supply wells or irrigation wells were located within 0.25-mile of the site.

Stantec also performed a utility survey at the site. The survey was conducted by having Underground Services Alert (USA) mark the site for utilities. Stantec staff subsequently hired a private utility locator to confirm utility locations and attempt to locate any potential utilities not marked by USA. Based on depth to groundwater (generally 15 to 20 feet bgs) and observed

## Quarterly Summary Report – First Quarter 2010

April 12, 2010

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dissolved-phase hydrocarbon distribution, Stantec felt the utility trenches do not represent likely preferential pathways, and accordingly, did not determine the actual depths of the utility trenches.

### MONITORING AND SAMPLING

The site has been monitored and sampled since the third quarter 2002. Currently, four wells (MW-1 through MW-4) are monitored and sampled semi-annually during the first and third quarter of each year. Samples are analyzed for TPPH, BTEX, fuel oxygenates TBA, MTBE, DIPE, ETBE, TAME, and ethanol, and lead scavengers EDB and 1,2-DCA by EPA Method 8260B.

During the first quarter 2010, depth to groundwater ranged between 16.35 and 18.28 feet below top of casing (toc). Historical groundwater depths have previously been reported between 15.11 and 19.25 feet below toc. The direction of groundwater flow was toward the northwest at a gradient of 0.01 foot/foot, with the historically dominant groundwater flow direction being towards the west.

During the first quarter 2010, the maximum concentrations of TPPH and MTBE were reported in well MW-3 at 2,200 µg/L, and 1,300 µg/L, respectively. TPPH and MTBE concentrations across the site were generally consistent with those observed over the past several quarters (other than MTBE in well MW-3, which was observed to increase by greater than one order-of-magnitude since the previous event), and over time, have shown a declining trend.

### CHARACTERIZATION STATUS

The highest concentrations of residual TPHg and/or MTBE contamination are localized in the northeastern area of the site in the vicinity of MW-3. The down-gradient/cross-gradient extent of the dissolved plume remains undefined by the existing monitoring well network. The variable TBA levels in MW-4 may indicate active biodegradation of MTBE is occurring beneath portions of the site. Additional down-gradient delineation is warranted.

### REMEDIATION STATUS

Currently, there is no active remediation at this site.

### CURRENT ASSESSMENT ACTIVITIES

No assessment activities were performed during the first quarter 2010.

### RECENT SUBMITTALS/CORRESPONDENCE

Submitted – *Quarterly Summary and Monitoring Report – Fourth Quarter 2009*, dated December 2, 2009.

## **WASTE DISPOSAL SUMMARY**

The volume of purged groundwater generated and disposed of during the quarterly groundwater monitoring event is documented in TRC's *Semi-Annual Monitoring Report, October 2009 through March 2010*, dated January 27, 2010 (Attachment 1).

## **CONCLUSIONS**

Since initiation of groundwater monitoring and sampling, observed hydrocarbon concentrations have decreased significantly. Additional assessment activities, as proposed in Stantec's *Work Plan for Additional Assessment and Remediation Pilot Testing*, dated July 20, 2009 is warranted. **Stantec is currently awaiting a response from the Alameda County Environmental Health Services, regarding the proposed scope of work.**

## **THIS QUARTER ACTIVITIES (First Quarter 2010)**

1. Stantec prepared and submitted a quarterly summary report.
2. TRC performed semi-annual groundwater monitoring and sampling.

## **NEXT QUARTER ACTIVITIES (Second Quarter 2010)**

1. Stantec to prepare and submit a quarterly summary report.
2. Stantec to initiate additional site assessment and remediation feasibility testing, **pending regulatory approval.**

April 12, 2010

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## LIMITATIONS

This report presents our understanding of existing conditions at the subject site located at 10151 International Boulevard, Oakland, California. Evaluations of the geologic conditions at the site for the purposes of this investigation are inherently limited due to the number of observation points. There are no representations, warranties, or guarantees that the points selected for sampling are representative of the entire site. Data from this report reflects the conditions at specific locations at a specific point in time. Stantec assumes no responsibility for work reported or performed by other consultants or contractors. Stantec makes no warranties or guarantees for the groundwater monitoring report (Attachment 1) prepared by TRC. No other interpretation, representations, warranties, guarantees, express or implied, are included or intended in the report findings.

If you have any questions regarding the contents of this report, please contact Benjamin Chevlen at (805) 230-1266 extension 293.

Sincerely,

**Stantec Consulting Corporation**



Benjamin Chevlen, P.G.  
Senior Geologist



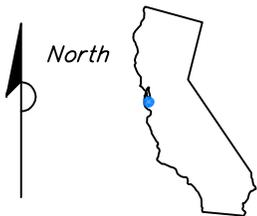
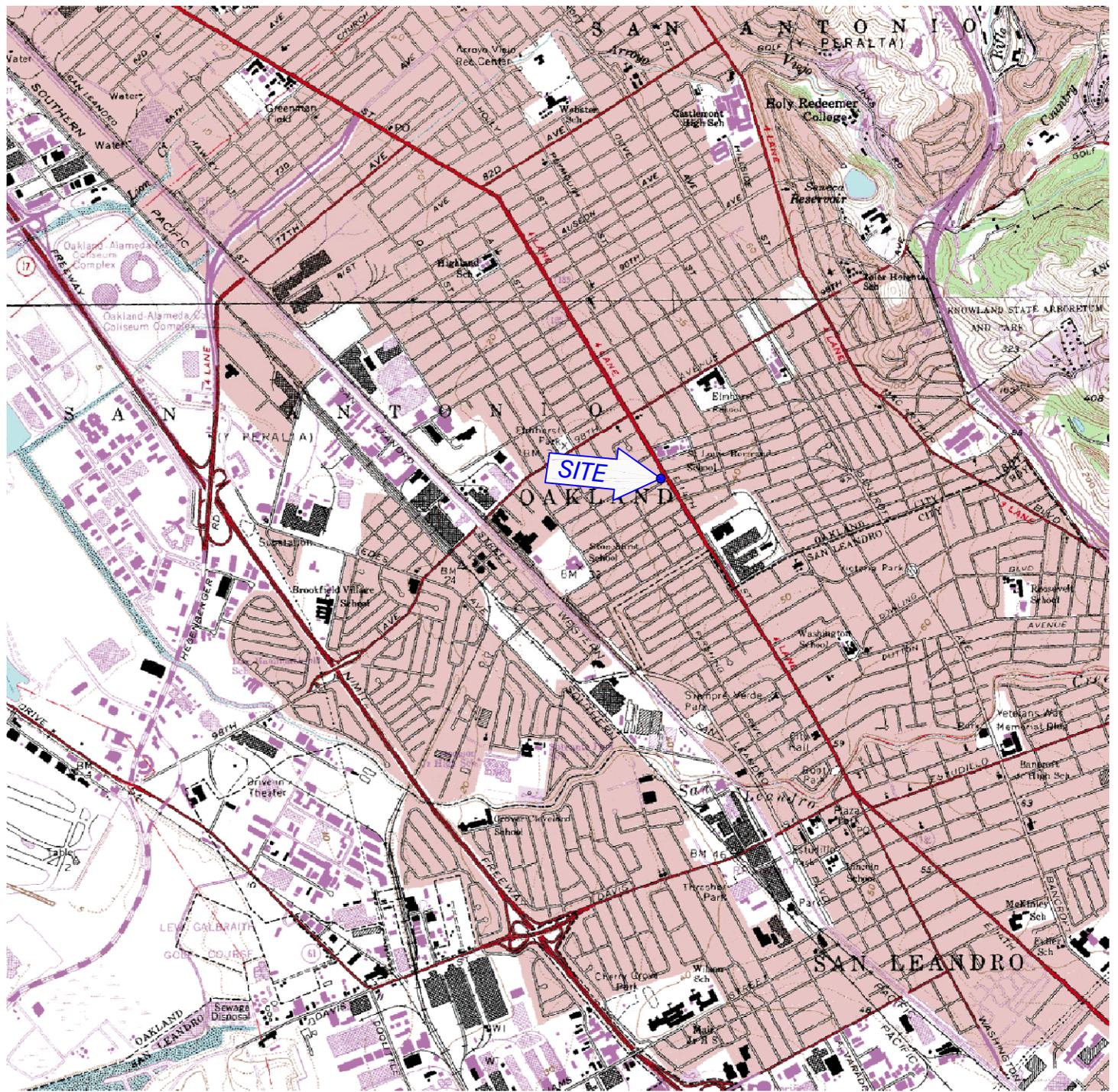
Attachments:

- Figure 1 – Site Location
- Figure 2 – Site Plan

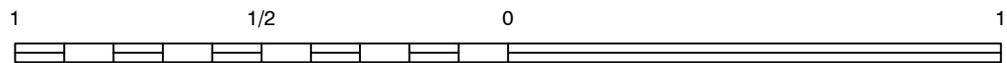
Attachment 1 - TRC's *Semi-Annual Monitoring Report – October 2009 through March 2010*, dated January 27, 2010.

cc: Mr. Terry Grayson, ConocoPhillips (via electronic upload to Livelink only)

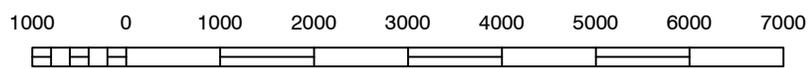
## **FIGURES**



CALIFORNIA



SCALE (MILES)



SCALE (FEET)

REFERENCE: USGS 7.5 MINUTE QUADRANGLE, OAKLAND, CALIFORNIA



**Startec**

FOR:  
 FORMER 76  
 STATION NO. 7124  
 10151 INTERNATIONAL BLVD.  
 OAKLAND, CALIFORNIA

**SITE LOCATION**

FIGURE:

**1**

JOB NUMBER:  
77CP.01634.41

DRAWN BY:  
STA/DWR

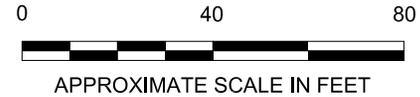
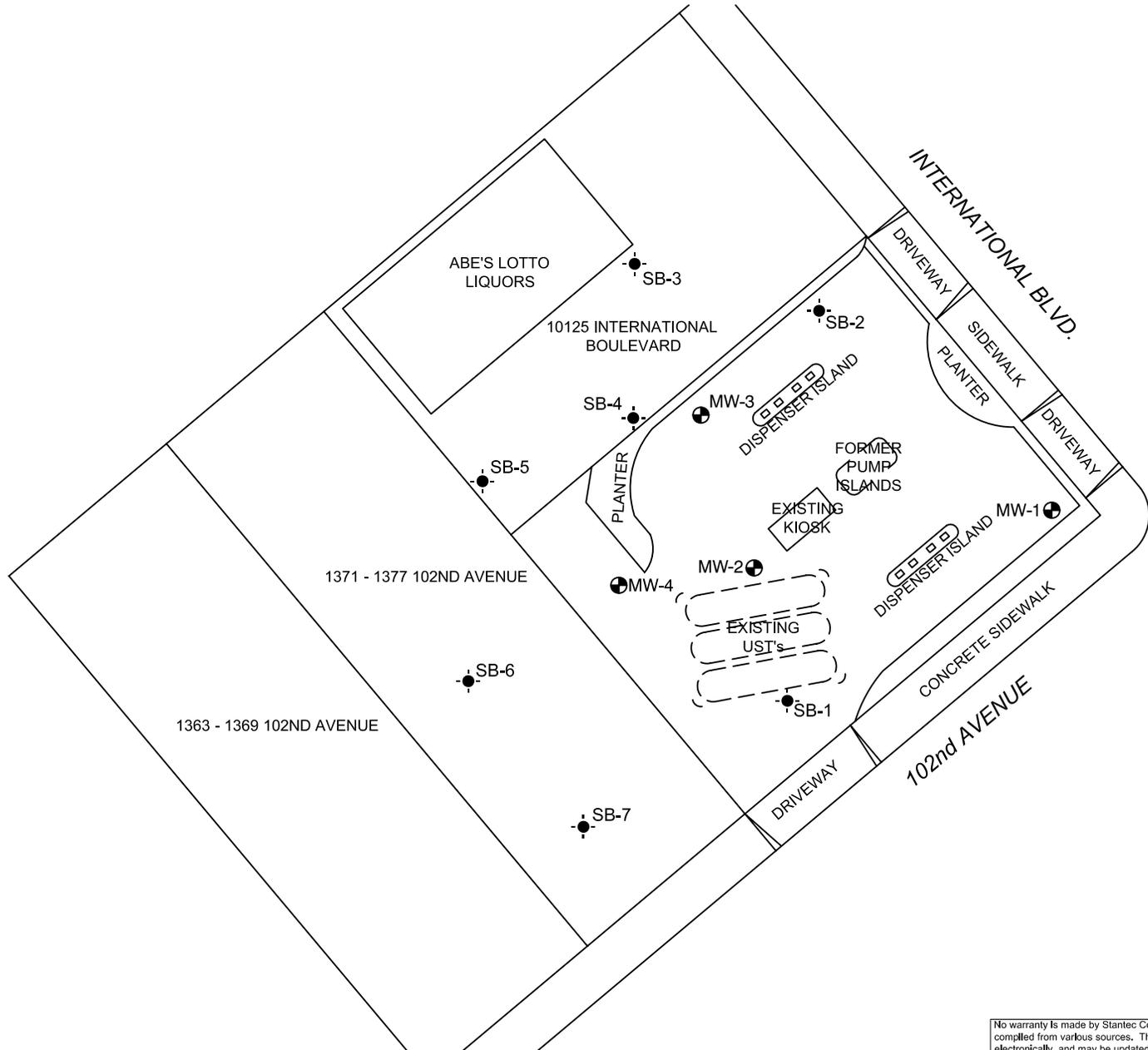
CHECKED BY:  
BC

APPROVED BY:  
TP

DATE:  
05/19/08

**LEGEND:**

- MW-1  GROUNDWATER MONITORING WELL LOCATIONS
- SB-1  SOIL BORING LOCATIONS



No warranty is made by Stantec Consulting Corporation as to the accuracy, reliability, or completeness of these data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed electronically, and may be updated without notification. Any reproduction may result in a loss of scale and or information.

	FORMER 76 STATION NO. 7124 10151 INTERNATIONAL BLVD. OAKLAND, CALIFORNIA		<b>SITE PLAN</b>		FIGURE: <b>2</b>
	JOB NUMBER: 77CP.01634.41	DRAWN BY: DWR/MDR	CHECKED BY: BC	APPROVED BY: RB	DATE: 7/3/08

**ATTACHMENT 1**  
**TRC'S SEMI-ANNUAL MONITORING REPORT**  
**OCTOBER 2009 THROUGH MARCH 2010**

Quarterly Summary Report – First Quarter 2010  
Former 76 Station 7124  
10151 International Boulevard  
Oakland, California



123 Technology Drive West  
Irvine, CA 92618

949.727.9336 PHONE  
949.727.7399 FAX

[www.TRCSolutions.com](http://www.TRCSolutions.com)

DATE: January 29, 2010

TO: ConocoPhillips Company  
76 Broadway  
Sacramento, CA 95818

ATTN: MR. TERRY GRAYSON

SITE: 76 STATION 7124  
10151 INTERNATIONAL BOULEVARD  
OAKLAND, CALIFORNIA

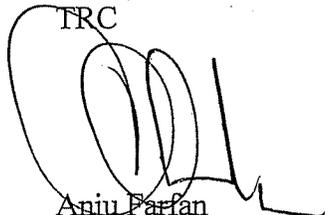
RE: SEMI-ANNUAL MONITORING REPORT  
OCTOBER 2009 THROUGH MARCH 2010

Dear Mr. Grayson:

Please find enclosed our Semi-Annual Monitoring Report for 76 Station 7124, located at 10151 International Boulevard, Oakland, California. If you have any questions regarding this report, please call us at (949) 727-9336.

Sincerely,

TRC



Anju Parfan  
Groundwater Program Operations Manager

CC: Mr. Ben Chevlen, Stantec (2 copies)

Enclosures  
200400/7124R25.QMS

**SEMI-ANNUAL MONITORING REPORT  
OCTOBER 2009 THROUGH MARCH 2010**

76 STATION 7124  
10151 International Boulevard  
Oakland, California

Prepared For:

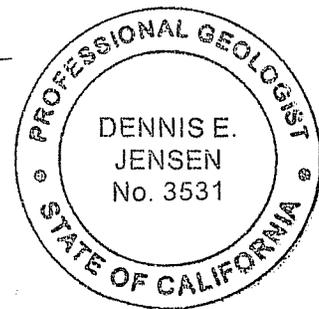
Mr. Terry Grayson  
CONOCOPHILLIPS COMPANY  
76 Broadway  
Sacramento, California 95818

By:

*Dennis E. Jensen*

Senior Project Geologist, Irvine Operations

Date: 1/27/10



### 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 2A: Historical Groundwater Flow Direction Figure 3: Dissolved-Phase TPH-G (GC/MS) Concentration Map Figure 4: Dissolved-Phase Benzene Concentration Map Figure 5: Dissolved-Phase MTBE Concentration Map
Graphs	Groundwater Elevations vs. Time MTBE 8260B Concentrations vs. Time
Field Activities	General Field Procedures Field Monitoring Data Sheet – 1/6/10 Groundwater Sampling Field Notes – 1/6/10
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Statements	Purge Water Disposal Limitations

**Summary of Gauging and Sampling Activities**  
**October 2009 through March 2010**  
**76 Station 7124**  
**10151 International Boulevard**  
**Oakland, CA**

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

Water Sampling Contractor: **TRC**  
Compiled by: **Daniel Lee**

Date(s) of Gauging/Sampling Event: **1/6/10**

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**Sample Points**

Groundwater wells: **4** onsite, **0** offsite      Points gauged: **4**      Points sampled: **4**  
Purging method: **Submersible pump**  
Purge water disposal: **Crosby and Overton treatment facility**  
Other Sample Points: **0**      Type: **--**

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**Liquid Phase Hydrocarbons (LPH)**

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

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**Hydrogeologic Parameters**

Depth to groundwater (below TOC):      Minimum: **16.35 feet**      Maximum: **18.28 feet**  
Average groundwater elevation (relative to available local datum): **20.34 feet**  
Average change in groundwater elevation since previous event: **0.46 feet**  
Interpreted groundwater gradient and flow direction:  
    Current event: **0.01 ft/ft, northwest**  
    Previous event: **0.008 ft/ft, west (7/16/09)**

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**Selected Laboratory Results**

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

Sample Points with **TPH-G by GC/MS**      **3**      Maximum: **2,200 µg/l (MW-3)**  
Sample Points with **MTBE 8260B**      **3**      Maximum: **1,300 µg/l (MW-3)**

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**Notes:**

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# 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)
D	=	duplicate
P	=	no-purge sample

### ANALYTES

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

### NOTES

1. Elevations are in feet above mean sea level. Depths are in feet below surveyed top-of-casing.
2. Groundwater elevations for wells with LPH are calculated as:  $\text{Surface Elevation} - \text{Measured Depth to Water} + (\text{Dp} \times \text{LPH Thickness})$ , where Dp is the density of the LPH, if known. A value of 0.75 is used for gasoline and when the density is not known. A value of 0.83 is used for diesel.
3. Wells with LPH are generally not sampled for laboratory analysis (see General Field Procedures).
4. Comments shown on tables are general. Additional explanations may be included in field notes and laboratory reports, both of which are included as part of this report.
5. A "J" flag indicates that a reported analytical result is an estimated concentration value between the method detection limit (MDL) and the practical quantification limit (PQL) specified by the laboratory.
6. Other laboratory flags (qualifiers) may have been reported. See the official laboratory report (attached) for a complete list of laboratory flags.
7. Concentration graphs based on tables (presented following Figures) show non-detect results prior to the Second Quarter 2000 plotted at fixed values for graphical display. Non-detect results reported since that time are plotted at reporting limits stated in the official laboratory report.
8. Prior to the 4<sup>th</sup> quarter 2009, the word Monitoring was used in tables comments interchangeably with the word Gauging. Starting in Q4'09, the word Monitoring is used to include both Gauging and Sampling.

### REFERENCE

TRC began groundwater monitoring and sampling for 76 Station 7124 in October 2003. Historical data compiled prior to that time were provided by Gettler-Ryan Inc.

# Contents of Tables 1 and 2

## Site: 76 Station 7124

### Current Event

Table 1	Well/ Date	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation	TPH-G 8015	TPH-G (GC/MS)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)
Table 1a	Well/ Date	TBA	Ethanol (8260B)	Ethylene- dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME					

### Historic Data

Table 2	Well/ Date	Depth to Water	LPH Thickness	Ground- water Elevation	Change in Elevation	TPH-G 8015	TPH-G (GC/MS)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	MTBE (8021B)	MTBE (8260B)
Table 2a	Well/ Date	TBA	Ethanol (8015B)	Ethanol (8260B)	Ethylene- dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME				

**Table 1**  
**CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**January 6, 2010**  
**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 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>MW-1</b>														
1/6/10	37.37	16.35	0.00	21.02	0.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
<b>MW-2</b>														
1/6/10	37.87	17.68	0.00	20.19	0.47	--	150	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.0	
<b>MW-3</b>														
1/6/10	37.72	17.65	0.00	20.07	0.40	--	2200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1300	
<b>MW-4</b>														
1/6/10	38.36	18.28	0.00	20.08	0.42	--	380	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.4	

**Table 1 a**  
**ADDITIONAL CURRENT ANALYTICAL RESULTS**  
**76 Station 7124**

Date Sampled	TBA (µg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
<b>MW-1</b>							
1/6/10	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
<b>MW-2</b>							
1/6/10	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
<b>MW-3</b>							
1/6/10	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
<b>MW-4</b>							
1/6/10	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**April 2002 Through January 2010**  
**76 Station 7124**

Date Sampled	TOC Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Ground-water Elevation (feet)	Change in Elevation (feet)									Comments
						TPH-G 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	
<b>MW-1</b>														
4/8/02	37.37	14.27	0.00	23.10	--	ND<50	--	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5	ND<2.0	
7/28/02	37.37	15.88	0.00	21.49	-1.61	--	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	
1/9/04	37.37	13.79	0.00	23.58	2.89	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1	--	ND<2	
4/26/04	37.37	15.21	0.00	22.16	-1.42	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
7/22/04	37.37	16.43	0.00	20.94	-1.22	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
10/29/04	37.37	16.14	0.00	21.23	0.29	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
1/12/05	37.37	12.83	0.00	24.54	3.31	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
6/20/05	37.37	14.38	0.00	22.99	-1.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
9/23/05	37.37	15.92	0.00	21.45	-1.54	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
12/13/05	37.37	16.09	0.00	21.28	-0.17	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
3/24/06	37.37	11.85	0.00	25.52	4.24	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
5/30/06	37.37	13.30	0.00	24.07	-1.45	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
8/22/06	37.37	15.11	0.00	22.26	-1.81	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
10/31/06	37.37	16.11	0.00	21.26	-1.00	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
1/12/07	37.37	15.55	0.00	21.82	0.56	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
4/4/07	37.37	15.31	0.00	22.06	0.24	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
7/5/07	37.37	16.21	0.00	21.16	-0.90	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**April 2002 Through January 2010**  
**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 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>MW-1 continued</b>														
10/1/07	37.37	17.13	0.00	20.24	-0.92	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	ND<0.50	
1/11/08	37.37	14.48	0.00	22.89	2.65	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
4/4/08	37.37	16.17	0.00	21.20	-1.69	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	Gauged on 5-22-08
7/2/08	37.37	16.70	0.00	20.67	-0.53	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
10/2/08	37.37	17.50	0.00	19.87	-0.80	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
1/14/09	37.37	17.30	0.00	20.07	0.20	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
4/16/09	37.37	15.60	0.00	21.77	1.70	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
7/16/09	37.37	16.90	0.00	20.47	-1.30	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
1/6/10	37.37	16.35	0.00	21.02	0.55	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	ND<0.50	
<b>MW-2</b>														
4/8/02	37.87	15.86	0.00	22.01	--	4400	--	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	--	3200	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	--	3800	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	--	1000	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	--	1900	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	
1/9/04	37.87	15.42	0.00	22.45	2.51	--	1000	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	300	
4/26/04	37.87	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
7/22/04	37.87	--	--	--	--	--	--	--	--	--	--	--	--	Covered with asphalt
10/29/04	37.87	--	0.00	--	--	--	--	--	--	--	--	--	--	Well is paved over.
1/12/05	37.87	--	--	--	--	--	--	--	--	--	--	--	--	Well was paved over.
6/20/05	37.87	15.94	0.00	21.93	--	--	120	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	46	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**April 2002 Through January 2010**  
**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 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>MW-2 continued</b>														
9/23/05	37.87	17.29	0.00	20.58	-1.35	--	120	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	10	
12/13/05	37.87	17.41	0.00	20.46	-0.12	--	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	11	
3/24/06	37.87	13.77	0.00	24.10	3.64	--	190	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	15	
5/30/06	37.87	15.16	0.00	22.71	-1.39	--	120	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	6.6	
8/22/06	37.87	16.49	0.00	21.38	-1.33	--	81	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	3.0	
10/31/06	37.87	17.15	0.00	20.72	-0.66	--	93	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	2.0	
1/12/07	37.87	17.07	0.00	20.80	0.08	--	230	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	4.3	
4/4/07	37.87	17.84	0.00	20.03	-0.77	--	110	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	2.5	
7/5/07	37.87	17.51	0.00	20.36	0.33	--	150	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	2.6	
10/1/07	37.87	18.25	0.00	19.62	-0.74	--	160	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	2.0	
1/11/08	37.87	16.80	0.00	21.07	1.45	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	7.7	
5/22/08	37.87	17.46	0.00	20.41	-0.66	--	140	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	4.2	Gauged and sampled on 5-22-08
7/2/08	37.87	17.94	0.00	19.93	-0.48	--	75	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.4	
10/2/08	37.87	18.65	0.00	19.22	-0.71	--	130	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.1	
1/14/09	37.87	18.40	0.00	19.47	0.25	--	66	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.5	
4/16/09	37.87	16.94	0.00	20.93	1.46	--	93	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.2	
7/16/09	37.87	18.15	0.00	19.72	-1.21	--	92	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1.6	
1/6/10	37.87	17.68	0.00	20.19	0.47	--	150	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.0	
<b>MW-3</b>														
4/8/02	37.72	15.86	0.00	21.86	--	8700	--	65	ND<25	400	ND<25	6500	8300	
7/28/02	37.72	17.22	0.00	20.50	-1.36	--	4500	ND<25	ND<25	ND<25	ND<50	--	1100	
11/3/02	37.72	17.90	0.00	19.82	-0.68	--	25000	ND<5.0	ND<5.0	25	ND<10	--	470	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**April 2002 Through January 2010**  
**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 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>MW-3 continued</b>														
1/24/03	37.72	15.57	0.00	22.15	2.33	--	6000	ND<25	ND<25	94	ND<50	--	10000	
4/2/03	37.72	16.45	0.00	21.27	-0.88	--	130000	ND<100	ND<100	ND<100	ND<200	--	4400	
7/1/03	37.72	16.88	0.00	20.84	-0.43	--	9400	ND<10	ND<10	ND<10	ND<20	--	2200	
10/2/03	37.72	17.85	0.00	19.87	-0.97	--	73000	ND<50	ND<50	ND<50	ND<100	--	460	
1/9/04	37.72	15.31	0.00	22.41	2.54	--	8700	ND<25	ND<25	98	ND<50	--	3800	
4/26/04	37.72	16.62	0.00	21.10	-1.31	--	6700	ND<25	ND<25	ND<25	ND<50	--	3900	
7/22/04	37.72	17.62	0.00	20.10	-1.00	--	13000	ND<25	ND<25	ND<25	ND<50	--	980	
10/29/04	37.72	17.29	0.00	20.43	0.33	--	4600	ND<5.0	ND<5.0	13	ND<10	--	640	
1/12/05	37.72	14.64	0.00	23.08	2.65	--	6100	0.88	0.99	30	2.2	--	6900	
6/20/05	37.72	15.91	0.00	21.81	-1.27	--	1900	ND<0.50	0.21J	0.52	0.46J	--	960	
9/23/05	37.72	17.20	0.00	20.52	-1.29	--	2400	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	160	
12/13/05	37.72	17.32	0.00	20.40	-0.12	--	2100	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	340	
3/24/06	37.72	13.86	0.00	23.86	3.46	--	2200	ND<5.0	ND<5.0	ND<5.0	ND<10	--	970	
5/30/06	37.72	15.69	0.00	22.03	-1.83	--	1500	ND<12	ND<12	ND<12	ND<25	--	760	
8/22/06	37.72	16.51	0.00	21.21	-0.82	--	1900	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	160	
10/31/06	37.72	17.36	0.00	20.36	-0.85	--	2200	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	58	
1/12/07	37.72	16.85	0.00	20.87	0.51	--	2600	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	680	
4/4/07	37.72	16.62	0.00	21.10	0.23	--	1700	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	650	
7/5/07	37.72	17.42	0.00	20.30	-0.80	--	2400	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	160	
10/1/07	37.72	18.16	0.00	19.56	-0.74	--	1700	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	87	
1/11/08	37.72	15.84	0.00	21.88	2.32	--	2200	ND<0.50	ND<0.50	1.6	ND<1.0	--	1300	
4/4/08	37.72	17.30	0.00	20.42	-1.46	--	1600	ND<1.0	ND<1.0	ND<1.0	ND<2.0	--	470	Gauged on 5-22-08
7/2/08	37.72	17.84	0.00	19.88	-0.54	--	1200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	91	

**Table 2**  
**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**April 2002 Through January 2010**  
**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 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>MW-3 continued</b>														
10/2/08	37.72	18.50	0.00	19.22	-0.66	--	2100	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	84	
1/14/09	37.72	18.33	0.00	19.39	0.17	--	2000	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	320	
4/16/09	37.72	16.92	0.00	20.80	1.41	--	1800	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	560	
7/16/09	37.72	18.05	0.00	19.67	-1.13	--	1900	ND<5.0	ND<5.0	ND<5.0	ND<10	--	100	
1/6/10	37.72	17.65	0.00	20.07	0.40	--	2200	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	1300	
<b>MW-4</b>														
4/8/02	38.36	16.59	0.00	21.77	--	13000	--	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	--	18000	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	170	
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<1000	ND<10	ND<10	ND<10	ND<20	--	1000	
4/2/03	38.36	17.19	0.00	21.17	-0.92	--	130000	ND<100	ND<100	ND<100	ND<200	--	ND<400	
7/1/03	38.36	17.61	0.00	20.75	-0.42	--	15000	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	
1/9/04	38.36	16.15	0.00	22.21	2.43	--	18000	ND<10	ND<10	ND<10	ND<20	--	530	
4/26/04	38.36	17.20	0.00	21.16	-1.05	--	6500	ND<10	ND<10	ND<10	ND<20	--	240	
7/22/04	38.36	18.34	0.00	20.02	-1.14	--	18000	ND<10	ND<10	ND<10	ND<20	--	48	
10/29/04	38.36	18.13	0.00	20.23	0.21	--	2700	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	76	
1/12/05	38.36	15.22	0.00	23.14	2.91	--	1300	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	620	
6/20/05	38.36	16.63	0.00	21.73	-1.41	--	980	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	110	
9/23/05	38.36	17.93	0.00	20.43	-1.30	--	1500	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	34	
12/13/05	38.36	18.04	0.00	20.32	-0.11	--	3900	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	36	
3/24/06	38.36	14.48	0.00	23.88	3.56	--	1500	ND<12	ND<12	ND<12	ND<25	--	200	
5/30/06	38.36	15.79	0.00	22.57	-1.31	--	1200	ND<2.5	ND<2.5	ND<2.5	ND<5.0	--	130	

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**HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS**  
**April 2002 Through January 2010**  
**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 8015 (µg/l)	TPH-G (GC/MS) (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl-benzene (µg/l)	Total Xylenes (µg/l)	MTBE (8021B) (µg/l)	MTBE (8260B) (µg/l)	Comments
<b>MW-4 continued</b>														
8/22/06	38.36	17.26	0.00	21.10	-1.47	--	980	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	33	
10/31/06	38.36	18.08	0.00	20.28	-0.82	--	1300	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	10	
1/12/07	38.36	17.57	0.00	20.79	0.51	--	820	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	28	
4/4/07	38.36	17.40	0.00	20.96	0.17	--	460	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	41	
7/5/07	38.36	18.02	0.00	20.34	-0.62	--	920	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	7.0	
10/1/07	38.36	18.89	0.00	19.47	-0.87	--	560	ND<0.50	ND<0.50	ND<0.50	ND<0.50	--	3.0	
1/11/08	38.36	16.56	0.00	21.80	2.33	--	340	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	21	
5/22/08	38.36	18.10	0.00	20.26	-1.54	--	520	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	5.6	Gauged and sampled on 5-22-08
7/2/08	38.36	18.55	0.00	19.81	-0.45	--	340	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.3	
10/2/08	38.36	19.25	0.00	19.11	-0.70	--	790	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.4	
1/14/09	38.36	19.10	0.00	19.26	0.15	--	430	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.4	
4/16/09	38.36	17.61	0.00	20.75	1.49	--	390	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	16	
7/16/09	38.36	18.70	0.00	19.66	-1.09	--	310	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	3.2	
1/6/10	38.36	18.28	0.00	20.08	0.42	--	380	ND<0.50	ND<0.50	ND<0.50	ND<1.0	--	2.4	

**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 7124**

Date Sampled	TBA (µg/l)	Ethanol (8015B) (mg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
<b>MW-1</b>								
7/28/02	ND<100	ND<500	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
11/3/02	ND<100	ND<500	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
1/24/03	ND<100	ND<500	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
4/2/03	ND<100	ND<500	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
7/1/03	ND<100	ND<500	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
10/2/03	ND<100	--	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
1/9/04	ND<100	--	ND<500	ND<2	ND<2.0	ND<2	ND<2	ND<2
4/26/04	ND<5.0	--	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
7/22/04	ND<5.0	--	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
10/29/04	ND<5.0	--	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
1/12/05	ND<5.0	--	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
6/20/05	ND<10	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
9/23/05	ND<10	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
12/13/05	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
3/24/06	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
5/30/06	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
8/22/06	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
10/31/06	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1/12/07	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
4/4/07	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
7/5/07	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
10/1/07	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1/11/08	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
4/4/08	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
7/2/08	ND<10	--	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 7124**

Date Sampled	TBA (µg/l)	Ethanol (8015B) (mg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
<b>MW-1 continued</b>								
10/2/08	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1/14/09	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
4/16/09	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
7/16/09	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1/6/10	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
<b>MW-2</b>								
4/8/02	ND<2000	ND<10000	--	ND<40	ND<40	ND<40	ND<40	ND<40
7/28/02	ND<500	ND<2500	--	ND<10	ND<10	ND<10	ND<10	ND<10
11/3/02	ND<1000	ND<5000	--	ND<20	ND<20	ND<20	ND<20	ND<20
1/24/03	ND<500	ND<2500	--	ND<10	ND<10	ND<10	ND<10	ND<10
4/2/03	ND<1000	ND<5000	--	ND<20	ND<20	ND<20	ND<20	ND<20
7/1/03	ND<500	ND<2500	--	ND<10	ND<10	ND<10	ND<10	ND<10
10/2/03	ND<100	--	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
1/9/04	ND<500	--	ND<2500	ND<10	ND<10	ND<10	ND<10	ND<10
6/20/05	25	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
9/23/05	ND<10	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
12/13/05	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
3/24/06	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
5/30/06	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
8/22/06	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
10/31/06	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1/12/07	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
4/4/07	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
7/5/07	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
10/1/07	ND<10	--	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 7124**

Date Sampled	TBA (µg/l)	Ethanol (8015B) (mg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
<b>MW-2 continued</b>								
1/11/08	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
5/22/08	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
7/2/08	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
10/2/08	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1/14/09	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
4/16/09	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
7/16/09	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1/6/10	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
<b>MW-3</b>								
10/2/03	ND<10000	--	ND<50000	ND<200	ND<200	ND<200	ND<200	ND<200
1/9/04	ND<5000	--	ND<25000	ND<100	ND<100	ND<100	ND<100	ND<100
4/26/04	ND<250	--	ND<2500	ND<25	ND<25	ND<50	ND<25	ND<25
7/22/04	ND<250	--	ND<2500	ND<25	ND<25	ND<50	ND<25	ND<25
10/29/04	ND<50	--	ND<500	ND<5.0	ND<5.0	ND<10	ND<5.0	ND<5.0
1/12/05	1300	--	ND<2500	ND<25	ND<25	ND<50	ND<25	ND<25
6/20/05	39	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<0.50	0.31J
9/23/05	ND<10	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
12/13/05	ND<50	--	ND<1200	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
3/24/06	ND<100	--	ND<2500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
5/30/06	ND<250	--	ND<6200	ND<12	ND<12	ND<12	ND<12	ND<12
8/22/06	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
10/31/06	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1/12/07	43	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
4/4/07	130	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
7/5/07	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

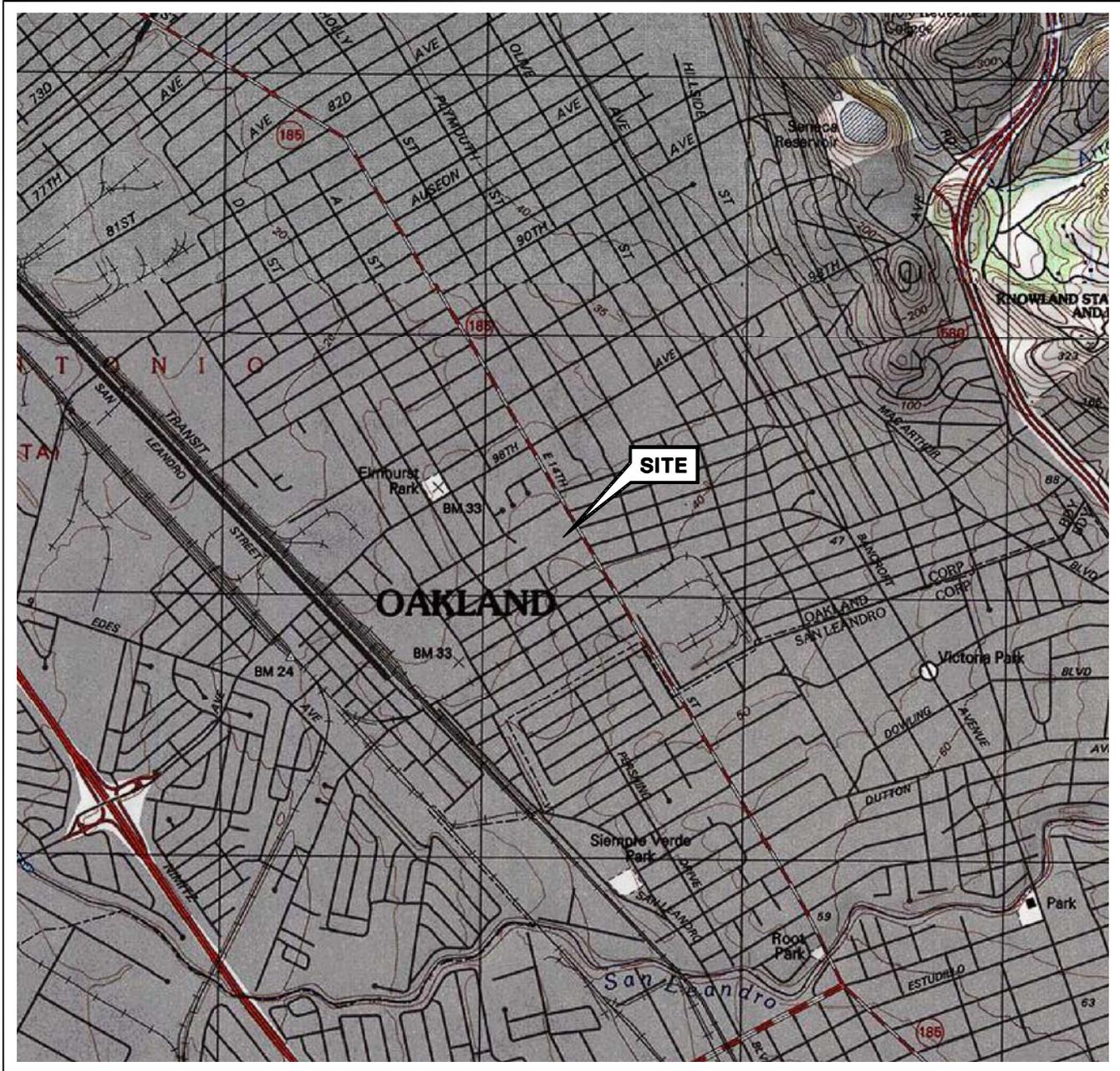
**Table 2 a**  
**ADDITIONAL HISTORIC ANALYTICAL RESULTS**  
**76 Station 7124**

Date Sampled	TBA (µg/l)	Ethanol (8015B) (mg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
<b>MW-3 continued</b>								
10/1/07	ND<20	--	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
1/11/08	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
4/4/08	ND<20	--	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
7/2/08	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
10/2/08	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1/14/09	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
4/16/09	ND<50	--	ND<1200	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
7/16/09	ND<100	--	ND<2500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
1/6/10	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
<b>MW-4</b>								
4/8/02	ND<5000	ND<25000	--	ND<100	ND<100	ND<100	ND<100	ND<100
7/28/02	ND<500	ND<2500	--	ND<10	ND<10	ND<10	ND<10	ND<10
11/3/02	ND<100	ND<500	--	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
1/24/03	ND<2000	ND<10000	--	ND<40	ND<40	ND<40	ND<40	ND<40
4/2/03	ND<20000	ND<100000	--	ND<400	ND<400	ND<400	ND<400	ND<400
7/1/03	ND<500	ND<2500	--	ND<10	ND<10	ND<10	ND<10	ND<10
10/2/03	ND<2000	--	ND<10000	ND<40	ND<40	ND<40	ND<40	ND<40
1/9/04	ND<2000	--	ND<10000	ND<40	ND<40	ND<40	ND<40	ND<40
4/26/04	430	--	ND<1000	ND<10	ND<10	ND<20	ND<10	ND<10
7/22/04	ND<100	--	ND<1000	ND<10	ND<10	ND<20	ND<10	ND<10
10/29/04	63	--	ND<250	ND<2.5	ND<2.5	ND<5.0	ND<2.5	ND<2.5
1/12/05	1300	--	ND<250	ND<10	ND<2.5	ND<5.0	ND<2.5	ND<2.5
6/20/05	580	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
9/23/05	92	--	ND<1000	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
12/13/05	50	--	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 7124**

Date Sampled	TBA (µg/l)	Ethanol (8015B) (mg/l)	Ethanol (8260B) (µg/l)	Ethylene- dibromide (EDB) (µg/l)	1,2-DCA (EDC) (µg/l)	DIPE (µg/l)	ETBE (µg/l)	TAME (µg/l)
<b>MW-4 continued</b>								
3/24/06	1900	--	ND<6200	ND<12	ND<12	ND<12	ND<12	ND<12
5/30/06	ND<50	--	ND<1200	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5
8/22/06	150	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
10/31/06	43	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1/12/07	72	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
4/4/07	260	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
7/5/07	18	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
10/1/07	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1/11/08	140	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
5/22/08	52	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
7/2/08	15	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
10/2/08	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1/14/09	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
4/16/09	170	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
7/16/09	20	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
1/6/10	ND<10	--	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

# FIGURES



SOURCE:

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



SCALE 1:24,000



QUADRANGLE  
LOCATION



FACILITY:

76 STATION 7124  
10151 INTERNATIONAL BOULEVARD  
OAKLAND, CALIFORNIA

VICINITY MAP

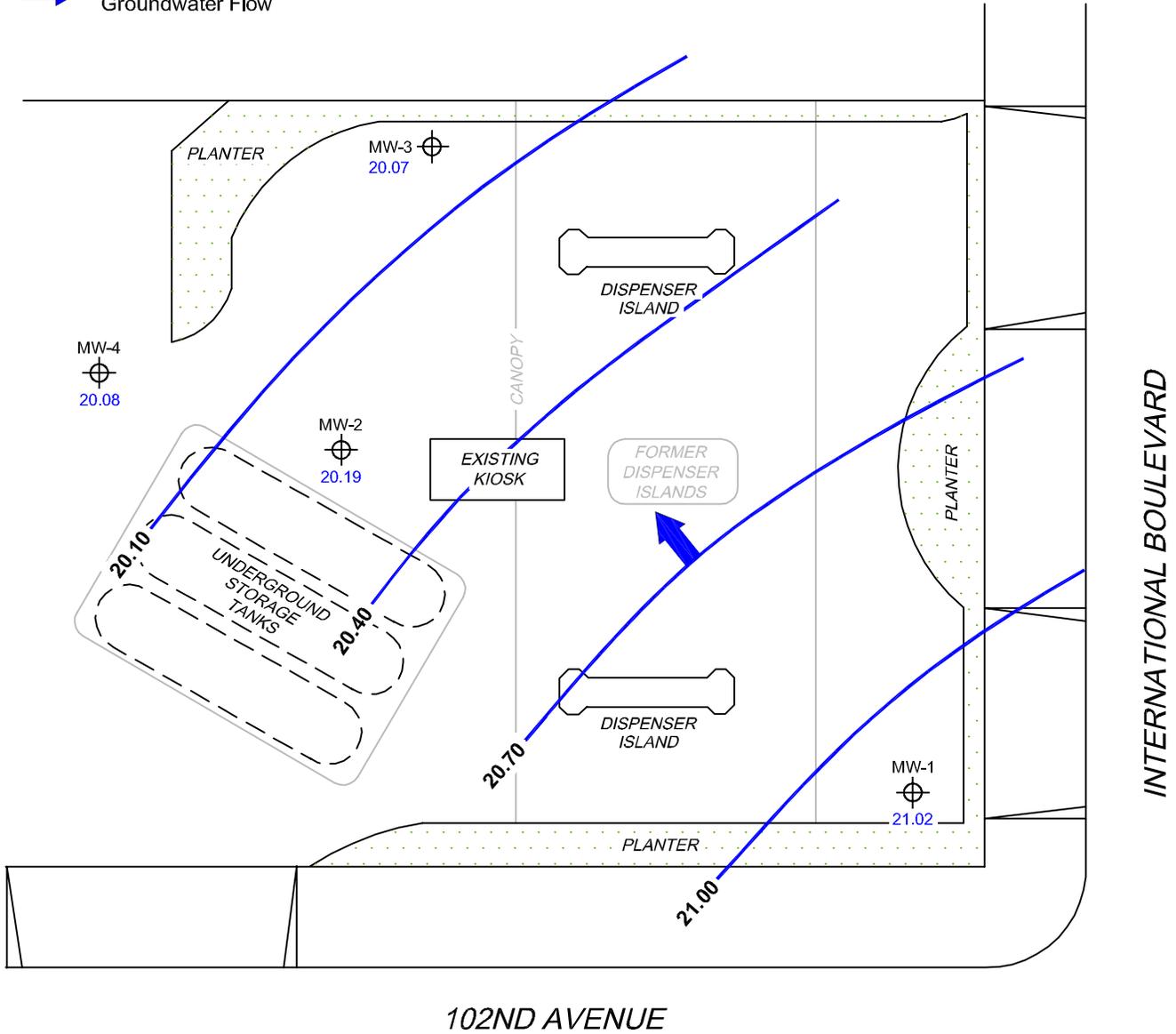
FIGURE 1

**LEGEND**

MW-4  Monitoring Well with Groundwater Elevation ( feet)

**21.00**  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.

SCALE (FEET)



L: \Graphics\QMS NORTH-SOUTH\X-7000\7124+\7124QMS.DWG Jan 29, 2010 - 10:47am bschmidt

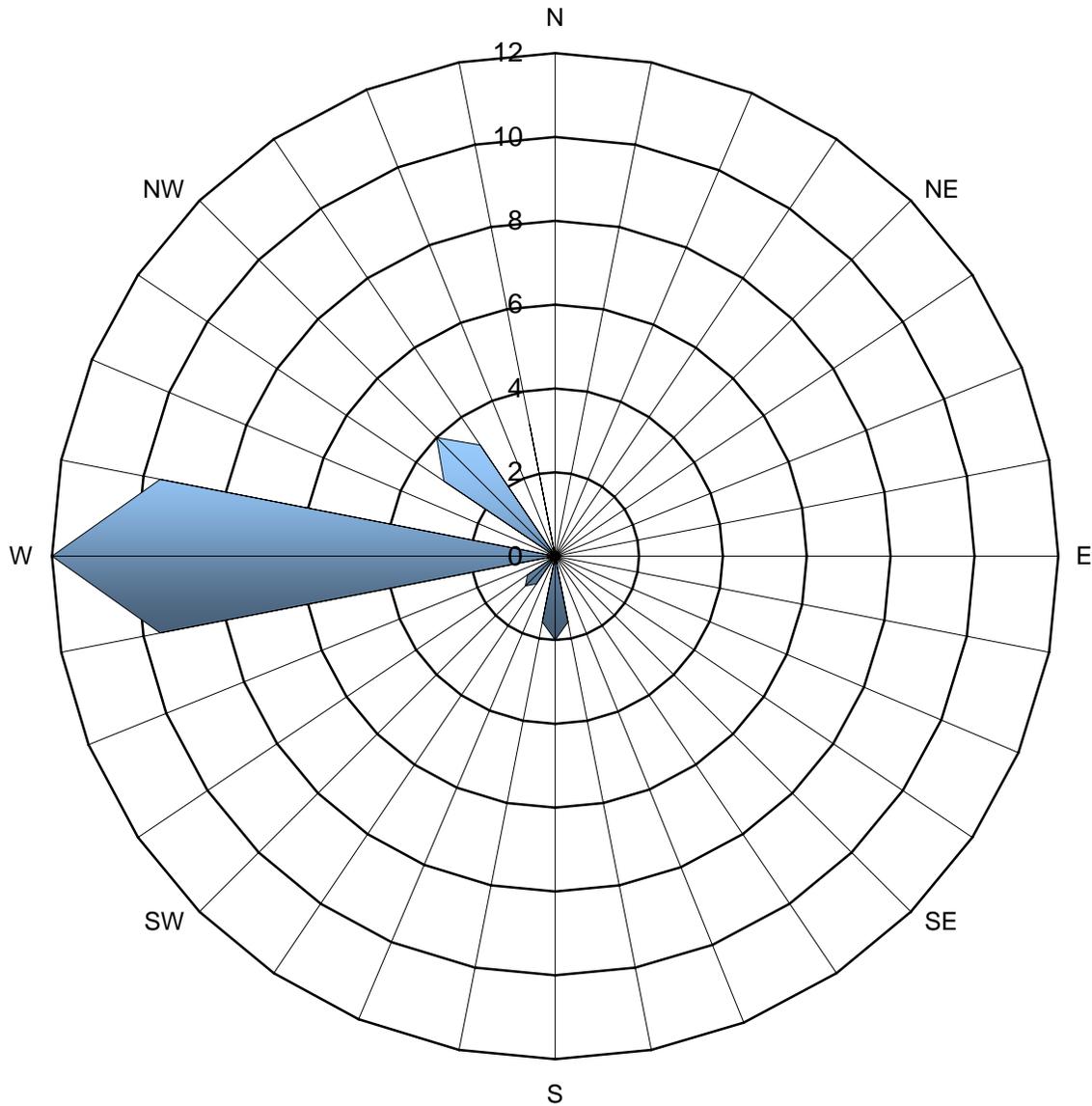
MS=1:1 7124-003



PROJECT: 173845  
 FACILITY:  
 76 STATION 7124  
 10151 INTERNATIONAL BOULEVARD  
 OAKLAND, CALIFORNIA

**GROUNDWATER ELEVATION  
 CONTOUR MAP  
 January 6, 2010**

**FIGURE 2**



**EXPLANATION:**

Concentric circles represent periodic Monitoring Events conducted since Second Quarter, 2005. Pointers indicate the number of times Groundwater Flow has been estimated to be in the general direction shown.

Number of Events: 19

Gradient (feet/foot): Maximum 0.030  
 Minimum 0.001  
 Average 0.012



PROJECT:  
173845

FACILITY:  
76 STATION 7124  
10151 INTERNATIONAL BOULEVARD  
OAKLAND, CALIFORNIA

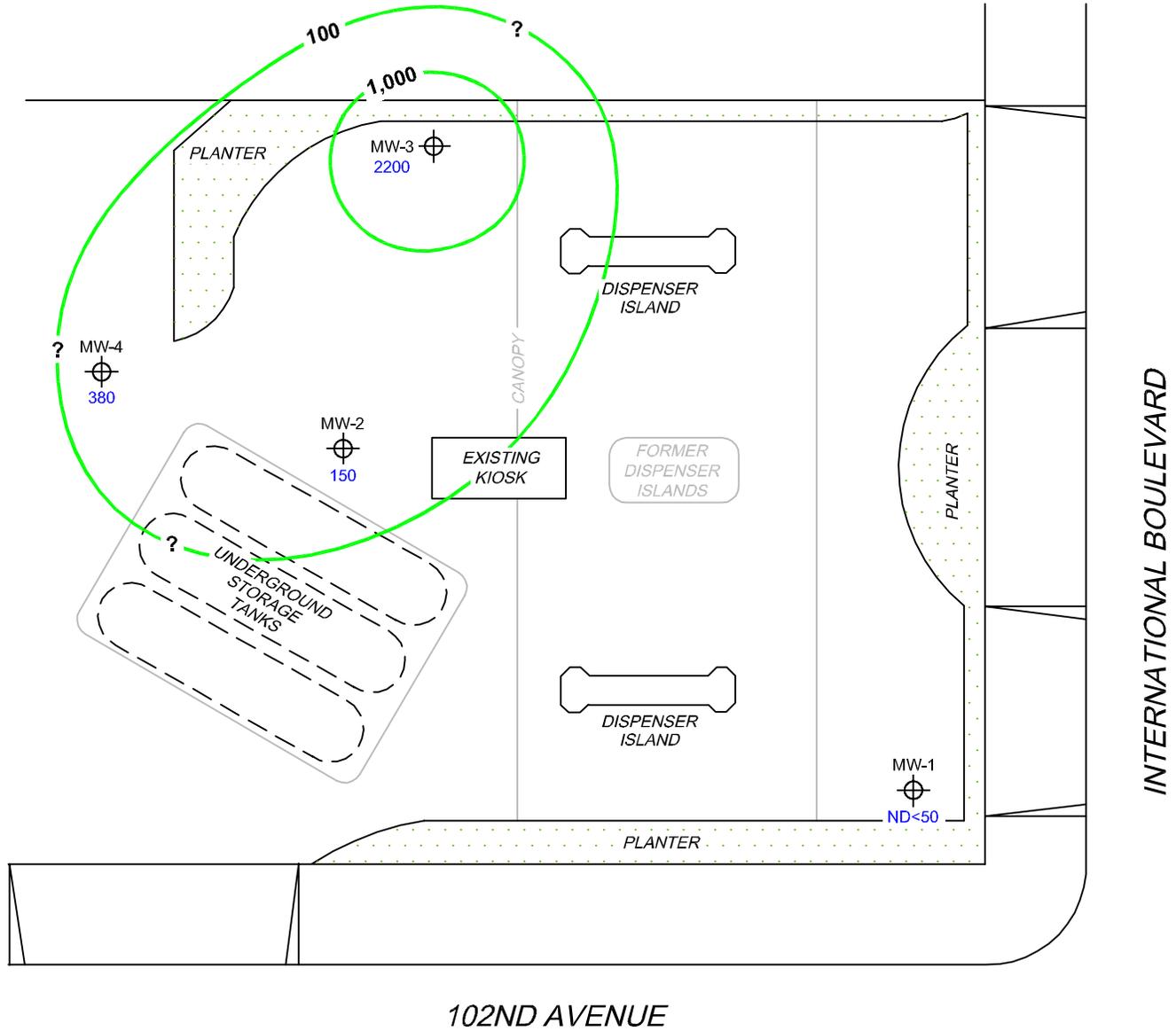
**Historic Groundwater Gradients  
and Flow Directions**

**FIGURE 2A**

**LEGEND**

MW-4  Monitoring Well with Dissolved-Phase TPH-G (GC/MS) Concentration (  $\mu\text{g/l}$  )

 1,000 Dissolved-Phase TPH-G (GC/MS) Contour (  $\mu\text{g/l}$  )



**NOTES:**

Contour lines are interpretive and based on laboratory analysis results of groundwater samples. TPH-G (GC/MS) = total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B.  $\mu\text{g/l}$  = micrograms per liter. ND = not detected at limit indicated on official laboratory report.

SCALE (FEET)



L: \Graphics\QMS NORTH-SOUTH\7000\7124+\7124QMS.DWG Jan 29, 2010 - 10:47am bschmidt

MS=1:1 7124-003



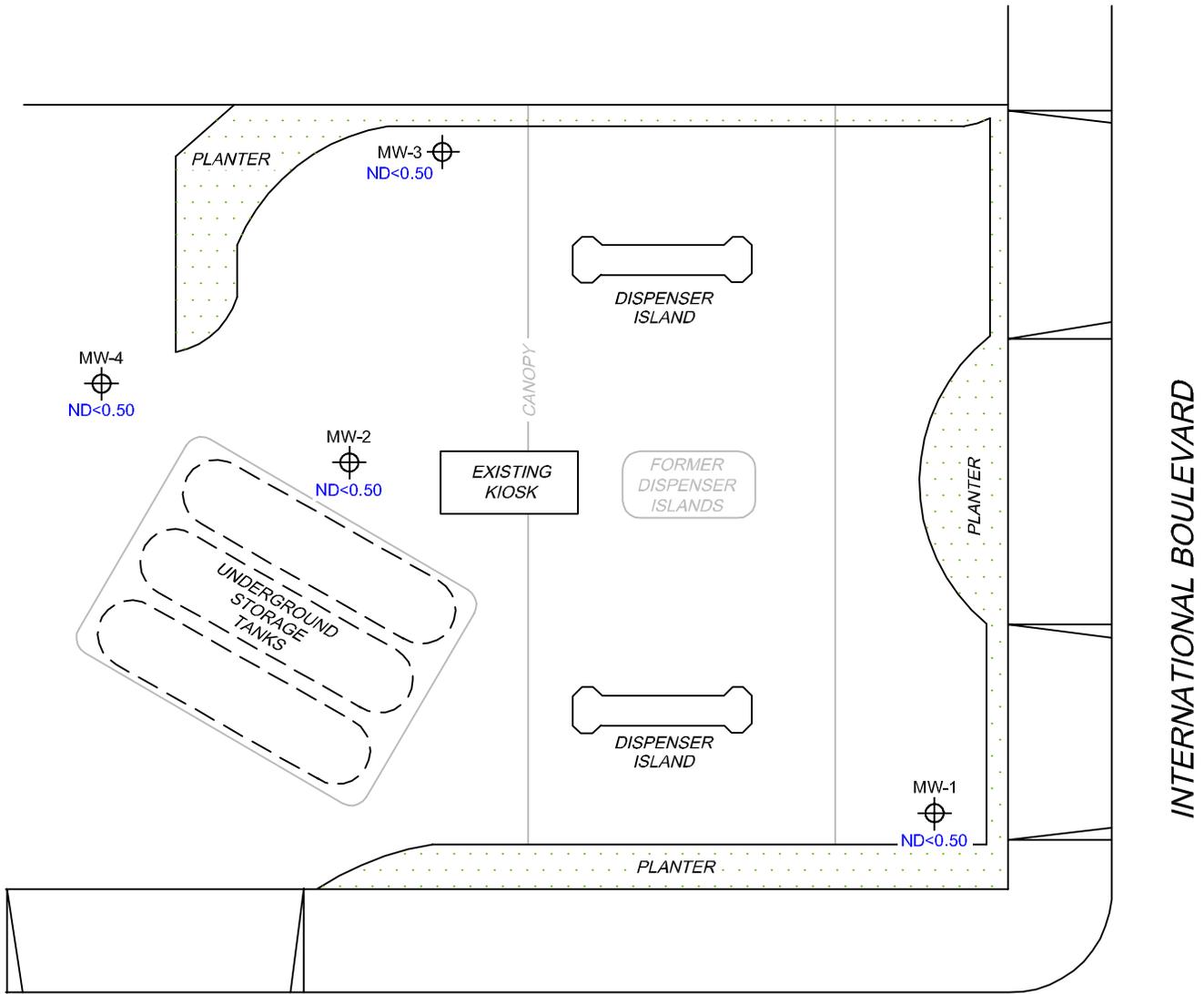
PROJECT: 173845  
 FACILITY:  
 76 STATION 7124  
 10151 INTERNATIONAL BOULEVARD  
 OAKLAND, CALIFORNIA

**DISSOLVED-PHASE TPH-G (GC/MS)  
 CONCENTRATION MAP  
 January 6, 2010**

**FIGURE 3**

**LEGEND**

MW-4  Monitoring Well with Dissolved-Phase Benzene Concentration ( $\mu\text{g/l}$ )



L: \Graphics\QMS NORTH-SOUTH\X-7000\7124+\7124QMS.DWG Jan 29, 2010 - 10:48am bschmidt MS=1:1 7124-003

**NOTES:**

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

SCALE (FEET)



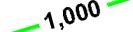
PROJECT: 173845  
 FACILITY:  
 76 STATION 7124  
 10151 INTERNATIONAL BOULEVARD  
 OAKLAND, CALIFORNIA

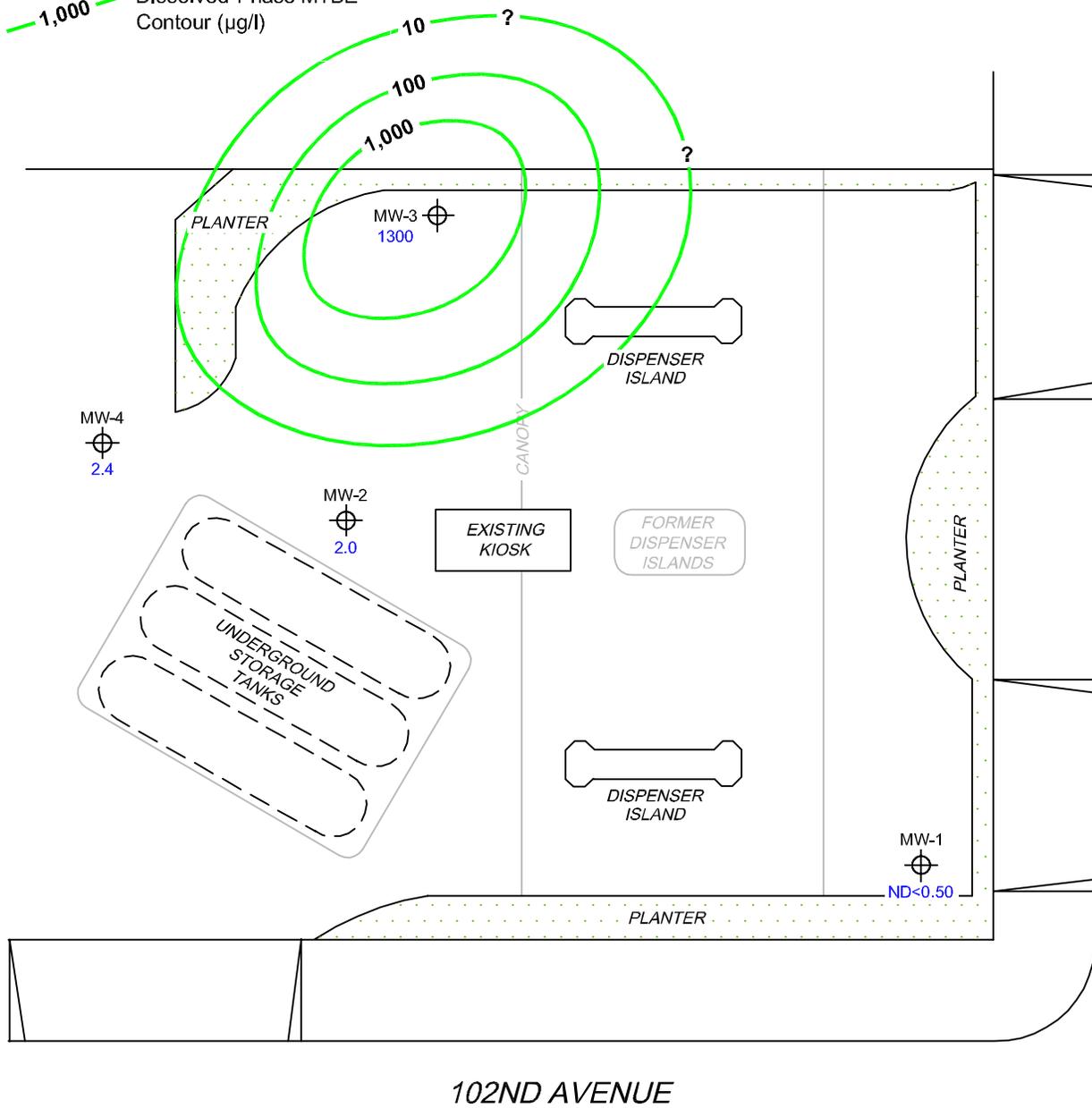
**DISSOLVED-PHASE BENZENE  
 CONCENTRATION MAP  
 January 6, 2010**

**FIGURE 4**

**LEGEND**

MW-4  Monitoring Well with Dissolved-Phase MTBE Concentration ( $\mu\text{g/l}$ )

 1,000 Dissolved-Phase MTBE Contour ( $\mu\text{g/l}$ )



**NOTES:**

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

SCALE (FEET)



L: \Graphics\QMS NORTH-SOUTH\7000\7124+\7124QMS.DWG Jan 29, 2010 - 10:48am bschmidt

MS=1:1 7124-003



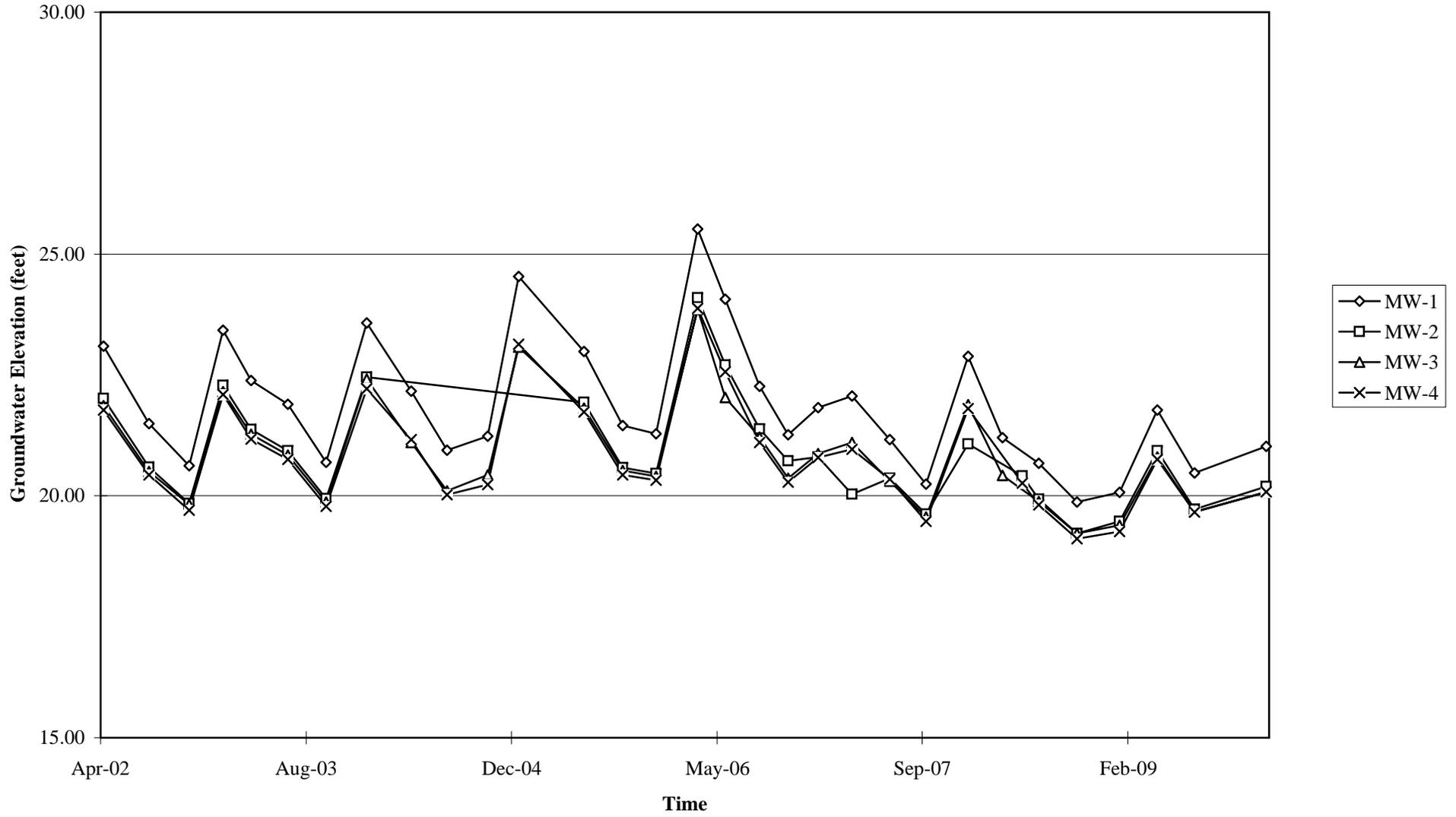
PROJECT: 173845  
 FACILITY:  
 76 STATION 7124  
 10151 INTERNATIONAL BOULEVARD  
 OAKLAND, CALIFORNIA

**DISSOLVED-PHASE MTBE  
 CONCENTRATION MAP  
 January 6, 2010**

**FIGURE 5**

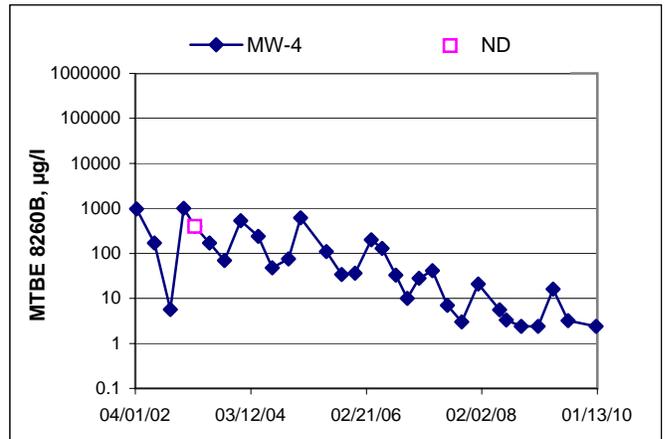
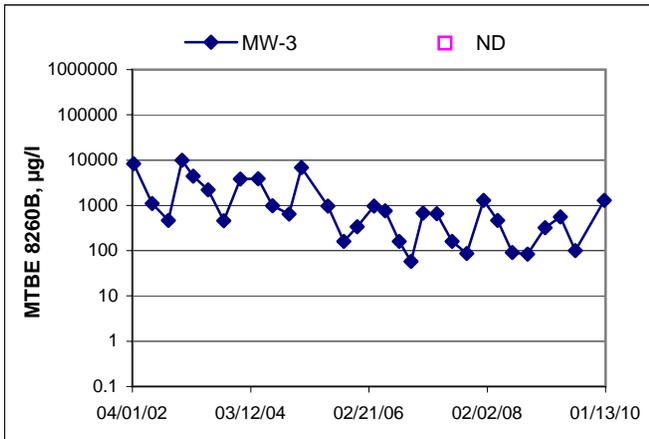
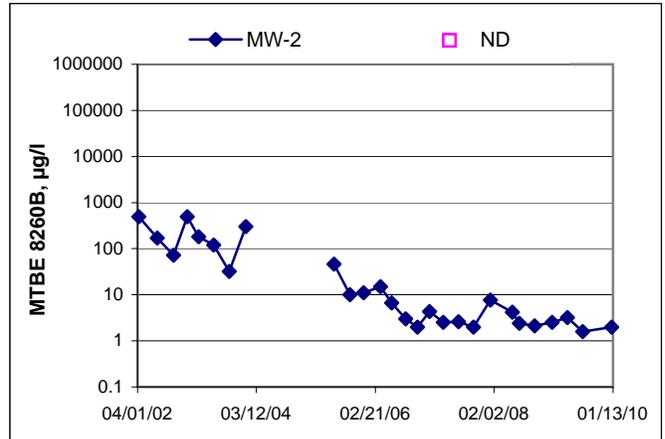
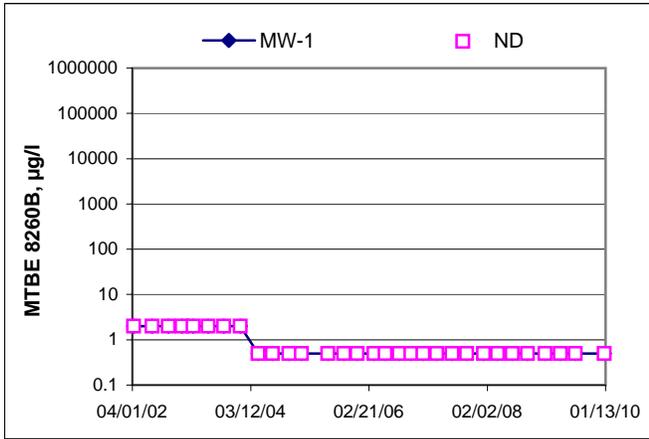
# GRAPHS

Groundwater Elevations vs. Time  
76 Station 7124



Elevations may have been corrected for apparent changes due to resurvey

MTBE 8260B Concentrations vs Time  
76 Station 7124



# GENERAL FIELD PROCEDURES

## **Groundwater Monitoring and Sampling Assignments**

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

## **Fluid Level Measurements**

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

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

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

## **Purging and Groundwater Parameter Measurement**

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

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

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

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

## **Groundwater Sample Collection**

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

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

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

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

## **Sequence of Gauging, Purging and Sampling**

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

## **Decontamination**

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

## **Exceptions**

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



## GROUNDWATER SAMPLING FIELD NOTES

Technician: Basilio

Site: 7124      Project No.: 173845      Date: 1-6-10

Well No. MW-1      Purge Method: Sub  
 Depth to Water (feet): 16.35      Depth to Product (feet): —  
 Total Depth (feet) 24.80      LPH & Water Recovered (gallons): —  
 Water Column (feet): 8.45      Casing Diameter (Inches): 4  
 80% Recharge Depth(feet): 18.04      1 Well Volume (gallons): 6

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, °C)	pH	D.O. (mg/L)	ORP	Turbidity
<b>Pre-Purge</b>									
<u>1127</u>			<u>6</u>	<u>462.2</u>	<u>19.5</u>	<u>7.10</u>			
			<u>12</u>	<u>463.9</u>	<u>19.5</u>	<u>6.90</u>			
	<u>1134</u>		<u>18</u>	<u>469.2</u>	<u>20.1</u>	<u>6.83</u>			
Static at Time Sampled			Total Gallons Purged			Sample Time			
<u>17.10</u>			<u>18</u>			<u>1138</u>			
<b>Comments:</b>									

Well No. MW-2      Purge Method: Sub  
 Depth to Water (feet): 17.68      Depth to Product (feet): —  
 Total Depth (feet) 24.90      LPH & Water Recovered (gallons): —  
 Water Column (feet): 7.22      Casing Diameter (Inches): 4  
 80% Recharge Depth(feet): 19.12      1 Well Volume (gallons): 5

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, °C)	pH	D.O. (mg/L)	ORP	Turbidity
<b>Pre-Purge</b>									
<u>1143</u>			<u>5</u>	<u>511.7</u>	<u>19.8</u>	<u>6.92</u>			
			<u>10</u>	<u>530.5</u>	<u>20.0</u>	<u>6.71</u>			
	<u>1149</u>		<u>15</u>	<u>536.9</u>	<u>20.1</u>	<u>6.68</u>			
Static at Time Sampled			Total Gallons Purged			Sample Time			
<u>19.72</u>			<u>15</u>			<u>1152</u>			
<b>Comments:</b>									

## GROUNDWATER SAMPLING FIELD NOTES

Technician: Baile

Site: 7124      Project No.: 173845      Date: 1-6-09

Well No. MW-4      Purge Method: Sub  
 Depth to Water (feet): 8.28      Depth to Product (feet): —  
 Total Depth (feet) 25.20      LPH & Water Recovered (gallons): —  
 Water Column (feet): 7.22      Casing Diameter (Inches): 4  
 80% Recharge Depth(feet): 19.42      1 Well Volume (gallons): 5

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
<b>Pre-Purge</b>									
<u>1206</u>			<u>5</u>	<u>363.8</u>	<u>20.1</u>	<u>7.17</u>			
			<u>10</u>	<u>451.2</u>	<u>20.1</u>	<u>6.76</u>			
	<u>1213</u>		<u>15</u>	<u>525.6</u>	<u>20.4</u>	<u>6.66</u>			
Static at Time Sampled			Total Gallons Purged			Sample Time			
<u>19.02</u>			<u>15</u>			<u>1220</u>			
<b>Comments:</b>									

Well No. MW-3      Purge Method: Sub  
 Depth to Water (feet): 17.65      Depth to Product (feet): —  
 Total Depth (feet) 25.18      LPH & Water Recovered (gallons): —  
 Water Column (feet): 7.53      Casing Diameter (Inches): 4  
 80% Recharge Depth(feet): 19.15      1 Well Volume (gallons): 5

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F, C)	pH	D.O. (mg/L)	ORP	Turbidity
<b>Pre-Purge</b>									
<u>1227</u>			<u>5</u>	<u>617.5</u>	<u>19.1</u>	<u>6.84</u>			
			<u>10</u>	<u>614.3</u>	<u>19.2</u>	<u>6.66</u>			
	<u>1234</u>		<u>15</u>	<u>625.6</u>	<u>19.2</u>	<u>6.63</u>			
Static at Time Sampled			Total Gallons Purged			Sample Time			
<u>18.40</u>			<u>15</u>			<u>1238</u>			
<b>Comments:</b>									



**Laboratories, Inc.**

Environmental Testing Laboratory Since 1949



Date of Report: 01/11/2010

Anju Farfan

TRC

123 Technology Drive  
Irvine, CA 92618

RE: 7124  
BC Work Order: 1000282  
Invoice ID: B073998

Enclosed are the results of analyses for samples received by the laboratory on 1/6/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers  
Client Service Rep

Authorized Signature



TRC  
123 Technology Drive  
Irvine, CA 92618

Project: 7124  
Project Number: [none]  
Project Manager: Anju Farfan

**Reported:** 01/11/2010 14:27

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			Receive Date:	Sampling Date:	Sample Depth:	Sample Matrix:	Delivery Work Order:
1000282-01	<b>COC Number:</b>	---		01/06/2010 21:25	01/06/2010 11:38	---	Water	Global ID: T0600173591
	<b>Project Number:</b>	7124						Location ID (FieldPoint): MW-1
	<b>Sampling Location:</b>	---						Matrix: W
	<b>Sampling Point:</b>	MW-1						Sample QC Type (SACode): CS
	<b>Sampled By:</b>	TRCI						Cooler ID:
1000282-02	<b>COC Number:</b>	---		01/06/2010 21:25	01/06/2010 11:52	---	Water	Global ID: T0600173591
	<b>Project Number:</b>	7124						Location ID (FieldPoint): MW-2
	<b>Sampling Location:</b>	---						Matrix: W
	<b>Sampling Point:</b>	MW-2						Sample QC Type (SACode): CS
	<b>Sampled By:</b>	TRCI						Cooler ID:
1000282-03	<b>COC Number:</b>	---		01/06/2010 21:25	01/06/2010 12:20	---	Water	Global ID: T0600173591
	<b>Project Number:</b>	7124						Location ID (FieldPoint): MW-4
	<b>Sampling Location:</b>	---						Matrix: W
	<b>Sampling Point:</b>	MW-4						Sample QC Type (SACode): CS
	<b>Sampled By:</b>	TRCI						Cooler ID:
1000282-04	<b>COC Number:</b>	---		01/06/2010 21:25	01/06/2010 12:38	---	Water	Global ID: T0600173591
	<b>Project Number:</b>	7124						Location ID (FieldPoint): MW-3
	<b>Sampling Location:</b>	---						Matrix: W
	<b>Sampling Point:</b>	MW-3						Sample QC Type (SACode): CS
	<b>Sampled By:</b>	TRCI						Cooler ID:



TRC  
123 Technology Drive  
Irvine, CA 92618

Project: 7124  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 01/11/2010 14:27

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1000282-01		Client Sample Name: 7124, MW-1, 1/6/2010 11:38:00AM										
Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 04:46	SVM	MS-V9	1	BTA0202	ND	
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 04:46	SVM	MS-V9	1	BTA0202	ND	
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 04:46	SVM	MS-V9	1	BTA0202	ND	
Ethylbenzene	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 04:46	SVM	MS-V9	1	BTA0202	ND	
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 04:46	SVM	MS-V9	1	BTA0202	ND	
Toluene	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 04:46	SVM	MS-V9	1	BTA0202	ND	
Total Xylenes	ND	ug/L	1.0	EPA-8260	01/07/10	01/08/10 04:46	SVM	MS-V9	1	BTA0202	ND	
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 04:46	SVM	MS-V9	1	BTA0202	ND	
t-Butyl alcohol	ND	ug/L	10	EPA-8260	01/07/10	01/08/10 04:46	SVM	MS-V9	1	BTA0202	ND	
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 04:46	SVM	MS-V9	1	BTA0202	ND	
Ethanol	ND	ug/L	250	EPA-8260	01/07/10	01/08/10 04:46	SVM	MS-V9	1	BTA0202	ND	
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 04:46	SVM	MS-V9	1	BTA0202	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	01/07/10	01/08/10 04:46	SVM	MS-V9	1	BTA0202	ND	
1,2-Dichloroethane-d4 (Surrogate)	107	%	76 - 114 (LCL - UCL)	EPA-8260	01/07/10	01/08/10 04:46	SVM	MS-V9	1	BTA0202		
Toluene-d8 (Surrogate)	104	%	88 - 110 (LCL - UCL)	EPA-8260	01/07/10	01/08/10 04:46	SVM	MS-V9	1	BTA0202		
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)	EPA-8260	01/07/10	01/08/10 04:46	SVM	MS-V9	1	BTA0202		



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123 Technology Drive  
Irvine, CA 92618

Project: 7124  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 01/11/2010 14:27

### Volatile Organic Analysis (EPA Method 8260)

<b>BCL Sample ID:</b> 1000282-02	<b>Client Sample Name:</b> 7124, MW-2, 1/6/2010 11:52:00AM
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Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 05:12	SVM	MS-V9	1	BTA0202	ND	
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 05:12	SVM	MS-V9	1	BTA0202	ND	
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 05:12	SVM	MS-V9	1	BTA0202	ND	
Ethylbenzene	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 05:12	SVM	MS-V9	1	BTA0202	ND	
<b>Methyl t-butyl ether</b>	<b>2.0</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	<b>01/07/10</b>	<b>01/08/10 05:12</b>	<b>SVM</b>	<b>MS-V9</b>	<b>1</b>	<b>BTA0202</b>	<b>ND</b>	
Toluene	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 05:12	SVM	MS-V9	1	BTA0202	ND	
Total Xylenes	ND	ug/L	1.0	EPA-8260	01/07/10	01/08/10 05:12	SVM	MS-V9	1	BTA0202	ND	
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 05:12	SVM	MS-V9	1	BTA0202	ND	
t-Butyl alcohol	ND	ug/L	10	EPA-8260	01/07/10	01/08/10 05:12	SVM	MS-V9	1	BTA0202	ND	
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 05:12	SVM	MS-V9	1	BTA0202	ND	
Ethanol	ND	ug/L	250	EPA-8260	01/07/10	01/08/10 05:12	SVM	MS-V9	1	BTA0202	ND	
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 05:12	SVM	MS-V9	1	BTA0202	ND	
<b>Total Purgeable Petroleum Hydrocarbons</b>	<b>150</b>	<b>ug/L</b>	<b>50</b>	<b>Luft-GC/MS</b>	<b>01/07/10</b>	<b>01/08/10 05:12</b>	<b>SVM</b>	<b>MS-V9</b>	<b>1</b>	<b>BTA0202</b>	<b>ND</b>	
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)	EPA-8260	01/07/10	01/08/10 05:12	SVM	MS-V9	1	BTA0202		
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)	EPA-8260	01/07/10	01/08/10 05:12	SVM	MS-V9	1	BTA0202		
4-Bromofluorobenzene (Surrogate)	97.2	%	86 - 115 (LCL - UCL)	EPA-8260	01/07/10	01/08/10 05:12	SVM	MS-V9	1	BTA0202		



TRC  
123 Technology Drive  
Irvine, CA 92618

Project: 7124  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 01/11/2010 14:27

### Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1000282-03		Client Sample Name: 7124, MW-4, 1/6/2010 12:20:00PM										
Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 05:38	SVM	MS-V9	1	BTA0202	ND	
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 05:38	SVM	MS-V9	1	BTA0202	ND	
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 05:38	SVM	MS-V9	1	BTA0202	ND	
Ethylbenzene	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 05:38	SVM	MS-V9	1	BTA0202	ND	
<b>Methyl t-butyl ether</b>	<b>2.4</b>	<b>ug/L</b>	<b>0.50</b>	<b>EPA-8260</b>	<b>01/07/10</b>	<b>01/08/10 05:38</b>	<b>SVM</b>	<b>MS-V9</b>	<b>1</b>	<b>BTA0202</b>	<b>ND</b>	
Toluene	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 05:38	SVM	MS-V9	1	BTA0202	ND	
Total Xylenes	ND	ug/L	1.0	EPA-8260	01/07/10	01/08/10 05:38	SVM	MS-V9	1	BTA0202	ND	
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 05:38	SVM	MS-V9	1	BTA0202	ND	
t-Butyl alcohol	ND	ug/L	10	EPA-8260	01/07/10	01/08/10 05:38	SVM	MS-V9	1	BTA0202	ND	
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 05:38	SVM	MS-V9	1	BTA0202	ND	
Ethanol	ND	ug/L	250	EPA-8260	01/07/10	01/08/10 05:38	SVM	MS-V9	1	BTA0202	ND	
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 05:38	SVM	MS-V9	1	BTA0202	ND	
<b>Total Purgeable Petroleum Hydrocarbons</b>	<b>380</b>	<b>ug/L</b>	<b>50</b>	<b>Luft-GC/MS</b>	<b>01/07/10</b>	<b>01/08/10 05:38</b>	<b>SVM</b>	<b>MS-V9</b>	<b>1</b>	<b>BTA0202</b>	<b>ND</b>	
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)	EPA-8260	01/07/10	01/08/10 05:38	SVM	MS-V9	1	BTA0202		
Toluene-d8 (Surrogate)	105	%	88 - 110 (LCL - UCL)	EPA-8260	01/07/10	01/08/10 05:38	SVM	MS-V9	1	BTA0202		
4-Bromofluorobenzene (Surrogate)	97.4	%	86 - 115 (LCL - UCL)	EPA-8260	01/07/10	01/08/10 05:38	SVM	MS-V9	1	BTA0202		



TRC  
123 Technology Drive  
Irvine, CA 92618

Project: 7124  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 01/11/2010 14:27

## Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	1000282-04		Client Sample Name:	7124, MW-3, 1/6/2010 12:38:00PM								
Constituent	Result	Units	PQL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 06:03	SVM	MS-V9	1	BTA0202	ND	
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 06:03	SVM	MS-V9	1	BTA0202	ND	
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 06:03	SVM	MS-V9	1	BTA0202	ND	
Ethylbenzene	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 06:03	SVM	MS-V9	1	BTA0202	ND	
<b>Methyl t-butyl ether</b>	<b>1300</b>	<b>ug/L</b>	<b>10</b>	<b>EPA-8260</b>	<b>01/07/10</b>	<b>01/08/10 14:56</b>	<b>SVM</b>	<b>MS-V9</b>	<b>20</b>	<b>BTA0202</b>	<b>ND</b>	<b>A01</b>
Toluene	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 06:03	SVM	MS-V9	1	BTA0202	ND	
Total Xylenes	ND	ug/L	1.0	EPA-8260	01/07/10	01/08/10 06:03	SVM	MS-V9	1	BTA0202	ND	
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 06:03	SVM	MS-V9	1	BTA0202	ND	
t-Butyl alcohol	ND	ug/L	10	EPA-8260	01/07/10	01/08/10 06:03	SVM	MS-V9	1	BTA0202	ND	
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 06:03	SVM	MS-V9	1	BTA0202	ND	
Ethanol	ND	ug/L	250	EPA-8260	01/07/10	01/08/10 06:03	SVM	MS-V9	1	BTA0202	ND	
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	01/07/10	01/08/10 06:03	SVM	MS-V9	1	BTA0202	ND	
<b>Total Purgeable Petroleum Hydrocarbons</b>	<b>2200</b>	<b>ug/L</b>	<b>50</b>	<b>Luft-GC/MS</b>	<b>01/07/10</b>	<b>01/08/10 06:03</b>	<b>SVM</b>	<b>MS-V9</b>	<b>1</b>	<b>BTA0202</b>	<b>ND</b>	
1,2-Dichloroethane-d4 (Surrogate)	108	%	76 - 114 (LCL - UCL)	EPA-8260	01/07/10	01/08/10 06:03	SVM	MS-V9	1	BTA0202		
1,2-Dichloroethane-d4 (Surrogate)	92.7	%	76 - 114 (LCL - UCL)	EPA-8260	01/07/10	01/08/10 14:56	SVM	MS-V9	20	BTA0202		
Toluene-d8 (Surrogate)	113	%	88 - 110 (LCL - UCL)	EPA-8260	01/07/10	01/08/10 06:03	SVM	MS-V9	1	BTA0202		S09
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)	EPA-8260	01/07/10	01/08/10 14:56	SVM	MS-V9	20	BTA0202		
4-Bromofluorobenzene (Surrogate)	95.7	%	86 - 115 (LCL - UCL)	EPA-8260	01/07/10	01/08/10 14:56	SVM	MS-V9	20	BTA0202		
4-Bromofluorobenzene (Surrogate)	137	%	86 - 115 (LCL - UCL)	EPA-8260	01/07/10	01/08/10 06:03	SVM	MS-V9	1	BTA0202		S09



TRC  
123 Technology Drive  
Irvine, CA 92618

Project: 7124  
Project Number: [none]  
Project Manager: Anju Farfan

Reported: 01/11/2010 14:27

## Volatile Organic Analysis (EPA Method 8260)

### Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
										RPD	Percent Recovery	
Benzene	BTA0202	Matrix Spike	1000228-09	ND	25.402	25.000	ug/L		102		70 - 130	
		Matrix Spike Duplicate	1000228-09	ND	25.538	25.000	ug/L	0.5	102	20	70 - 130	
Toluene	BTA0202	Matrix Spike	1000228-09	ND	26.298	25.000	ug/L		105		70 - 130	
		Matrix Spike Duplicate	1000228-09	ND	26.222	25.000	ug/L	0.3	105	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BTA0202	Matrix Spike	1000228-09	ND	10.050	10.000	ug/L		100		76 - 114	
		Matrix Spike Duplicate	1000228-09	ND	10.065	10.000	ug/L		101		76 - 114	
Toluene-d8 (Surrogate)	BTA0202	Matrix Spike	1000228-09	ND	10.247	10.000	ug/L		102		88 - 110	
		Matrix Spike Duplicate	1000228-09	ND	10.114	10.000	ug/L		101		88 - 110	
4-Bromofluorobenzene (Surrogate)	BTA0202	Matrix Spike	1000228-09	ND	10.045	10.000	ug/L		100		86 - 115	
		Matrix Spike Duplicate	1000228-09	ND	10.130	10.000	ug/L		101		86 - 115	



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## Volatile Organic Analysis (EPA Method 8260)

### Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Benzene	BTA0202	BTA0202-BS1	LCS	25.233	25.000	0.50	ug/L	101		70 - 130		
Toluene	BTA0202	BTA0202-BS1	LCS	26.899	25.000	0.50	ug/L	108		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTA0202	BTA0202-BS1	LCS	9.8877	10.000		ug/L	98.9		76 - 114		
Toluene-d8 (Surrogate)	BTA0202	BTA0202-BS1	LCS	10.243	10.000		ug/L	102		88 - 110		
4-Bromofluorobenzene (Surrogate)	BTA0202	BTA0202-BS1	LCS	10.266	10.000		ug/L	103		86 - 115		



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## Volatile Organic Analysis (EPA Method 8260)

### Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BTA0202	BTA0202-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BTA0202	BTA0202-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BTA0202	BTA0202-BLK1	ND	ug/L	0.50		
Ethylbenzene	BTA0202	BTA0202-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BTA0202	BTA0202-BLK1	ND	ug/L	0.50		
Toluene	BTA0202	BTA0202-BLK1	ND	ug/L	0.50		
Total Xylenes	BTA0202	BTA0202-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BTA0202	BTA0202-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BTA0202	BTA0202-BLK1	ND	ug/L	10		
Diisopropyl ether	BTA0202	BTA0202-BLK1	ND	ug/L	0.50		
Ethanol	BTA0202	BTA0202-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BTA0202	BTA0202-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BTA0202	BTA0202-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BTA0202	BTA0202-BLK1	98.1	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTA0202	BTA0202-BLK1	99.0	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTA0202	BTA0202-BLK1	99.8	%	86 - 115 (LCL - UCL)		



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**Notes And Definitions**

- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- S09 The surrogate recovery on the sample for this compound was not within the control limits.

Submission #: 1000282

SHIPPING INFORMATION

Federal Express  UPS  Hand Delivery

BC Lab Field Service  Other  (Specify) \_\_\_\_\_

SHIPPING CONTAINER

Ice Chest  None

Box  Other  (Specify) \_\_\_\_\_

Refrigerant: Ice  Blue ice  None  Other  Comments:

Custody Seals Ice Chest  Containers  None  Comments:

Intact? Yes  No  Intact? Yes  No

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

COC Received

YES  NO

Emissivity: 0.98 Container: 502 Thermometer ID: TH103

Temperature: A 23 °C / C 23 °C

Date/Time 1-10-10 2132

Analyst Init JAW

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										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A.3	A.3	A.3	A.3						
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 503										
QT EPA 508/608/8680										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:

Sample Numbering Completed By: AMB Date/Time: 1/7/10-1240

A = Actual C = Corrected

**BC LABORATORIES, INC.**

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

CHK BY	DISTRIBUTION
<i>[Signature]</i>	<input type="checkbox"/>
	SUB-OUT <input type="checkbox"/>

**CHAIN OF CUSTODY**

**#1000282**

**Analysis Requested**

Bill to: Conoco Phillips/ TRC		Consultant Firm: TRC		MATRIX (GW) Ground-water (S) Soil (WW) Waste-water (SL) Sludge	BTEX/MTBE by 8021B, Gas by 8015 TPH GAS by 8015M TPH DIESEL by 8015 8260 full list w/ oxygenates BTEX/MTBE/OXYS BY 8260B ETHANOL by 8260B ENB/E1C/E4B/E6B TPH -G by GC/MS	Turnaround Time Requested
Address: 10151 International Blvd.		21 Technology Drive Irvine, CA 92618-2302 Attn: Anju Farfan				
City: Oakland		4-digit site#: 7124 Workorder # 01634				
State: CA Zip:		Project #: 173845				
Conoco Phillips Mgr: Terry [Signature]		Sampler Name: Raulio				
Lab#	Sample Description	Field Point Name	Date & Time Sampled			
1		MW-1	1-6-10 1138	GW		X X X
2		MW-2	1 1152	↓		↓ ↓ ↓
3		MW-4	1 1220	↓		↓ ↓ ↓
4		MW-3	1 1238	↓		↓ ↓ ↓

Comments:  GLOBAL ID:  T0600173591	Relinquished by: (Signature) <i>[Signature]</i>	Received by: Ross Widney	Date & Time 1/6/10 1340
	Relinquished by: (Signature) Ross Widney 1/6/10	Received by: R. [Signature]	Date & Time 1-6-10 1815
	Relinquished by: (Signature) R. [Signature] 1-6-10 2125	Received by: <i>[Signature]</i>	Date & Time 1/6 2125

## **STATEMENTS**

### **Purge Water Disposal**

Non-hazardous groundwater produced during purging and sampling of monitoring wells is accumulated at TRC's groundwater monitoring field office at Concord, California, for transportation by a licensed carrier to an authorized disposal facility. Currently, non-hazardous purge water is transported under a bulk non-hazardous waste manifest to Crosby and Overton, Inc. in Long Beach, California.

### **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.