

DW STD 1630

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### TRANSMITTAL LETTER

TO: Alameda County Health Care Service Agency  
Environmental Health Care Dept.  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

DATE: 01/16/01  
FROM: David Bero

RE: Sears/1039/Oakland  
Fourth Quarter Monitoring Report

ATTN: Juliet Schin

We are sending the following:

REPORT     EWO/ECO     OTHER    Correspondence

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1	01/16/01	Fourth Quarter Monitoring Report

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**IT Corporation**

4005 Port Chicago Highway  
Concord, CA 94520-1120  
Tel. 925.288.9898  
Fax. 925.288.0888

*A Member of The IT Group*

January 9, 2001

Ms. Juliet Schin  
Hazardous Materials Specialist  
Alameda County Health Care Services Agency  
Environmental Health Services Dept.  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

**Subject:** Fourth Quarter 2000, Groundwater Monitoring and Sampling Report  
Sears Auto Center No. 1039, 1901-1911 Telegraph Avenue, Oakland, California  
IT Corporation Project 803686

Dear Ms. Schin:

On behalf of Sears, Roebuck and Co., IT Corporation presents the quarterly groundwater monitoring and sampling data collected from the above referenced site on November 6, 2000. Nine groundwater monitoring wells were gauged to determine depth to groundwater and to check for the presence of separate-phase petroleum hydrocarbons. Separate-phase hydrocarbons were not detected in any of the monitoring wells. A potentiometric surface map is provided in Figure 1 (Attachment 1). A summary of historical groundwater elevation data is provided in Table 1 (Attachment 2).

After measuring depth to water, all monitoring wells were purged and sampled. Field data sheets and groundwater monitoring and sample collection protocol are provided in Attachment 3. The groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g), methyl tert-butyl ether (MTBE) and dissolved benzene, toluene, ethylbenzene and total xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8260 and GC/MS Combination, and for purgeable halocarbons by EPA Method 8260. Groundwater samples from monitoring wells MW-4 and MW-6 were additionally analyzed for total recoverable petroleum hydrocarbons as oil and grease by EPA Method 418.1 with silica gel application.

Static groundwater levels for the fourth quarter 2000 ranged from 75.99 to 78.71 feet above mean sea level (approximately 14 to 18 feet below top of casing). Groundwater elevations have decreased by about 0.3 foot since third quarter (August 1, 2000). The apparent groundwater flow is to the east at an average hydraulic gradient of 0.01 foot per foot, and is similar to previous quarterly data.

Results of quarterly sampling indicated detectable concentrations of dissolved petroleum hydrocarbons in monitoring wells MW-2, MW-4, MW-5, MW-7, and MW-9, with highest concentrations of TPH-g and benzene in MW-7. MTBE was detected only in the sample collected from well MW-9 at a concentration of 3.2 micrograms per liter. All monitoring wells except MW-4 and MW-5 contained detectable concentrations of various halogenated volatile organics, such as 1,2-dichloroethane (1,2-DCA), cis-1,2-dichloroethene, tetrachloroethene (PCE), and trichloroethene (TCE). These compounds, except


possibly for 1,2-DCA, are not typically found in gasoline or new/used motor oil. A summary of the groundwater analytical results is provided in Table 2. A distribution map of dissolved benzene, TPH-g, and MTBE concentrations is provided in Figure 2.

Hydrographs and detectable concentrations versus time data are illustrated in Graphs 1 through 9 (Attachment 4). Petroleum hydrocarbon concentrations below detection limits are not shown on the graphs. A direct correlation between groundwater elevation and TPH-g concentrations can be seen in downgradient well MW-7. Laboratory reports and chain-of-custody documents are provided in Attachment 5.


Concentrations of dissolved petroleum hydrocarbons and halogenated volatile organics have been generally declining since monitoring began in 1995. A sharp decrease of dissolved BTEX and TPH-g concentrations from well MW-7 to the most downgradient well, MW-9, indicates that the downgradient limit of the dissolved gasoline plume is near MW-9. The source of the dissolved chlorinated hydrocarbons, particularly PCE and TCE, is not known. TCE and some of the other constituents may be breakdown products of PCE. All site-related monitoring wells will continue to be sampled on a quarterly basis.

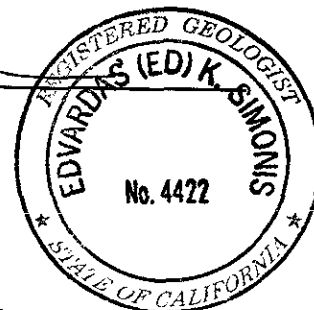
If you have comments or questions, please contact David Bero at (925) 288-2024.

Sincerely,  
**IT CORPORATION**  
Submitted by:

  
\_\_\_\_\_  
David A. Bero, P.G., R.G.  
West Zone Project Manager

**IT CORPORATION**  
Approved by:

  
\_\_\_\_\_  
Ed K. Simonis, R.G.  
Senior Geologist

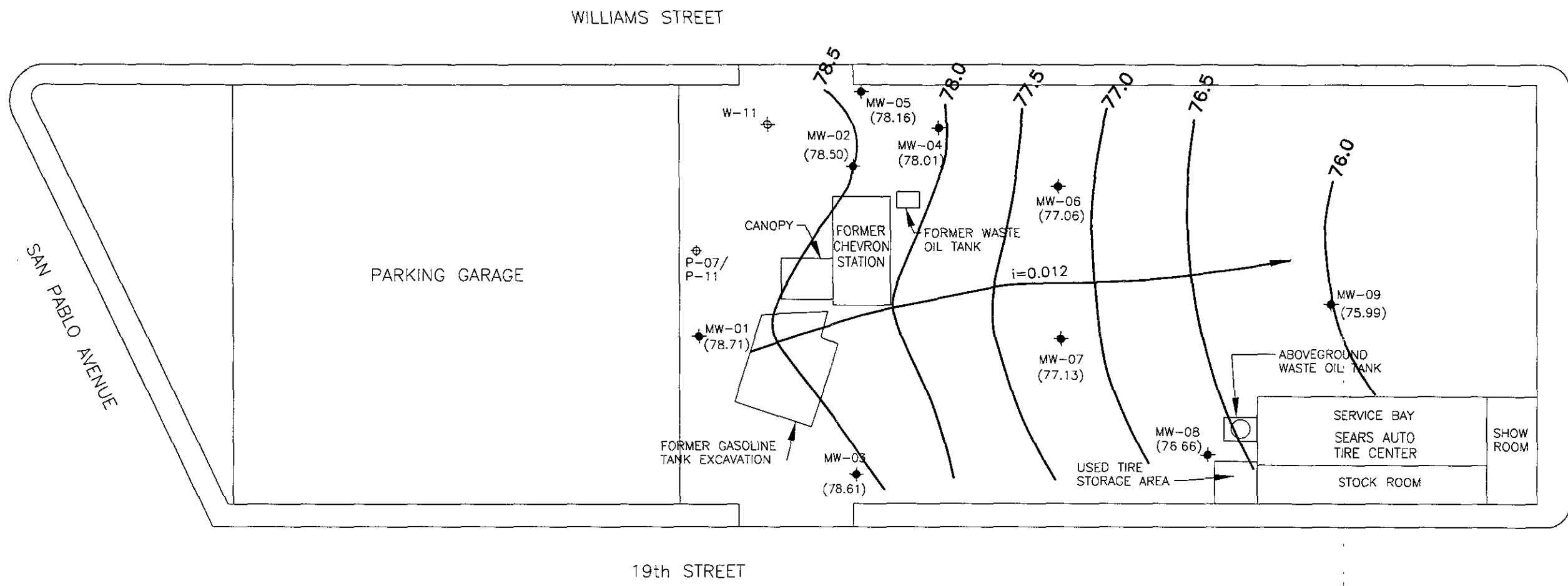


Attachments:

1. Figures
  2. Tables
  3. Groundwater Monitoring and Sample Collection Protocol and Field Data Sheets
  4. Graphs
  5. Laboratory Reports and Chain-of-Custody Documents
- c: Mr. Scott M. DeMuth, Manager, Environmental Technical Services, Sears, Roebuck and Co.  
Mr. Russ Zora, IT Corporation, Central Files  
Project File

**Attachment 1**

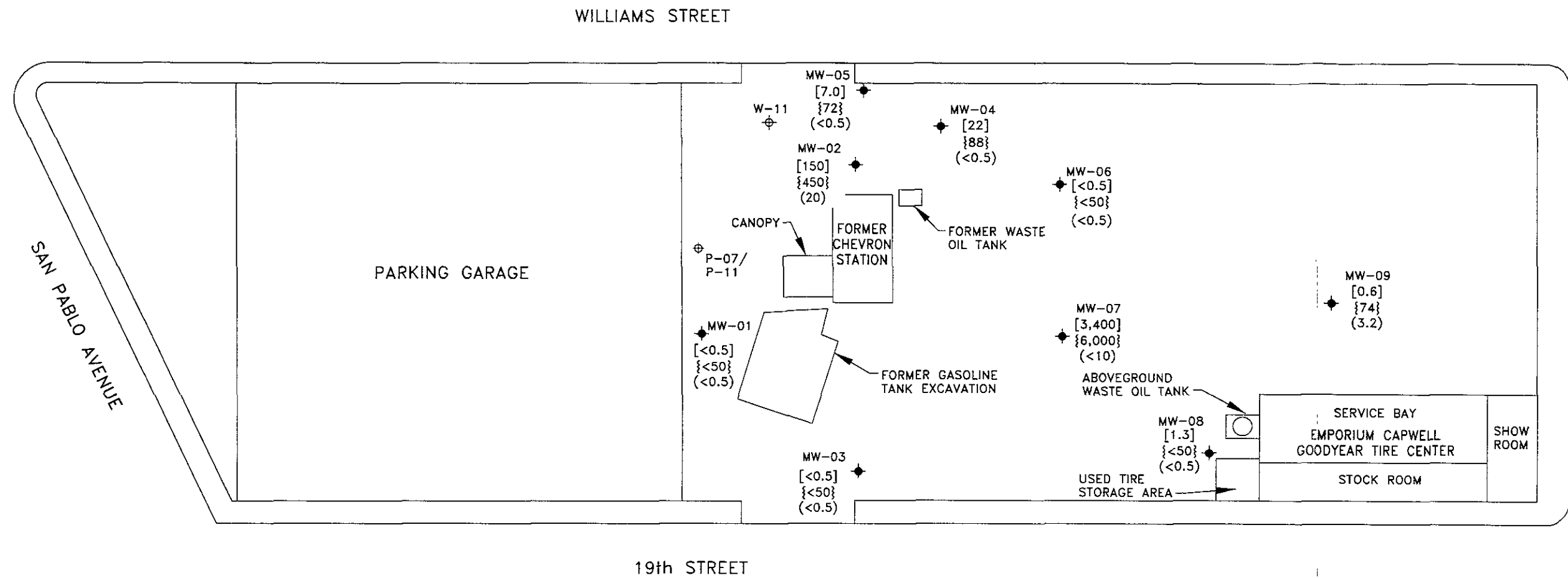
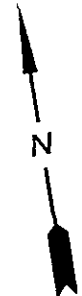
**Figures**



- LEGEND**
- ◆ MONITORING WELL
  - ⊕ SOIL PROBE
  - ( ) POTENTIOMETRIC SURFACE ELEVATION (FEET ABOVE MEAN SEA LEVEL)
  - POTENTIOMETRIC SURFACE CONTOUR; INTERVAL = 0.5 FT
  - GROUNDWATER FLOW DIRECTION AND  
 $i=0.015$  AVERAGE GRADIENT (ft/ft)



	SEARS, ROEBUCK & CO. SITE NO. 1039
	<b>FIGURE--1</b> <b>POTENTIOMETRIC SURFACE MAP</b> (GAUGED 11/06/2000) 1901-1911 TELEGRAPH AVENUE OAKLAND, CALIFORNIA



LEGEND

- ◆ MONITORING WELL
- ⊕ SOIL PROBE
- [ ] BENZENE CONCENTRATION [ug/L]
- { } TPH AS GASOLINE CONCENTRATIONS {ug/L}
- ( ) METHYL TERT-BUTYL ETHER (MTBE) CONCENTRATIONS (ug/L)  
(ANALYZED BY EPA 8260 AND GC/MS COMBINATION)
- \* DUPLICATE



SEARS, ROEBUCK & CO.  
SITE NO. 1039

FIGURE-2  
CONCENTRATIONS OF BENZENE  
TPH-AS-GASOLINE & MTBE  
IN GROUNDWATER  
(SAMPLED NOVEMBER 6, 2000)  
1901-1911 TELEGRAPH AVENUE  
OAKLAND, CALIFORNIA

**Attachment 2**

**Tables**

**TABLE 1**  
**Summary of Historical Groundwater Monitoring Data**  
 (All measurements are in feet; all elevations are in feet above mean sea level)

Sears Store 1039  
 1911 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-1	94.34	6/12/96	16.21	-	-	78.13
		9/5/96	16.89	-	-	77.45
		12/3/96	17.07	-	-	77.27
		2/27/97	15.55	-	-	78.79
		6/10/97	16.46	-	-	77.88
		8/27/97	16.97	-	-	77.37
		11/26/97	17.24	-	-	77.10
		2/11/98	16.07	-	-	78.27
		5/19/98	15.43	-	-	78.91
		8/10/98	15.98	-	-	78.36
		11/9/98	16.63	-	-	77.71
		2/11/99	16.55	-	-	77.79
		5/10/99	15.50	-	-	78.84
		8/9/99	15.82	-	-	78.52
		11/5/99	16.29	-	-	78.05
		2/1/00	16.02	-	-	78.32
5/2/00	14.48	-	-	79.86		
8/1/00	15.20	-	-	79.14		
11/6/00	15.63	-	-	78.71		
MW-2	93.95	6/12/96	16.01	-	-	77.94
		9/5/96	16.66	-	-	77.29
		12/3/96	16.20	-	-	77.75
		2/27/97	14.46	-	-	79.49
		6/10/97	14.00	-	-	79.95
		8/27/97	16.55	-	-	77.40
		11/26/97	16.86	-	-	77.09
		2/11/98	15.85	-	-	78.10
		5/19/98	15.32	-	-	78.63
		8/10/98	15.82	-	-	78.13
		11/9/98	16.53	-	-	77.42
		2/11/99	16.38	-	-	77.57
		5/10/99	15.19	-	-	78.76
		8/9/99	16.09	-	-	77.86
		11/5/99	16.20	-	-	77.75
		2/1/00	16.00	-	-	77.95
5/2/00	14.90	-	-	79.05		
8/1/00	15.25	-	-	78.70		
11/6/00	15.45	-	-	78.50		
MW-3	96.15	6/12/96	17.56	-	-	78.59
		9/5/96	18.32	-	-	77.83
		12/3/96	18.57	-	-	77.58
		2/27/97	17.43	-	-	78.72
		6/10/97	18.12	-	-	78.03
		8/27/97	18.47	-	-	77.68
		11/26/97	18.70	-	-	77.45
		2/11/98	17.76	-	-	78.39
		5/19/98	16.99	-	-	79.16
8/10/98	17.51	-	-	78.64		



**TABLE 1**  
 Summary of Historical Groundwater Monitoring Data  
 (All measurements are in feet; all elevations are in feet above mean sea level)

Sears Store 1039  
 1911 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-3 cont.		11/9/98	18.07	-	-	78.08
		2/11/99	18.07	-	-	78.08
		5/10/99	17.04	-	-	79.11
		8/9/99	17.77	-	-	78.38
		11/5/99	18.00	-	-	78.15
		2/1/00	17.95	-	-	78.20
		5/2/00	16.83	-	-	79.32
		8/1/00	17.13	-	-	79.02
		11/6/00	17.54	-	-	78.61
MW-4	92.01	6/12/96	14.21	-	-	77.80
		9/5/96	14.83	-	-	77.18
		12/3/96	13.99	-	-	78.02
		2/27/97	12.44	-	-	79.57
		6/10/97	14.20	-	-	77.81
		8/27/97	14.62	-	-	77.39
		11/26/97	15.00	-	-	77.01
		2/11/98	14.10	-	-	77.91
		5/19/98	13.57	-	-	78.44
		8/10/98	14.10	-	-	77.91
		11/9/98	14.75	-	-	77.26
		2/11/99	14.57	-	-	77.44
		5/10/99	13.46	-	-	78.55
		8/9/99	14.15	-	-	77.86
		11/5/99	14.62	-	-	77.39
		2/1/00	14.50	-	-	77.51
		5/2/00	13.40	-	-	78.61
8/1/00	13.70	-	-	78.31		
11/6/00	14.00	-	-	78.01		
MW-5	92.09	6/12/96	14.13	-	-	77.96
		9/5/96	14.77	-	-	77.32
		12/3/96	13.99	-	-	78.10
		2/27/97	12.08	-	-	80.01
		6/10/97	16.00	-	-	76.09
		8/27/97	14.55	-	-	77.54
		11/26/97	14.95	-	-	77.14
		2/11/98	13.97	-	-	78.12
		5/19/98	13.52	-	-	78.57
		8/10/98	13.97	-	-	78.12
		11/9/98	14.67	-	-	77.42
		2/11/99	14.50	-	-	77.59
		5/10/99	13.23	-	-	78.86
		8/9/99	13.90	-	-	78.19
		11/5/99	14.40	-	-	77.69
		2/1/00	14.15	-	-	77.94
		5/2/00	13.10	-	-	78.99
8/1/00	13.52	-	-	78.57		
11/6/00	13.93	-	-	78.16		
MW-6	92.16	6/12/96	14.99	-	-	77.17
		9/5/96	15.50	-	-	76.66
		12/3/96	15.07	-	-	77.09

**TABLE 1**  
**Summary of Historical Groundwater Monitoring Data**  
 (All measurements are in feet; all elevations are in feet above mean sea level)

Sears Store 1039  
 1911 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-6 cont.		2/27/97	14.14	-	-	78.02
		6/10/97	15.30	-	-	76.86
		8/27/97	15.42	-	-	76.74
		11/26/97	15.70	-	-	76.46
		2/11/98	14.87	-	-	77.29
		5/19/98	14.32	-	-	77.84
		8/10/98	14.90	-	-	77.26
		11/9/98	15.39	-	-	76.77
		2/11/99	15.21	-	-	76.95
		5/10/99	14.12	-	-	78.04
		8/9/99	15.00	-	-	77.16
		11/5/99	15.55	-	-	76.61
		2/1/00	15.40	-	-	76.76
		5/2/00	14.55	-	-	77.61
		8/1/00	14.85	-	-	77.31
11/6/00	15.10	-	-	77.06		
MW-7	93.80	6/12/96	16.56	-	-	77.24
		9/5/96	17.10	-	-	76.70
		12/3/96	17.12	-	-	76.68
		2/27/97	16.20	-	-	77.60
		6/10/97	17.00	-	-	76.80
		8/27/97	17.18	-	-	76.62
		11/26/97	17.40	-	-	76.40
		2/11/98	16.65	-	-	77.15
		5/19/98	15.96	-	-	77.84
		8/10/98	16.48	-	-	77.32
		11/9/98	16.98	-	-	76.82
		2/11/99	16.94	-	-	76.86
		5/10/99	15.87	-	-	77.93
		8/9/99	16.60	-	-	77.20
		11/5/99	17.01	-	-	76.79
2/1/00	17.00	-	-	76.80		
5/2/00	16.00	-	-	77.80		
8/1/00	16.40	-	-	77.40		
11/6/00	16.67	-	-	77.13		
MW-8	94.49	11/5/99	18.15	-	-	76.34
		2/1/00	18.10	-	-	76.39
		5/2/00	17.26	-	-	77.23
		8/1/00	17.52	-	-	76.97
		11/6/00	17.83	-	-	76.66
MW-9	92.54	11/5/99	16.86	-	-	75.68
		2/1/00	16.70	-	-	75.84
		5/2/00	16.02	-	-	76.52
		8/1/00	16.34	-	-	76.20
		11/6/00	16.55	-	-	75.99

Notes:

-- = No data for the cell, including "product not detected"

**TABLE 2**  
**Summary of Historical Groundwater Analyses**  
**(All results expressed in micrograms per liter)**

Sears Store 1039  
 1911 Telegraph Avenue, Oakland, California

Well ID	Date Sampled	MTBE	Benzene	Toulene	Ethyl- benzene	Total Xylenes	TPH as Gasoline	PCE	TCE	1,2-DCA	cis-1,2 DCE	1,1-DCE	OIL/ GREASE
MW-1	10/1/95	--	ND	ND	ND	ND	<50	9.9	ND	ND	--	--	--
	1/1/96	--	ND	ND	ND	ND	<50	9.9	14	ND	--	--	--
	6/12/96	--	<0.5	1.4	<0.5	<2	<50	12	<0.5	<0.5	--	--	--
	9/5/96	<5.0	<0.5	<0.5	<0.5	<2	<50	12	<0.5	<0.5	--	--	--
	12/3/96	<5.0	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	2/27/97	<5.0	<0.5	<0.5	<0.5	<2	<50	31	1.3	<0.5	<0.5	<0.5	--
	6/10/97	<5.0	<0.5	<0.5	<0.5	<2	<50	19	<0.5	<0.5	<0.5	<0.5	--
	8/27/97	<5.0	<0.5	<0.5	<0.5	<2	<50	16	<0.5	<0.5	<0.5	<0.5	--
	11/26/97	<5.0	<0.5	<0.5	<0.5	<2	<50	17	<0.5	<0.5	<0.5	<0.5	--
	2/11/98	<5.0	<0.5	<0.5	<0.5	<3	<50	20	<0.5	<0.5	<0.5	<0.5	--
	5/19/98	<5.0	<0.5	<0.5	<0.5	<4	<50	14	<0.5	<0.5	<0.5	<0.5	--
	8/10/98	<2.5	<0.5	<0.5	<0.5	<5	<50	14	<0.5	<0.5	<0.5	<0.5	--
	11/9/98	3.1	<0.5	<0.5	<0.5	<0.5	<50	16	<0.5	<0.5	<0.5	<0.5	--
	2/8/99	<2.5	<0.5	<0.5	<0.5	<5	<50	<0.5	20	<0.5	<0.5	<0.5	--
	5/10/99	<2.5	<0.5	<0.5	<0.5	<0.5	<50	14	<0.5	<0.5	<0.5	<0.5	--
	8/9/99	<2.5	<0.5	<0.5	<0.5	<0.5	<50	14	<0.5	<0.5	<0.5	<0.5	--
	11/5/99	<2.5	<0.5	<0.5	<0.5	<0.5	<50	20	<0.5	<0.5	<0.5	<0.5	--
	2/1/00	<0.5*	<0.5	<0.5	<0.5	<0.5	<50	24	<0.5	<0.5	<0.5	<0.5	--
	5/2/00	<0.5*	<0.5	<0.5	<0.5	<0.5	<50	23	<0.5	<0.5	<0.5	<0.5	--
	8/1/00	<0.5	<0.5	<0.5	<0.5	<0.5	<50	21	0.5	<0.5	<0.5	<0.5	--
11/6/00	<0.5	<0.5	<0.5	<0.5	<0.5	<50	31	<0.5	<0.5	<0.5	<0.5	--	
MW-2	10/1/95	--	1,200	5.4	41	5.9	2,900	ND	40	280	--	--	--
	1/1/96	--	1,100	11.0	100	6.9	780	ND	38	270	--	--	--
	6/12/96	--	890	7.0	56	10	3,600	<3	40	160	--	--	--
	9/5/96	<5.0	350	3.0	17	10	2,100	<0.5	29	55	1.9	55	--
	12/3/96	40	230	2.4	7.8	7	1,100	<0.5	20	86	7	<0.5	--
	2/27/97	12	210	2.2	6	3	1,000	1	25	43	<0.5	<0.5	--
	6/10/97	<30	510	3.0	6	<10	1.8	1	19	47	4.9	<0.5	--
	8/27/97	11	51	<0.5	1.4	<2	450	0.5	16	29	4.2	<0.5	--
	11/26/97	<30	380	5.0	9	12	1,200	1	13	29	3.1	<0.5	--
	2/11/98	8	310	4.0	9.8	9	1,100	<0.5	16	<0.5	2.6	0.6	--
	5/19/98	20	320	2.1	9.9	8	1,200	1	14	47	1.6	<0.5	--
	8/10/98	40	37	1.0	1.2	0.9	300	<0.5	11	30	2.4	<0.5	--
	11/9/98	<2.5	57	<0.5	1.7	<0.5	440	<0.5	12	25	2.3	<0.5	--
	2/8/99	11	240	2.3	8.9	5	480	<0.5	11	36	1.4	<0.5	--
	5/10/99	24/<2.0*	260	2.2	7.9	4.2	260	<0.5	7	24	3.4	<0.5	--
	8/9/99	14/<2.0*	43	0.79	0.54	<0.5	250	<0.5	11	33	2.6	<0.5	--
	11/5/99	11/<2.0*	63	0.68	0.65	1.1	320	<0.5	13	41	1.3	<0.5	--
	2/1/00	<0.5*	610/ 590**	4.4/ 6.3**	63/ 65**	5.9/ 7.1**	1200	<0.5	15	73	2	<0.5	--
	5/2/00	<0.5*	540/600**	3.7/<5.0**	15/14**	14/11**	930	<0.5	8.4	32	4.5	<0.5	--
	8/1/00	<0.5	110	1.2	4.8	1.6	410	<0.5	9.4	23	2.9	<0.5	--
11/6/00	20	150/130**	09/ .09**	4.1/3.7**	1.1/1.0**	450	<0.5	10	20	1.6	<0.5	--	
MW-3	10/1/95	--	ND	ND	ND	ND	<50	ND	ND	ND	--	--	--
	1/1/96	--	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
	6/12/96	--	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	--	--	<0.5
	9/5/96	<5.0	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	--	--	<0.5
	12/3/96	<5.0	<0.5	<0.5	<0.5	<2	<50	2.3	<0.5	<0.5	<0.5	<0.5	--
	2/27/97	<5.0	<0.5	<0.5	<0.5	<2	<50	6.3	<0.5	<0.5	<0.5	<0.5	--
	6/10/97	<5.0	<0.5	<0.5	<0.5	<2	<50	5.9	<0.5	<0.5	<0.5	<0.5	--
	8/27/97	<5.0	<0.5	<0.5	<0.5	<2	<50	5.8	<0.5	<0.5	<0.5	<0.5	--
	11/26/97	<5.0	<0.5	<0.5	<0.5	<2	<50	7.9	<0.5	<0.5	<0.5	<0.5	--
	2/11/98	<5.0	<0.5	<0.5	<0.5	<2	<50	7.9	<0.5	<0.5	<0.5	<0.5	--
	5/19/98	<5.0	<0.5	<0.5	<0.5	<2	<50	5.5	<0.5	<0.5	<0.5	<0.5	--
	8/10/98	<2.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--
	11/9/98	<2.5	<0.5	<0.5	<0.5	<0.5	<50	5.5	<0.5	<0.5	<0.5	<0.5	--
	2/8/99	<2.5	<0.5	<0.5	<0.5	<0.5	<50	6.4	<0.5	<0.5	<0.5	<0.5	--
	5/10/99	<2.5	<0.5	<0.5	<0.5	<0.5	<50	5.1	<0.5	<0.5	<0.5	<0.5	--
8/9/99	<2.5	<0.5	<0.5	<0.5	<0.5	<50	4.8	<0.5	<0.5	<0.5	<0.5	--	
11/5/99	<2.5	<0.5	<0.5	<0.5	<0.5	<50	7.2	<0.5	<0.5	<0.5	<0.5	--	

**TABLE 2**  
**Summary of Historical Groundwater Analyses**  
 (All results expressed in micrograms per liter)

Sears Store 1039  
 1911 Telegraph Avenue, Oakland, California

Well ID	Date Sampled	MTBE	Benzene	Toulene	Ethyl-benzene	Total Xylenes	TPH as Gasoline	PCE	TCE	1,2-DCA	cis-1,2 DCE	1,1-DCE	OIL/GREASE
MW-3 (cont'd)	2/1/00	<0.5*	<0.5	<0.5	<0.5	<0.5	<50	6.9	<0.5	<0.5	<0.5	<0.5	-
	5/2/00	<0.5*	<0.5	<0.5	<0.5	<0.5	<50	6.4	<0.5	<0.5	<0.5	<0.5	-
	8/1/00	<0.5	<0.5	<0.5	<0.5	<0.5	<50	5.6	<0.5	<0.5	<0.5	<0.5	-
	11/6/00	<0.5	<0.5	<0.5	<0.5	<0.5	<50	7.9	<0.5	<0.5	<0.5	<0.5	-
MW-4	10/1/95	-	4.1	ND	ND	ND	<50	ND	ND	ND	-	-	-
	1/1/96	-	5.8	ND	ND	ND	<50	ND	ND	ND	-	-	-
	6/12/96	-	11	<0.5	<0.5	<2	320	<0.5	<0.5	<0.5	-	-	<0.5
	9/5/96	-	5.6	<0.5	<0.5	<2	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/3/96	15	11	<0.5	<0.5	<2	270	<0.5	<0.5	0.9	<0.5	<0.5	<0.5
	2/27/97	<5.0	3.1	<0.5	<0.5	<2	190	<0.5	<0.5	<0.5	<0.5	<0.5	<500
	6/10/97	<5.0	11	<0.5	<0.5	<2	200	<0.5	<0.5	<0.5	<0.5	<0.5	-
	8/27/97	<5.0	9.6	<0.5	<0.5	<2	170	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	11/26/97	<5.0	6.7	<0.5	<0.5	<2	100	<0.5	<0.5	<0.5	<0.5	<0.5	<500
	2/11/98	<5.0	8.4	<0.5	<0.5	<2	110	<0.5	<0.5	<0.5	<0.5	<0.5	<500
	5/19/98	7	4.6	<0.5	<0.5	<2	110	<0.5	<0.5	<0.5	<0.5	<0.5	<500
	8/10/98	11	4.1	<0.5	<0.5	<0.5	110	<0.5	<0.5	<0.5	<0.5	<0.5	9,600
	11/9/98	<2.5	7.5	<0.5	<0.5	<0.5	130	<0.5	<0.5	<0.5	<0.5	<0.5	<500
	2/8/99	<2.5	6.8	<0.5	<0.5	<0.5	60	<0.5	<0.5	<0.5	<0.5	<0.5	<500
	5/10/99	<2.0	1.3	<0.5	<0.5	<0.5	61	<0.5	<0.5	<0.5	<0.5	<0.5	<5000
	8/9/99	3.9/<2.0*	7.9	<0.5	<0.5	<0.5	94	<0.5	<0.5	<0.5	<0.5	<0.5	<1000
	11/5/99	<2.5	9.0	<0.5	<0.5	<0.5	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	2/1/00	<0.5*	18	<0.5	<0.5	<0.5	150	<0.5	<0.5	<0.5	<0.5	<0.5	800
5/2/00	<0.5*	8.5	<0.5	<0.5	<0.5	55	<0.5	<0.5	<0.5	<0.5	<0.5	<1000	
8/1/00	<0.5	0.9	<0.5	<0.5	<0.5	<50	<0.5	<0.5	<0.5	<0.5	<0.5	>1000	
11/6/00	<0.5	22	<0.5	<0.5	<0.5	88	<0.5	<0.5	<0.5	<0.5	<0.5	>1000	
MW-5	10/1/95	-	86	ND	ND	ND	260	ND	ND	ND	-	-	-
	1/1/96	-	160	3.6	ND	ND	180	ND	ND	ND	-	-	-
	6/12/96	-	54	1.1	<0.5	<2	260	<0.5	<0.5	<0.5	-	-	-
	9/5/96	<5.0	22	1.0	<0.5	<2	160	<0.5	<0.5	<0.5	-	-	-
	12/3/96	6	18	0.6	<0.5	<2	170	<0.5	<0.5	<0.5	<0.5	<0.5	-
	2/27/97	<5	74	2.0	<0.5	<2	230	<0.5	<0.5	<0.5	<0.5	<0.5	-
	6/10/97	<30	490	19.0	<3.0	<10	1,200	<0.5	<0.5	<0.5	<0.5	<0.5	-
	8/27/97	<5.0	100	4.6	<0.5	<2	340	<0.5	<0.5	<0.5	<0.5	<0.5	-
	11/26/97	<5.0	78	4.5	0.6	<2	400	<0.5	<0.5	<0.5	<0.5	<0.5	-
	2/11/98	<5.0	62	2.9	<0.5	<2	320	<0.5	<0.5	<0.5	<0.5	<0.5	-
	5/19/98	<5.0	97	2.6	<0.5	<2	330	<0.5	<0.5	<0.5	<0.5	<0.5	-
	8/10/98	11	48	1.9	<0.5	<0.5	190	<0.5	<0.5	<0.5	<0.5	<0.5	-
	11/9/98	<2.5	3.8	<0.5	<0.5	<0.5	81	<0.5	<0.5	<0.5	<0.5	<0.5	-
	2/8/99	3.8	3	<0.5	<0.5	<0.5	82	<0.5	<0.5	<0.5	<0.5	<0.5	-
	5/10/99	2.6/<2.0*	8.8	<0.5	<0.5	<0.5	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
	8/9/99	5.6/<2.0*	25	<0.5	<0.5	<0.5	150	<0.5	<0.5	<0.5	<0.5	<0.5	-
	11/5/99	4.3/<2.0*	20	<0.5	<0.5	0.76	160	<0.5	<0.5	<0.5	<0.5	<0.5	-
	2/1/00	<0.5*	42	1.2	<0.5	<0.5	180	<0.5	<0.5	<0.5	<0.5	<0.5	-
5/2/00	<0.5*	12	0.7	<0.5	<0.5	120	<0.5	<0.5	<0.5	<0.5	<0.5	-	
8/1/00	<0.5	11	<0.5	<0.5	<0.5	69	<0.5	<0.5	<0.5	<0.5	<0.5	-	
11/6/00	<0.5	7.0	<0.5	<0.5	<0.5	72	<0.5	<0.5	<0.5	<0.5	<0.5	-	
MW-6	10/1/95	-	ND	ND	ND	ND	<50	6.2	11	33	-	-	-
	1/1/96	-	ND	ND	ND	ND	<50	7.2	12	5.3	-	-	-
	6/12/96	-	<0.5	<0.5	<0.5	<2	<50	3.6	5	7.9	-	-	<0.5
	9/5/96	<5	0.8	<0.5	<0.5	<2	<50	5.4	5.2	7.5	-	-	<0.5
	12/3/96	<5	<0.5	<0.5	<0.5	<2	<50	0.9	0.6	0.5	<0.5	<0.5	<0.5
	2/27/97	<5	<0.5	<0.5	<0.5	<2	<50	1.3	0.5	<0.5	<0.5	<0.5	<500
	6/10/97	<5	0.9	<0.5	<0.5	<2	<50	1	<0.5	<0.5	<0.5	<0.5	-
	8/27/97	<5	<0.5	<0.5	<0.5	<2	<50	0.9	<0.5	<0.5	<0.5	<0.5	<0.5
	11/26/97	7.6	15	0.9	9.1	<2	320	1.2	0.6	0.8	<0.5	<0.5	<500
	2/11/98	<5	<0.5	<0.5	<0.5	<2	<50	0.7	<0.5	0.5	<0.5	<0.5	<500
	5/19/98	<5	0.6	<0.5	<0.5	<2	<50	0.6	<0.5	<0.5	<0.5	<0.5	<500
	8/10/98	<2.5	<0.5	<0.5	<0.5	<0.5	<50	0.5	0.59	1.3	<0.5	<0.5	9,000
11/9/98	<2.5	<0.5	<0.5	<0.5	<0.5	<50	1.2	0.92	1.7	<0.5	<0.5	<500	

**TABLE 2**  
**Summary of Historical Groundwater Analyses**  
**(All results expressed in micrograms per liter)**

**Sears Store 1039**  
**1911 Telegraph Avenue, Oakland, California**

Well ID	Date Sampled	MTBE	Benzene	Toulene	Ethyl-benzene	Total Xylenes	TPH as Gasoline	PCE	TCE	1,2-DCA	cis-1,2 DCE	1,1-DCE	OIL/ GREASE
MW-6 (cont'd)	2/8/99	<2.5	<0.5	<0.5	<0.5	<0.5	<50	0.86	<0.5	1.2	<0.5	<0.5	<500
	5/10/99	<2.5	<0.5	<0.5	<0.5	<0.5	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5000
	8/9/99	<2.5	<0.5	<0.5	<0.5	<0.5	<50	0.52	<0.5	<0.5	<0.5	<0.5	<1000
	11/5/99	<2.5	<0.5	<0.5	<0.5	<0.5	<50	0.89	0.89	1.2	<0.5	<0.5	-
	2/1/00	<0.5*	<0.5	<0.5	<0.5	<0.5	<50	1.2	0.9	2.2	<0.5	<0.5	<1000
	5/2/00	<0.5*	<0.5	<0.5	<0.5	<0.5	<50	2.6	0.8	1.3	<0.5	<0.5	<1000
	8/1/00	<0.5	<0.5	<0.5	<0.5	<0.5	<50	0.8	0.9	2.3	<0.5	<0.5	>1000
	11/6/00	<0.5	<0.5	<0.5	<0.5	<0.5	<50	0.9	0.9	3.3	<0.5	<0.5	>1000
MW-7	10/1/95	-	ND	ND	ND	ND	<50	5.3	3.5	8.3	-	-	-
	1/1/96	-	ND	ND	ND	ND	<50	9.3	4.8	5.7	-	-	-
	6/12/96	-	0.6	<0.5	<0.5	<2	<50	6.1	3.4	2.9	-	-	-
	9/5/96	<5	1.2	<0.5	<0.5	<2	<50	8.3	4.2	5.9	-	-	-
	12/3/96	<5	850	<5	<5	30	120	4	4	75	<3	<3	<0.5
	2/27/97	<30	1500	3.0	23	<10	2,500	2	4	65	<0.5	<0.5	-
	6/10/97	<50	1700	<5	59	<20	3,200	2	4.2	85	<0.5	<0.5	-
	8/27/97	90	1700	8.0	200	40	3,900	<3	5	93	<3	<3	-
	11/26/97	90	3,100	15.0	190	30	5,600	3	5.9	120	1	<0.5	-
	2/11/98	90	3,800	25.0	250	80	8,500	4	8.9	93	1.2	<0.5	-
	5/19/98	300	2,100	440.0	150	220	5,000	2	3.8	74	0.6	<0.5	-
	8/10/98	<50	690	<10	13	<10	1,600	<2.5	3.3	100	<2.5	<2.5	-
	11/9/98	8.7	295	5.5	4.3	1.5	930	4.2	6.5	110	<2.5	<2.5	-
	2/8/99	<50	670	<10	14	<10	1,500	6	3.4	74	<1.2	<1.2	-
	5/10/99	63/<2.0*	1,800	16.0	81	130	2,800	1	2.6	65	0.63	<0.5	-
	8/9/99	300/6.5	570	5.1	28	30	1,500	<0.5	1.2	95	0.57	<0.5	-
	11/5/99	150/11*	1,200	<5	61	25	2,100	4	7.8	95	1.6	<0.5	-
	2/1/00	6.6*	2,600	16.0	140	210	4,600	3	6	110	1.7	<0.5	-
5/2/00	<5.0*	2,700	25	80	270	4,200	<5.0	<5.0	84	<5.0	<5.0	-	
8/1/00	<10	5,500	27	300	390	5,600	<10	<10	85	<10	<10	-	
11/6/00	<10	3,400	29	230	330	6,000	<10	<10	66	<10	<10	-	
MW-8	11/5/99	<2.5	<0.5	<0.5	<0.5	<0.5	<50	8.2	<0.5	<0.5	<0.5	<0.5	-
	2/1/00	<0.5*	0.6	<0.5	<0.5	<0.5	<50	7.8	<0.5	<0.5	<0.5	<0.5	-
	5/2/00	<0.5*	1.1	<0.5	<0.5	<0.5	<50	5.9	<0.5	<0.5	<0.5	<0.5	-
	8/1/00	<0.5	<0.5	<0.5	<0.5	<0.5	<50	5.6	<0.5	<0.5	<0.5	<0.5	-
	11/6/00	<0.5	1.3	<0.5	<0.5	<0.5	<50	5.5	<0.5	<0.5	<0.5	<0.5	-
MW-9	11/5/99	3/2.4*	<0.5	<0.5	<0.5	<0.5	<50	65	29	32	<0.5	<0.5	-
	2/1/00	3.0*	2.6	<0.5	<0.5	<0.5	<50	60	22	36	0.7	<0.5	-
	5/2/00	2.0*	0.6	<0.5	<0.5	<0.5	77	39	19	30	0.5	<0.5	-
	8/1/00	2.7	<0.5	<0.5	<0.5	<0.5	70	41	19	37	0.7	<0.5	-
	11/6/00	3.2	0.6	<0.5	<0.5	<0.5	74	31	15	34	0.8	<0.5	-

Notes. Historical data before June 1996 as reported by previous consultants

- = No datum for the cell, including "not analyzed for this constituent"

< = Compound was not detected above the laboratory reporting limits.

TPH = Total petroleum hydrocarbons

ND = Non-detectable

PCE = Tetrachloroethene

1,2-DCA = 1,2-Dichloroethane

TCE = Trichloroethene

MTBE = Methyl tert-Butyl ether

\* = MTBE analysis using EPA 8260

\*\* = Duplicate

cis-1,2-D = CIS-1,2-Dichloroethene

1,1-DCE = 1,1 Dichloroethene

**Attachment 3**

**Groundwater Monitoring and Sample Collection Protocol  
and Field Data Sheets**

## **IT CORPORATION GROUNDWATER MONITORING AND SAMPLE COLLECTION PROTOCOL**

### **Groundwater Monitoring**

Groundwater monitoring is accomplished using an INTERFACE PROBE™ Well Monitoring System. The INTERFACE PROBE™ Well Monitoring System is a hand held, battery operated device for measuring the depth to separate-phase hydrocarbons and depth to water. The INTERFACE PROBE™ Well Monitoring System consists of a dual-sensing probe, which utilized an optical liquid sensor and electrical conductivity to distinguish between water and petroleum products.

Monitoring is accomplished by measuring from the surveyed top of well casing or grade to groundwater and separate-phase hydrocarbons if present. The static water elevation is then calculated for each well and a potentiometric surface map is constructed. If separate-phase hydrocarbons are detected the water elevation is adjusted by the following calculation:

$$(\text{Product thickness}) \times (0.8) + (\text{Water elevation}) = \text{Corrected water elevation}$$

Groundwater monitoring wells are monitored in order of wells with lowest concentrations of volatile organic compounds to wells with the highest concentrations, based upon historical concentrations. If separate-phase hydrocarbons are encountered in a well, the product is visually inspected to confirm and note color, amount, and viscosity. Monitoring equipment is washed with laboratory grade detergent and rinsed with distilled or deionized water before monitoring each well.

### **Groundwater Sampling**

Before groundwater samples are collected, sufficient water is purged from each well to ensure representative formation water is entering the well. Wells are purged and sampled in the same order as monitoring, from wells with the lowest concentrations of volatile organic compounds to wells with the highest concentrations. Wells are purged using either a polyvinyl chloride (PVC) bailer fitted with a check valve or with a stainless steel submersible Grundfos pump. The purge equipment is decontaminated before use in each well by washing with laboratory grade detergent and triple rinsing with deionized or distilled water. A minimum of 3 well-casing volumes of water are removed from each well while pH, electrical conductivity, and temperature are recorded to verify that "fresh" formation water is being sampled and the parameters have stabilized. If the well is low yielding, it may be purged dry and sampled before three casing volumes are purged. The wells are then allowed to recharge to approximately 80 percent of the initial water level before a sample is collected.

Groundwater samples are collected from each well using a new, prepackaged disposable bailer and string. The water sample is decanted from the bailer into laboratory-provided containers (appropriate for the analyses required) so that there is no headspace in the containers. Samples collected for benzene, toluene, ethylbenzene, xylenes, and total petroleum hydrocarbons as gasoline analyses are collected in 40-milliliter vials fitted with Teflon septum lids. Samples are preserved with hydrochloric acid (HCL) to a pH of less than 2. Dissolved metals samples are filtered through a 0.45-micron paper filter in the field and preserved as required before submitting to the laboratory for analyses. All samples are labeled immediately upon collection and logged on the chain-of-custody record. Sample label and chain-of-custody recorded information includes the project name and number, sample identification, date and time of collection, analyses requested, and the sampler's name. Sample bottles are placed in plastic bags (to protect the bottles and labels) and on ice (frozen water) in an insulated cooler and are shipped under chain-of-custody protocol to the laboratory.

The chain-of-custody record documents who has possession of the samples until the analyses is performed. Other pertinent information is also noted for the laboratory use on the chain-of-custody record.

Trip blanks (TBLBs) are used for each project as a quality assurance/quality control measure. The TBLBs are prepared by the laboratory and are placed in the insulated cooler and accompany the field samples throughout the sampling event.

11/6

SITE VISIT FORM  
IT Corporation - Concord, California

Project: 803686.00  
Site: SEARS/1039/Oakland, CA  
Project Mgr: David Bero

Technician: H Merino  
Scheduled: 11/06/2000  
Site Mgr: Brad Wooland

PREPARATORY COMMENTS

Visit Date: 11-6-00 Arrival Time: 9:00am Departure Time: 12:30

Work Order read in office:  Y/N upon arrival:  Y/N upon departure:  Y/N

Called PM?  Y/N Time: 14:00 Who: David B Topic: off site drums

Are You In Possession of a Site Safety Plan?  Y/N

COC: Complete with store #, site address & proj office address?  Y/N

Job # and task #

GROUNDWATER SAMPLING - Task Nr: 03054300 [Quarterly]

SITE ADDRESS: 1911 Telegraph Avenue, Oakland, CA

cc: David Bero

NOTE: CONTACT SEARS SITE MANAGER AND GET BUSINESS CARD WHILE ON SITE.

NOTIFY: Jennie Pinocci 48 hrs. in advance (510) 444-7662. (She will insure that wells are not covered). Called 11/20/00

Notify Don Whang 72 hrs. in advance (510) 567-6746. DONE: 11/21/00 @ 8:00 am - message

During any sampling activities, a minimum work zone will be defined by 10 ft by 10 ft square centered around the monitor well and marked with 36" -high orange traffic cones with flag poles and flag placed in the center of the cone and caution tape stretched between the cones. Employees will be constantly aware of the public access to the work zone and keep them within the outer perimeter of the cones and caution tape at all times.

1. Monitor and sample nine (9) wells in the following order: MW-3, MW-1, MW-6, MW-4, MW-5, MW-2, MW-8, MW-9 and MW-7. USE DISPOSABLE BAILERS. Collect two (2) 40ml HCL-preserved VOA's from all wells.
2. Furge each well of 3 well volumes or until dry. Record DTW, DTP, pH, conductivity, temperature and dissolved oxygen.
3. Collect one trip blank and one duplicate from MW-2 and submit for BTEX- 8020 only. Pick up or have trip blank delivered from lab. Must use lab trip (Zymax).



**SITE VISIT FORM**  
**IT Corporation - Concord, California**

Project: 803686.00  
 Site: SEARS/1039/Oakland, CA  
 Project Mgr: David Bero

Technician: H.M. Merino  
 Scheduled: 11/06/2000  
 Site Mgr: Brad Wooland

GROUNDWATER SAMPLING (Continued) - Task Nr: 03054300 [Quarterly]

4. Make a complete drum count and note the general condition of the site, wells and drums. Keep drum area tidy. Label drums properly (Non Haz. .

5. Submit samples to Zymax, ph. # (805) 544-4696, to be analyzed for BTEX/MTBE/TPH-G (EPA 8020/8015M/8260 and GC/MS combination. and Chlorinated hydrocarbons (EPA 8260 - GC/MS). Wells MW-4 and MW-6 additionally analyze for Oil and Grease (C/F).

6. COMPLETED ALL THREE PAGES OF WASTE/DRUM INVENTORY FORM? Yes IF NO, EXPLAIN \_\_\_\_\_

Hours Estimated

Hours Used

**FINAL CHECKS**

SITE SECURITY: well/covers/gates... secure? Y/N-If No, Explain

WASTE COMPLIANCE: # of Drums w/: Water\_\_\_, Soil\_\_\_, Empty\_\_\_, Other\_\_\_

DRUMS labeled? NA/Y/N Gen. Date:\_\_\_\_\_ Label Type:\_\_\_\_\_

SOIL pile? Y/N size:\_\_\_\_\_cu.yds. SITE LEFT CLEAN? Y/N

**TECHNICIAN'S COMMENTS**

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Total Hours Estimated

0.00

Total Hours Used

Travel Time Estimated

1.00

Travel Time Used

**SITE VISIT FORM**  
IT Corporation

Project: Sears/1039/Oakland  
Store # 1039, 1911 Telegraph Ave  
Project Manager: David Bero

Technician: H. M. Bero  
Schedule: 11-6-02  
Job No: 803686 03054300

**WELL WATER SAMPLING - TASK Nr: 03054300 [QUARTERLY]**  
Gauge wells for volume of water & bail 3 well Vol.s DECON  
all equipment & change gloves, string, etc between each well

Well ID

MW-1	DTB_24 25	DTW <u>15.63</u>	SAT THICK ___	#GAL BAILED ___
MW-2	DTB_24 10	DTW <u>15.45</u>	SAT THICK ___	#GAL BAILED ___
MW-3	DTB_27 75	DTW <u>17.54</u>	SAT THICK ___	#GAL BAILED ___
MW-4	DTB_23.55	DTW <u>14.00</u>	SAT THICK ___	#GAL BAILED ___
MW-5	DTB_25 10	DTW <u>13.93</u>	SAT THICK ___	#GAL BAILED ___
MW-6	DTB_26.75	DTW <u>15.10</u>	SAT THICK ___	#GAL BAILED ___
MW-7	DTB_26 20	DTW <u>16.67</u>	SAT THICK ___	#GAL BAILED ___
MW-8	DTB_25.00	DTW <u>17.83</u>	SAT THICK ___	#GAL BAILED ___
MW-9	DTB_25.00	DTW <u>16.55</u>	SAT THICK ___	#GAL BAILED ___

NOTES M's all wells, 2 drums inside garage.  
Garage has lifts inside.

HOURS ESTIMATED:

HOURS USED

FINAL CHECKS

Are Wells Locked?  YES  NO Why Not?

Are Manholes Bolted Down?  YES  NO Why Not?

DRUMMED MATERIAL INVENTORY FORM

Store Number 1039 Address/City/State/ZIP 1891 Telegraph Ave  
Oakland Ca. 94612  
 Sears Facility Contact and Phone # Bob McIntire (510) 628-8425  
 IT Corporation Representative Heidi Marino  
 Accumulation Start Date 11-6-00 Completion Date: 11-6-00  
 Exact Drum Storage Location Garage (former auto garage)

CONTENTS	# OF DRUMS	DRUM ID (A,B,C...) OR (1,2,3...)	LID TYPE (OPEN OR BUNG)	LABEL TYPE: HAZARDOUS, NON-HAZARDOUS, UNCLASSIFIED	DRUM DESCRIPTION, COLOR, CONDITION, MARKINGS
GASOLINE			O or B	H / N / U	
GASOLINE/WATER MIXTURE	<u>2</u>	<u>A1B</u>	<u>O or B</u>	<u>H / N / U</u>	<u>Black &amp; white</u>
GASOLINE IMPACTED PURGE WATER			O or B	H / N / U	
GASOLINE TANK BOTTOMS/SLUDGE			O or B	H / N / U	
GASOLINE IMPACTED DEBRIS			O or B	H / N / U	
GASOLINE IMPACTED SOIL			O or B	H / N / U	
FUEL OIL (INC DIESEL & HEATING OIL)			O or B	H / N / U	
FUEL OIL/WATER MIXTURE			O or B	H / N / U	
FUEL OIL IMPACTED PURGE WATER			O or B	H / N / U	
FUEL OIL TANKS BOTTOMS/SLUDGE			O or B	H / N / U	
FUEL OIL IMPACTED DEBRIS			O or B	H / N / U	
FUEL OIL IMPACTED SOIL			O or B	H / N / U	
HYDRAULIC FLUID			O or B	H / N / U	
HYDRAULIC FLUID/WATER MIXTURE			O or B	H / N / U	
HYDRAULIC FLUID IMPACTED PURGE WATER			O or B	H / N / U	
HYDRAULIC FLUID IMPACTED SLUDGE			O or B	H / N / U	
HYDRAULIC FLUID IMPACTED DEBRIS			O or B	H / N / U	
HYDRAULIC FLUID IMPACTED SOIL			O or B	H / N / U	
USED OIL			O or B	H / N / U	
USED OIL/WATER MIXTURE			O or B	H / N / U	
USED OIL IMPACTED PURGE WATER			O or B	H / N / U	
USED OIL TANK BOTTOMS/SLUDGE			O or B	H / N / U	
USED OIL IMPACTED DEBRIS			O or B	H / N / U	
USED OIL IMPACTED SOIL			O or B	H / N / U	
CHLORINATED SOLVENT			O or B	H / N / U	
NON-CHLORINATED SOLVENT			O or B	H / N / U	
OTHER			O or B	H / N / U	
OTHER			O or B	H / N / U	
OTHER			O or B	H / N / U	

NOTE: There should NEVER be 2 drums with the same ID present at a site at the same time!

DRUMMED MATERIAL INVENTORY FORM

Store Number 1039 City/State OAKland Calif  
 IT Corporation Representative Hector Merino

THERE SHOULD NEVER BE 2 DRUMS WITH THE SAME DRUM ID PRESENT AT A SITE AT THE SAME TIME

DRUM ID	ACCUMULATION START DATE	CONTENTS (as on label) VOLUME (if mixed waste)	SOURCE (be specific)	SLUDGE PRESENT (%)	VOLUME (gallon)
4	11-6-02	Purge water	Well Water	100	55
2	11-6-02	Purge Water	Well Water	100	55

EXAMPLE

A	6/24/94	diesel(3)/water(8)	diesel lines flush water	0	11
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NOTE: There should NEVER be 2 drums with the same ID present at a site at the same time!

BULK MATERIAL INVENTORY FORM

Store Number 1039 Address/City/State/ZIP 1891 Telegraph Ave  
Cleveland, OH 946512  
 Sears Facility Contact and Phone # Head Office (516) 622-8475  
 IT Corporation Representative Hector Medina  
 Accumulation Start Date 1-6-02 Completion Date 1-6-02  
 Exact Bulk Storage Location Georgia

CONTAMINANTS	SOIL (Cu Yds)	DEBRIS (Cu Yds)	LIQUID (Gallons)
GASOLINE			
FUEL OIL			
HYDRAULIC FLUID			
USED OIL			
CHLORINATED SOLVENT			
NON-CHLORINATED SOLVENT			
OTHER			
OTHER			

SOIL PILE CALCULATIONS

Calculation for a tent shaped soil pile

Length \_\_\_\_\_ X Width \_\_\_\_\_ X Height \_\_\_\_\_  $\div 2 \div 27 =$  \_\_\_\_\_ Yds<sup>3</sup>

Calculation for a rectangular or square shaped soil pile

Length \_\_\_\_\_ X Width \_\_\_\_\_ X Height \_\_\_\_\_  $\div 27 =$  \_\_\_\_\_ Yds<sup>3</sup>

Calculation for a conical (cone shaped) soil pile

04 X Radius \_\_\_\_\_ X Radius \_\_\_\_\_ X Height \_\_\_\_\_  $=$  \_\_\_\_\_ Yds<sup>3</sup>





















company IT Corp project Search/Remediation # 11-29 AN REC'D YmaX Time

address 1105 ... project # SP-086, C-3034200

sampler 4-1000 Minico

ZymaX use only	SAMPLE DESCRIPTION	Date Sampled	Time	Matrix	Preserve												# of containers	Remarks
	MW-3	11-6-00	10:12	GW	Hcl	X	X										2	
	MW-1	11-6-00	10:17	GW	Hcl	X	X										2	
	MW-6	11-6-00	10:25	GW	Hcl	X	X	X									3	
	MW-4	11-6-00	10:50	GW	Hcl	X	X	X									3	
	MW-5	11-6-00	11:08	GW	Hcl	X	X										2	
	MW-2	11-6-00	11:29	GW	Hcl	X	X										2	
	Dup	11-6-00	11:29	GW	Hcl	X			X								2	
	MW-8	11-6-00	12:00	GW	Hcl	X	X										2	
	MW-9	11-6-00	12:15	GW	Hcl	X	X										2	
	MW-7	11-6-00	12:29	GW	Hcl	X	X										2	
	TBLB	11-6-00	---	GW	Hcl				X								1	

Comments

Relinquished by: Signature [Signature] Print [Print] Company [Company] Date [Date] Time [Time]

Received by: Signature [Signature] Print [Print] Company [Company] Date [Date] Time [Time]

Sample Integrity upon receipt:

Samples received intact

Samples received cold

Custody seals

Correct container types

Bill 3rd Party: PO#                      Quote yes no

Relinquished by: Signature                      Print                      Company                      Date                      Time                     

Received by ZymaX envirotechnology inc: Signature                      Print                      Company                      Date                      Time

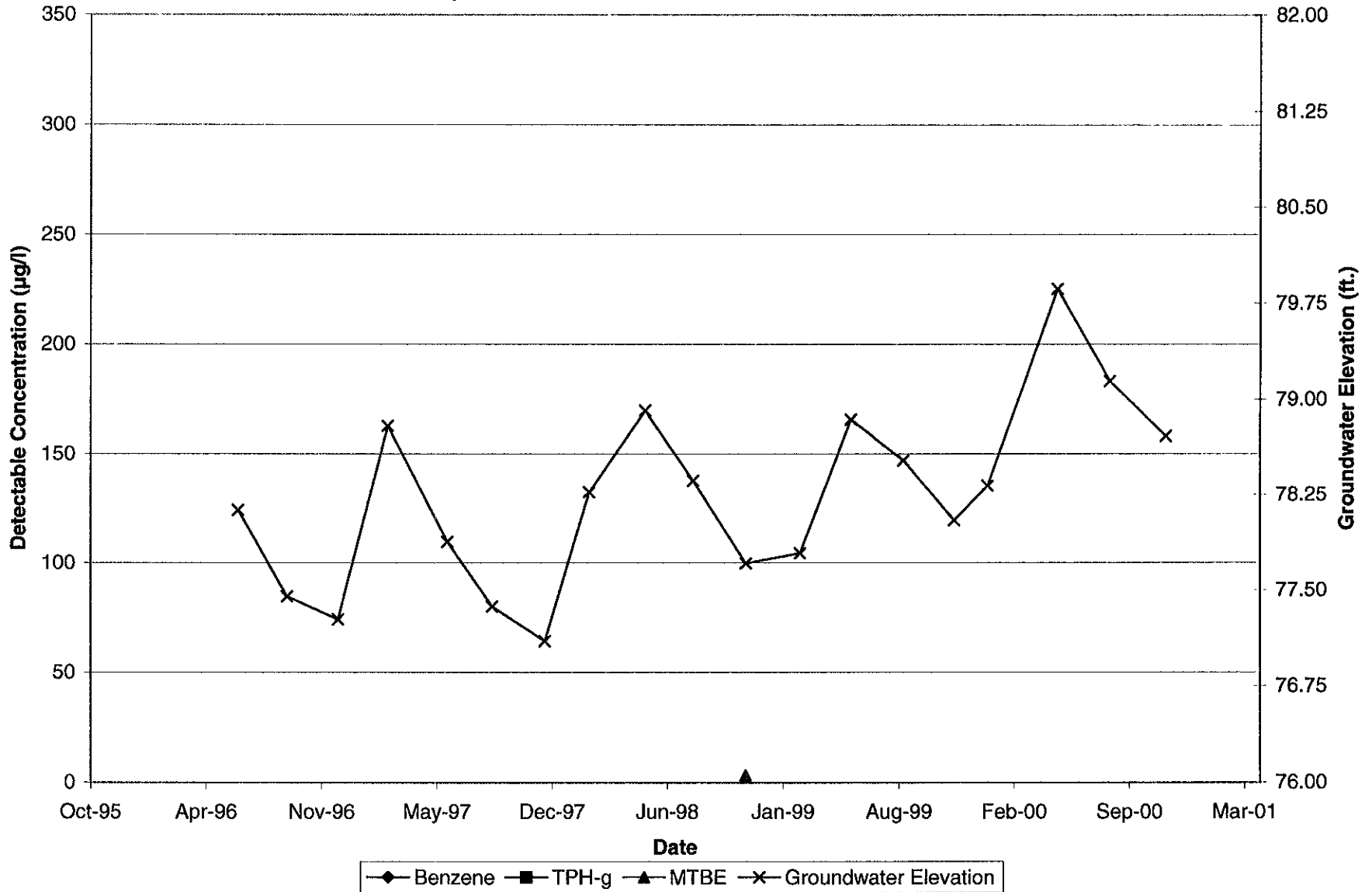
**Attachment 4**

**Graphs**



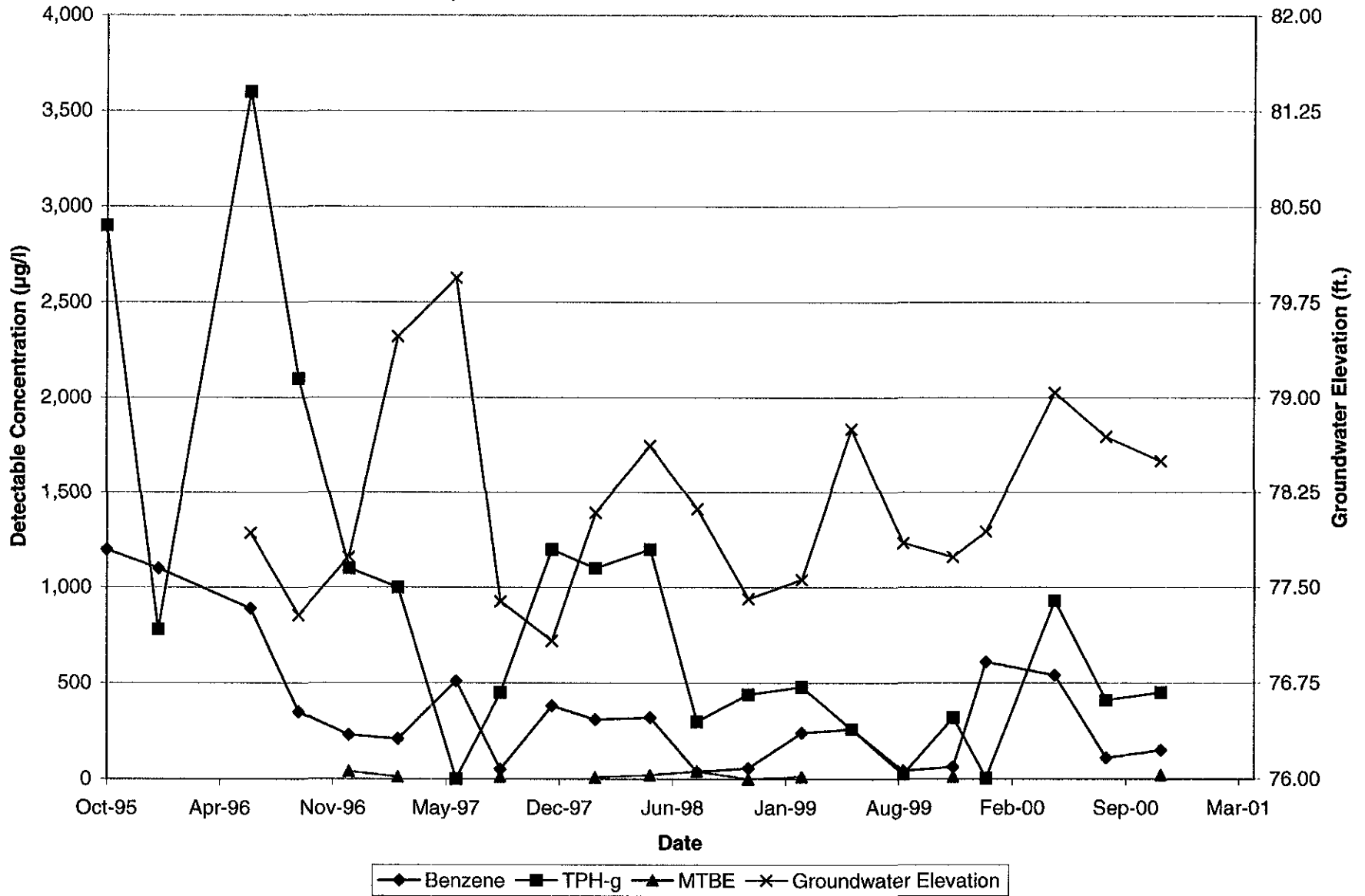
Graph 1, MW-1  
 Sears Store No. 1039, 1911 Telegraph Avenue,  
 Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



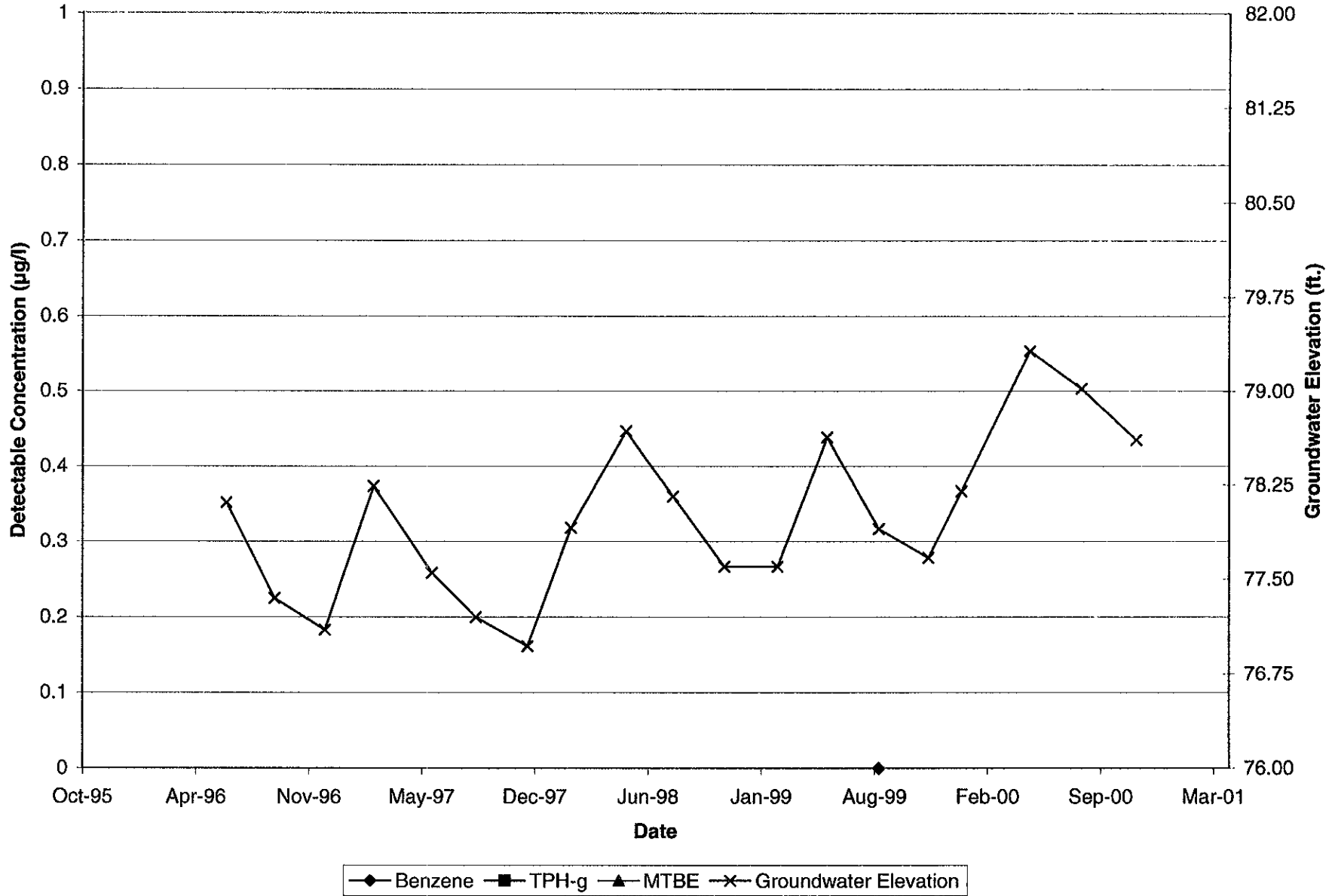
Graph 2, MW-2  
 Sears Store No. 1039, 1911 Telegraph Avenue,  
 Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



Graph 3, MW-3  
 Sears Store No. 1039, 1911 Telegraph Avenue,  
 Oakland, California

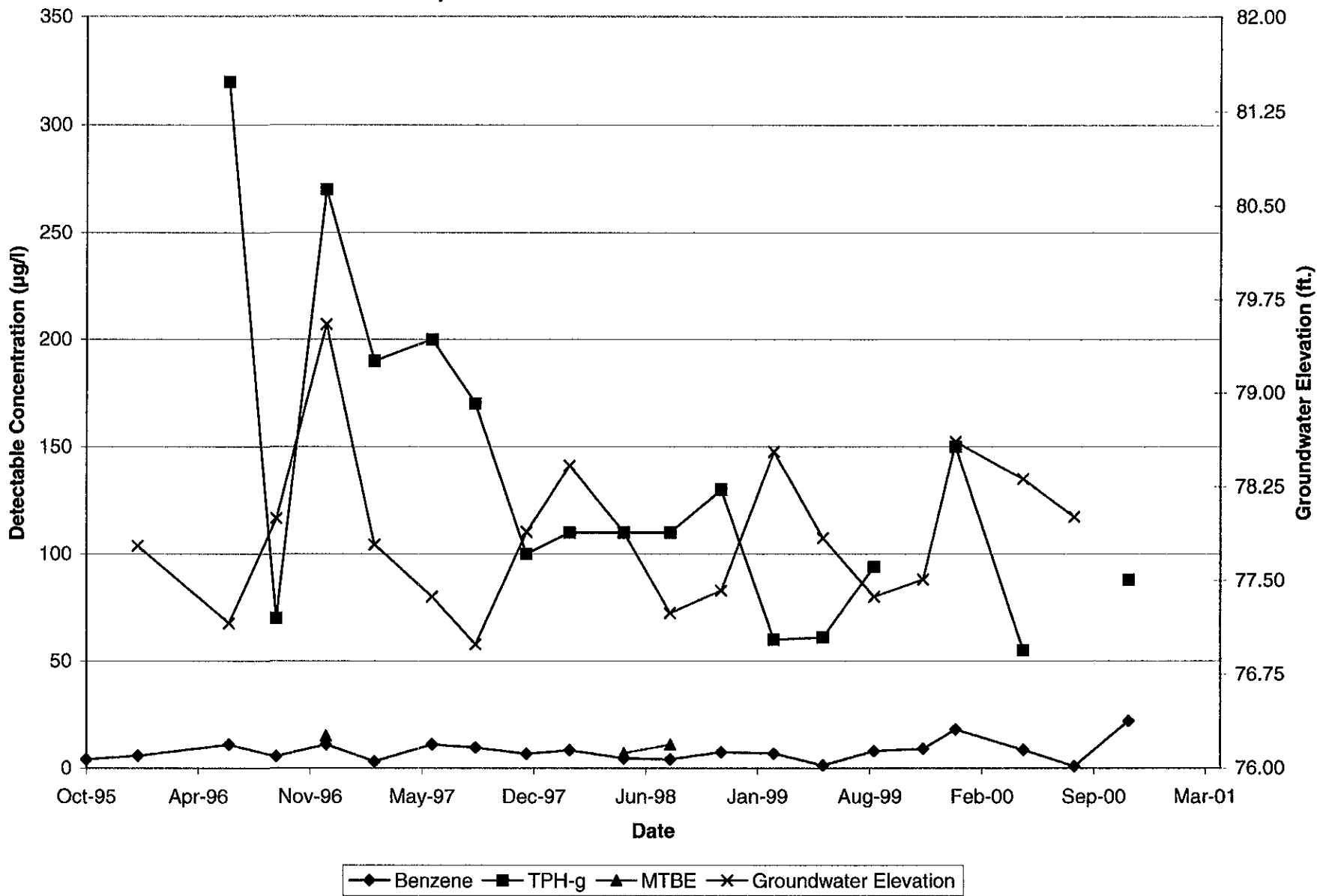
Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



NOTE:  
 No detectable Benzene, TPH-g, or MTBE

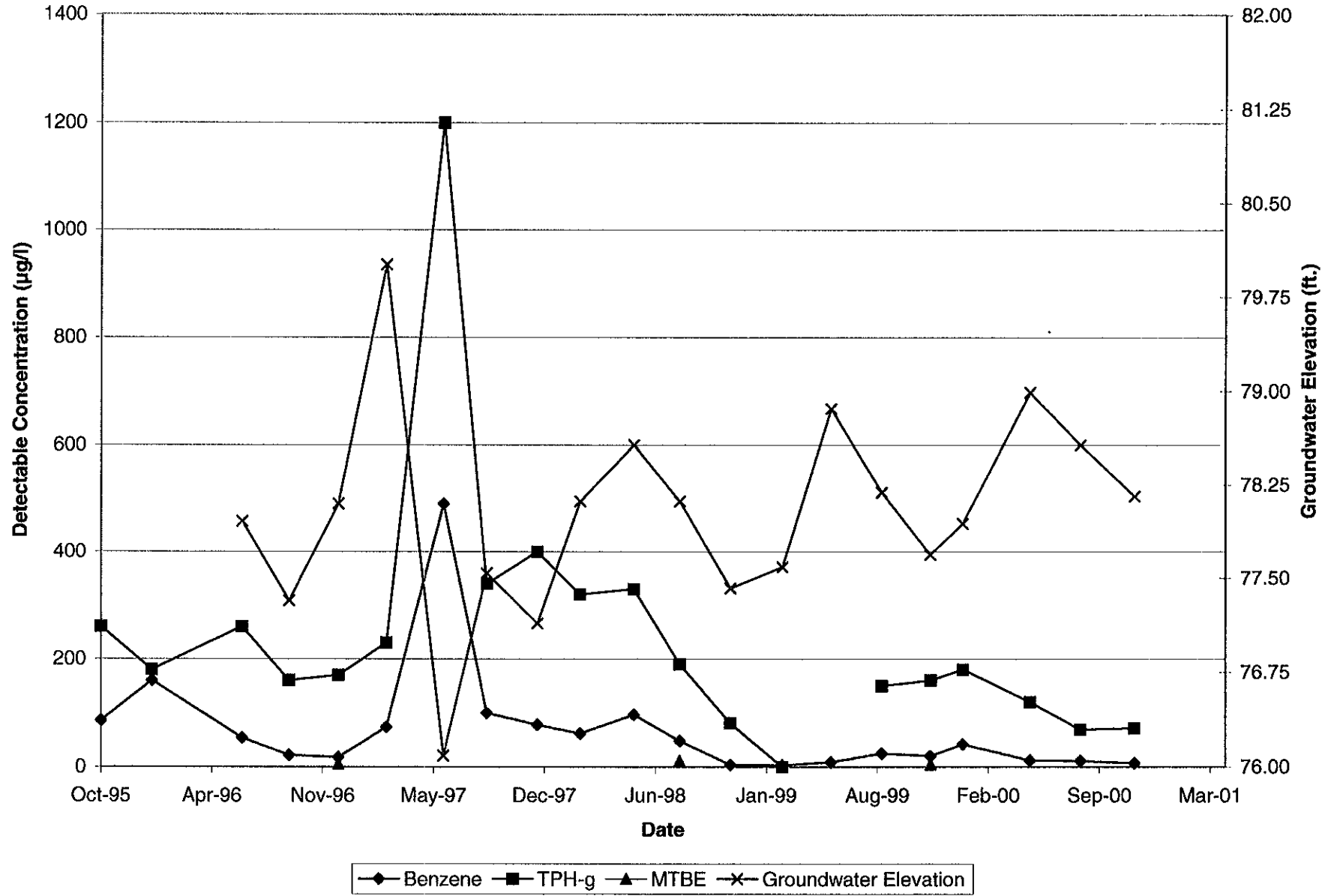
Graph 4, MW-4  
 Sears Store No. 1039, 1911 Telegraph Avenue,  
 Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



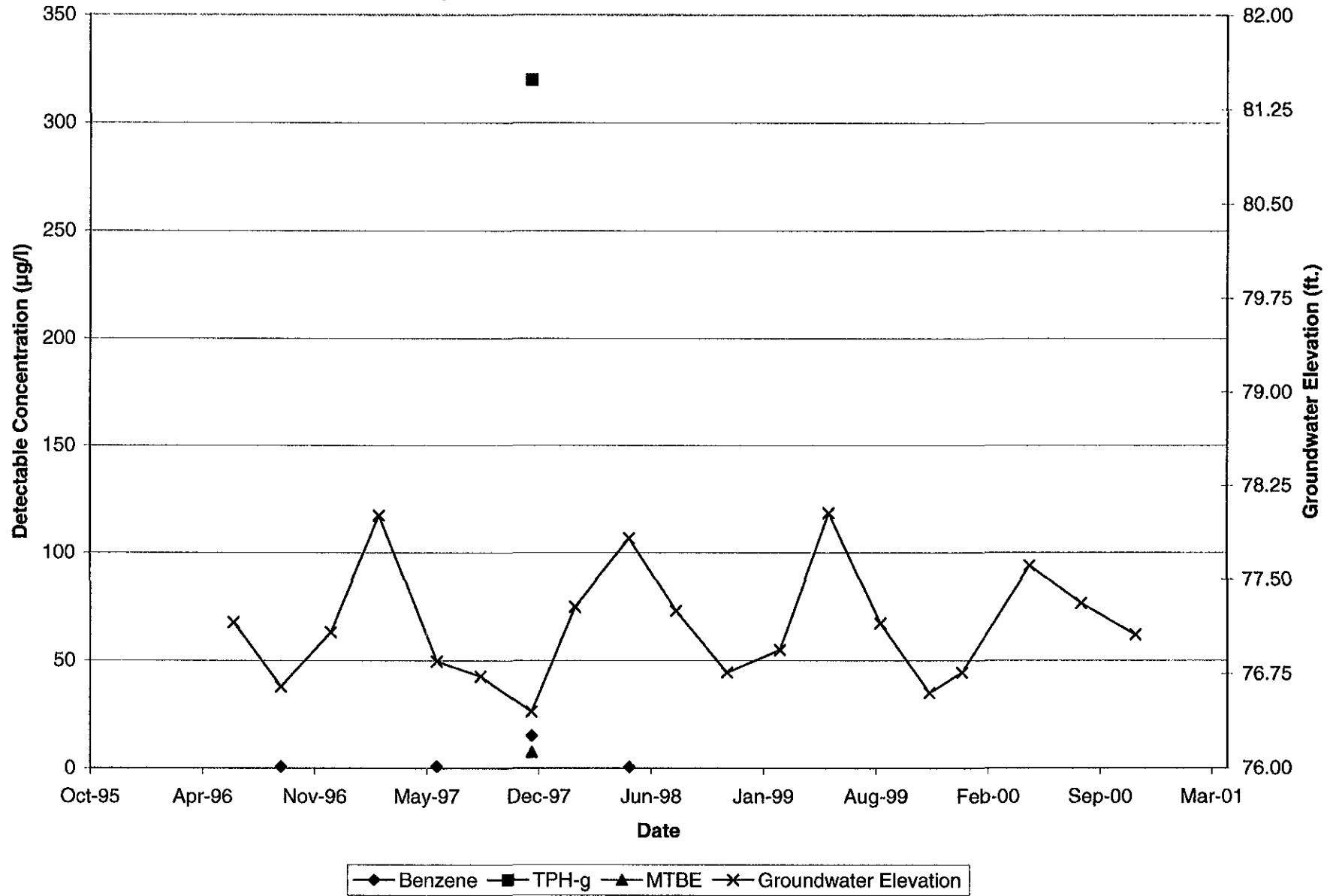
Graph 5, MW-5  
Sears Store No. 1039, 1911 Telegraph Avenue,  
Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



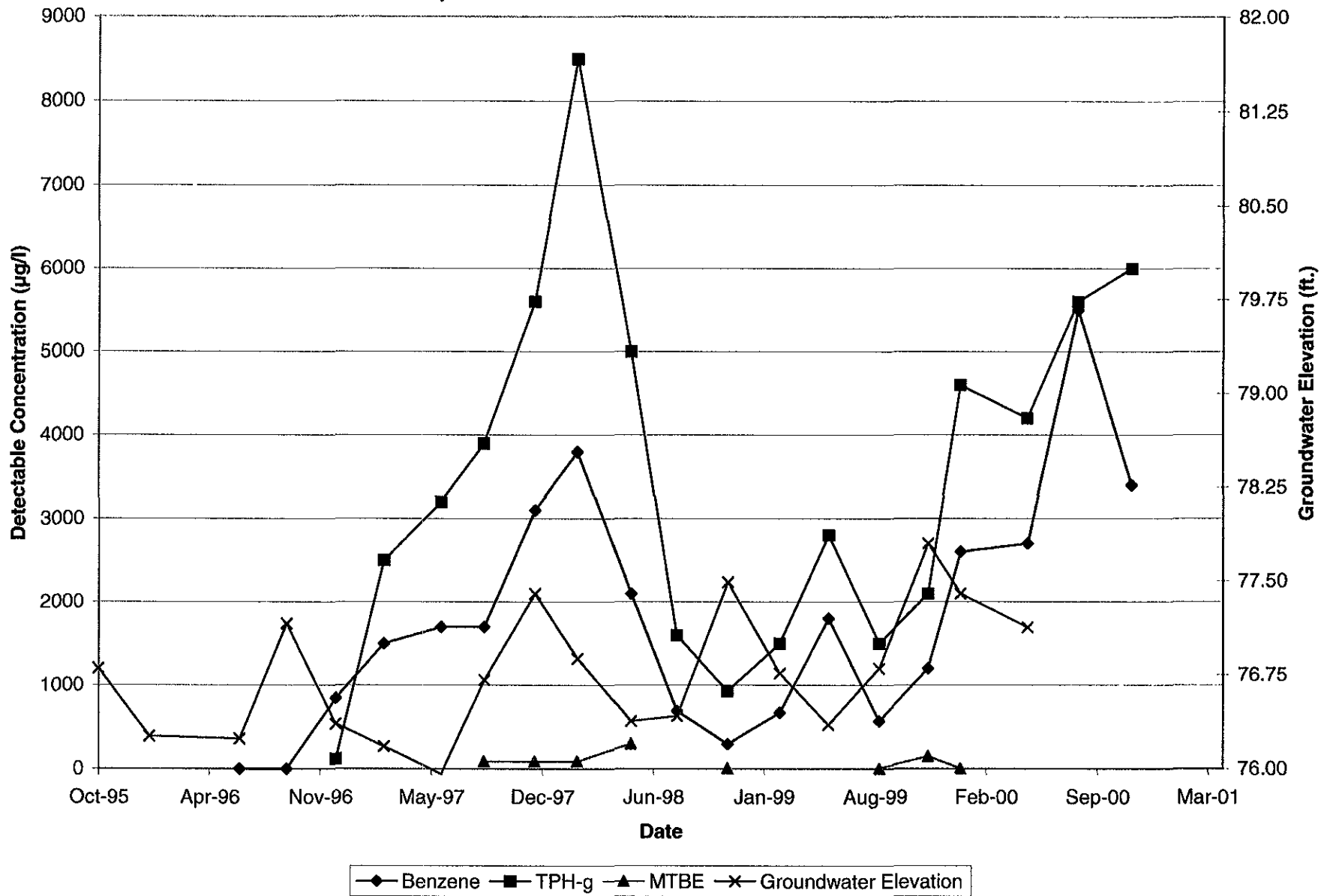
Graph 6, MW-6  
 Sears Store No. 1039, 1911 Telegraph Avenue,  
 Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



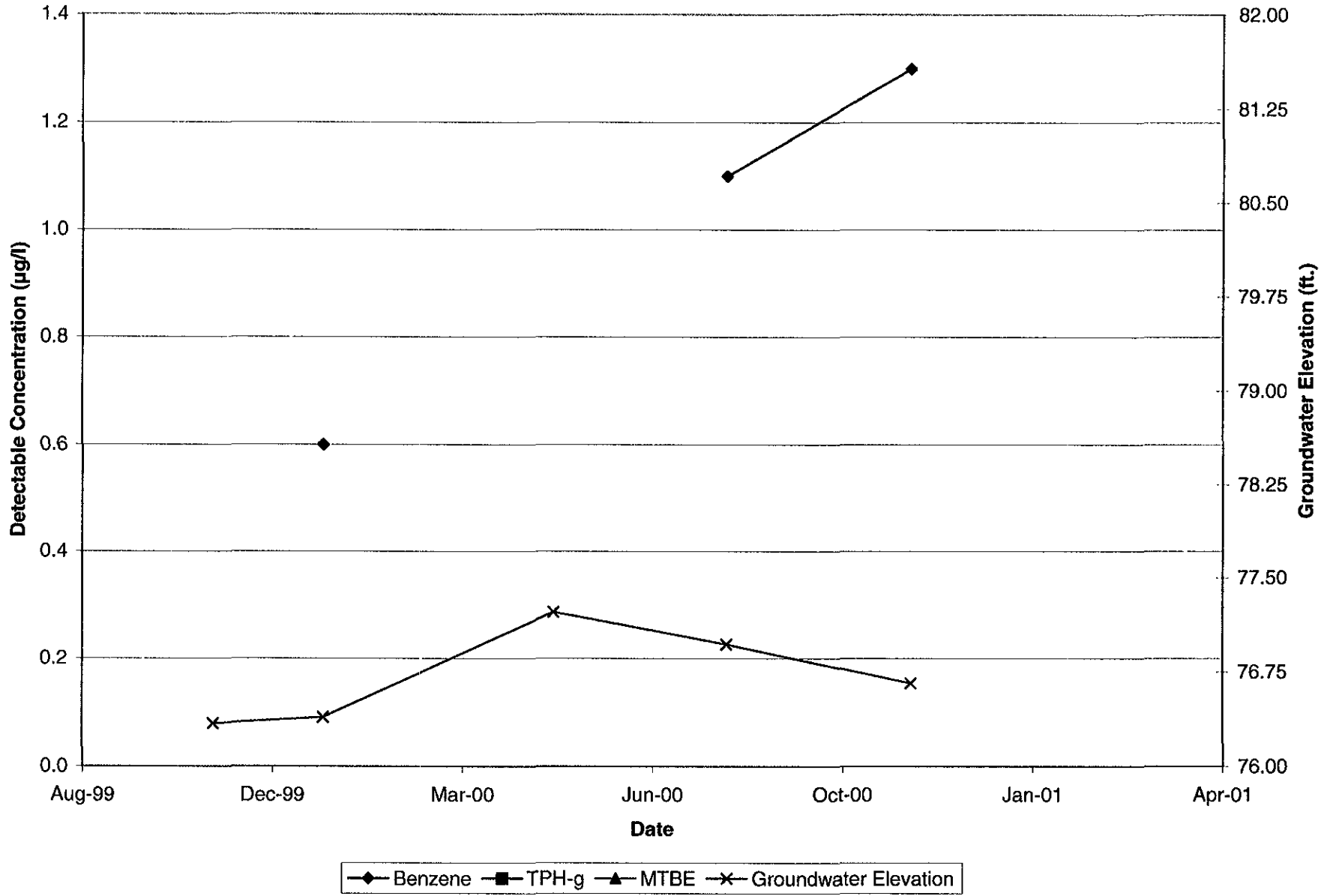
Graph 7, MW-7  
 Sears Store No. 1039, 1911 Telegraph Avenue,  
 Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



Graph 8, MW-8  
Sears Store No. 1039, 1911 Telegraph Avenue,  
Oakland, California

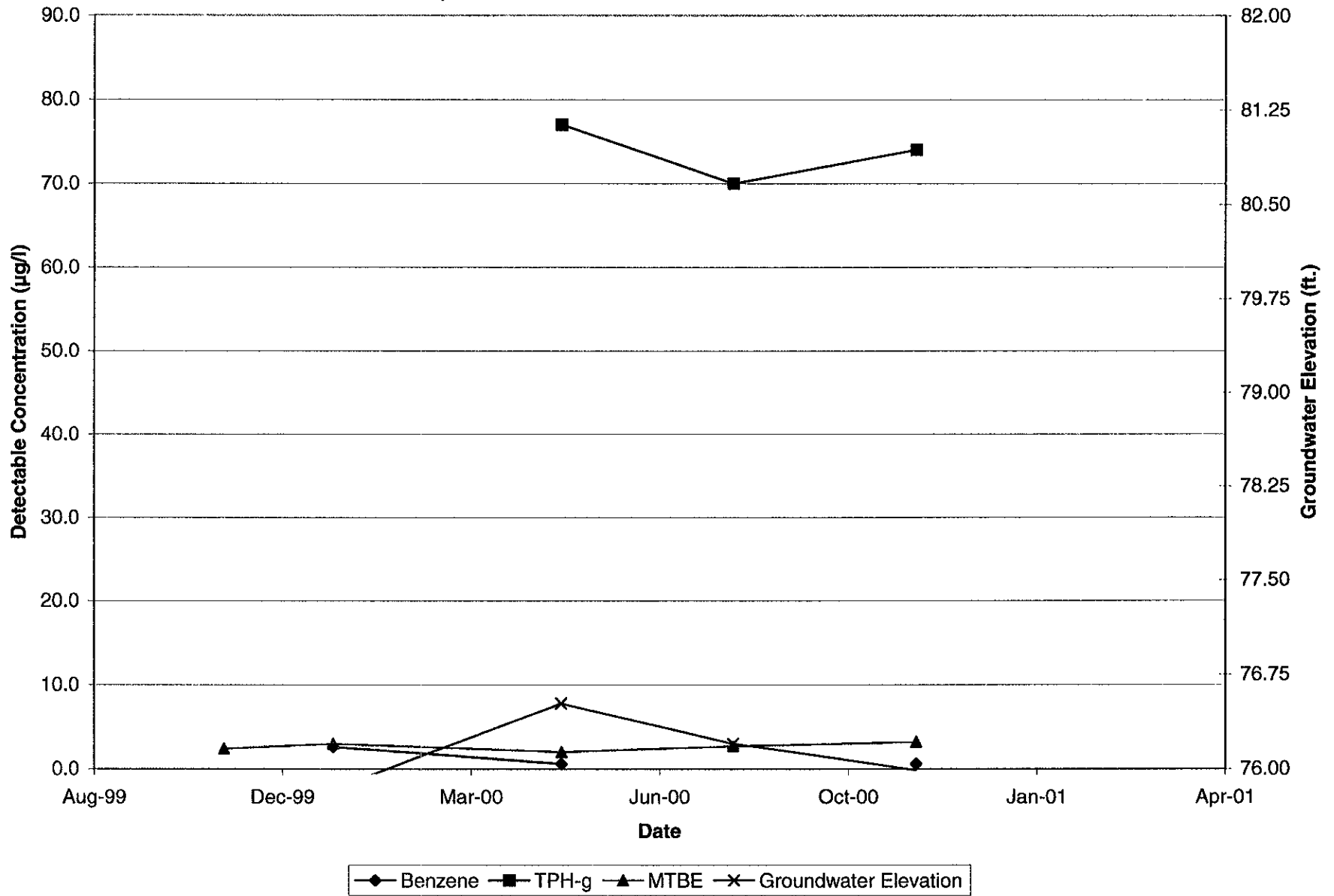
Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time





Graph 9, MW-9  
 Sears Store No. 1039, 1911 Telegraph Avenue,  
 Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



**Attachment 5**

**Laboratory Reports and Chain-of-Custody Documents**



REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-2  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.03054300  
Collected by: Hector Merino

Sample Description:  
MW-1  
Analyzed: 11/16/00  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		100

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons	50.	ND
BTX as a Percent of Fuel		N/A

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: MTBE not included in TPH result.

Submitted by,  
ZymaX envirotechnology, inc.

Michael Ng  
Assistant Lab Director

MSD #2  
21930-2.xls  
MN/jgt/mb/bp



REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-2  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.030543  
Collected by: Hector Merino

Sample Description:  
MW-1  
Analyzed: 11/16/00  
Method: EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
PURGEABLE HALOCARBONS		
Bromobenzene	0.5	ND
Bromodichloromethane	0.5	ND
Bromoform	0.5	ND
Bromomethane (Methyl Bromide)	0.5	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane (Ethyl Chloride)	0.5	ND
2-Chloroethylvinyl Ether	1.0	ND
Chloroform	0.5	ND
Chloromethane (Methyl Chloride)	0.5	ND
Dibromochloromethane	0.5	ND
Dibromomethane	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	0.5	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane (EDC)	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
Methylene Chloride	0.5	ND
1,1,1,2-Tetrachloroethane	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	31.
1,1,1-Trichloroethane (TCA)	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	ND
Trichlorofluoromethane (freon 11)	0.5	ND
1,2,3-Trichloropropane	0.5	ND
Vinyl Chloride	0.5	ND
Percent Surrogate Recovery		100

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Submitted by,  
ZymaX envirotechnology, inc.

Michael Ng  
Assistant Lab Director

MSD #2  
21930-2h.xls  
MN/jgt/mb/bp



REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-6  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.03054300  
Collected by: Hector Merino

Sample Description:  
MW-2  
Analyzed: 11/15/00  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	150.
Toluene	0.5	0.9
Ethylbenzene	0.5	4.1
Xylenes	0.5	1.1
Methyl-t-Butyl Ether (MTBE)	0.5	20.
Percent Surrogate Recovery		97

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons (C4-C12)	50.	450.
BTX as a Percent of Fuel		34

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

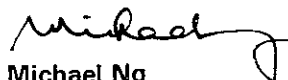
Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: MTBE not included in TPH result.

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director

MSD #2  
21930-6.xls  
MN/jgt/mb/bp



REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-6  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.030543  
Collected by: Hector Merino

Sample Description:  
MW-2  
Analyzed: 11/15/00  
Method: EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
PURGEABLE HALOCARBONS		
Bromobenzene	0.5	ND
Bromodichloromethane	0.5	ND
Bromoform	0.5	ND
Bromomethane (Methyl Bromide)	0.5	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane (Ethyl Chloride)	0.5	ND
2-Chloroethylvinyl Ether	1.0	ND
Chloroform	0.5	ND
Chloromethane (Methyl Chloride)	0.5	ND
Dibromochloromethane	0.5	ND
Dibromomethane	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	0.5	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane (EDC)	0.5	20.
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	1.6
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
Methylene Chloride	0.5	ND
1,1,1,2-Tetrachloroethane	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	ND
1,1,1-Trichloroethane (TCA)	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	10.
Trichlorofluoromethane (freon 11)	0.5	ND
1,2,3-Trichloropropane	0.5	ND
Vinyl Chloride	0.5	ND
Percent Surrogate Recovery		97

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Submitted by,  
ZymaX envirotechnology, inc.

Michael Ng  
Assistant Lab Director

MSD #2  
21930-6h.xls  
MN/jgt/mb/bp



REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-1  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.03054300  
Collected by: Hector Merino

Sample Description:  
MW-3  
Analyzed: 11/15/00  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		101

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons	50.	ND
BTX as a Percent of Fuel		N/A

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS Combination.

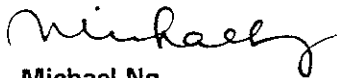
Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: MTBE not included in TPH result.

MSD #2  
21930-1.xls  
MN/jgt/mb/bp

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director



REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-1  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.030543  
Collected by: Hector Merino

Sample Description: MW-3  
Analyzed: 11/15/00  
Method: EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
PURGEABLE HALOCARBONS		
Bromobenzene	0.5	ND
Bromodichloromethane	0.5	ND
Bromoform	0.5	ND
Bromomethane (Methyl Bromide)	0.5	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane (Ethyl Chloride)	0.5	ND
2-Chloroethylvinyl Ether	1.0	ND
Chloroform	0.5	ND
Chloromethane (Methyl Chloride)	0.5	ND
Dibromochloromethane	0.5	ND
Dibromomethane	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	0.5	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane (EDC)	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
Methylene Chloride	0.5	ND
1,1,1,2-Tetrachloroethane	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	7.9
1,1,1-Trichloroethane (TCA)	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	ND
Trichlorofluoromethane (freon 11)	0.5	ND
1,2,3-Trichloropropane	0.5	ND
Vinyl Chloride	0.5	ND
Percent Surrogate Recovery		101

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Submitted by,  
ZymaX envirotechnology, inc.

Michael Ng  
Assistant Lab Director

FILE

MSD #2  
21930-1h.xls  
MN/jgt/mb/bp





REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-4  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.03054300  
Collected by: Hector Merino

Sample Description:  
MW-4  
Analyzed: 11/15/00  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	22.
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		98

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons (C4-C12)	50.	88.
BTX as a Percent of Fuel		25

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS Combination.

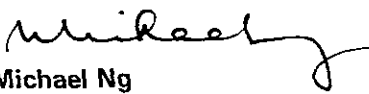
Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: MTBE not included in TPH result.

MSD #2  
21930-4.xls  
MN/jgt/mb/bp

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director



REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-4  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.030543  
Collected by: Hector Merino

Sample Description:  
MW-4  
Analyzed: 11/15/00  
Method: EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
PURGEABLE HALOCARBONS		
Bromobenzene	0.5	ND
Bromodichloromethane	0.5	ND
Bromoform	0.5	ND
Bromomethane (Methyl Bromide)	0.5	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane (Ethyl Chloride)	0.5	ND
2-Chloroethylvinyl Ether	1.0	ND
Chloroform	0.5	ND
Chloromethane (Methyl Chloride)	0.5	ND
Dibromochloromethane	0.5	ND
Dibromomethane	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	0.5	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane (EDC)	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
Methylene Chloride	0.5	ND
1,1,1,2-Tetrachloroethane	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	ND
1,1,1-Trichloroethane (TCA)	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	ND
Trichlorofluoromethane (freon 11)	0.5	ND
1,2,3-Trichloropropane	0.5	ND
Vinyl Chloride	0.5	ND
Percent Surrogate Recovery		98

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Submitted by,  
ZymaX envirotechnology, inc.

Michael Ng  
Assistant Lab Director

MSD #2  
21930-4h.xls  
MN/jgt/mb/bp



REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-4  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.030543  
Collected by: Hector Merino

Sample Description:  
MW-4  
Analyzed: 11/20/00  
Method: EPA 413.2

Oil & Grease

CONSTITUENT	PQL* mg/L	RESULT** mg/L
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Oil & Grease	1.0	ND
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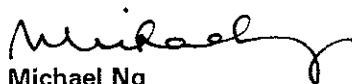
ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

21930-4r.xls  
MN/jgt/dz/rl

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assitant Lab Director



REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-5  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.03054300  
Collected by: Hector Merino

Sample Description:  
MW-5  
Analyzed: 11/15/00  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	7.0
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		102

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons (C4-C12)	50.	72.
BTX as a Percent of Fuel		10

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

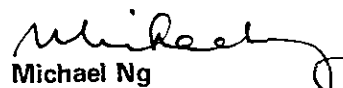
Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: MTBE not included in TPH result.

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director

MSD #2  
21930-5.xls  
MN/jgt/mb/bp



REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-5  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.030543  
Collected by: Hector Merino

Sample Description:  
MW-5  
Analyzed: 11/15/00  
Method: EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
PURGEABLE HALOCARBONS		
Bromobenzene	0.5	ND
Bromodichloromethane	0.5	ND
Bromoform	0.5	ND
Bromomethane (Methyl Bromide)	0.5	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane (Ethyl Chloride)	0.5	ND
2-Chloroethylvinyl Ether	1.0	ND
Chloroform	0.5	ND
Chloromethane (Methyl Chloride)	0.5	ND
Dibromochloromethane	0.5	ND
Dibromomethane	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	0.5	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane (EDC)	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
Methylene Chloride	0.5	ND
1,1,1,2-Tetrachloroethane	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	ND
1,1,1-Trichloroethane (TCA)	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	ND
Trichlorofluoromethane (freon 11)	0.5	ND
1,2,3-Trichloropropane	0.5	ND
Vinyl Chloride	0.5	ND
Percent Surrogate Recovery		102

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Submitted by,  
ZymaX envirotechnology, inc.

Michael Ng  
Assistant Lab Director

MSD #2  
21930-5h.xls  
MN/jgt/mb/bp



## REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-3  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039

Project Number: 803686.03054300  
Collected by: Hector Merino.

Sample Description:  
MW-6  
Analyzed: 11/15/00  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		100

## TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons	50.	ND
BTX as a Percent of Fuel		N/A

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: MTBE not included in TPH result.

Submitted by,  
ZymaX envirotechnology, inc.

Michael Ng  
Assistant Lab Director

MSD #2  
21930-3.xls  
MN/jgt/mb/bp



REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-3  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.030543  
Collected by: Hector Merino

Sample Description: MW-6  
Analyzed: 11/15/00  
Method: EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
PURGEABLE HALOCARBONS		
Bromobenzene	0.5	ND
Bromodichloromethane	0.5	ND
Bromoform	0.5	ND
Bromomethane (Methyl Bromide)	0.5	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane (Ethyl Chloride)	0.5	ND
2-Chloroethylvinyl Ether	1.0	ND
Chloroform	0.5	ND
Chloromethane (Methyl Chloride)	0.5	ND
Dibromochloromethane	0.5	ND
Dibromomethane	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	0.5	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane (EDC)	0.5	3.3
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
Methylene Chloride	0.5	ND
1,1,1,2-Tetrachloroethane	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	0.9
1,1,1-Trichloroethane (TCA)	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	0.9
Trichlorofluoromethane (freon 11)	0.5	ND
1,2,3-Trichloropropane	0.5	ND
Vinyl Chloride	0.5	ND
Percent Surrogate Recovery		100

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

MSD #2  
21930-3h.xls  
MN/jgt/mb/bp

Submitted by,  
ZymaX envirotechnology, inc.  
  
Michael Ng  
Assistant Lab Director



REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-3  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.030543  
Collected by: Hector Merino

Sample Description:  
MW-6  
Analyzed: 11/20/00  
Method: EPA 413.2

Oil & Grease

CONSTITUENT	PQL* mg/L	RESULT** mg/L
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Oil & Grease	1.0	ND
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ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assitant Lab Director

21930-3r.xls  
MN/jgt/dz/rl





REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-10  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.03054300  
Collected by: Hector Merino

Sample Description:  
MW-7  
Analyzed: 11/16/00  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	10.	3400.
Toluene	10.	29.
Ethylbenzene	10.	230.
Xylenes	10.	330.
Methyl-t-Butyl Ether (MTBE)	10.	ND
Percent Surrogate Recovery		99

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons (C4-C12)	1000.	6000.
BTX as a Percent of Fuel		63

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: MTBE not included in TPH result.

Submitted by,  
ZymaX envirotechnology, inc.

Michael Ng  
Assistant Lab Director

MSD #2  
21930-10.xls  
MN/jgt/mb/bp



REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-10  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.030543  
Collected by: Hector Merino

Sample Description:  
MW-7  
Analyzed: 11/15/00  
Method: EPA 8260

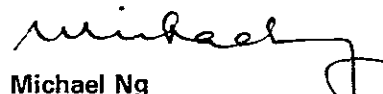
CONSTITUENT	PQL* ug/L	RESULT** ug/L
PURGEABLE HALOCARBONS		
Bromobenzene	10.	ND
Bromodichloromethane	10.	ND
Bromoform	10.	ND
Bromomethane (Methyl Bromide)	10.	ND
Carbon Tetrachloride	10.	ND
Chlorobenzene	10.	ND
Chloroethane (Ethyl Chloride)	10.	ND
2-Chloroethylvinyl Ether	20.	ND
Chloroform	10.	ND
Chloromethane (Methyl Chloride)	10.	ND
Dibromochloromethane	10.	ND
Dibromomethane	10.	ND
1,2-Dichlorobenzene	10.	ND
1,3-Dichlorobenzene	10.	ND
1,4-Dichlorobenzene	10.	ND
Dichlorodifluoromethane	10.	ND
1,1-Dichloroethane	10.	ND
1,2-Dichloroethane (EDC)	10.	66.
1,1-Dichloroethene	10.	ND
cis-1,2-Dichloroethene	10.	ND
trans-1,2-Dichloroethene	10.	ND
1,2-Dichloropropane	10.	ND
cis-1,3-Dichloropropene	10.	ND
trans-1,3-Dichloropropene	10.	ND
Methylene Chloride	10.	ND
1,1,1,2-Tetrachloroethane	10.	ND
1,1,2,2-Tetrachloroethane	10.	ND
Tetrachloroethene (PCE)	10.	ND
1,1,1-Trichloroethane (TCA)	10.	ND
1,1,2-Trichloroethane	10.	ND
Trichloroethene (TCE)	10.	ND
Trichlorofluoromethane (freon 11)	10.	ND
1,2,3-Trichloropropane	10.	ND
Vinyl Chloride	10.	ND
Percent Surrogate Recovery		99

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director

MSD #2  
2193010h.xls  
MN/jgt/mb/bp



REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-8  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.03054300  
Collected by: Hector Merino

Sample Description:  
MW-8  
Analyzed: 11/16/00  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	1.3
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		98

TOTAL PETROLEUM HYDROCARBONS		
Total Petroleum Hydrocarbons (C4-C12)	50.	ND
BTX as a Percent of Fuel		N/A

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit  
\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Note: Analyzed by EPA 8260 and GC/MS Combination.  
Note: Analytical range is C4-C12.  
Note: TPH quantitated against gasoline.  
Note: MTBE not included in TPH result.

Submitted by,  
ZymaX envirotechnology, inc.  
  
Michael Ng  
Assistant Lab Director

MSD #2  
21930-8.xls  
MN/jgt/mb/bp



REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-8  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.030543  
Collected by: Hector Merino

Sample Description:  
MW-8  
Analyzed: 11/16/00  
Method: EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
PURGEABLE HALOCARBONS		
Bromobenzene	0.5	ND
Bromodichloromethane	0.5	ND
Bromoform	0.5	ND
Bromomethane (Methyl Bromide)	0.5	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane (Ethyl Chloride)	0.5	ND
2-Chloroethylvinyl Ether	1.0	ND
Chloroform	0.5	ND
Chloromethane (Methyl Chloride)	0.5	ND
Dibromochloromethane	0.5	ND
Dibromomethane	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	0.5	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane (EDC)	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
Methylene Chloride	0.5	ND
1,1,1,2-Tetrachloroethane	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	5.5
1,1,1-Trichloroethane (TCA)	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	ND
Trichlorofluoromethane (freon 11)	0.5	ND
1,2,3-Trichloropropane	0.5	ND
Vinyl Chloride	0.5	ND
Percent Surrogate Recovery		98

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

Submitted by,  
ZymaX envirotechnology, inc.

Michael Ng  
Assistant Lab Director

MSD #2  
21930-8h.xls  
MN/jgt/mb/bp



REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-9  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.03054300  
Collected by: Hector Merino

Sample Description: MW-9  
Analyzed: 11/16/00  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	0.6
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	3.2
Percent Surrogate Recovery		98

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons (C4-C12)	50.	74.
BTX as a Percent of Fuel		<1

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\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

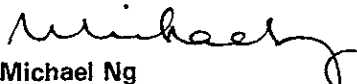
Note: Analyzed by EPA 8260 and GC/MS Combination.

Note: Analytical range is C4-C12.

Note: TPH quantitated against gasoline.

Note: MTBE not included in TPH result.

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director

MSD #2  
21930-9.xls  
MN/jgt/mb/bp



REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-9  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.030543  
Collected by: Hector Merino

Sample Description:  
MW-9  
Analyzed: 11/16/00  
Method: EPA 8260

CONSTITUENT	PQL * ug/L	RESULT ** ug/L
PURGEABLE HALOCARBONS		
Bromobenzene	0.5	ND
Bromodichloromethane	0.5	ND
Bromoform	0.5	ND
Bromomethane (Methyl Bromide)	0.5	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane (Ethyl Chloride)	0.5	ND
2-Chloroethylvinyl Ether	1.0	ND
Chloroform	0.5	ND
Chloromethane (Methyl Chloride)	0.5	ND
Dibromochloromethane	0.5	ND
Dibromomethane	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	0.5	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane (EDC)	0.5	34.
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	0.8
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
Methylene Chloride	0.5	ND
1,1,1,2-Tetrachloroethane	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	31.
1,1,1-Trichloroethane (TCA)	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	15.
Trichlorofluoromethane (freon 11)	0.5	ND
1,2,3-Trichloropropane	0.5	ND
Vinyl Chloride	0.5	ND
Percent Surrogate Recovery		98

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Submitted by,  
ZymaX envirotechnology, inc.

Michael Ng  
Assistant Lab Director

MSD #2  
21930-9h.xls  
MN/jgt/mb/bp



REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-7  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.030543  
Collected by: Hector Merino

Sample Description:  
DUP  
Analyzed: 11/15/00  
Method: EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	130.
Toluene	0.5	0.9
Ethylbenzene	0.5	3.7
Xylenes	0.5	1.0
Percent Surrogate Recovery		94

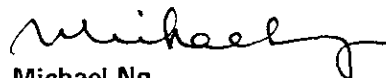
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\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

MSD #2  
21930-7.xls  
MN/jgt/mb/bp

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director



REPORT OF ANALYTICAL RESULTS

Client: David Bero  
IT Corporation  
4005 Port Chicago Hwy.  
Concord, CA 94520

Lab Number: 21930-11  
Collected: 11/06/00  
Received: 11/10/00  
Matrix: Aqueous

Project: Sears / Telegraph #1039  
Project Number: 803686.030543  
Collected by: Hector Merino

Sample Description:  
TBLB  
Analyzed: 11/16/00  
Method: EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Percent Surrogate Recovery		101

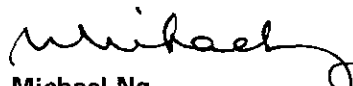
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\*PQL - Practical Quantitation Limit

\*\*Results listed as ND would have been reported if present at or above the listed PQL.

MSD #2  
21930-11.xls  
MN/jgt/mb/bp

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director



