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1:54 pm, Oct 30, 2009

Alameda County Environmental Health



October 26, 2009

Sacramento, California 95818

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

Re:

Semi-Annual Summary Report—Third Quarter 2009 76 Service Station # 0018 RO # 0243 6201 Claremont Ave.
Oakland, CA

Dear Ms. Jakub:

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

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

Sincerely,

Terry L. Grayson Site Manager

Risk Management & Remediation

October 22, 2009

Ms. Barbara Jakub Alameda County Health Care Services 1131 Harbor Bay Parkway Alameda, California 94502-6577

RE: Semi-Annual Summary Report - Third Quarter 2009

Delta Project No.: C1Q-0018-106

ACEH Case No: RO243

DELTA

Dear Ms. Jakub:

On behalf of ConocoPhillips (COP), Delta Consultants (Delta) is forwarding the quarterly summary report for the following location:

Service Station

Location

ConocoPhillips Site No. 0018

6201 Claremont

Avenue

Oakland, California

GIONAL GEO

LIA HOLDEN No. 8584

Sincerely,

Delta Consultants

Evan Chantikian Senior Staff Geologist

Lia Holden, PG #8584 Geologist—Project Manager

Cc: Mr. Terry Grayson - ConocoPhillips (electronic copy only)



PREVIOUS ASSESSMENT ACTIVITIES

March 1997 Kaprealian Engineering Inc. (KEI) collected nine soil and one grab groundwater sample during UST and product line replacement activities. One soil sample collected from the UST excavation contained 2.6 milligrams per kilograms (mg/kg) of total petroleum hydrocarbons as gasoline (TPH-G). Another soil sample collected from beneath a dispenser island contained 1.4 mg/kg TPH-G, 0.012 mg/kg benzene, and 1.4 mg/kg methyl tertiary butyl ether (MTBE). The groundwater sample collected from the UST excavation contained 6,100 micrograms per liter (μg/L) of TPH-G and 54 μg/L benzene. (KEI, 1997)

March 1998 Tosco was issued a Notice of Responsibility by Alameda County Health Care Services (ACHCS).

<u>July 2000</u> Gettler-Ryan Inc. (GR) installed three groundwater monitoring wells (MW-1 through MW-3) to depths of 30 feet below ground surface (bgs). Five soil samples were collected from the borings for the wells. Sample MW-1-25.5, from a depth of 25.5 foot bgs, contained 19 mg/kg of TPH-G and 0.018 mg/kg of benzene. Initial groundwater samples contained low (\leq 120 micrograms per liter (ug/l)) concentrations of TPH-G, benzene, and MTBE.

November 2000 A quarterly monitoring program, utilizing the three on-site monitoring wells (MW-1 through MW-3), was initiated. (GR, 2000)

October 2003 Site environmental consulting responsibilities were transferred to TRC.

<u>January 2006</u> TRC completed a *No Further Action Required Report - Request for Closure*.

April 2006 TRC completed a sensitive receptor survey.

October 2007 Site environmental consulting responsibilities were transferred to Delta Consultants.

SENSITIVE RECEPTORS

A sensitive receptor survey for the site was conducted in April 2006. According to the Department of Water Resources (DWR) records, no water supply wells are located within a one-half mile radius of the site (TRC, 2006).

REMEDIATION STATUS

Remediation is not currently being conducted at the site.

MONITORING AND SAMPLING

The groundwater monitoring well network, consisting of three on-site monitoring wells, was been monitored and sampled on a quarterly basis between fourth quarter 2000 and first quarter 2009. Following the first quarter 2009 sampling event, the monitoring and sampling frequency of wells at this site was reduced to semi-annual, to be conducted during the first and third quarters. During the most recent groundwater sampling event conducted on September 30, 2009, reported depth to groundwater ranged from

20.84 feet (MW-1) to 22.22 feet (MW-2) below top of casing (TOC), with a 5.17 feet average decrease in groundwater elevation across the site. Groundwater elevation beneath the site typically fluctuates by approximately 5 feet annually.

The groundwater flow direction during the third quarter 2009 was reported southwest at a gradient of 0.01 feet per feet (ft/ft). This is mainly consistent with a gradient of 0.01 ft/ft south during the previous sampling event (March 27, 2009). Reported historical groundwater flow direction has been primarily to the southwest.

During the third quarter 2009, groundwater samples were collected from all three on-site wells (MW-1, MW-2, and MW-3). Samples were analyzed for TPH-G by GC/MS; benzene, toluene, ethyl-benzene and xylenes (BTEX), MTBE, and ethanol by US Environmental Protection Agency (EPA) Method 8260. In addition, well MW-1 was also analyzed for oxygenates (tertiary butyl alcohol (TBA), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME), and di-isopropyl ether (DIPE)), 1,2-dichloroethane (1,2-DCA), and ethylene dibromide (EDB) by EPA Method 8260.

All analytes except TPH-G and MTBE were below the laboratory reporting limits for third quarter samples. During the third quarter 2009, TPH-G and MTBE were reported in well MW-1 only, with concentrations of 62 μ g/l and 14 μ g/l, respectively. The MTBE concentration in well MW-1 has been below 20 μ g/L for the past eleven consecutive sampling events. The maximum historical MTBE concentration detected in MW-1 was 150 μ g/L in February and August 2001. MTBE has never been detected in well MW-2, and has only been detected sporadically in well MW-3. The most recent detection of MTBE in well MW-3 was at a concentration of 3.4 μ g/L (September 2006). Benzene was not detected in any of the three wells during the first quarter 2009 sampling event. Benzene has not been detected in any site well since at 2005.

CONCLUSIONS AND RECOMMENDATIONS

Currently, TPH-G and MTBE concentrations are only present in well MW-1 and continue to fluctuate with seasonal variation in groundwater elevation; however there is no clear correlation between groundwater elevation and higher or lower concentrations of TPH-G and MTBE. Historic data shows that MTBE and TPH-G concentrations have remained fairly stable overall since 2005. Since the third quarter of 2005, TPH-G and MTBE concentrations in MW-1 show respective maximum concentration of 570 μ g/L and 18 μ g/L, while current concentrations are

In Delta's Site Conceptual Model (SCM) dated September 12, 2008 Delta proposed the advancement of two soil borings in the location of the former UST pit and the collection of soil samples. Delta also recommended collection of a groundwater sample southwest of the site. The purpose of this investigation is to fill data gaps in the former UST footprint and downgradient of well MW-1 in order to request case closure.

Delta submitted a *Work Plan for Additional Assessment*, dated July 6, 2009, further detailing the soil borings proposed in the September 2008 SCM.

At this time, Delta recommends continued groundwater monitoring on a semiannual basis, pending results of the additional investigation proposed in Delta's July 2009 work plan. Groundwater samples from the site wells have never been reported to contain TBA, ETBE, TAME, DIPE 1,2-DCA, EDB or ethanol, with the exception of November 23, 2004, at which time TBA was reported in MW-1 at a concentration of 7.4 μ g/l. **Delta recommends discontinuing analysis of TBA. Delta also recommends discontinuing analysis of ETBE, TAME, DIPE 1,2-DCA, EDB or ethanol, as they have not historically been detected in groundwater samples from site wells.**

Following completion of the scope proposed Delta's July 2009 work plan, contingent upon the analytical results of samples gathered during the investigation, Delta will either make recommendations for further assessment, or request final case closure.

RECENT CORRESPONDENCE

In correspondence dated July 24, 2009, the ACEH requested that groundwater monitoring and sampling frequency of this site be reduced from quarterly to semi-annual.

In correspondence dated August 13, 2009, the ACEH approved the general scope of Delta's Work Plan for Additional Assessment, dated July 6.

In email correspondence dated September 23, 2009, Delta notified the ACEH of the work dates scheduled to complete the work proposed in Delta's *Work Plan for Additional Assessment*, dated July 6, 2009.

THIS QUARTER'S ACTIVITIES (Third Quarter 2009)

- TRC performed the Third Quarter 2009 semi-annual monitoring and sampling event, and prepared a semi-annual monitoring report.
- Delta prepared and submitted a Work Plan for Additional Assessment, dated July 6, 2009.

NEXT QUARTER'S ACTIVITIES (Fourth Quarter 2009)

- Delta submitted the fourth quarter status report for 2009.
- Delta to oversee the work proposed in Delta's Work Plan for Additional Assessment, dated July 6, 2009, and to prepare and submit an assessment report.

REMARKS

The descriptions, conclusions, and recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. For any reports cited that were not generated by Delta, the data from those reports is used "as is" and is assumed to be accurate. Delta does not guarantee the accuracy of this data for the referenced work performed nor the inferences or conclusions stated in these reports. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were conducted. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report.

CONSULTANT: Delta Consultants

REFERENCES CITED

- Kaprealian Engineering Incorporated, Soil and Ground Water Sampling Report, Unocal Service Station #0018, 6201 Claremont Avenue, Oakland, California, April 17, 1997.
- Aalmeda County Health Care Services, Notice of Responsibility, Unocal Station #0018, 6201 Claremont Avenue, Oakland, CA, 94619, March 18, 1998
- Gettler-Ryan Inc., Well Installation Report, Tosco (76) Service Station No. 0018, 6201 Claremont Avenue, Oakland, California, December 18, 2000.
- Gettler-Ryan Inc., Fourth Quarter 2000 Groundwater Monitoring & Sampling Report, Tosco (76) Service Station No. 0018, 6201 Claremont Avenue, Oakland, California, December 18, 2000.
- TRC, No Further Action Required Report Request For Closure, 76 Service Station #0018, 6201 Claremont Avenue, Oakland, CA, Alameda County, January 6, 2006.
- TRC, Sensitive Receptor Survey, 76 Service Station # 0018, 6201 Claremont Ave., Oakland, California, April 24, 2006.
- TRC, Semi-Annual Monitoring Report, April through September 2009, 76 Service Station #0018, 6201 Claremont Avenue, Oakland, California, October 20, 2009.



21 Technology Drive Irvine, CA 92618

949.788.9990 PHONE 949.788.9995 FAX

www.TRCsolutions.com

DATE:

October 20, 2009

TO:

ConocoPhillips Company

76 Broadway

Sacramento, CA 95818

ATTN:

MR. TERRY GRAYSON

SITE:

76 STATION 0018

6201 CLAREMONT AVENUE OAKLAND, CALIFORNIA

RE:

SEMI-ANNUAL MONITORING REPORT

APRIL THROUGH SEPTEMBER 2009

Dear Mr. Grayson:

Please find enclosed our Semi-Annual Monitoring Report for 76 Station 0018, located at 6201 Claremont Avenue, Oakland, California. If you have any questions regarding this report, please call us at (949) 727-9336.

Sincerely,

TRC

Anju Farfan A

Groundwater Program Operations Manager

CC: Ms Lia Holden, Delta Consultants (4 copies)

Enclosures 20-0400/0018R23 QMS

SEMI-ANNUAL MONITORING REPORT APRIL THROUGH SEPTEMBER 2009

76 STATION 0018 6201 Claremont Avenue Oakland, California

Prepared For:

Mr Terry Grayson CONOCOPHILLIPS COMPANY 76 Broadway Sacramento, California 95818

By:

Senior Project Geologist, Irvine Operations

Date: 10/14/09



	LIST OF ATTACHMENTS
Summary Sheet	Summary of Gauging and Sampling Activities
Tables	Table Key Contents of Tables Table 1: Current Fluid Levels and Selected Analytical Results Table 1a: Additional Current Analytical Results Table 2: Historic Fluid Levels and Selected Analytical Results Table 2a: Additional Historic Analytical Results
Figures	Figure 1: Vicinity Map Figure 2: Groundwater Elevation Contour Map Figure 3: Dissolved-Phase TPH-G (GC/MS) Concentration Map Figure 4: Dissolved-Phase MTBE Concentration Map
Graphs	Groundwater Elevations vs. Time Benzene Concentrations vs. Time
Field Activities	General Field Procedures Field Monitoring Data Sheet – 09/30/09 Groundwater Sampling Field Notes – 09/30/09
Laboratory Reports	Official Laboratory Reports Quality Control Reports Chain of Custody Records
Disposal Documents	Disposal/Treatment Manifest – Current (Pending)
Statements	Purge Water Disposal Limitations

Summary of Gauging and Sampling Activities April 2009 through September 2009 76 Station 0018 6201 Claremont Avenue Oakland, CA

Project Coordinator: Terry Grayson	Water Sampling Contractor: <i>TRC</i>
Telephone: 916-558-7666	Compiled by: Christina Carrillo
Date(s) of Gauging/Sampling Event: 09/30/09	
Sample Points	
Groundwater wells: 3 onsite, 0 offsite	Points gauged: 3 Points sampled: 3
Purging method: Submersible pump	
Purge water disposal: Crosby and Overton treat	ment facility
Other Sample Points: 0 Type:	
Liquid Phase Hydrocarbons (LPH)	
Sample Points with LPH: 0 Maximum thickness	•
LPH removal frequency:	Method:
Treatment or disposal of water/LPH:	
Hydrogeologic Parameters	
Depth to groundwater (below TOC): Minimum:	20.84 feet Maximum: 22.22 feet
Average groundwater elevation (relative to available	•
Average change in groundwater elevation since prev	
Interpreted groundwater gradient and flow direction	:
Current event: 0.01 ft/ft, southwest	A
Previous event: 0.01 ft/ft, south (03/27/09)
Selected Laboratory Results	
•	ample Points above MCL (1.0 µg/l):
Maximum reported benzene concentration:	
Sample Points with TPH-G by GC/MS 1	Maximum: 62 μg/l (MW-1)
Sample Points with MTBE 8260B 1	Maximum: 14 μg/I (MW-1)
Notes:	

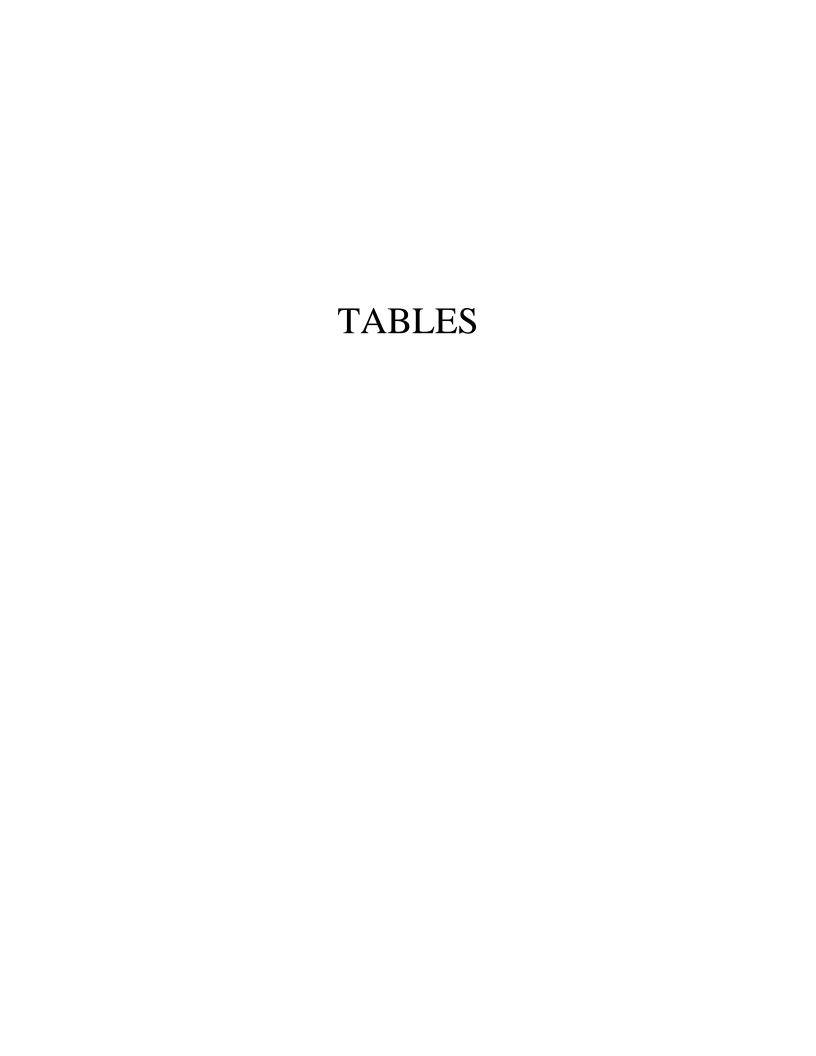


TABLE KEY

STANDARD ABBREVIATIONS

not analyzed, measured, or collected

LPH liquid-phase hydrocarbons

less than 0.01 foot of LPH in well Trace

μg/l micrograms per liter (approx. equivalent to parts per billion, ppb) = milligrams per liter (approx. equivalent to parts per million, ppm) mg/l

not detected at or above laboratory detection limit ND< top of casing (surveyed reference elevation) TOC

D duplicate =

P no-purge sample

<u>ANALYTES</u>

benzene, toluene, ethylbenzene, and (total) xylenes **BTEX**

di-isopropyl ether DIPE = **ETBE** ethyl tertiary butyl ether MTBE methyl tertiary butyl ether PCB polychlorinated biphenyls

PCE tetrachloroethene = tertiary butyl alcohol TBA trichloroethane TCA = TCE trichloroethene =

total petroleum hydrocarbons with gasoline distinction TPH-G =

total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B TPH-G (GC/MS)

total petroleum hydrocarbons with diesel distinction TPH-D =

total recoverable petroleum hydrocarbons TRPH

TAME tertiary amyl methyl ether 1.1-dichloroethane 1.1-DCA

1,2-DCA = 1,2-dichloroethane (same as EDC, ethylene dichloride)

= 1,1-dichloroethene 1,1-DCE

1,2-DCE 1,2-dichloroethene (cis- and trans-)

NOTES

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

REFERENCE

TRC began groundwater monitoring and sampling for 76 Station 0018 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 0018

Cur	rent	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 (8260B)	Ethylene- dibromide (EDB)	1,2-DCA (EDC)	DIPE	ETBE	TAME					

Table 1
CURRENT FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
September 30, 2009
76 Station 0018

Date	TOC	Depth to	LPH	Ground-	Change in									Comments
Sampled	Elevation	Water	Thickness	water	Elevation	TPH-G	TPH-G			Ethyl-	Total	MTBE	MTBE	
				Elevation	1	8015	(GC/MS)	Benzene	Toluene	benzene	Xylenes	(8021B)	(8260B)	
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	$(\mu g/l)$	(µg/l)					
MW-1			(Scree	n Interva	l in feet: 10.	0-30.0)								
09/30/0	9 208.15	20.84	0.00	187.31	-4.84		62	ND<0.50	ND<0.50	ND<0.50	ND<1.0		14	
MW-2			(Scree	n Interva	l in feet: 10.	0-30.0)								
09/30/0	9 210.27	22.22	0.00	188.05	-5.34		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
MW-3			(Scree	n Interva	l in feet: 10.	0-30.0)								
09/30/09	9 208.98	21.21	0.00	187.77	-5.33		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	



Table 1 a
ADDITIONAL CURRENT ANALYTICAL RESULTS
76 Station 0018

Date			Ethylene-				
Sampled		Ethanol	dibromide	1,2-DCA			
	TBA	(8260B)	(EDB)	(EDC)	DIPE	ETBE	TAME
	$(\mu g/l)$						
MW-1							
09/30/09	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-2							
09/30/09		ND<250					
MW-3							
09/30/09		ND<250					



Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
August 2000 Through September 2009
76 Station 0018

Date		Depth to	LPH	Ground-	Change in									Comments
Sampled	Elevation	Water	Thickness		Elevation	TPH-G	TPH-G			Ethyl-	Total	MTBE	MTBE	
				Elevation	1	8015	(GC/MS)	Benzene	Toluene	benzene	Xylenes	(8021B)	(8260B)	
	(feet)	(feet)	(feet)	(feet)	(feet)	$(\mu g/l)$	$(\mu g/l)$	$(\mu g/l)$	(µg/l)	$(\mu g/l)$	$(\mu g/l)$	$(\mu g/l)$	$(\mu g/l)$	
MW-1			(Scre	en Interva	ıl in feet: 10.	0-30.0)								
08/24/0	00 208.15	18.55	0.00	189.60		120		0.67	ND	0.86	1.4	54	54	
11/16/0	00 208.15	20.30	0.00	187.85	-1.75	169		ND	1.20	1.74	0.629	68.6	97.7	
02/09/0	208.15	20.16	0.00	187.99	0.14	330		1.3	ND	1.0	4.6	140	150	
05/11/0	208.15	17.68	0.00	190.47	2.48	1250		ND	ND	ND	ND	145	122	
08/10/0	208.15	20.38	0.00	187.77	-2.70	580		ND<0.50	ND<0.50	ND<0.50	ND<0.50	110	150	
11/07/0	208.15	22.68	0.00	185.47	-2.30	250		ND<0.50	1.5	ND<0.50	ND<0.50	120	100	
02/06/0	208.15	16.20	0.00	191.95	6.48	790		ND<2.5	12	8.8	ND<2.5	90	72	
05/08/0	208.15	17.54	0.00	190.61	-1.34	890		ND<2.5	ND<2.5	ND<2.5	ND<2.5	78	81	
08/09/0	208.15	20.21	0.00	187.94	-2.67		450	ND<0.50	ND<0.50	ND<0.50	ND<1.0		100	
11/29/0	208.15	22.33	0.00	185.82	-2.12		110	ND<0.50	ND<0.50	ND<0.50	ND<1.0		72	
02/03/0	03 208.15	16.41	0.00	191.74	5.92		540	ND<0.50	ND<0.50	ND<0.50	ND<1.0		40	
05/05/0	03 208.15	16.09	0.00	192.06	0.32		670	ND<2.5	ND<2.5	ND<2.5	ND<5.0		57	
09/04/0	03 208.15	21.46	0.00	186.69	-5.37									No analysis; past holding time
11/13/0	03 208.15	21.52	0.00	186.63	-0.06		97	ND<0.50	5.0	0.82	3.5		29	
01/29/0	04 208.15	17.51	0.00	190.64	4.01		520	ND<0.50	ND<0.50	ND<0.50	ND<1.0		44	
05/07/0	04 208.15	16.74	0.00	191.41	0.77		180	ND<0.50	ND<0.50	ND<0.50	ND<1.0		25	
08/27/0	04 208.15	19.40	0.00	188.75	-2.66		100	ND<0.50	ND<0.50	ND<0.50	ND<1.0		21	
11/23/0	04 208.15	19.82	0.00	188.33	-0.42		410	ND<0.50	ND<0.50	ND<0.50	ND<1.0		45	
02/09/0	05 208.15	15.81	0.00	192.34	4.01		5700	ND<0.50	ND<0.50	ND<0.50	ND<1.0		40	
06/16/0	05 208.15	15.85	0.00	192.30	-0.04		200	ND<0.50	ND<0.50	ND<0.50	ND<1.0		24	
09/27/0		19.15	0.00	189.00	-3.30		300	ND<0.50	ND<0.50	ND<0.50	ND<1.0		19	
12/30/0				193.53			68		ND<0.50		ND<1.0		12	

Table 2 HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS August 2000 Through September 2009 76 Station 0018

Date	TOC		pth to	LPH		Change in									Comments
Sample	l Elevation	n W	/ater	Thickness	water Elevation	Elevation	TPH-G	TPH-G	D	T. 1	Ethyl-	Total	MTBE	MTBE	
	(fast)	(4	feet)	(feet)	(feet)	(feet)	8015	(GC/MS)	Benzene	Toluene	benzene	Xylenes	(8021B)	(8260B)	
	(feet)	(1	ieet)	(leet)	(leet)	(leet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
	continu		11.69	0.00	196.46	2.02		130	ND <0.50	NID <0.50	ND<0.50	ND <1.0		21	
03/08 06/08			14.28	0.00	190.40			66			ND<0.50			16	
09/15			17.49	0.00	193.67			96			ND<0.50			6.1	
12/22			18.68	0.00	189.47			570			ND<0.50			18	
03/28			18.40	0.00	189.75			190			ND<0.50			18	
06/25			20.01	0.00	188.14			ND<50			ND<0.50		 	4.2	
09/22			21.23	0.00	186.92			ND<50			ND<0.50			14	
12/14			21.02	0.00	187.13			76			ND<0.50			16	
03/26			16.87	0.00	191.28			230			ND<0.50	ND<1.0		18	
06/20			18.82	0.00	189.33			100			ND<0.50	ND<1.0		13	
09/19			21.11	0.00	187.04			63			ND<0.50			12	
12/22			20.82	0.00	187.33			ND<50			ND<0.50			9.6	
03/27			16.00	0.00	192.15			340			ND<0.50	ND<1.0		15	
09/30			20.84	0.00	187.31	-4.84		62			ND<0.50			14	
	70) 200	.13	20.04					02	ND<0.50	ND<0.50	11D<0.50	14D<1.0		14	
MW-2 08/24	/00 210	27	19.69	(Scree 0.00	e n Interva 190.58	l in feet: 10 	.0-30.0) ND		ND	ND	ND	ND	ND	ND	
11/16			21.61	0.00	188.66		ND		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
02/09			21.52	0.00	188.75		ND ND		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
05/11			18.76	0.00	191.51	2.76	ND		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
08/11			21.65	0.00	188.62		ND<50			ND<0.50	ND<0.50		ND<5.0	ND<2.0	
11/07			24.25	0.00	186.02		ND<50					ND<0.50		ND<2.0 ND<1.0	
02/06			18.22	0.00	192.05		ND<50					ND<0.50			
05/08			18.63	0.00	192.05		ND<50					ND<0.50			
05/08	/UZ Z10	.41	18.03	0.00	191.04	-0.41	MD<20			ND<0.50	ND<0.30	MD<0.30	ט.כ>עויו		

CTRC

Page 2 of 5

Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
August 2000 Through September 2009
76 Station 0018

Date	TOC	Depth to	LPH		Change in									Comments
Sampled	Elevation	Water	Thickness	water Elevation	Elevation	TPH-G	TPH-G			Ethyl-	Total	MTBE	MTBE	
						8015	(GC/MS)	Benzene	Toluene	benzene	Xylenes	(8021B)	(8260B)	
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
	continued													
08/09/0	210.27	21.53		188.74	-2.90		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<2.0	
11/29/0	210.27	23.73	0.00	186.54	-2.20		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<2.0	
02/03/0	3 210.27	17.43	0.00	192.84	6.30		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<2.0	
05/05/0	3 210.27	17.15	0.00	193.12	0.28		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<2.0	
09/04/0	3 210.27	22.75	0.00	187.52	-5.60									No analysis; past holding time
11/13/0	3 210.27	23.02	0.00	187.25	-0.27		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<2.0	
01/29/0	210.27	18.73	0.00	191.54	4.29		ND<50	0.50	ND<0.50	ND<0.50	ND<1.0		ND<2.0	
05/07/0	210.27	17.79	0.00	192.48	0.94		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
08/27/0	210.27	19.66	0.00	190.61	-1.87		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
11/23/0	210.27	21.20	0.00	189.07	-1.54		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
02/09/0	5 210.27	16.72	0.00	193.55	4.48		ND<50	0.69	1.5	ND<0.50	1.4		ND<0.50	
06/16/0	5 210.27	16.73	0.00	193.54	-0.01		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
09/27/0	5 210.27	20.41	0.00	189.86	-3.68		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
12/30/0	5 210.27	14.79	0.00	195.48	5.62		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
03/08/0	6 210.27	13.25	0.00	197.02	1.54		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
06/08/0	6 210.27	15.36	0.00	194.91	-2.11		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
09/15/0	6 210.27	18.61	0.00	191.66	-3.25		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50		ND<0.50	
12/22/0	6 210.27	20.01	0.00	190.26	-1.40		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50		ND<0.50	
03/28/0	7 210.27	19.60	0.00	190.67	0.41		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50		ND<0.50	
06/25/0	7 210.27	21.34	0.00	188.93	-1.74		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50		ND<0.50	
09/22/0	7 210.27	22.71	0.00	187.56	-1.37		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50		ND<0.50	
12/14/0	7 210.27	22.52	0.00	187.75	0.19		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
03/26/0	08 210.27	17.79	0.00	192.48	4.73		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
2010								Dogo	3 of 5					

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Table 2 HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS August 2000 Through September 2009 76 Station 0018

Comments

Date

TOC

Depth to

LPH

Ground- Change in

Date		Deptil to	LIII		Change in									Comments
Sampled	Elevation	Water	Thickness		Elevation	TPH-G	TPH-G			Ethyl-	Total	MTBE	MTBE	
				Elevation	l.	8015	(GC/MS)	Benzene	Toluene	benzene	Xylenes	(8021B)	(8260B)	
	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	
MW-2	continued													
06/20/0	08 210.27	21.13	0.00	189.14	-3.34		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
09/19/0	08 210.27	22.62	0.00	187.65	-1.49		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
12/22/0	08 210.27	22.55	0.00	187.72	0.07		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
03/27/0	09 210.27	16.88	0.00	193.39	5.67		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
09/30/0	09 210.27	22.22	0.00	188.05	-5.34		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
MW-3			(Scre	en Interva	l in feet: 10	.0-30.0)								
08/24/0	00 208.98	18.68	0.00	190.30		ND		ND	ND	ND	ND	4.7	2.3	
11/16/0	00 208.98	20.56	0.00	188.42	-1.88	ND		ND	ND	ND	ND	ND	ND	
02/09/0	208.98	20.45	0.00	188.53	0.11	ND		ND	ND	ND	ND	ND	ND	
05/11/0	208.98	17.75	0.00	191.23	2.70	ND		ND	ND	ND	ND	ND	ND	
08/10/0	208.98	20.70	0.00	188.28	-2.95	ND<50		ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	ND<2.0	
11/07/0	208.98	23.02	0.00	185.96	-2.32	ND<50		ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0	1.5	
02/06/0	208.98	17.19	0.00	191.79	5.83	ND<50		ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<2.5		
05/08/0	208.98	17.59	0.00	191.39	-0.40	ND<50		ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<5.0		
08/09/0	208.98	20.48	0.00	188.50	-2.89		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<2.0	
11/29/0	208.98	22.64	0.00	186.34	-2.16		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<2.0	
02/03/0	03 208.98	16.46	0.00	192.52	6.18		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<2.0	
05/05/0	03 208.98	16.16	0.00	192.82	0.30		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		2.6	
09/04/0	03 208.98	21.71	0.00	187.27	-5.55									No analysis; past holding time
11/13/0	03 208.98	21.93	0.00	187.05	-0.22		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<2.0	
01/29/0	04 208.98	17.79	0.00	191.19	4.14		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<2.0	
05/07/0	04 208.98	16.79	0.00	192.19	1.00		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		0.55	
08/27/0	04 208.98	19.70	0.00	189.28	-2.91		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
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Table 2
HISTORIC FLUID LEVELS AND SELECTED ANALYTICAL RESULTS
August 2000 Through September 2009
76 Station 0018

Date	TOC	Depth to	LPH		Change in									Comments
Sampled	Elevation	Water	Thickness		Elevation	TPH-G	TPH-G			Ethyl-	Total	MTBE	MTBE	
				Elevation		8015	(GC/MS)	Benzene	Toluene	benzene	Xylenes	(8021B)	(8260B)	
-	(feet)	(feet)	(feet)	(feet)	(feet)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	(µg/l)	$(\mu g/l)$	$(\mu g/l)$	
MW-3	continued													
11/23/0	04 208.98	20.30	0.00	188.68	-0.60		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
02/09/0	05 208.98	15.72	0.00	193.26	4.58		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		1.6	
06/16/0	05 208.98	15.67	0.00	193.31	0.05		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
09/30/0	05 208.98	19.47	0.00	189.51	-3.80		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	9/27/05 samples broke during shipment.
12/30/0	05 208.98	15.84	0.00	193.14	3.63		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
03/08/0	06 208.98	12.06	0.00	196.92	3.78		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
06/08/0	06 208.98	13.82	0.00	195.16	-1.76		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
09/15/0	06 208.98	17.67	0.00	191.31	-3.85		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50		3.4	
12/22/0	06 208.98	19.10	0.00	189.88	-1.43		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50		ND<0.50	
03/28/0	07 208.98	18.60	0.00	190.38	0.50		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50		ND<0.50	
06/25/0	07 208.98	20.30	0.00	188.68	-1.70		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50		ND<0.50	
09/22/0	07 208.98	21.61	0.00	187.37	-1.31		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50		ND<0.50	
12/14/0	07 208.98	21.43	0.00	187.55	0.18		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
03/26/0	08 208.98	16.74	0.00	192.24	4.69		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
06/20/0	08 208.98	19.05	0.00	189.93	-2.31		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
09/19/0	08 208.98	21.49	0.00	187.49	-2.44		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
12/22/0	08 208.98	3 21.40	0.00	187.58	0.09		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
03/27/0	09 208.98	15.88	0.00	193.10	5.52		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	
09/30/0	09 208.98	3 21.21	0.00	187.77	-5.33		ND<50	ND<0.50	ND<0.50	ND<0.50	ND<1.0		ND<0.50	

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Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 0018

Date			Ethylene-				
Sampled		Ethanol	dibromide	1,2-DCA			
	TBA	(8260B)	(EDB)	(EDC)	DIPE	ETBE	TAME
	(µg/l)	(µg/l)	$(\mu g/l)$	$(\mu g/l)$	$(\mu g/l)$	$(\mu g/l)$	(µg/l)
MW-1							
08/24/00	ND	ND			ND	ND	ND
11/16/00	ND	ND			ND	ND	ND
02/09/01	ND	ND	ND	ND	ND	ND	ND
05/11/01	ND	ND	ND	ND	ND	ND	ND
08/10/01	ND<100	ND<1000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
11/07/01	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
02/06/02	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
05/08/02	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
08/09/02	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
11/29/02	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
02/03/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
05/05/03	ND<500	ND<2500	ND<10	ND<10	ND<10	ND<10	ND<10
11/13/03	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
01/29/04	ND<100	ND<500	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
05/07/04	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
08/27/04	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
11/23/04	7.5	ND<50	ND<0.50	ND<0.50	ND<1.0	ND<0.50	ND<0.50
02/09/05	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
06/16/05	ND<5.0	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
09/27/05	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
12/30/05	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
03/08/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
06/08/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
09/15/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
12/22/06	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50

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Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 0018

Date			Ethylene-				
Sampled		Ethanol	dibromide	1,2-DCA			
	TBA	(8260B)	(EDB)	(EDC)	DIPE	ETBE	TAME
	$(\mu g/l)$						
MW-1 co	ntinued						
03/28/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
06/25/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
09/22/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
12/14/07	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
03/26/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
06/20/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
09/19/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
12/22/08	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
03/27/09	ND<10	ND<250			ND<0.50	ND<0.50	ND<0.50
09/30/09	ND<10	ND<250	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50
MW-2							
08/24/00	ND	ND			ND	ND	ND
11/16/00	ND	ND			ND	ND	ND
02/09/01	ND						
05/11/01	ND						
08/10/01	ND<100	ND<1000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
11/07/01	ND<20	ND<500	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
11/13/03		ND<500					
01/29/04		ND<500					
05/07/04		ND<50					
08/27/04		ND<50					
11/23/04		ND<50					
02/09/05		ND<50					
06/16/05		ND<50					
09/27/05		ND<250					

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Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 0018

Date			Ethylene-				
Sampled		Ethanol	dibromide	1,2-DCA			
	TBA	(8260B)	(EDB)	(EDC)	DIPE	ETBE	TAME
	$(\mu g/l)$	(µg/l)	$(\mu g/l)$	(µg/l)	$(\mu g/l)$	$(\mu g/l)$	$(\mu g/l)$
MW-2 co	ntinued						
12/30/05		ND<250					
03/08/06		ND<250					
06/08/06		ND<250					
09/15/06		ND<250					
12/22/06		ND<250					
03/28/07		ND<250					
06/25/07		ND<250					
09/22/07		ND<250					
12/14/07		ND<250					
03/26/08		ND<250					
06/20/08		ND<250					
09/19/08		ND<250					
12/22/08		ND<250					
03/27/09		ND<250					
09/30/09		ND<250					
MW-3							
08/24/00	ND	ND			ND	ND	ND
11/16/00	ND	ND			ND	ND	ND
02/09/01	ND	ND	ND	ND	ND	ND	ND
05/11/01	ND	ND	ND	ND	ND	ND	ND
08/10/01	ND<100	ND<1000000	ND<2.0	ND<2.0	ND<2.0	ND<2.0	ND<2.0
11/07/01	ND<20	ND<500000	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
08/09/02			ND	ND			
11/29/02			ND	ND			
02/03/03			ND<2.0	ND<2.0			

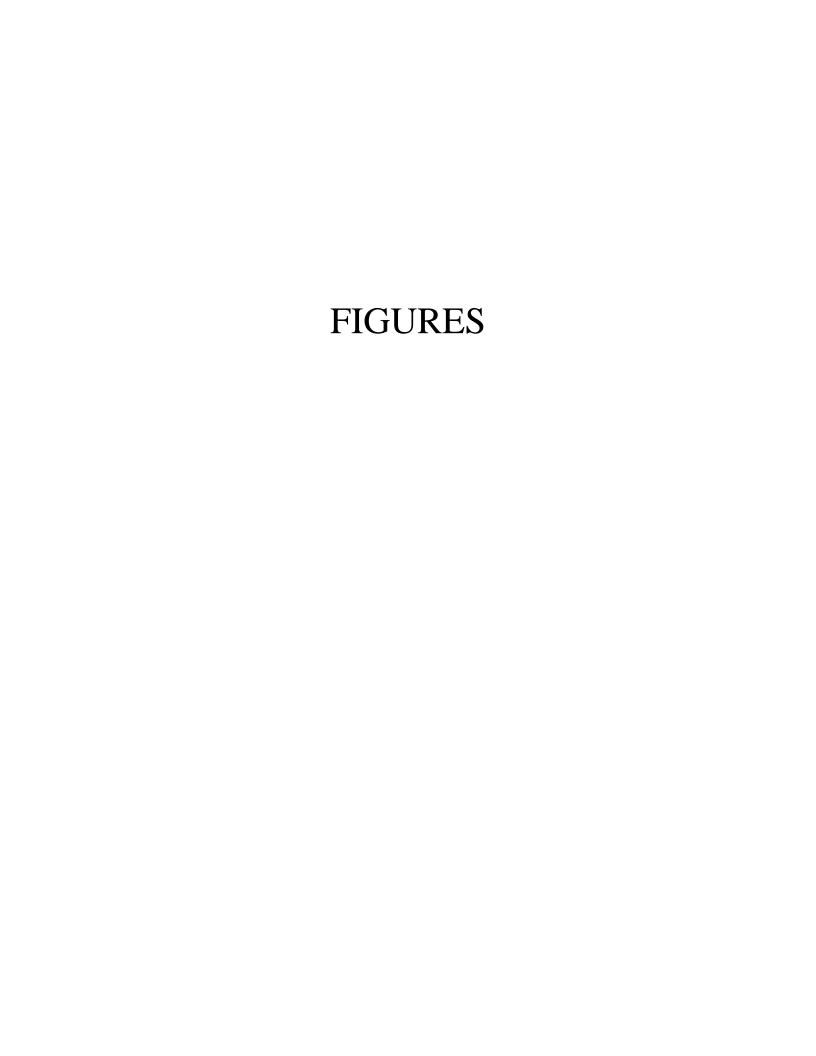
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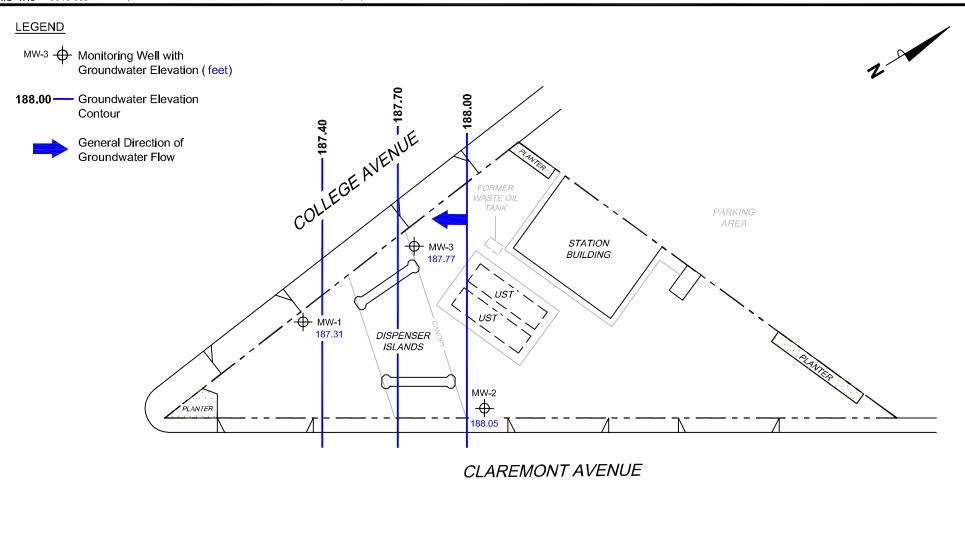
Table 2 a
ADDITIONAL HISTORIC ANALYTICAL RESULTS
76 Station 0018

Date			Ethylene-					
Sampled		Ethanol	dibromide	1,2-DCA				
	TBA	(8260B)	(EDB)	(EDC)	DIPE	ETBE	TAME	
	$(\mu g/l)$	(µg/l)	(µg/l)	(µg/l)	$(\mu g/l)$	$(\mu g/l)$	$(\mu g/l)$	
MW-3 co	ntinued							
05/05/03			ND<1.0	ND<1.0				
11/13/03		ND<500						
01/29/04		ND<500						
05/07/04		ND<50						
08/27/04		ND<50						
11/23/04		ND<50						
02/09/05		ND<50						
06/16/05		ND<50						
09/30/05		ND<250						
12/30/05		ND<250						
03/08/06		ND<250						
06/08/06		ND<250						
09/15/06		ND<250						
12/22/06		ND<250						
03/28/07		ND<250						
06/25/07		ND<250						
09/22/07		ND<250						
12/14/07		ND<250						
03/26/08		ND<250						
06/20/08		ND<250						
09/19/08		ND<250						
12/22/08		ND<250						
03/27/09		ND<250						
09/30/09		ND<250						



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NOTES:

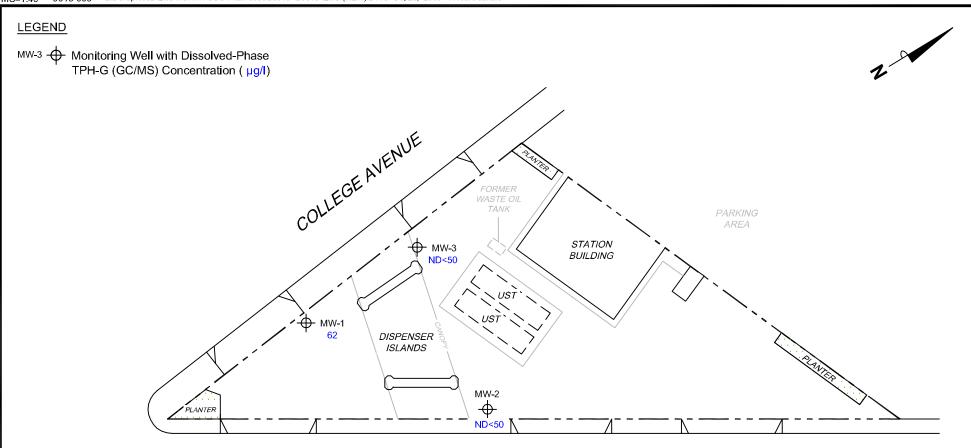
Contour lines are interpretive and based on fluid levels measured in monitoring wells. Elevations are in feet above mean sea level. UST = underground storage tank.



PROJECT: 165521

FACILITY:

76 STATION 0018 6201 CLAREMONT AVENUE OAKLAND, CALIFORNIA GROUNDWATER ELEVATION CONTOUR MAP September 30, 2009



CLAREMONT AVENUE



NOTES:

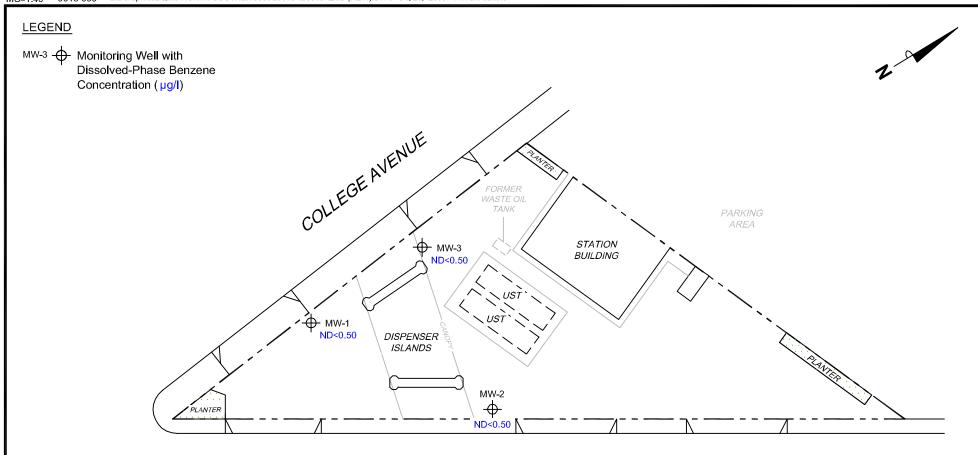
TPH-G (GC/MS) = total petroleum hydrocarbons with gasoline distinction utilizing EPA Method 8260B. μ g/I = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank.



PROJECT: 165521

FACILITY:

76 STATION 0018 6201 CLAREMONT AVENUE OAKLAND, CALIFORNIA DISSOLVED-PHASE TPH-G (GC/MS)
CONCENTRATION MAP
September 30, 2009



CLAREMONT AVENUE



NOTES:

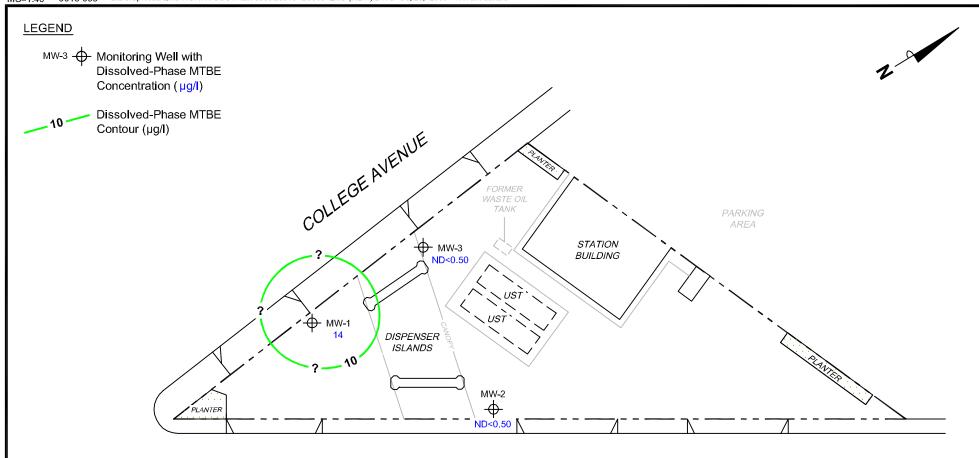
 μ g/I = micrograms per liter. ND = not detected at limit indicated on official laboratory report. UST = underground storage tank.



PROJECT: 165521

FACILITY:

76 STATION 0018 6201 CLAREMONT AVENUE OAKLAND, CALIFORNIA DISSOLVED-PHASE BENZENE CONCENTRATION MAP September 30, 2009



CLAREMONT AVENUE



NOTES:

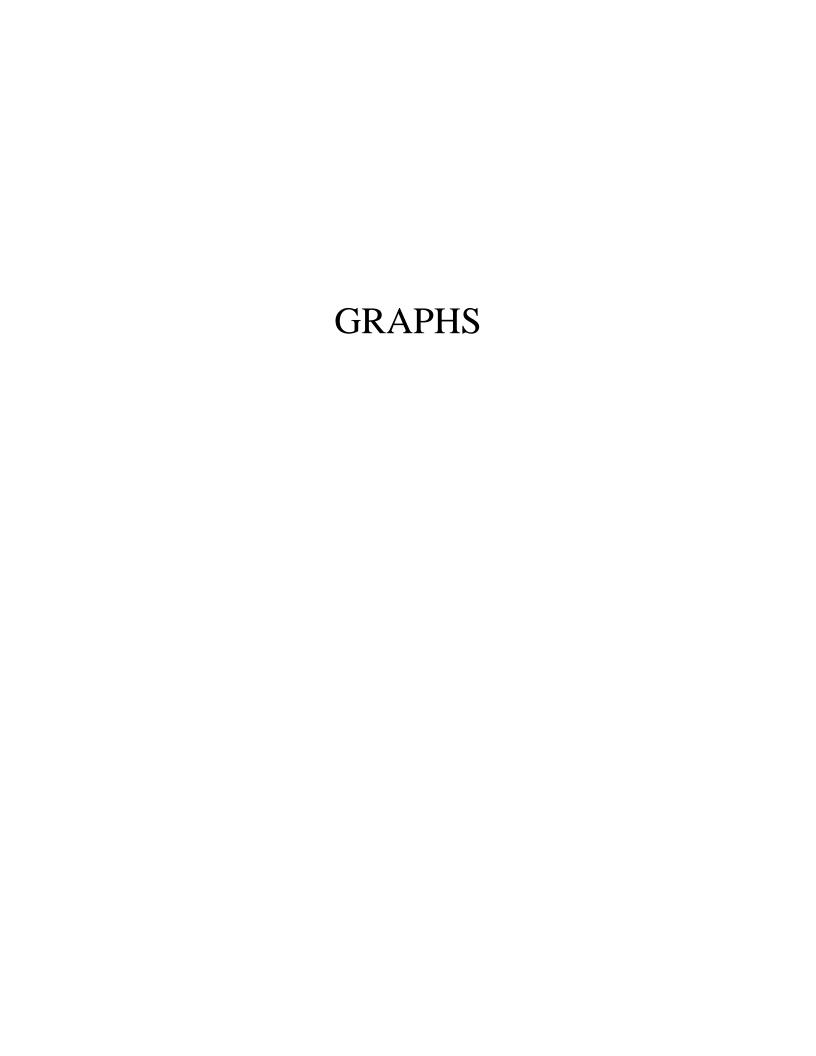
Contour lines are interpretive and based on laboratory analysis results of groundwater samples. MTBE = methyl tertiary butyl ether. $\mu g/l = \text{micrograms per liter.} \ \ ND = \text{not detected at limit indicated on official laboratory report.}$ UST = underground storage tank. Results obtained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

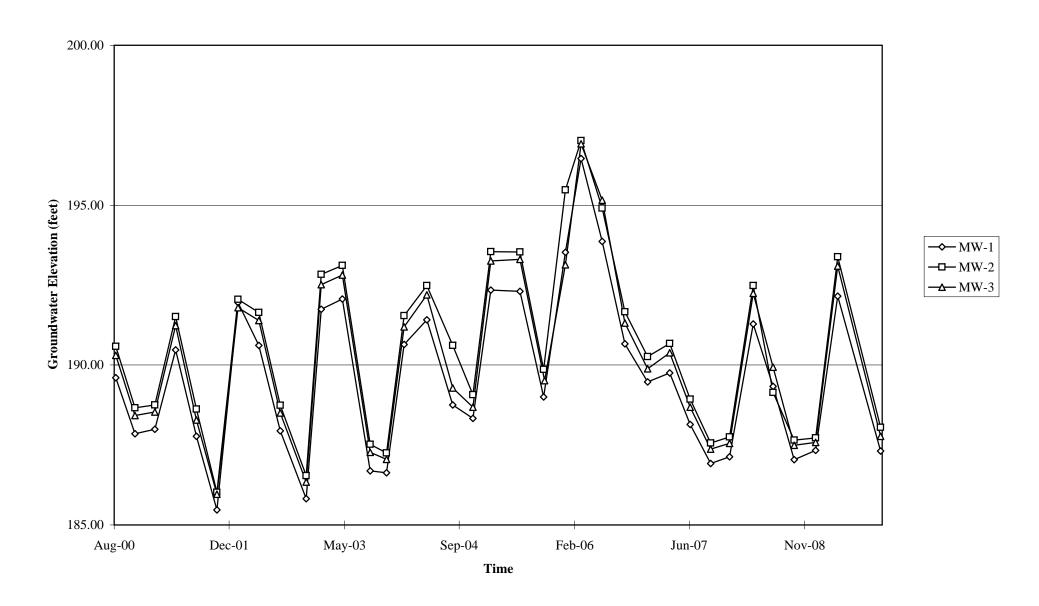


PROJECT: 165521

FACILITY:

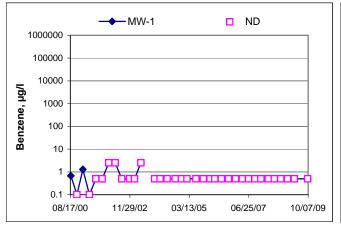
76 STATION 0018 6201 CLAREMONT AVENUE OAKLAND, CALIFORNIA DISSOLVED-PHASE MTBE CONCENTRATION MAP September 30, 2009

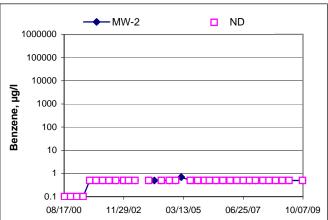


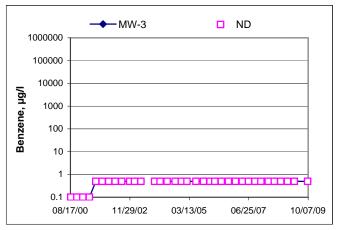


Benzene Concentrations vs Time

76 Station 0018







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.

3/7/08 version

FIELD MONITORING DATA SHEET

Technician: A. Widney 5	Job #/Task #:	163521 FAZO	Date: 9 30 09	
Site # <u>0018</u>	Project Manager	A. Collins	Page(of/_	

Well#	TOC	Time Gauged	Total Depth	Depth to Water	Depth to Product	Product Thickness (feet)	Time Sampled	Misc. Well Notes
Mw.3	√	0518	30.22	21-21			0552	2"
MW-Z	√	0523	29.57	22.22			0609	2"
Mw-I	J	0528	30.08	20.84			0628	Z'
•								
	· · ·							
		<u> </u>						
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-								
EICI D DATA	COMP	ETE	04/00	<u></u>	COC	14	IELL BOY O	L ONDITION SHEETS
FIELD DATA	COMPL	CIE	QA/QC			VV	LLL BOX C	ONDITION SHEETS
MANIFEST		DRUM IN	VENTOR	Υ	TRAFFIC	CONTROL		

GROUNDWATER SAMPLING FIELD NOTES

Technician:	A Vidners
Site: 0018 Project No.:	165521 Date: 9/30/09
Well No. MV-3	Purge Method: Sub
Depth to Water (feet): 21.71	Depth to Product (feet):
Total Depth (feet) 30,22	LPH & Water Recovered (gallons):
Water Column (feet): ٩٫٥١	Casing Diameter (Inches): Z
80% Recharge Depth(feet): 13.01	1 Well Volume (gallons):

Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F,C)	pН	DO. (mg/L)	ORP	Turbidity
Pre-	Purge								
0544			2	544.7	15.0	6.59			
			4	521.3	17.2	6.43			
·	049		6	518.4	17.9	6.33			
Stat	ic at Time S	ampled	Tot	al Gallons Pur	ged	<u> </u>	Sample	Time	
	23.01			6		(°552	-	
Comments	s:		tu.		r- r- 3-time-shim				

Well NoM₩-2	Purge Method: Sub
Depth to Water (feet): 1/24 27.72	Depth to Product (feet):
Total Depth (feet) 29.57	LPH & Water Recovered (gallons):
Water Column (feet): 7-35	Casing Diameter (Inches): 2
80% Recharge Depth(feet): 23.69	1 Well Volume (gallons): 2

comments		1		_		 _	0609	<u> </u>	
	23.60	<i>x</i>			<u> </u>				
Stat	ic at Time S	ampled	Tot	al Gallons Pur	ged		Sample	Time	'
	-								
	0605		6	500.5	17.7	5-55			
			4	497.4	17.0	6-63			
0602			2	499.7	15.7	6.63			
Pre-	Purge							·-	
Time Start	Time Stop	Depth to Water (feet)	Volume Purged (gallons)	Conductivity (µS/cm)	Temperature (F,C)	pН	D O (mg/L)	ORP	Turbidi



GROUNDWATER SAMPLING FIELD NOTES

Technician: A. Willes Date: 9/30/09 Project No.: 165521 Site: OO Purge Method: Sub Well No. MV 20,84 Depth to Water (feet): Depth to Product (feet): 30,08 Total Depth (feet) LPH & Water Recovered (gallons): 9.24 Water Column (feet): Casing Diameter (Inches):____ 80% Recharge Depth(feet): 22.69 1 Well Volume (gallons): Depth to Volume Time Time Conductivity Temperature D.O. Water Purged Hq ORP Turbidity Start Stop (F,C) (µS/cm) (mq/L)(feet) (gallons) Pre-Purge 0617 693.7 17.5 6.39 699.5 18.6 6.35 6.34 103.4 0621 Static at Time Sampled Total Gallons Purged Sample Time 2269 0628 Comments: Well No._____ Purge Method: Depth to Water (feet):_____ Depth to Product (feet): Total Depth (feet) LPH & Water Recovered (gallons):_____ Water Column (feet):_____ Casing Diameter (Inches):_____ 80% Recharge Depth(feet): 1 Well Volume (gallons):_____ Depth to Volume Conductivity | Temperature Time Time D.O Water Purged Нq ORP Turbidity Start Stop (µS/cm) (F,C) (mg/L) (feet) (gallons) Pre-Purge Static at Time Sampled Total Gallons Purged Sample Time Comments:





Date of Report: 10/05/2009

Anju Farfan

TRC

21 Technology Drive Irvine, CA 92618

0018 RE:

BC Work Order: 0912963 B069051 Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 9/30/2009. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers

Client Service Rep

Authorized Signature



21 Technology Drive Project Number: 4511010881 Irvine, CA 92618 Project Manager: Anju Farfan

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information	on			
0912963-01	COC Number: Project Number: Sampling Location: Sampling Point: Sampled By:	 0018 MW-3 TRCI	Receive Date: Sampling Date: Sample Depth: Sample Matrix:	09/30/2009 21:05 09/30/2009 05:52 Water	Delivery Work Order: Global ID: T0600102231 Location ID (FieldPoint): MW-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
0912963-02	COC Number: Project Number: Sampling Location: Sampling Point: Sampled By:	 0018 MW-2 TRCI	Receive Date: Sampling Date: Sample Depth: Sample Matrix:	09/30/2009 21:05 09/30/2009 06:09 Water	Delivery Work Order: Global ID: T0600102231 Location ID (FieldPoint): MW-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
0912963-03	COC Number: Project Number: Sampling Location: Sampling Point: Sampled By:	 0018 MW-1 TRCI	Receive Date: Sampling Date: Sample Depth: Sample Matrix:	09/30/2009 21:05 09/30/2009 06:28 Water	Delivery Work Order: Global ID: T0600102231 Location ID (FieldPoint): MW-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:

21 Technology DriveProject Number:4511010881Irvine, CA 92618Project Manager:Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0912963-01	Client Sample	e Name:	0018, MW-3, 9/30/2	009 5:52:00	AM							
	=				Prep	Run		Instru-		QC	MB	Lab
Constituent	Result	Units	PQL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Benzene	ND	ug/L	0.50	EPA-8260	10/02/09	10/03/09 02:21	KEA	MS-V12	1	BSJ0102	ND	
Ethylbenzene	ND	ug/L	0.50	EPA-8260	10/02/09	10/03/09 02:21	KEA	MS-V12	1	BSJ0102	ND	
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	10/02/09	10/03/09 02:21	KEA	MS-V12	1	BSJ0102	ND	
Toluene	ND	ug/L	0.50	EPA-8260	10/02/09	10/03/09 02:21	KEA	MS-V12	1	BSJ0102	ND	
Total Xylenes	ND	ug/L	1.0	EPA-8260	10/02/09	10/03/09 02:21	KEA	MS-V12	1	BSJ0102	ND	
Ethanol	ND	ug/L	250	EPA-8260	10/02/09	10/03/09 02:21	KEA	MS-V12	1	BSJ0102	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/M S	10/02/09	10/03/09 02:21	KEA	MS-V12	1	BSJ0102	ND	
1,2-Dichloroethane-d4 (Surrogate)	104	%	76 - 114 (LCL - UCL)	EPA-8260	10/02/09	10/03/09 02:21	KEA	MS-V12	1	BSJ0102		
Toluene-d8 (Surrogate)	95.6	%	88 - 110 (LCL - UCL)	EPA-8260	10/02/09	10/03/09 02:21	KEA	MS-V12	1	BSJ0102		
4-Bromofluorobenzene (Surrogate)	95.8	%	86 - 115 (LCL - UCL)	EPA-8260	10/02/09	10/03/09 02:21	KEA	MS-V12	1	BSJ0102		

21 Technology DriveProject Number:4511010881Irvine, CA 92618Project Manager:Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0912963-02	Client Sample	Name:	0018, MW-2, 9/30/2	009 6:09:00	AM							
	•				Prep	Run		Instru-		QC	МВ	Lab
Constituent	Result	Units	PQL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Benzene	ND	ug/L	0.50	EPA-8260	10/02/09	10/03/09 02:02	KEA	MS-V12	1	BSJ0102	ND	
Ethylbenzene	ND	ug/L	0.50	EPA-8260	10/02/09	10/03/09 02:02	KEA	MS-V12	1	BSJ0102	ND	
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	10/02/09	10/03/09 02:02	KEA	MS-V12	1	BSJ0102	ND	
Toluene	ND	ug/L	0.50	EPA-8260	10/02/09	10/03/09 02:02	KEA	MS-V12	1	BSJ0102	ND	
Total Xylenes	ND	ug/L	1.0	EPA-8260	10/02/09	10/03/09 02:02	KEA	MS-V12	1	BSJ0102	ND	
Ethanol	ND	ug/L	250	EPA-8260	10/02/09	10/03/09 02:02	KEA	MS-V12	1	BSJ0102	ND	
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/M S	10/02/09	10/03/09 02:02	KEA	MS-V12	1	BSJ0102	ND	
1,2-Dichloroethane-d4 (Surrogate)	105	%	76 - 114 (LCL - UCL)	EPA-8260	10/02/09	10/03/09 02:02	KEA	MS-V12	1	BSJ0102		
Toluene-d8 (Surrogate)	91.0	%	88 - 110 (LCL - UCL)	EPA-8260	10/02/09	10/03/09 02:02	KEA	MS-V12	1	BSJ0102		
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)	EPA-8260	10/02/09	10/03/09 02:02	KEA	MS-V12	1	BSJ0102		

21 Technology DriveProject Number:4511010881Irvine, CA 92618Project Manager:Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0912963-03	Client Sample	Name:	0018, MW-1, 9/30/2	009 6:28:00	ΑM							
		•				Prep	Run		Instru-		QC	MB	Lab
Constituent		Result	Units	PQL	Method	Date	Date/Time	Analyst	ment ID	Dilution	Batch ID	Bias	Quals
Benzene		ND	ug/L	0.50	EPA-8260	10/02/09	10/03/09 01:44	KEA	MS-V12	1	BSJ0102	ND	
1,2-Dibromoethane		ND	ug/L	0.50	EPA-8260	10/02/09	10/03/09 01:44	KEA	MS-V12	1	BSJ0102	ND	
1,2-Dichloroethane		ND	ug/L	0.50	EPA-8260	10/02/09	10/03/09 01:44	KEA	MS-V12	1	BSJ0102	ND	
Ethylbenzene		ND	ug/L	0.50	EPA-8260	10/02/09	10/03/09 01:44	KEA	MS-V12	1	BSJ0102	ND	
Methyl t-butyl ether		14	ug/L	0.50	EPA-8260	10/02/09	10/03/09 01:44	KEA	MS-V12	1	BSJ0102	ND	
Toluene		ND	ug/L	0.50	EPA-8260	10/02/09	10/03/09 01:44	KEA	MS-V12	1	BSJ0102	ND	
Total Xylenes		ND	ug/L	1.0	EPA-8260	10/02/09	10/03/09 01:44	KEA	MS-V12	1	BSJ0102	ND	
t-Amyl Methyl ether		ND	ug/L	0.50	EPA-8260	10/02/09	10/03/09 01:44	KEA	MS-V12	1	BSJ0102	ND	
t-Butyl alcohol		ND	ug/L	10	EPA-8260	10/02/09	10/03/09 01:44	KEA	MS-V12	1	BSJ0102	ND	
Diisopropyl ether		ND	ug/L	0.50	EPA-8260	10/02/09	10/03/09 01:44	KEA	MS-V12	1	BSJ0102	ND	
Ethanol		ND	ug/L	250	EPA-8260	10/02/09	10/03/09 01:44	KEA	MS-V12	1	BSJ0102	ND	
Ethyl t-butyl ether		ND	ug/L	0.50	EPA-8260	10/02/09	10/03/09 01:44	KEA	MS-V12	1	BSJ0102	ND	
Total Purgeable Petroleur Hydrocarbons	n	62	ug/L	50	Luft-GC/M S	10/02/09	10/03/09 01:44	KEA	MS-V12	1	BSJ0102	ND	
1,2-Dichloroethane-d4 (Su	rrogate)	102	%	76 - 114 (LCL - UCL)	EPA-8260	10/02/09	10/03/09 01:44	KEA	MS-V12	1	BSJ0102		
Toluene-d8 (Surrogate)		99.4	%	88 - 110 (LCL - UCL)	EPA-8260	10/02/09	10/03/09 01:44	KEA	MS-V12	1	BSJ0102		
4-Bromofluorobenzene (Su	ırrogate)	107	%	86 - 115 (LCL - UCL)	EPA-8260	10/02/09	10/03/09 01:44	KEA	MS-V12	1	BSJ0102		

21 Technology DriveProject Number:4511010881Irvine, CA 92618Project Manager:Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

									Control Limits		ol Limits
			Source	Source		Spike			Percent		Percent
Constituent	Batch ID	QC Sample Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery Lab Quals
Benzene	BSJ0102	Matrix Spike	0911528-82	0	23.810		ug/L				70 - 130
		Matrix Spike Duplicate	0911528-82	0	23.280		ug/L			20	70 - 130
Toluene	BSJ0102	Matrix Spike	0911528-82	0	22.660		ug/L				70 - 130
		Matrix Spike Duplicate	0911528-82	0	22.720		ug/L			20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	BSJ0102	Matrix Spike	0911528-82	ND	10.180	10.000	ug/L		102		76 - 114
		Matrix Spike Duplicate	0911528-82	ND	9.7400	10.000	ug/L		97.4		76 - 114
Toluene-d8 (Surrogate)	BSJ0102	Matrix Spike	0911528-82	ND	10.020	10.000	ug/L		100		88 - 110
		Matrix Spike Duplicate	0911528-82	ND	10.050	10.000	ug/L		100		88 - 110
4-Bromofluorobenzene (Surrogate)	BSJ0102	Matrix Spike	0911528-82	ND	10.220	10.000	ug/L		102		86 - 115
		Matrix Spike Duplicate	0911528-82	ND	9.9700	10.000	ug/L		99.7		86 - 115

21 Technology Drive Project Number: 4511010881 Irvine, CA 92618 Project Manager: Anju Farfan

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

								Control Limits				
Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals
Benzene	BSJ0102	BSJ0102-BS1	LCS	21.710		0.50	ug/L			70 - 130		
Toluene	BSJ0102	BSJ0102-BS1	LCS	21.320		0.50	ug/L			70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BSJ0102	BSJ0102-BS1	LCS	9.9600	10.000		ug/L	99.6		76 - 114		
Toluene-d8 (Surrogate)	BSJ0102	BSJ0102-BS1	LCS	10.180	10.000		ug/L	102		88 - 110		
4-Bromofluorobenzene (Surrogate)	BSJ0102	BSJ0102-BS1	LCS	10.070	10.000		ug/L	101		86 - 115		

21 Technology Drive Project Number: 4511010881 Irvine, CA 92618 Project Manager: Anju Farfan

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	BSJ0102	BSJ0102-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BSJ0102	BSJ0102-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BSJ0102	BSJ0102-BLK1	ND	ug/L	0.50		
Ethylbenzene	BSJ0102	BSJ0102-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BSJ0102	BSJ0102-BLK1	ND	ug/L	0.50		
Toluene	BSJ0102	BSJ0102-BLK1	ND	ug/L	0.50		
Total Xylenes	BSJ0102	BSJ0102-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BSJ0102	BSJ0102-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BSJ0102	BSJ0102-BLK1	ND	ug/L	10		
Diisopropyl ether	BSJ0102	BSJ0102-BLK1	ND	ug/L	0.50		
Ethanol	BSJ0102	BSJ0102-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BSJ0102	BSJ0102-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BSJ0102	BSJ0102-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BSJ0102	BSJ0102-BLK1	103	%	76 - 114 (LCL	- UCL)	
Toluene-d8 (Surrogate)	BSJ0102	BSJ0102-BLK1	98.6	%	88 - 110 (LCL	- UCL)	
4-Bromofluorobenzene (Surrogate)	BSJ0102	BSJ0102-BLK1	99.0	%	86 - 115 (LCL	- UCL)	



21 Technology Drive Project Number: 4511010881 Irvine, CA 92618 Project Manager: Anju Farfan

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

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page Of /														
Submission #: 19-12963														
SHIPPING INFORMATION SHIPPING CONTAINER														
Federal Express UPS Hand Delivery				Ice Chest \(\square \text{None } \square \text{None } \square										
BC Lab Field Service ☑ Other □ (Specify)					Box □ Other □ (Specify)									
			ĺ											
Refrigerant: Ice ☑ Blue Ice □ None □ Other □ Comments:														
Custody Seals Ice Chest □	Containe	rs 🗆	None 🗹	Comme	nts:									
Intact? Yes D No D Intact? Yes No D														
All samples received? Yes No □ All samples containers intact? Yes No □ Description(s) match COC? Yes No □														
ÇOC Received Em	riceivity: /	298 0	ontainer: _	NOOK T	hormomot	or ID: Th	980	D-4-/Ti	9/30/09	2117				
							000							
Ter	mperature:	A <u>-2</u>	<u>. D </u>	C / C	9.3	°C		Analyst Ir	iit <u>WUi</u>					
SAMPLE NUMBERS														
SAMPLE CONTAINERS	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														
202. NITRATE / NITRITE														
PT TOTAL ORGANIC CARBON		:												
PT TOX														
PT CHEMICAL OXYGEN DEMAND														
PIA PHENOLICS														
40ml VOA VIAL TRAVEL BLANK	A 13	10 -	A-3											
40ml VOA VIAL	A 15	AB)	17(()	(()	()	()	()	()	()				
OT EPA 413.1, 413.2, 418.1														
PT ODOR														
RADIOLOGICAL BACTERIOLOGICAL														
40 ml VOA VIAL- 504														
QT EPA 508/608/8080														
QT EPA 515.1/8150														
QT EPA 525	·													
QT EPA 525 TRAVEL BLANK		***************************************												
100ml EPA 547														
100ml EPA 531.1														
QT EPA 548														
QT EPA 549														
QT EPA 632														
QT EPA 8015M														
QT AMBER														
8 OZ. JAR														
32 OZ. JAR														
SOIL SLEEVE														
PCB VIAL														
PLASTIC BAG														
FERROUS IRON	FERROUS IRON													
ENCORE														

Comments:
Sample Numbering Completed By:
A = Actual / C = Corrected

Date/Time: 10/

10911

09-12963

BC LABORATORIES, INC.

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



			TAX (001) 327-1910			A		R	a sa sa sa		_0		
					,	Anal	ysis	Ke	que	ste	(CI		
Bill to: Co	noco Phillips/ TRC	Consultant Firm: TR	С	MATRIX (GW)	ក		- academic management						
Address:	6201 Cluremont	21 Technology Drive		Ground- water	by 8015			m					-5
	Arl	Attn: Anju Farfan	Gen	(S) Soil	Gas		24.60	8260B			72	B	Requested
City:	Oakland	4-digit site#: 00	,	(WW) Waste-	BTEX/MTBE by 8021B,	5M 80-15	8260 full list w/ oxygenates	YS BY	8260B	2	8260 B	22	9 P P P P P P P P P P P P P P P P P P P
		7/09/2	Workorder # 0/062 - 45/10/0981			8015M	, w	XO	/ 82	GCIMS	3	-4	2
State: CA	Zip:	Project #: 635 2		(SL)	Ш Ш	2 1	(C)	ig ij	Š L	Š		图	70
Conoco Pl	hillips Mgr: Terry Gray	Son Sampler Name: And	hew Videolius	Sludge	S	O S S	General entrees entree		0 2	-G by	6	A PARTIES	0 0
Lab#	Sample Description	Field Point Name	Date & Time Sampled			TPH GAS by 8015M TPH DIESEL by 8015	8260	BTEX/MTBE/OXYS	HANGE	Ī	EDBEDC	為	Turnaround
-1		MW-3	9/30/09 6552	6W					X	X		X	如
,2		MW-Z	0609									\times	
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Comments:					•		30 K	Sech	1027	97/	/30/	09	<u> 1430 </u>
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Receipt of Manifest is Pending

(October 16, 2009)



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.