



**IT Corporation**  
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A Member of The IT Group

## Transmittal Letter

1082

Date: July 28, 2000  
To: Mr. Amir Gholami  
Company: Alameda County, Health Care Services Agency  
Address: 1131 Harbor Bay Parkway, Suite 250  
City: Alameda State/Zip: CA 94502-6577

We are sending via:

Courier     U.S. Mail     UPS     Overnight Mail     Other \_\_\_\_\_

The following:

Report     Shop Drawings     Samples  
 Proposal     Specifications \_\_\_\_\_

Transmitted as checked:

Approved     For Approval     Approved as Noted  
 For Correction     For Your Use     As Requested  
 For Comments     For Your Records     For Distribution

Comments:

Ms. Alford -  
Enclosed is the Second Quarter 2000 Groundwater Monitoring and Sampling Report and Request for Closure for Sears Store No. 1058. Please call if you have any questions - (925) 288-2024.

Sincerely,  
**IT Corporation**

\_\_\_\_\_  
David A. Bero  
West Zone Project Manager  
\_\_\_\_\_



**IT Corporation**

4005 Port Chicago Highway  
Concord, CA 94520-1120  
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*A Member of The IT Group*

July 24, 2000

Mr. Amir Gholami  
Hazardous Materials Specialist  
Alameda County, Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

Subject: Gasoline Impacts, STID 1082  
Second Quarter 2000, Groundwater Monitoring and Sampling Report  
and **Request for Closure**  
Former Sears Auto Center No. 1058, 2600 Telegraph Avenue, Oakland, California  
IT Corporation Project 803685

Dear Mr. Gholami:

On behalf of Sears, Roebuck and Co., IT Corporation presents the quarterly groundwater monitoring data collected from the above referenced site on May 3, 2000. The ten groundwater monitoring wells were gauged to determine depth to groundwater and to check for the presence of separate-phase petroleum hydrocarbons (SPPHs). SPPHs were not detected in any of the monitoring wells. A potentiometric surface map is provided in Figure 1 (Attachment 1). A summary of historical water table elevation data is provided in Table 1 (Attachment 2).

After measuring depth to water, all ten 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) using Environmental Protection Agency (EPA) Method 8260 and GC/MS Combination; for total extractable petroleum hydrocarbons as motor oil (TPH-mo) using CG/MS Combination; and for methyl tert-butyl ether (MTBE) and dissolved benzene, toluene, ethylbenzene, and xylenes using EPA Method 8260 and CG/MS Combination.

Static groundwater levels for the second quarter 2000 ranged from 13.33 to 16.58 feet above mean sea level (an average of 11.41 feet below top of casing). Groundwater elevations have decreased by approximately 0.97 foot since first quarter 2000 (February 15, 2000). The apparent groundwater flow is to the south at an average hydraulic gradient of 0.02 foot per foot, which is consistent with previous quarterly data.

Benzene was not detected in the groundwater samples. MTBE was detected by EPA 8260 analysis in monitoring wells MW-1 through MW-5 and MW-9 at concentrations less than 3 micrograms per liter ( $\mu\text{g/L}$ ). Monitoring wells MW-1, MW-3, MW-9, and EW-1 contained dissolved TPH-g, and monitoring wells MW-3 and EW-1 contained dissolved TPH-mo. A summary of the groundwater analytical results

is provided in Table 2. A distribution map of dissolved benzene, TPH-g, TPH-mo, and MTBE concentrations is provided in Figure 2.

Groundwater elevation and analyte concentration versus time data are illustrated in Graphs 1 through 10 (Attachment 4). Hydrocarbon concentrations below detection limits are not shown on the graphs. Laboratory reports and chain-of-custody documents are provided in Attachment 5.

Historical monitoring data indicates that 1) the thickness of SPPH in MW-3 has averaged less than 0.05 foot, and 2) the lateral extent of the product was limited to the vicinity of MW-3. Therefore, the volume of SPPH prior to the recent remediation effort at the site was estimated to be small, less than 5 gallons. In a more aggressive attempt to remove the remaining SPPH from the vicinity of MW-3, water and an unmeasured small volume of SPPH were purged from MW-3 for at least thirty minutes on four separate occasions using vacuum extraction techniques. Prior to purging, depth to groundwater was measured. After purging, depth to water and depth to product were measured. Prior to demobilization, a Soak-eze "sock" was placed in the well. After the last two vacuum extraction events, and during the two subsequent quarterly monitoring and sampling events, no SPPH was found in monitoring well MW-3. Prior to the vacuum extraction events, an IT field technician purged the wells dry and recorded the recharge rate. The data from these purging events are included in the *Interim Remedial Action Progress Report* dated September 1, 1999 (Attachment 6). Due to the rapid recharge rate and lack of SPPHs found in monitoring well MW-3 during the last two vacuum extraction events, and the two subsequent quarterly monitoring and sampling events, SPPH associated with monitoring well MW-3 appears to have been alleviated. TPH-g, TPH-mo, and MTBE have also been declining in well MW-3 since the last vacuum extraction event conducted on February 23, 2000.

The IT *Interim Remedial Action Progress Report* stated that if no measurable thickness of SPPH was found in MW-3 in the two subsequent quarterly monitoring and sampling events, low-risk classification and closure/no further action status would be requested for the site (Attachment 6). TPH-g and TPH-mo have been in decline, and BTEX is nondetectable at 0.5  $\mu\text{g}/\text{L}$ . In off-site downgradient monitoring well MW-9, BTEX continues to be nondetectable and MTBE is less than 2.0  $\mu\text{g}/\text{L}$ . Based on these analytical data and that the site location is in a commercial area where the groundwater is unlikely to be used for consumption, **low-risk classification and closure/no further action status is requested for the site.**

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

Sincerely,  
IT CORPORATION  
Submitted by:

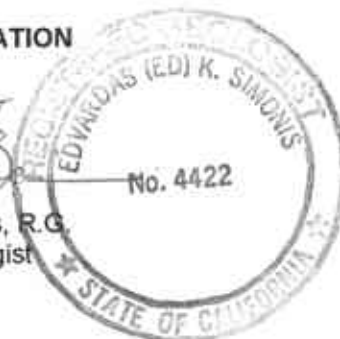


David A. Bero, P.G.  
West Zone Project Manager

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
  6. Interim Remedial Action Progress Report
- c: Scott M. DeMuth, Manager, Environmental Technical Services, Sears, Roebuck and Co.  
Mr. Russ Zora, IT Corporation, Central Files  
Project File

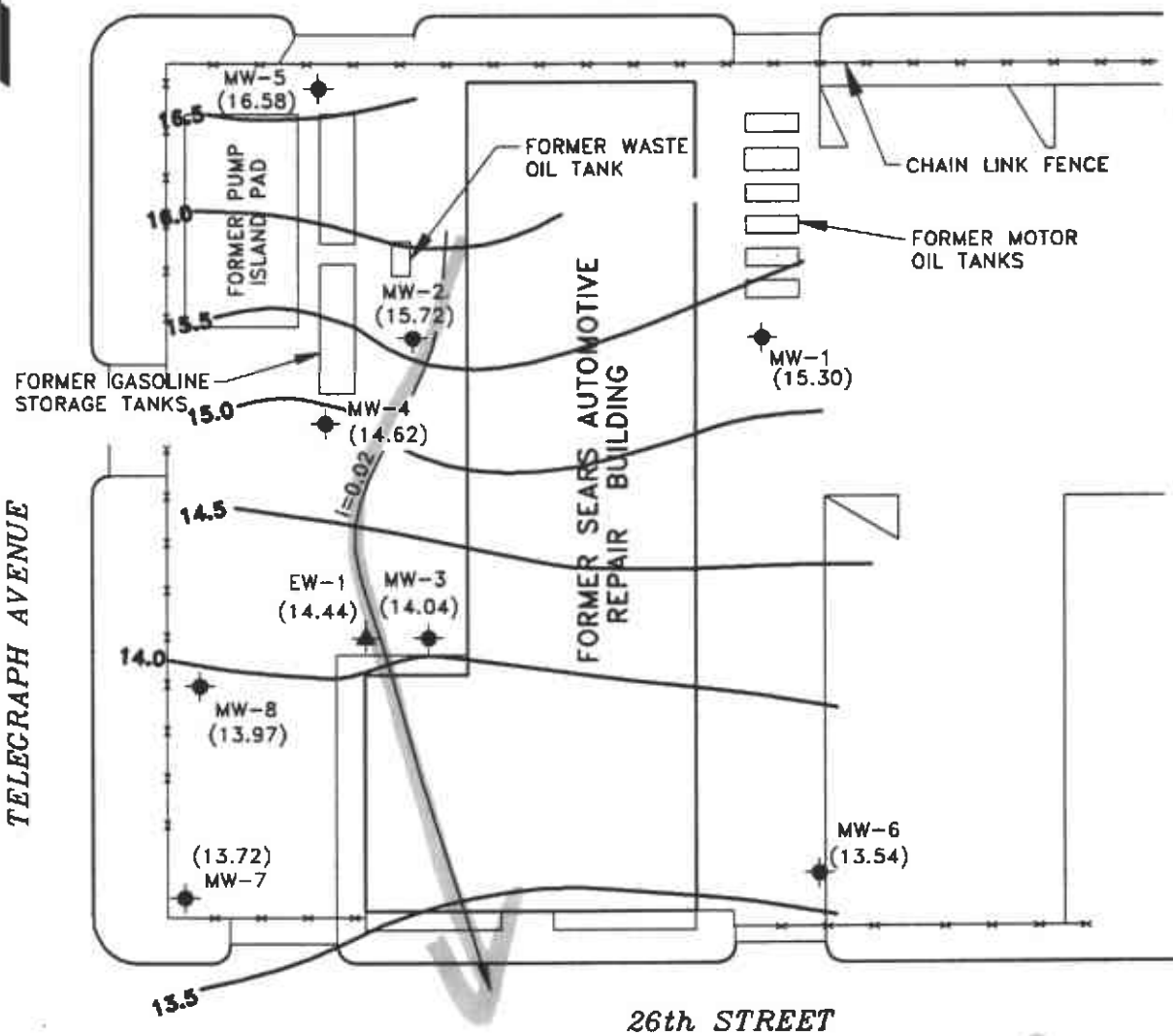
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TELEGRAPH AVENUE

27th STREET

26th STREET



LEGEND

- MONITORING WELL
- EXTRACTION WELL
- POTENTIOMETRIC SURFACE ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- POTENTIOMETRIC SURFACE CONTOUR; INTERVAL = 0.5 FOOT
- ESTIMATED GROUNDWATER FLOW DIRECTION AND HYDRAULIC GRADIENT



SEARS, ROEBUCK AND CO.  
SITE NO. 1058  
2600 TELEGRAPH AVE.,  
OAKLAND, CA

FIGURE 1  
POTENTIOMETRIC SURFACE MAP  
(GUAGED 05/03/00)

DRAWING NUMBER: 803685-A3

APPROVED BY

CHECKED BY

DRAWN BY RB

DATE: 06/14/00

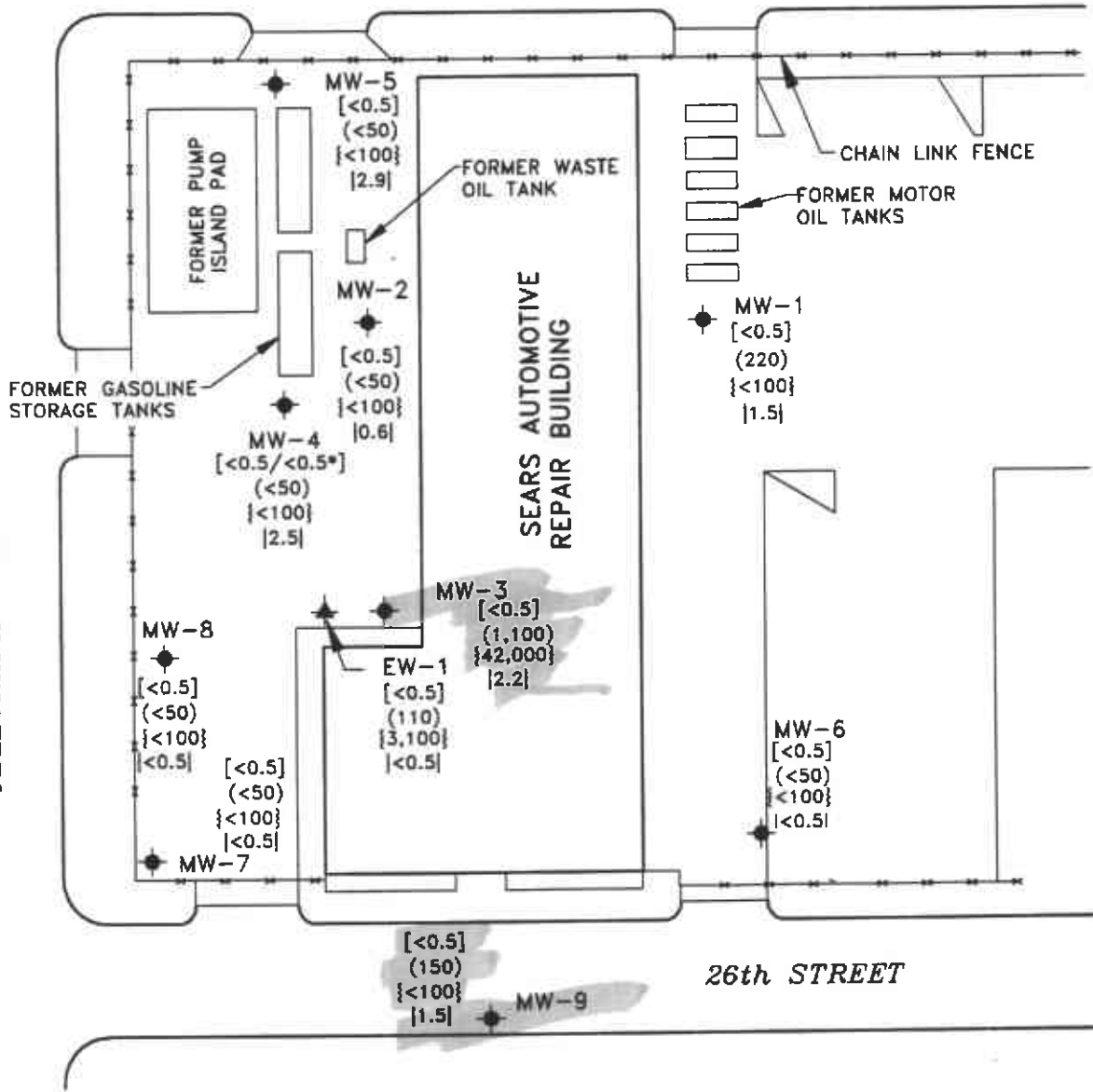
OFFICE: Concord

IMAGE X-REF



27th STREET

TELEGRAPH AVENUE



26th STREET

0 FEET 40 SCALE

LEGEND

- ◆ MONITORING WELL
- ▲ EXTRACTION WELL
- [ ] BENZENE CONCENTRATIONS [ug/l]
- ( ) TPH-AS-GASOLINE (ug/l)
- { } TPH-AS-MOTOR OIL {ug/l}
- | | METHYL TERT-BUTYL ETHER (MTBE) |ug/l|
- \* DUPLICATE



SEARS, ROEBUCK AND CO.  
SITE NO. 1058  
2600 TELEGRAPH AVENUE  
OAKLAND, CALIFORNIA

FIGURE 2  
CONCENTRATIONS OF BENZENE,  
TPH AS GASOLINE, TPH AS MOTOR OIL  
AND MTBE IN GROUND WATER SAMPLED  
05/03/00

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

Sears Store 1058  
 2633 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-1	26.20	12/30/92	10.60	-	-	15.60
		02/26/93	10.14	-	-	16.06
		03/24/93	10.48	-	-	15.72
		04/27/93	11.30	-	-	14.90
		05/28/93	11.43	-	-	14.77
		06/21/93	11.71	-	-	14.49
		07/22/93	11.87	-	-	14.33
		08/13/93	11.94	-	-	14.26
		09/16/93	12.05	-	-	14.15
		10/22/93	12.00	-	-	14.20
		11/03/93	12.10	-	-	14.10
		11/24/93	11.97	-	-	14.23
		12/01/93	11.46	-	-	14.74
		12/27/93	11.58	-	-	14.62
		01/05/94	11.69	-	-	NM
		02/08/94	11.87	-	-	14.33
		03/09/94	11.08	-	-	15.12
		04/01/94	11.47	-	-	14.73
		05/10/94	10.77	-	-	15.43
		06/30/94	11.82	-	-	14.38
		07/28/94	11.90	-	-	14.30
		08/31/94	11.94	-	-	14.26
		09/27/94	12.04	-	-	14.16
		10/28/94	12.06	-	-	14.14
		11/15/94	10.02	-	-	16.18
		12/01/94	10.61	-	-	15.59
		01/04/95	9.93	-	-	16.27
		02/01/95	9.56	-	-	16.64
		03/08/95	10.51	-	-	15.69
		04/03/95	NM	NM	NA	NA
		05/18/95	10.80	-	-	15.40
		06/09/95	11.18	-	-	15.02
		07/13/95	11.27	-	-	14.93
		08/03/95	11.48	-	-	14.72
		08/29/95	11.56	-	-	14.64
		09/15/95	11.71	-	-	14.49
		10/20/95	11.80	-	-	14.40
		11/15/95	11.61	-	-	14.59
		01/15/96	11.21	-	-	14.99
		03/05/96	9.35	-	-	16.85
04/19/96	10.60	-	-	15.60		
05/10/96	11.18	-	-	15.02		
06/03/96	10.90	-	-	15.30		
09/04/96	11.31	-	-	14.89		
12/02/96	10.61	-	-	15.59		
02/26/97	10.31	-	-	15.89		
06/09/97	11.25	-	-	14.95		
08/25/97	11.15	-	-	15.05		
11/28/97	10.07	-	-	16.13		
02/12/98	8.70	-	-	17.50		

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

Sears Store 1058  
 2633 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-1 (cont'd)		05/20/98	10.89	--	--	15.31
		08/11/98	11.60	--	--	14.60
		11/10/98	11.10	--	--	15.10
		02/11/99	9.40	--	--	16.80
		05/11/99	11.05	--	--	15.15
		08/10/99	11.66	--	--	14.54
		10/26/99	12.90	--	--	13.30
		02/25/00	9.80	--	--	16.40
		05/03/00	10.90	--	--	15.30
MW-2	26.50	12/30/92	10.65			15.85
		02/26/93	10.56			15.94
		03/24/93	10.52			15.98
		04/27/93	11.17	--	--	15.33
		05/28/93	11.12	--	--	15.38
		06/21/93	11.41	--	--	15.09
		07/22/93	11.50	--	--	15.00
		08/13/93	11.54	--	--	14.96
		09/16/93	11.62	--	--	14.88
		10/22/93	11.57	--	--	14.93
		11/03/93	11.65	--	--	14.85
		11/24/93	11.52	--	--	14.98
		12/01/93	11.08	--	--	15.42
		12/27/93	11.27	--	--	15.23
		01/05/94	11.39	--	--	15.11
		02/08/94	11.49	--	--	15.01
		03/09/94	11.06	--	--	15.44
		04/01/94	11.25	--	--	15.25
		05/10/94	10.83	--	--	15.67
		06/30/94	11.44	--	--	15.06
		07/28/94	11.48	--	--	15.02
		08/31/94	11.56	--	--	14.94
		09/27/94	11.61	--	--	14.89
		10/28/94	11.65	--	--	14.85
		11/15/94	9.65	--	--	16.85
		12/01/94	10.71	--	--	15.79
		01/04/95	10.11	--	--	16.39
		02/01/95	10.38	--	--	16.12
		03/08/95	10.80	--	--	15.70
		04/03/95	10.61	--	--	15.89
		05/18/95	10.95	--	--	15.55
		06/09/95	11.13	--	--	15.37
07/13/95	11.15	--	--	15.35		
08/03/95	11.26	--	--	15.24		
08/29/95	11.32	--	--	15.18		
09/15/95	11.42	--	--	15.08		
10/20/95	11.42	--	--	15.08		
11/15/95	11.37	--	--	15.13		
01/15/96	11.10	--	--	15.40		
03/05/96	10.24	--	--	16.26		
04/19/96	10.84	--	--	15.66		
05/10/96	11.13	--	--	15.37		
06/03/96	10.94	--	--	15.56		
09/04/96	11.24	--	--	15.26		



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

Sears Store 1058  
 2633 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-2 (cont'd)		12/02/96	10.80	-	-	15.70
		02/26/97	10.70	-	-	15.80
		06/09/97	11.10	-	-	15.40
		08/25/97	11.05	-	-	15.45
		11/28/97	10.59	-	-	15.91
		02/12/98	10.04	-	-	16.46
		05/20/98	10.84	-	-	15.66
		08/11/98	11.56	-	-	14.94
		11/10/98	11.02	-	-	15.48
		02/11/99	10.17	-	-	16.33
		05/11/99	10.96	-	-	15.54
		08/10/99	11.27	-	-	15.23
		10/26/99	12.03	-	-	14.47
		02/25/00	9.95	-	-	16.55
05/03/00	10.78	-	-	15.72		
MW-3	26.34	12/30/92	12.43	--	--	13.91
		02/26/93	12.21	--	--	14.13
		03/24/93	12.36	--	--	13.98
		04/27/93	12.70	--	--	13.64
		05/28/93	12.72	--	--	13.62
		06/21/93	12.87	--	--	13.47
		07/22/93	12.92	--	--	13.42
		08/13/93	12.96	--	--	13.38
		09/16/93	13.01	12.97	0.04	13.33
		10/22/93	NM	12.96	NA	NA
		11/03/93	13.13	13.02	0.11	13.21
		11/24/93	12.94	12.92	0.02	13.40
		12/01/93	12.71	12.69	0.02	13.63
		12/27/93	12.77	12.73	0.04	13.57
		01/05/94	12.85	12.83	0.02	13.49
		02/08/94	12.37	--	--	13.97
		03/09/94	12.53	--	--	13.81
		04/01/94	12.64	--	--	13.70
		05/10/94	12.32	--	--	14.02
		06/30/94	12.84	12.82	0.02	13.50
		07/28/94	12.93	12.89	0.04	13.41
		08/31/94	13.04	13.01	0.03	13.30
		09/27/94	13.13	13.02	0.11	13.21
		10/28/94	13.30	13.08	0.22	13.04
		11/15/94	11.05	11.02	0.03	15.29
		12/01/94	11.90	11.88	0.02	14.44
		01/04/95	11.80	11.76	0.01	14.54
		02/01/95	12.00	11.98	0.02	14.34
		03/08/95	12.35	12.30	0.05	13.99
04/03/95	12.09	12.05	0.04	14.25		
05/18/95	12.43	12.40	0.03	13.91		
06/09/95	12.60	12.58	0.02	13.74		
07/13/95	12.55	12.46	0.09	13.79		
08/03/95	12.64	12.61	0.03	13.70		
08/29/95	12.65	12.62	0.03	13.69		
09/15/95	13.00	12.86	0.14	13.34		
10/20/95	12.86	12.03	0.03	13.48		
11/15/95	12.81	12.74	0.07	13.53		

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

Sears Store 1058  
 2633 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-3 (cont'd)		01/15/96	12.60	12.47	0.13	13.74
		03/05/96	11.68	11.64	0.04	14.66
		04/19/96	12.36	12.34	0.02	13.98
		05/10/96	11.93	11.91	0.02	14.41
		06/03/96	12.93	12.50	0.43	13.41
		09/04/96	12.60	12.55	0.05	13.74
		12/02/96	12.11	12.00	0.03	14.23
		02/26/97	12.03	12.02	0.01	14.31
		06/09/97	12.39	12.35	0.04	13.95
		08/25/97	12.28	12.25	0.03	14.06
		11/28/97	12.13	12.10	0.03	14.21
		02/12/98	11.85	11.82	0.03	14.49
		05/20/98	12.51	12.48	0.03	13.83
		08/11/98	12.97	12.79	0.18	13.37
		11/10/98	12.54	12.51	0.03	13.80
		02/11/99	11.75	11.73	0.02	14.59
		05/11/99	12.52	-	-	13.82
		08/10/99	13.50	13.36	0.14	12.84
10/26/99	13.01	12.98	0.03	13.33		
02/25/00	11.41	-	odor	14.93		
05/03/00	12.30	-	-	14.04		
MW-4	26.17	12/30/92	11.53	-	Sheen	14.64
		02/26/93	11.35	-	-	14.82
		03/24/93	11.46	-	-	14.71
		04/27/93	11.74	-	-	14.43
		05/28/93	11.77	-	-	14.40
		06/21/93	11.92	-	-	14.25
		07/22/93	11.95	-	-	14.22
		08/13/93	12.01	-	-	14.16
		09/16/93	12.08	-	-	14.09
		10/22/93	12.03	-	-	14.14
		11/03/93	12.10	-	-	14.07
		11/24/93	12.02	-	-	14.15
		12/01/93	11.78	-	-	14.39
		12/27/93	11.80	-	-	14.37
		01/05/94	11.91	-	-	14.26
		02/08/94	11.85	-	-	14.32
		03/09/94	11.61	-	-	14.56
		04/01/94	11.73	-	-	14.44
		05/10/94	11.49	-	-	14.68
		06/30/94	11.90	-	-	14.27
		07/28/94	11.97	-	-	14.20
		08/31/94	12.06	-	-	14.11
		09/27/94	12.11	-	-	14.06
		10/28/94	12.18	-	-	13.99
		11/15/94	10.72	-	-	15.45
		12/01/94	11.37	-	-	14.80
		01/04/95	11.20	-	-	14.97
		02/01/95	11.16	-	-	15.01
03/08/95	11.49	-	-	14.68		
04/03/95	11.35	-	-	14.82		
05/18/95	11.56	-	-	14.61		
06/09/95	11.72	-	-	14.45		

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

Sears Store 1058  
 2633 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-4 (cont'd)		07/13/95	11.72	-	-	14.45
		08/03/95	11.81	-	-	14.36
		08/29/95	11.88	-	-	14.29
		09/15/95	11.99	-	-	14.18
		10/20/95	12.00	-	-	14.17
		11/15/95	11.96	-	-	14.21
		01/15/96	11.71	-	-	14.46
		03/05/96	11.02	-	-	15.15
		04/19/96	11.51	-	-	14.66
		05/10/96	11.74	-	-	14.43
		06/03/96	11.60	-	-	14.57
		09/04/96	11.85	-	-	14.32
		12/02/96	11.45	-	-	14.72
		02/26/97	11.42	-	-	14.75
		06/09/97	11.70	-	-	14.47
		08/25/97	11.63	-	-	14.54
		11/28/97	11.27	-	-	14.90
		02/12/98	11.00	-	-	15.17
		05/20/98	11.62	-	-	14.55
		08/11/98	11.90	-	-	14.27
11/10/98	11.65	-	-	14.52		
02/11/99	10.87	-	-	15.30		
05/11/99	11.66	-	-	14.51		
08/10/99	11.95	-	-	14.22		
10/26/99	11.40	-	-	14.77		
02/25/00	10.75	-	-	15.42		
05/03/00	11.55	-	-	14.62		
MW-5	26.98	12/30/92	10.50	-	-	16.48
		02/26/93	10.12	-	-	16.86
		03/24/93	10.31	-	-	16.67
		04/27/93	10.75	-	-	16.23
		05/28/93	10.80	-	-	16.18
		06/21/93	10.94	-	-	16.04
		07/22/93	11.01	-	-	15.97
		08/13/93	11.07	-	-	15.91
		09/16/93	11.18	-	-	15.80
		10/22/93	11.19	-	-	15.79
		11/03/93	11.23	-	-	15.75
		11/24/93	12.00	-	-	14.98
		12/01/93	10.84	-	-	16.14
		12/27/93	10.81	-	-	16.17
		01/05/94	10.96	-	-	16.02
		02/08/94	10.94	-	-	16.04
		03/09/94	10.54	-	-	16.44
		04/01/94	10.77	-	-	16.21
		05/10/94	10.44	-	-	16.54
		06/30/94	10.88	-	-	16.10
07/28/94	10.98	-	-	16.00		
08/31/94	11.07	-	-	15.91		
09/27/94	11.12	-	-	15.86		
10/28/94	11.21	-	-	15.77		
11/15/94	10.05	-	-	16.93		
12/01/94	10.39	-	-	16.59		

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

Sears Store 1058  
 2633 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-5 (cont'd)		01/04/95	10.18	-	-	16.80
		02/01/95	9.93	-	-	17.05
		03/08/95	10.35	-	-	16.63
		04/03/95	10.15	-	-	16.83
		05/18/95	10.43	-	-	16.55
		06/09/95	10.62	-	-	16.36
		07/13/95	10.76	-	-	16.22
		08/03/95	10.82	-	-	16.16
		08/29/95	10.91	-	-	16.07
		09/15/95	11.00	-	-	15.98
		10/20/95	11.02	-	-	15.96
		11/15/95	11.95	-	-	15.03
		01/15/96	10.57	-	-	16.41
		03/05/96	9.81	-	-	17.17
		04/19/96	10.32	-	-	16.66
		05/10/96	10.56	-	-	16.42
		06/03/96	10.46	-	-	16.52
		09/04/96	10.86	-	-	16.12
		12/02/96	10.45	-	-	16.53
		02/26/97	10.38	-	-	16.60
		06/09/97	10.78	-	-	16.20
		08/25/97	10.69	-	-	16.29
		11/28/97	10.15	-	-	16.83
		02/12/98	9.55	-	-	17.43
		05/20/98	10.29	-	-	16.69
		08/11/98	10.67	-	-	16.31
		11/10/98	10.59	-	-	16.39
		02/11/99	9.75	-	-	17.23
		05/11/99	10.38	-	-	16.60
08/10/99	10.77	-	-	16.21		
10/26/99	10.95	-	-	16.03		
02/25/00	9.50	-	-	17.48		
05/03/00	10.40	-	-	16.58		
MW-6	24.32	12/27/93	11.24	-	-	13.08
		01/05/94	11.39	-	-	12.93
		02/08/94	11.15	-	-	13.17
		03/09/94	10.97	-	-	13.35
		04/01/94	11.25	-	-	13.07
		05/10/94	10.78	-	-	13.54
		06/30/94	11.49	-	-	12.83
		07/28/94	11.59	-	-	12.73
		08/31/94	11.56	-	-	12.76
		09/27/94	11.65	-	-	12.67
		10/28/94	11.59	-	-	12.73
		11/15/94	10.24	-	-	14.08
		12/01/94	10.30	-	-	14.02
		01/04/95	9.81	-	-	14.51
		02/01/95	10.01	-	-	14.31
		03/08/95	10.64	-	-	13.68
		04/03/95	10.26	-	-	14.06
05/18/95	10.81	-	-	13.51		
06/09/95	11.07	-	-	13.25		
07/13/95	10.91	-	-	13.41		

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

Sears Store 1058  
 2633 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-6 (cont'd)		08/03/95	11.15	-	-	13.17
		08/29/95	11.09	-	-	13.23
		09/15/95	11.35	-	-	12.97
		10/20/95	11.32	-	-	13.00
		11/15/95	11.20	-	-	13.12
		01/15/96	10.83	-	-	13.49
		03/05/96	9.60	-	-	14.72
		04/19/96	10.71	-	-	13.61
		05/10/96	11.05	-	-	13.27
		06/03/96	10.91	-	-	13.41
		09/04/96	10.84	-	-	13.48
		12/02/96	10.46	-	-	13.86
		02/26/97	10.46	-	-	13.86
		06/09/97	10.90	-	-	13.42
		08/25/97	10.84	-	-	13.48
		11/28/97	10.07	-	-	14.25
		02/12/98	9.39	-	-	14.93
		05/20/98	10.85	-	-	13.47
		08/11/98	11.21	-	-	13.11
		11/10/98	10.82	-	-	13.50
02/11/99	9.39	-	-	14.93		
05/11/99	10.84	-	-	13.48		
08/10/99	11.28	-	-	13.04		
10/26/99	11.43	-	-	12.89		
02/25/00	9.27	-	-	15.05		
05/03/00	10.78	-	-	13.54		
MW-7	24.88	12/27/93	11.80	-	-	13.08
		01/05/94	11.53	-	-	13.35
		02/08/94	11.90	-	-	12.98
		03/09/94	11.23	-	-	13.65
		04/01/94	11.34	-	-	13.54
		05/10/94	11.02	-	-	13.86
		06/30/94	11.49	-	-	13.39
		07/28/94	11.58	-	-	13.30
		08/31/94	11.69	-	-	13.19
		09/27/94	11.73	-	-	13.15
		10/28/94	11.77	-	-	13.11
		11/15/94	10.29	-	-	14.59
		12/01/94	10.89	-	-	13.99
		01/04/95	10.77	-	-	14.11
		02/01/95	10.70	-	-	14.18
		03/08/95	11.05	-	-	13.83
		04/03/95	10.88	-	-	14.00
		05/18/95	11.12	-	-	13.76
		06/09/95	11.25	-	-	13.63
		07/13/95	11.15	-	-	13.73
08/03/95	11.32	-	-	13.56		
08/29/95	11.53	-	-	13.35		
09/15/95	11.65	-	-	13.23		
10/20/95	11.64	-	-	13.24		
11/15/95	11.60	-	-	13.28		
01/15/96	11.07	-	-	13.81		
03/05/96	10.50	-	-	14.38		

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

Sears Store 1058  
 2633 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-7 cont'd		04/19/96	12.02	-	-	12.86
		05/10/96	11.14	-	-	13.74
		06/03/96	11.10	-	-	13.78
		09/04/96	11.45	-	-	13.43
		12/02/96	10.96	-	-	13.92
		02/26/97	11.02	-	-	13.86
		06/09/97	11.34	-	-	13.54
		08/25/97	11.25	-	-	13.63
		11/28/97	10.69	-	-	14.19
		02/12/98	10.11	-	-	14.77
		05/20/98	11.20	-	-	13.68
		08/11/98	11.55	-	-	13.33
		11/10/98	11.21	-	-	13.67
		02/11/99	10.27	-	-	14.61
		05/11/99	11.25	-	-	13.63
		08/10/99	11.65	-	-	13.23
		10/26/99	11.76	-	-	13.12
02/25/00	10.40	-	-	14.48		
05/03/00	11.16	-	-	13.72		
MW-8	26.12	12/27/93	12.45	-	-	13.67
		01/05/94	12.57	-	-	13.55
		02/08/94	12.02	-	-	14.10
		03/09/94	12.22	-	-	13.90
		04/01/94	12.33	-	-	13.79
		05/10/94	12.00	-	-	14.12
		06/30/94	12.52	-	-	13.60
		07/28/94	12.61	-	-	13.51
		08/31/94	12.72	-	-	13.40
		09/27/94	12.80	-	-	13.32
		10/28/94	12.84	-	-	13.28
		11/15/94	11.72	-	-	14.40
		12/01/94	11.87	-	-	14.25
		01/04/95	11.75	-	-	14.37
		02/01/95	11.64	-	-	14.48
		03/08/95	12.04	-	-	14.08
		04/03/95	11.86	-	-	14.26
		05/18/95	12.11	-	-	14.01
		06/09/95	12.34	-	-	13.78
		07/13/95	12.37	-	-	13.75
		08/03/95	12.50	-	-	13.62
		08/29/95	12.55	-	-	13.57
		09/15/95	12.70	-	-	13.42
		10/20/95	12.69	-	-	13.43
		11/15/95	12.67	-	-	13.45
		12/11/95	11.80	-	-	14.32
		01/15/96	12.38	-	-	13.74
		03/05/96	11.44	-	-	14.68
		04/19/96	10.80	-	-	15.32
		05/10/96	12.40	-	-	13.72
06/03/96	12.26	-	-	13.86		
09/04/96	12.51	-	-	13.61		
12/02/96	11.99	-	-	14.13		
02/26/97	11.98	-	-	14.14		

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

Sears Store 1058  
 2633 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-8 cont'd		06/09/97	12.36	--	--	13.76
		08/25/97	12.25	--	--	13.87
		11/28/97	11.70	--	--	14.42
		02/12/98	11.34	--	--	14.78
		05/20/98	12.21	--	--	13.91
		08/11/98	12.60	--	--	13.52
		11/10/98	12.26	--	--	13.86
		02/11/99	11.00	--	--	15.12
		05/11/99	12.29	--	--	13.83
		08/10/99	12.72	--	--	13.40
		10/26/99	12.85	--	--	13.27
		02/25/00	11.20	--	--	14.92
05/03/00	12.15	--	--	13.97		
MW-9	25.03*	12/02/96	11.52	--	--	N/A
		02/26/97	11.55	--	--	N/A
		06/09/97	11.91	--	--	N/A
		08/25/97	11.80	--	--	N/A
		11/28/97	11.15	--	--	N/A
		02/12/98	10.63	--	--	N/A
		05/20/98	11.73	--	--	N/A
		08/11/98	12.15	--	--	N/A
		11/10/98	11.81	--	--	N/A
		02/11/99	10.66	--	--	N/A
		05/11/99	11.69	--	--	N/A
		08/10/99	12.67	--	--	12.36
		10/26/99	12.28	--	--	12.75
02/25/00	10.60	--	--	14.43		
05/03/00	11.70	--	--	13.33		
EW-1	26.80*	12/02/96	12.17	--	--	N/A
		02/26/97	12.13	--	--	N/A
		06/09/97	12.46	--	--	N/A
		08/25/97	12.35	--	--	N/A
		11/28/97	12.12	--	--	N/A
		02/12/98	11.83	--	--	N/A
		05/20/98	12.51	--	--	N/A
		08/11/98	12.85	--	--	N/A
		11/10/98	12.55	--	--	N/A
		02/11/99	11.66	--	--	N/A
		05/11/99	12.56	--	--	N/A
		08/10/99	12.91	--	--	13.89
		10/26/99	13.00	--	--	13.80
02/25/00	11.41	--	--	15.39		
05/03/00	12.36	--	--	14.44		

Notes:

- = No datum for the cell, including "product not detected"
- NM = Not Monitored
- N/A = Not Available
- \* = Survey of casing elevations for wells MW-9 and EW-1 conducted July 6, 1999

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

Sears Store 1058  
 2633 Telegraph Avenue, Oakland, California

Well ID	Date Sampled	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH as Gasoline	TPH as Motor Oil	TPH (mg/L)	Dissolved Metals	MTBE
MW-1	12/30/92	1	1	2	2	-	-	1	-	-
	03/24/93	0.4	1	0.32	10	-	-	1	-	-
	06/21/93	<0.3	1	<0.3	6	-	**<100	-	-	-
	09/16/93	<0.3	0.7	2	7	-	**<100	-	-	-
	12/01/93	0.4	1	-	7	-	-	-	-	-
	12/30/93	-	-	1	-	-	-	<100	-	-
	03/09/94	<0.3	<0.3	2.4	4.2	-	-	<100	-	-
	06/30/94	0.6	0.7	1.4	15	-	-	<100	-	-
	09/27/94	0.9	0.5	<0.3	10	-	-	<sup>e</sup> <250	-	-
	12/01/94	0.4	0.4	<0.3	6.6	-	-	<sup>e</sup> <250	-	-
	03/08/95	<0.3	0.6	4.7	2.7	-	-	<sup>e</sup> <250	-	-
	06/09/95	<0.3	1.4	3.9	5.6	-	-	<sup>e</sup> <250	-	-
	08/29/95	0.3	0.9	<0.5	2.8	-	-	<sup>e</sup> <250	-	-
	11/15/95	<0.5	<0.5	<1.0	27	-	-	<sup>e</sup> <200	-	-
	03/05/96	<0.5	<1.0	<1.0	<2.0	-	-	<sup>e</sup> <200	-	-
	06/03/96	<0.5	<1.0	3.7	3.4	340	-	<sup>e</sup> <200	-	-
	09/04/96	<0.5	<1.0	<1.0	<2.0	390	310	-	-	-
	12/02/96	<0.5	<1.0	<1.0	2.7	400	<sup>e</sup> <200	-	-	-
	02/26/97	<0.5	<1.0	<1.0	4.5	390	<sup>e</sup> <200	-	-	-
	06/09/97	<0.5	<1.0	<0.5	2.3	340	<200	-	-	<10
	08/25/97	<0.5	<0.5	<0.5	3	220	<200	-	-	<5
	11/28/97	<0.5	<0.5	<0.5	3	340	<200	-	-	6
	02/12/98	<0.5	<0.5	<0.5	<2.0	280	<200	-	-	<5
	05/20/98	<0.5	<0.5	0.8	3	340	<200	-	-	<5
	08/11/98	<0.5	<0.5	<0.5	<0.5	230	<500	-	-	<2.5
	11/10/98	<0.50	<0.50	<0.50	<0.50	150	<250	-	-	<2.5
	02/11/99	<0.50	<0.50	1	1.6	260	<500	-	-	6.7
	05/11/99	<0.5	0.54	<0.5	4.7	160	<250	-	-	<2.5
08/10/99	<0.5	0.79	<0.5	2.8	230	<250	-	-	<2.0	
10/26/99	<0.5	<0.5	0.64	1.2	95	<250	-	-	<2.5	
02/25/00	<0.5	<0.5	<0.5	<0.5	330	310	-	-	1.6	
05/03/00	<0.5	<0.5	<0.5	<0.5	<0.5	220	<100	-	1.5	
MW-2	12/30/92	0.7	<0.3	<0.3	3	190	-	1	<sup>a</sup> ND	-
	03/24/93	0.6	<0.3	<0.3	2	120	-	<1	<sup>a</sup> ND	-
	06/21/93	0.3	<0.3	<0.3	0.7	82	**<100	-	<sup>c</sup> ND	-
	09/16/93	<0.3	<0.3	<0.3	<0.5	28	**<100	-	<sup>c</sup> ND	-
	12/01/93	<0.3	<0.3	<0.3	1	68	-	-	<sup>c</sup> ND	-
	12/30/93	-	-	-	-	-	310	-	-	-
	03/09/94	<0.3	<0.3	<0.3	<0.5	47	<100	-	ND	-
	06/30/94	<0.3	<0.3	<0.3	<0.5	<10	100	-	ND	-
	09/27/94	<0.3	<0.3	<0.3	<0.5	<10	<sup>e</sup> <250	-	<sup>d</sup> 15	-
	12/01/94	<0.3	<0.3	<0.3	<0.5	54	<sup>f</sup> 1,300	-	<sup>g</sup> 6	-
	03/08/95	<0.3	<0.3	<0.3	<0.5	<10	3,000	-	ND	-
	06/09/95	<0.3	<0.3	<0.3	<0.5	<50	2,000	-	ND	-
	08/29/95	<0.3	<0.3	<0.3	<0.5	<50	4,300	-	<sup>h</sup> 20	-
	11/15/95	<0.5	<0.5	<0.5	<0.5	<50	6,100	-	ND	-
	03/05/96	<0.5	<1.0	<1.0	<2.0	<100	3,200	-	ND	-
06/04/96	<0.5	<1.0	<1.0	<2.0	<100	3,800	-	ND	-	
09/04/96	<0.5	<1.0	<1.0	<2.0	<100	3,100	-	-	-	



TABLE 2

Summary of Historical Groundwater Sample Analyses  
 (All results expressed in micrograms per liter unless otherwise specified)

Sears Store 1058  
 2633 Telegraph Avenue, Oakland, California

Well ID	Date Sampled	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH as Gasoline	TPH as Motor Oil	TPH (mg/L)	Dissolved Metals	MTBE
MW-2 cont	12/02/96	<0.5	<1.0	<1.0	<2.0	<100	2,200	--	--	--
	02/26/97	<0.5	<1.0	<1.0	<2.0	<100	2,100	--	--	--
	06/09/97	<0.5	<1.0	<1.0	<2.0	<100	2,400	--	--	<10
	08/25/97	<0.5	<0.5	<0.5	<2.0	<50	<200	--	--	<5
	11/28/97	0.6	<0.5	<0.5	<2.0	<50	1,900	--	--	<5
	02/12/98	<0.5	<0.5	<0.5	<2.0	<50	1,600	--	--	<5
	05/20/98	<0.5	<0.5	<0.5	<2.0	<50	3,100	--	--	<5
	08/11/98	<0.5	<0.5	<0.5	<0.5	<50	1,200	--	--	<2.5
	11/10/98	<0.50	<0.50	<0.50	<0.50	<50	820	--	--	<2.5
	02/11/99	<0.50	<0.50	<0.50	<0.50	<50	<500	--	--	3.3
	05/11/99	<0.5	<0.5	<0.5	<0.5	<50	1,400	--	--	<2.5
	08/10/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/26/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/25/00	<0.5	<0.5	<0.5	<0.5	<50	980	--	--	1.4
	05/03/00	<0.5	<0.5	<0.5	<0.5	<50	<100	--	--	0.6
MW-3	12/30/92	11	0.9	<0.3	2	910	SPH	20	<sup>a</sup> ND	--
	03/24/93	28	0.7	1	8	3,300	SPH	28	<sup>a</sup> 15	--
	06/21/93	21	5	2	19	<sup>**</sup> 2,600	32,000	26	<sup>cd</sup> 5	--
	09/16/93	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	12/01/93	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	03/09/94	2	1.4	4.5	13	2,000	<sup>**</sup> 5,700	<sup>**</sup> 63	<sup>a</sup> ND	--
	06/30/94	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	09/27/94	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	12/01/94	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	03/08/95	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	06/09/95	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	08/29/95	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	11/15/95	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	03/05/96	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	06/03/96	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	09/04/96	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	12/02/96	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	02/26/97	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--
	06/09/97	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
	08/25/97	5	6	5	16	5,600	110,000	--	--	<30
11/28/97	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	
02/12/98	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	
05/20/98	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	
08/11/98	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	--	
11/10/98	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	
02/11/99	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	
05/11/99	5.2	<0.5	<0.5	<0.5	530	59,000	--	--	<2.0	
08/10/99	<0.5	<0.5	<0.5	<0.5	2,200	54,000	--	--	2.2	
10/26/99	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	
02/25/00	<5.0	<5.0	<5.0	<5.0	7,800	130,000	--	--	20	
05/03/00	<0.5	<0.5	<0.5	<0.5	1,100	42,000	--	--	2.2	
MW-4	12/30/92	2	<0.3	1	<0.5	1,200	--	<1	<sup>a</sup> ND	--
	03/24/93	<0.3	<0.3	<0.3	<0.5	750	--	2	<sup>a</sup> 7	--
	06/21/93	<0.3	2	<0.3	0.5	660	19,000	--	<sup>a</sup> ND	--
	09/16/93	0.3	<0.3	2	3	410	2,500	--	<sup>a</sup> ND	--

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

Sears Store 1058  
 2633 Telegraph Avenue, Oakland, California

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH as Gasoline	TPH as Motor Oil	TPH (mg/L)	Dissolved Metals	MTBE
MW-4 cont	12/01/93	<0.3	<0.3	<0.3	<0.5	150	390	--	<sup>b</sup> ND	--
	03/09/94	0.7	0.8	2	3.6	1,500	780	--	<sup>b</sup> ND	--
	06/30/94	<0.3	1.7	0.5	1	450	130	--	ND	--
	09/27/94	0.5	<0.3	<0.3	<0.5	110	1,100	--	ND	--
	12/01/94	0.6	0.5	0.3	0.8	290	580	--	<sup>a</sup> <5	--
	03/08/95	<0.3	<0.3	<0.3	<0.5	360	1,000	--	<sup>a</sup> <5	--
	06/09/95	<0.3	0.4	<0.3	<0.5	64	1,100	--	<sup>a</sup> <5	--
	08/29/95	<0.3	<0.3	<0.3	<0.5	<50	1,200	--	<sup>a</sup> <5	--
	11/15/95	<0.5	<0.5	<0.5	<0.5	<50	2,100	--	<sup>b</sup> ND	--
	03/05/96	<0.5	<1.0	<1.0	<2.0	<100	590	--	<sup>b</sup> ND	--
	06/04/96	<0.5	<1.0	<1.0	<2.0	<100	860	--	ND	--
	09/04/96	<0.5	<1.0	<1.0	<2.0	<100	600	--	--	--
	12/02/96	<0.5	<1.0	<1.0	<2.0	<100	940	--	--	--
	02/26/97	<0.5	<1.0	<1.0	<2.0	<100	390	--	--	--
	06/09/97	<0.5	<1.0	<1.0	<2.0	<100	630	--	--	<10
	08/25/97	<0.5	<0.5	<0.5	<2.0	<50	<200	--	--	<5
	11/28/97	3.6	3.9	3.7	12	120	<200	--	--	<5
	02/12/98	<0.5	<0.5	<0.5	<2.0	<50	<200	--	--	<5
	05/20/98	<0.5	<0.5	<0.5	<2.0	<50	300	--	--	<5
	08/11/98	<0.5	<0.5	<0.5	<0.5	<50	<500	--	--	<2.5
	11/10/98	<0.50	<0.50	<0.50	<0.50	62	610	--	--	<2.5
	02/11/99	<0.50	2.4	1.3	6.5	140	<500	--	--	8.0
	05/11/99	<0.5	<0.5	<0.5	<0.5	<50	330	--	--	<2.0
	08/10/99	<0.5	<0.5	<0.5	2.6	470	<250	--	--	2.5
	10/26/99	<0.5	<0.5	<0.5	<0.5	<50	1,300	--	--	3.5/2.2
	02/25/00	<0.5	<0.5	<0.5	<0.5	<50	<100	--	--	2.4
05/03/00	<0.5	<0.5	<0.5	<0.5	<50	<100	--	--	2.5	
MW-5	12/30/92	<0.3	<0.3	<0.3	<0.5	37	--	<1	<sup>b</sup> <5	--
	03/24/93	<0.3	<0.3	<0.3	0.5	19	--	2	<sup>c</sup> <341	--
	06/21/93	<0.3	<0.3	<0.3	<0.5	<10	<100	--	<sup>c</sup> ND	--
	09/16/93	0.3	<0.3	<0.3	1	<10	<100	--	<sup>c</sup> ND	--
	12/01/93	<0.3	<0.3	<0.3	1	17	--	--	<sup>c</sup> ND	--
	12/30/93	--	--	--	--	--	<100	--	--	--
	03/09/94	<0.3	<0.3	<0.3	<0.5	22	<100	--	<sup>c</sup> ND	--
	06/30/94	<0.3	<0.3	<0.3	<0.5	<10	<100	--	ND	--
	09/27/94	0.5	0.4	<0.3	<0.5	<10	560	--	ND	--
	12/01/94	<0.3	<0.3	<0.3	<0.5	<10	<250	--	ND	--
	03/08/95	<0.3	<0.3	<0.3	<0.5	<10	<250	--	ND	--
	06/09/95	<0.3	<0.3	<0.3	<0.5	<50	<250	--	<sup>d</sup> 7	--
	08/29/95	<0.3	<0.3	<0.3	<0.5	<50	<250	--	<sup>b</sup> 36	--
	11/15/95	<0.5	<0.5	<0.5	<0.5	<50	<200	--	ND	--
	03/05/96	<0.5	<1.0	<1.0	<2.0	<100	<200	--	ND	--
	06/03/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/04/96	<0.5	<1.0	<1.0	<2.0	<100	310	--	--	--
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/26/97	<0.5	<1.0	<1.0	<2.0	<100	<200	--	--	--
	06/09/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
08/25/97	>0.5	<0.5	<0.5	<2.0	<50	<200	--	--	<5	
11/28/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	

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

Sears Store 1058  
2633 Telegraph Avenue, Oakland, California

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH as Gasoline	TPH as Motor Oil	TPH (mg/L)	Dissolved Metals	MTBE
MW-5 cont	02/12/98	<0.5	<0.5	<0.5	<0.5	<50	<200	—	—	<5
	05/20/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/11/98	<0.5	<0.5	<0.5	<0.5	<50	<500	—	—	<2.5
	11/10/98	NS	NS	NS	NS	NS	NS	—	—	NS
	02/11/99	<0.5	<0.5	<0.5	<0.5	<50	<500	—	—	3.2
	05/11/99	—	—	—	—	—	—	—	—	—
	08/10/99	<0.5	<0.5	<0.5	<0.5	<50	<250	—	—	5.6
	10/26/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/25/00	<0.5	<0.5	<0.5	<0.5	<50	<100	—	—	3.5
	05/03/00	<0.5	<0.5	<0.5	<0.5	<50	<100	—	—	2.9
MW-6	12/27/93	<0.3	<0.3	<0.3	<0.5	<10	<100	<1	<sup>o</sup> 70	—
	03/09/94	<0.3	<0.3	<0.3	<0.5	15	<100	—	<sup>o</sup> ND	—
	06/30/94	<0.3	<0.3	<0.3	<0.5	<10	<100	—	<sup>o</sup> ND	—
	09/27/94	<0.3	<0.3	<0.3	<0.5	<10	<250	—	<sup>o</sup> 8	—
	12/01/94	<0.3	<0.3	<0.3	<0.5	<10	<250	—	<sup>o</sup> 32	—
	03/08/95	<0.3	<0.3	<0.3	<0.5	<10	<250	—	ND	—
	06/09/95	<0.3	<0.3	<0.3	<0.5	<50	<250	—	ND	—
	08/29/95	<0.3	<0.3	<0.3	<0.5	<50	<250	—	<sup>h</sup> 24	—
	11/15/95	<0.5	<0.5	<0.5	<0.5	<50	<200	—	<sup>o</sup> 31	—
	03/05/96	<0.5	<1.0	<1.0	<2.0	<100	<200	—	ND	—
	06/03/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/04/96	<0.5	<1.0	<1.0	<2.0	<100	230	—	—	—
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/26/97	<0.5	<1.0	<1.0	<2.0	<100	<200	NS	NS	NS
	06/09/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/25/97	<0.5	1.1	<0.5	<2.0	<50	<200	—	—	<5
	11/28/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/12/98	<0.5	<0.5	<0.5	<2.0	<50	<200	—	—	<5
	05/20/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/11/98	<0.5	<0.5	<0.5	<0.5	<50	<500	—	—	<2.5
11/10/98	NS	NS	NS	NS	NS	NS	—	—	NS	
02/11/99	<0.5	<0.5	<0.5	<0.5	<50	<500	—	—	7.1	
05/11/99	—	—	—	—	—	—	—	—	—	
08/10/99	<0.5	<0.5	<0.5	<0.5	<50	<250	—	—	<2.0	
10/26/99	NS	NS	NS	NS	NS	NS	NS	NS	NS	
02/25/00	<0.5	<0.5	<0.5	<0.5	<50	<100	—	—	<0.5	
05/03/00	<0.5	<0.5	<0.5	<0.5	<50	<100	—	—	<0.5	
MW-7	12/27/93	<0.3	<0.3	1	2	140	<100	<1	<sup>o</sup> 40	—
	03/09/94	<0.3	<1.0	1.5	4.1	620	<100	—	<sup>o</sup> ND	—
	06/30/94	<0.3	<0.3	<0.3	<0.5	33	<100	—	ND	—
	09/27/94	<0.3	<0.3	0.4	0.7	52	<sup>o</sup> <250	—	ND	—
	12/01/94	<0.3	<0.3	<0.3	1.1	<10	<sup>o</sup> <250	—	<sup>o</sup> 28	—
	03/08/95	<0.3	<0.3	<0.3	<0.5	<10	<sup>o</sup> <250	—	ND	—
	06/09/95	<0.3	<0.3	<0.3	<0.5	<50	<250	—	ND	—
	08/29/95	<0.3	<0.3	<0.3	<0.5	<50	<250	—	<sup>h</sup> 13	—
	11/15/95	<0.5	<0.5	<0.5	<0.5	<50	<200	—	ND	—
	03/05/96	<0.5	<1.0	<1.0	<2.0	<100	270	—	ND	—
	06/03/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/04/96	<0.5	<1.0	<1.0	<2.0	<100	<200	—	—	—
	12/02/96	NS	NS	NS	NS	NS	NS	NS	NS	NS

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**Sears Store 1058**  
**2633 Telegraph Avenue, Oakland, California**

Well ID	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH as Gasoline	TPH as Motor Oil	TPH (mg/L)	Dissolved Metals	MTBE
MW-7 cont	02/26/97	<0.5	<1.0	<1.0	<2.0	<100	<200	NS	NS	NS
	06/09/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/25/97	<0.5	<0.5	<0.5	<2.0	<50	<200	-	-	<5
	11/28/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/12/98	<0.5	<0.5	<0.5	<2.0	<50	<200	-	-	<5
	05/20/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	08/11/98	<0.5	<0.5	<0.5	<0.5	<50	<500	-	-	<2.5
	11/10/98	NS	NS	NS	NS	NS	NS	-	-	NS
	02/11/99	<0.5	<0.5	<0.5	<0.5	130	<500	-	-	5.8
	05/11/99	-	-	-	-	-	-	-	-	-
	08/10/99	<0.5	<0.5	<0.5	<0.5	<50	<250	-	-	<2.0
	10/26/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/25/00	<0.5	<0.5	<0.5	<0.5	<50	<100	-	-	<0.5
	05/03/00	<0.5	<0.5	<0.5	<0.5	<50	<100	-	-	<0.5
MW-8	12/27/93	0.4	4	0.4	1	390	<100	<1	<sup>18</sup>	-
	03/09/94	0.6	0.8	0.5	1.5	420	<100	-	<sup>18</sup> ND	-
	06/30/94	0.9	<0.3	<0.3	1.1	250	<100	-	ND	-
	09/27/94	<0.3	<0.3	<0.3	<0.5	210	<sup>e</sup> <250	-	<sup>9</sup>	-
	12/01/94	5.4	<0.3	0.7	1.3	230	<sup>e</sup> <250	-	<sup>c</sup> ND	-
	03/08/95	<0.3	<0.3	<0.3	<0.5	230	<sup>e</sup> <250	-	ND	-
	06/09/95	<0.3	<0.3	<0.3	<0.5	<50	<sup>e</sup> <250	-	ND	-
	08/29/95	0.9	0.4	<0.3	0.8	200	<sup>e</sup> <250	-	<sup>15</sup>	-
	11/15/95	0.58	<0.5	<0.5	0.54	120	-	-	<sup>21</sup>	-
	12/11/95	-	-	-	-	-	<sup>e</sup> <200	-	-	-
	03/05/96	0.6	<1.0	<1.0	<2.0	<100	<sup>e</sup> <200	-	ND	-
	06/03/96	<0.5	<1.0	<1.0	<2.0	100	-	-	-	-
	09/04/96	<0.5	<1.0	<1.0	<2.0	110	<200	-	-	-
	12/02/96	<0.5	<1.0	<1.0	<2.0	110	<200	-	-	-
	02/26/97	<0.5	<1.0	<1.0	<2.0	<100	<200	-	-	-
	06/09/97	<0.5	<1.0	<1.0	<2.0	110	<200	-	-	<10
	08/25/97	<0.5	<0.5	<0.5	<2.0	70	<200	-	-	<5
	11/28/97	<0.5	<0.5	<0.5	<2.0	110	<200	-	-	<5
	02/12/98	<0.5	<0.5	0.6	<2.0	70	<200	-	-	<5
	05/20/98	<0.5	<0.5	<0.5	<2.0	<50	<200	-	-	<5
	08/11/98	<0.5	<0.5	<0.5	<0.5	64	<500	-	-	<2.5
	11/10/98	<0.50	<0.50	<0.50	<0.50	52	<250	-	-	<2.5
	02/11/99	<0.50	<0.50	<0.50	<0.50	59	<500	-	-	<2.5
	05/11/99	<0.5	<0.5	<0.5	<0.5	<50	<250	-	-	<2.5
	08/10/99	<0.5	<0.5	<0.5	<0.5	72	<250	-	-	<2.0
10/26/99	<0.5	<0.5	<0.5	<0.5	63	<250	-	-	<2.5	
02/25/00	<0.5	<0.5	<0.5	<0.5	<50	<100	-	-	<0.5	
05/03/00	<0.5	<0.5	<0.5	<0.5	<50	<100	-	-	<0.5	
MW-9	12/02/96	<0.5	<1.0	<1.0	<2.0	210	250	-	-	-
	02/26/97	<0.5	<1.0	<1.0	<2.0	170	340	-	-	-
	06/09/97	0.8	<1.0	<1.0	<2.0	130	350	-	-	<10
	08/25/97	<0.5	0.8	<0.5	<2.0	110	<200	-	-	<5
	11/28/97	<0.5	0.5	0.9	<2.0	150	<200	-	-	<5
	02/12/98	<0.5	<0.5	<0.5	<2.0	60	<200	-	-	<5
	05/20/98	<0.5	<0.5	0.9	<2.0	130	<200	-	-	<5
08/11/98	<0.5	<0.5	<0.5	0.76	240	<500	-	-	<2.5	

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

Sears Store 1058  
 2633 Telegraph Avenue, Oakland, California

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH as Gasoline	TPH as Motor Oil	TPH (mg/L)	Dissolved Metals	MTBE
MW-9 cont	11/10/98	<0.50	<0.50	<0.50	<0.50	220	<250	--	--	<2.5
	02/11/99	<0.50	<0.50	<0.50	<0.50	52	<500	--	--	3.5
	05/11/99	<0.5	<0.5	<0.5	<0.5	96	<250	--	--	<2.5
	08/10/99	<0.5	<0.5	<0.5	0.96	130	<250	--	--	<2.0
	10/26/99	<0.5	<0.5	<0.5	<0.5	130	<250	--	--	3.3/2.1
	02/25/00	<0.5	<0.5	<0.5	<0.5	<50	<100	--	--	0.8
	05/03/00	<0.5	<0.5	<0.5	<0.5	150	<100	--	--	1.5
EW-1	09/04/96	<0.5	<1.0	<1.0	<2.0	1,100	1,700	--	--	--
	12/02/96	6.2	<1.0	<1.0	<2.0	1,000	1,400	--	--	--
	02/26/97	12	<1.0	<1.0	<2.1	1,200	2,100	--	--	--
	06/09/97	83	<1.0	<1.0	<2.0	1,400	12,000	--	--	13
	08/25/97	7.5	0.9	0.9	2	1,400	15,000	--	--	12
	11/28/97	4.5	1.1	1.1	4	560	5,700	--	--	5
	02/12/98	9.8	0.6	1.2	2	1,000	6,300	--	--	30
	05/20/98	7.2	<0.5	<0.5	<2.0	820	6,200	--	--	26
	08/11/98	2.6	<0.5	<0.5	0.86	320	5,400	--	--	8.7
	11/10/98	<0.50	<0.50	<0.50	0.75	820	2,900	--	--	13
	02/11/99	4.0	<0.50	0.51	0.94	720	1,300	--	--	14
	05/11/99	<0.5	<0.5	<0.5	<0.5	680	4,800	--	--	<2.5
	08/10/99	<0.5	<0.5	<0.5	<0.5	730	1,100	--	--	3.6
	10/26/99	<0.5	<0.5	<0.5	<0.5	1,500	13,000	--	--	<50
	02/25/00	<0.5	<0.5	<0.5	<0.5	1,100	6,300	--	--	2.2
05/03/00	<0.5	<0.5	<0.5	<0.5	110	3,100	--	--	<0.5	

Notes:

- = No data for the cell, including "not analyzed for this constituent"
- < = Compound was not detected above the laboratory reporting limits.
- mg/l = Milligrams per liter
- TPH = Total petroleum hydrocarbons
- ND = Non-detectable (Detection limits for each metal are listed in laboratory reports.)
- SPH = Separate phase hydrocarbon
- NS = Not sampled
- \* = Water samples were not filtered; analytical results represent total metals present, not dissolved concentrations
- \*\* = Uncategorized hydrocarbon compound not included in this hydrocarbon concentration.
- a = Dissolved lead
- b = Dissolved lead only analyte detected
- c = Dissolved lead, cadmium, total chromium, nickel, and zinc
- d = Cadmium only analyte detected
- e = Hydrocarbon pattern not characteristic of motor oil
- f = Uncategorized compounds included in concentration
- g = Zinc only analyte detected
- h = Chromium only analyte detected
- i = Duplicate sample result from EPA Method 8260A
- MTBE = Methyl Tert-Butyl Ether

**Attachment 3**

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

## 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 that 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 tripled 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 3 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, are placed in the insulated cooler, and accompany the field samples throughout the sampling event.

Len Mason

SITE VISIT FORM  
IT Corporation - Concord, California

Project: 803685.00  
Site: SEARS/#1058/Oakland, CA  
Project Mgr: David Bero

Technician: H Merino  
Scheduled: 5/01/2000  
Site Mgr:

PREPARATORY COMMENTS

Visit Date: ~~7:30~~ <sup>5/3/00</sup> Arrival Time: 7:30 Departure Time: 13:30

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

Called PM?  Y/N Time: \_\_\_\_\_ Who: \_\_\_\_\_ Topic: \_\_\_\_\_

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: 2633 Telegraph Avenue, Oakland, CA

cc: David Bero

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

Notify Amir Gholami 72 hrs in advance (510) 567-6876 DONE @ <sup>5/3/00</sup> 10:30 *gab*

During any sampling activities, a minimum work zone will be defined by a 10ft by 10ft square centered around the monitor well and marked with 36" -high orange traffic cones with flag poles and flags 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.

BRING 9/16 BOLTS FOR ALL 8 WELLS. Need three (3) new drums for this site.

1. FEB(1st)/AUG(3rd): Monitor and sample all wells (MW-1 through MW-9 and EW-1) in the following order: MW-5, MW-6, MW-7, MW-8, MW-1, MW-9, MW-4, MW-2, MW-3 and the extraction well (EW-1) located next to MW-3. USE DISPOSABLE BAILERS.

*Monitor and sample all wells. Per David Bero 5/3/00*  
MAY(2nd)/NOV(4th): Monitor all wells (MW-1 through MW-9, and EW-1). Sample seven (7) wells in the following order: MW-5, MW-6, MW-7, MW-8, MW-1, MW-9, MW-4, MW-2 and EW-1. USE DISPOSABLE BAILERS. Collect three (3) 40ml, HCL-preserved VOAs from all wells. *3:00 pm*

2. Record DTW, DTP, pH, Conductivity, temperature and dissolved oxygen.  
NOTE: Recharge DTW.



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

Project: 803685.00  
Site: SEARS/#1058/Oakland, CA  
Project Mgr: David Bero

Technician:  
Scheduled: 5/01/2000  
Site Mgr:

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

3. Collect one trip blank and one duplicate from MW-4 and submit for BTEX-8020 only.
4. Complete detailed drum count. Check with owner if drums can be left in corner. Label drums properly (Non Haz).
5. Submit samples to Zymax, ph# (805) 544-4696. To be analyzed for BTEX/TPH-G (EPA 8020/8015), MTBE/TAME/ DIPE/ETBE/TBA/EDB/EDC (Oxygenates EPA 8260) and TPH- Motor Oil (EPA 8015). NOTE ON COC: MTBE DETECTIONS IN 8020 NEED CONFIRMATION BY 8260, PLEASE RUN AS NEEDED.
6. COMPLETED ALL THREE PAGES OF WASTE INVENTORY FORM? \_\_\_\_\_. IF NO, EXPLAIN \_\_\_\_\_.
7. Record hours used on-site as well as travel time used.

HOURS ESTIMATED FOR FEB/AUG 6.0

MAY/NOV 5.0

Hours Estimated

6.00

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

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

Project: 803685.00  
 Site: SEARS/#1058/Oakland, CA  
 Project Mgr: David Bero

Technician:  
 Scheduled: 5/01/2000  
 Site Mgr:

TECHNICIAN'S COMMENTS

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Total Hours Estimated	6.00	Total Hours Used	
Travel Time Estimated	1.50	Travel Time Used	

\_\_\_\_\_ Technician

SITE VISIT FORM  
IT Corporation

Project: Sears/#1058/Oakland  
Store #: 1058/2633 Telegraph  
Project Manager: David Bero

Technician: H Merino  
Schedule: 5/3/00  
Job No. 803685.03054300

WELL WATER SAMPLING - TASK Nr: 03054300 [QUARTERLY]  
Gauge wells for volume of water & bail 3 well Vol,s. DECON  
PREPARATORY COMMENTS

Visit Date: 5-3-00 Arrival Time: 7:30 Departure Time: 13:30

Called Project Manager? YES  NO  Time: \_\_\_\_\_ Who: \_\_\_\_\_

If you did not call, why not? No need to everything went well!

Weather: Rain Snow  Sunny  Cloudy Temperature: \_\_\_\_\_

Well ID

MW-1:	DTB_21.72	DTW <u>10.90</u>	SAT. THICK ___	#GAL. BAILED ___
MW-2:	DTB_21.79	DTW <u>10.78</u>	SAT. THICK ___	#GAL. BAILED ___
MW-3:	DTB_24.67	DTW <u>12.30</u>	SAT. THICK ___	#GAL. BAILED ___
MW-4:	DTB_22.97	DTW <u>11.55</u>	SAT. THICK ___	#GAL. BAILED ___
MW-5:	DTB_25.27	DTW <u>10.40</u>	SAT. THICK ___	#GAL. BAILED ___
MW-6:	DTB_22.05	DTW <u>10.78</u>	SAT. THICK ___	#GAL. BAILED ___
MW-7:	DTB_21.70	DTW <u>11.16</u>	SAT. THICK ___	#GAL. BAILED ___
MW-8:	DTB_22.14	DTW <u>12.15</u>	SAT. THICK ___	#GAL. BAILED ___
MW-9:	DTB_20.30	DTW <u>11.70</u>	SAT. THICK ___	#GAL. BAILED ___
EW-1:	DTB_22.30	DTW <u>12.36</u>	SAT. THICK ___	#GAL. BAILED ___

NOTES:

Sampled all wells, TOTAL OF  
12 Drums on site

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 1058 Address/City/State/ZIP 2633 TELEGRAPH AVE  
OAKLAND CA  
 Sears Facility Contact and Phone # Korean Restaurant, Not a Sears Store/Buildi.  
 IT Corporation Representative Hector Merino  
 Accumulation Start Date 5-3-00 Completion Date: 5/3/00  
 Exact Drum Storage Location Behind Restaurant Next to Fence

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			O or B	H / N / U	
GASOLINE IMPACTED PURGE WATER	12	A-L	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 1058 City/State OAKland Ca.

IT Corporation Representative Theodor 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 Y/N	VOLUME (gallon)
A	<del>2</del> 7/8-00	Absorbant socks	MW-3	NO	
B	2/8-00	Vac water			55 GAL
C	2/1-00	Vac water			
D	2/1-00	Vac Water			
E	2/15-00	VAC water			
F	2/15-00	VAC water			
G	2/23-00	Vacwater			
H	2/23-00	VAC water			
I	2/25-00	<del>Purge</del> water	All wells		
J	2/25-00	Purge water			
K	4- <del>2</del> -00	Purge water			
L	4-3-00	Purge Water			
<del>M</del>					

EXAMPLE

A	6/24/94	diesel(3)/water(8)	diesel lines, flush water	no	11
---	---------	--------------------	---------------------------	----	----

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 1058 Address/City/State/ZIP 2633 TELEGRAPH AVE  
OAKLAND CA  
 Sears Facility Contact and Phone # Korean Restaurant Not a Sears  
store building  
 IT Corporation Representative Hector Marino  
 Accumulation Start Date 5-3-00 Completion Date 5-3-00  
 Exact Bulk Storage Location \_\_\_\_\_

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>

*[Handwritten mark]*







Sears 105B Oakland

Date 5-3-00  
Prof. Mng DAVID BERO

Well ID  
Well DIA

MW3  
2

initial 12.30  
Recharge  
DTB 24.67

cal well vol 210  
well vol x3 630

TIME	Temp	cond	PH	Purge VOL	TURBIDITY	COMMENTS
	20.6	0.73	6.65	2	cloudy	ODOR
	20.5	0.76	6.66	4	GREY	
				6		
	20.0	0.76	6.67			
	20.2	0.76	6.67	8		
	20.5	0.77	6.67	10		



















71 Zaca Lane San Luis Obispo CA 93401 tel 805.544.4696 fax 805.544.8226

CHAIN of CUSTODY

report to **DAVID BERO**  
 company **IT CORP**  
 address **4005 Portch. cargin Hwy  
 Concord Ca. 94520**

phone **725-255-9898** fax **725-255-0558**  
 project **SEAS Heligraph**  
 project # **802655, C305/300**  
 sampler **Hector Merino**

ANALYSIS REQUESTED  
 MTBE (TAME) (DIP) (P.E. TRAIT) (M/S) (P)  
 BTEX (P) (M/S) (S) (B) (S)  
 TRAIL (M/S) (P) (S) (B)  
 BTEX (S) (M/S) (P)

Turnaround Time\*  
 ASAP  48 hr   
 12 hr  72 hr   
 24 hr   **std**

ZymaX use only	SAMPLE DESCRIPTION	Date Sampled	Time	Matrix	Preserve	MTBE (TAME) (DIP) (P.E. TRAIT) (M/S) (P)	BTEX (P) (M/S) (S) (B) (S)	TRAIL (M/S) (P) (S) (B)	BTEX (S) (M/S) (P)	# of containers	Remarks
	MW-2	5/3	8:20	GW	Hcl	X	X	X		3	MTBE
	MW-5	5/3	8:40	GW	Hcl	X	X	X		3	DETECTIONS
	MW-6	5/3	9:10	GW	Hcl	X	X	X		3	IN 820 Prod
	MW-7	5/3	9:25	GW	Hcl	X	X	X		3	CONFIRMATION BY 8260
	MW-8	5/3	10:00	GW	Hcl	X	X	X		3	Please Run OS
	MW-1	5/3	10:30	GW	Hcl	X	X	X		3	Needed
	MW-9	5/3	10:56	GW	Hcl	X	X	X		3	
	MW-4	5/3	11:15	GW	Hcl	X	X	X		3	
	DUP	5/3	11:15	GW	Hcl				X	1	
	EW-1	5/3	12:10	GW	Hcl	X	X	X			
	MW3	5/3	12:28	GW	Hcl	X	X	X		X	

Comments **TBLB**

Relinquished by: **IDE Hcl**  
 Signature \_\_\_\_\_  
 Print **Hector Merino**  
 Company **IT CORP**  
 Date **5/3/00** Time \_\_\_\_\_

Received by: **Frank**  
 Signature \_\_\_\_\_  
 Print **FRANK LANGRISH**  
 Company **ZYMAX**  
 Date **5-7-00** Time **1:15**

Sample integrity upon receipt:  
 Samples received intact   
 Samples received cold   
 Custody seals   
 Correct container types

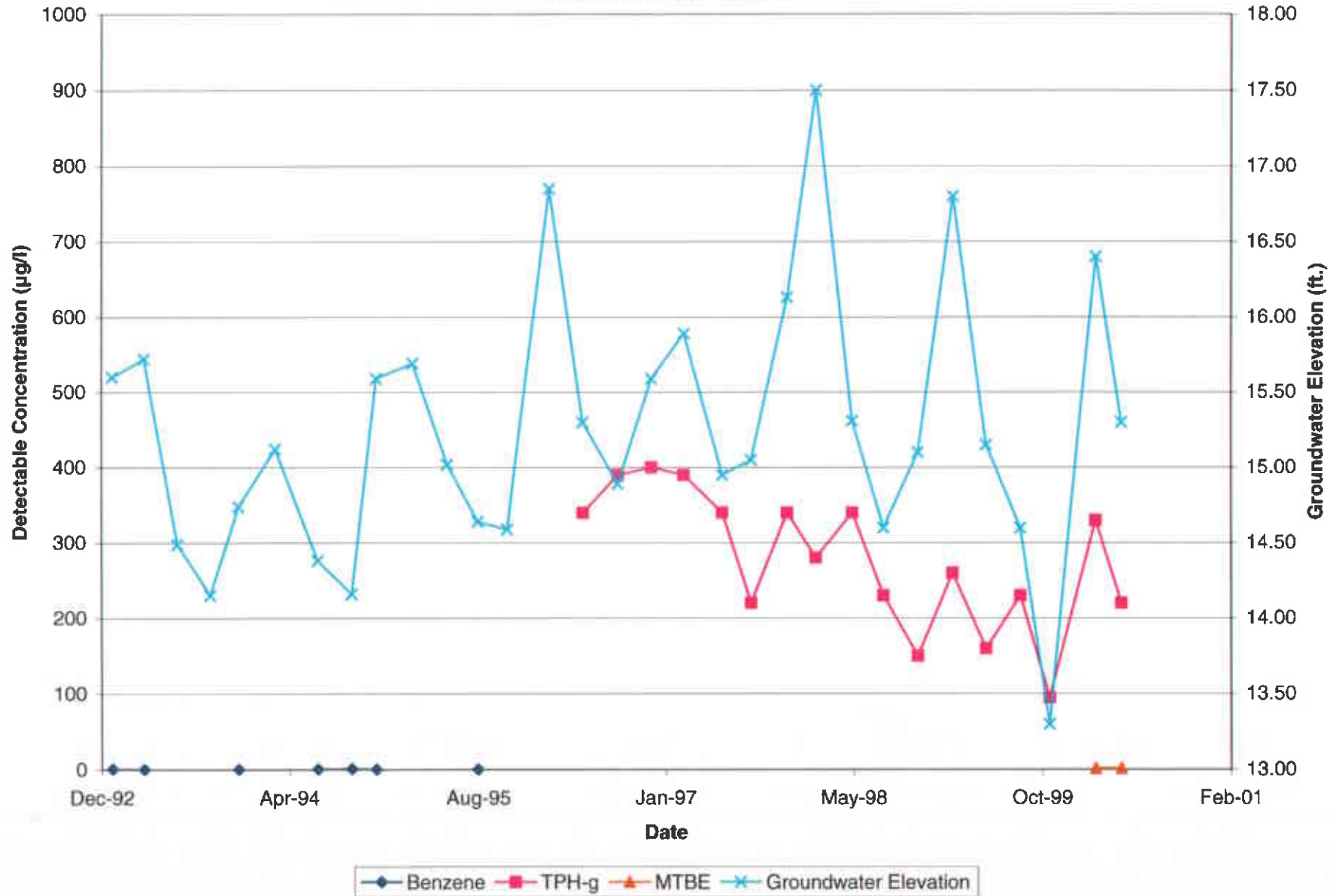
Bill 3rd Party:  
 PO# \_\_\_\_\_  
 Quote yes no

Relinquished by:  
 Signature \_\_\_\_\_  
 Print \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

Received by ZymaX envirotechnology inc:  
 Signature \_\_\_\_\_  
 Print \_\_\_\_\_  
 Company \_\_\_\_\_  
 Date \_\_\_\_\_ Time \_\_\_\_\_

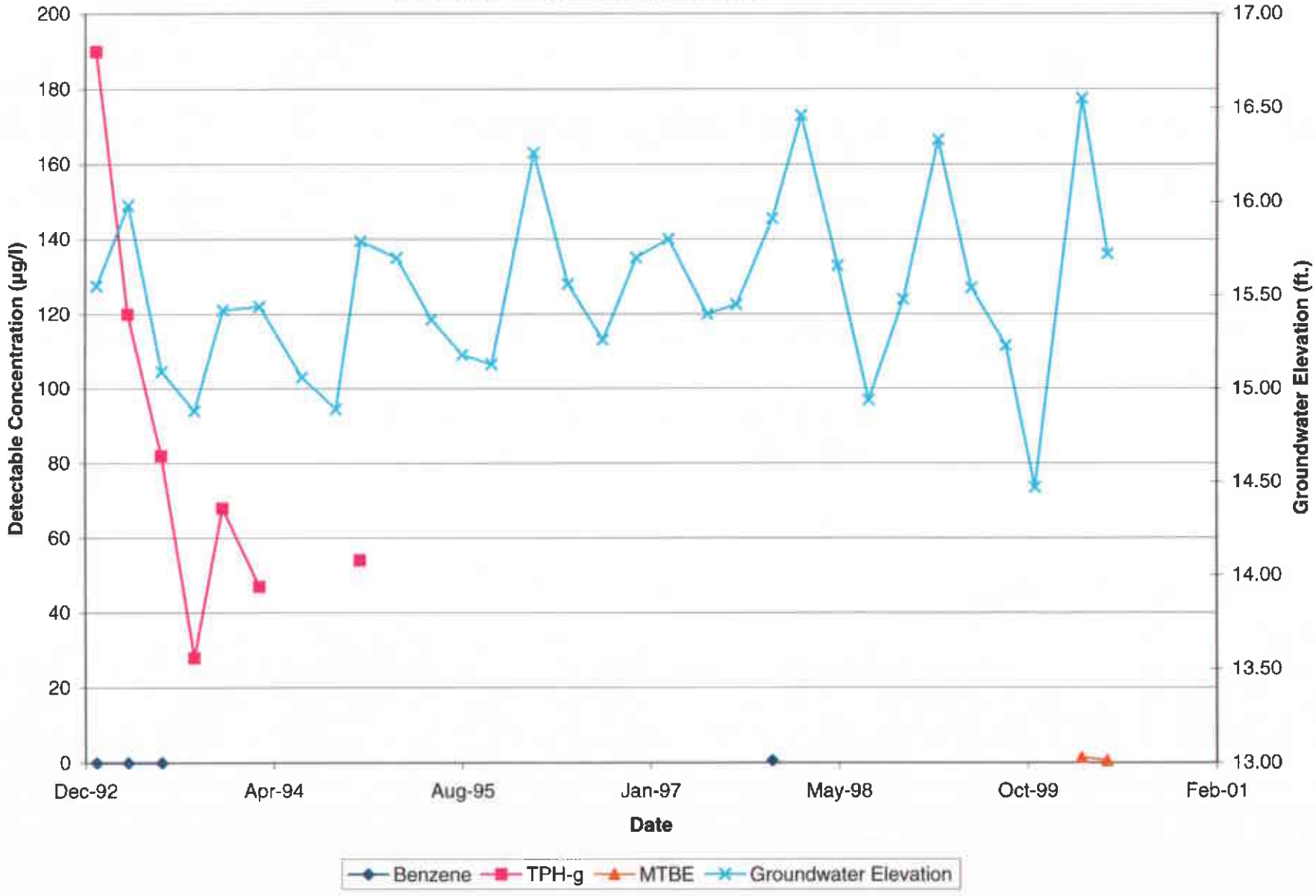
Graph 1, MW-1  
 Sears Store No. 1058, 2633 Telegraph Avenue  
 Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



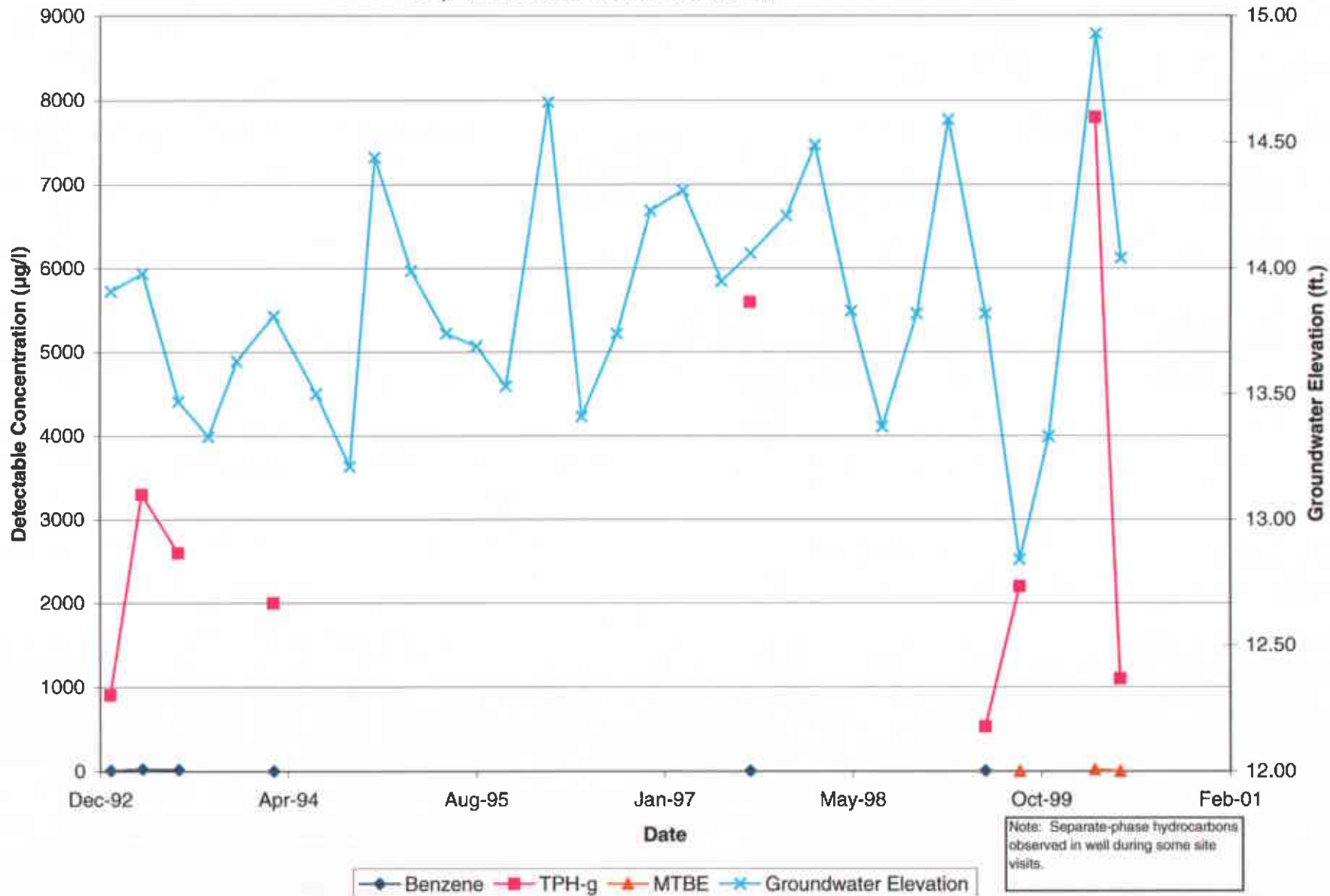
Graph 2, MW-2  
 Sears Store No. 1058, 2633 Telegraph Avenue  
 Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



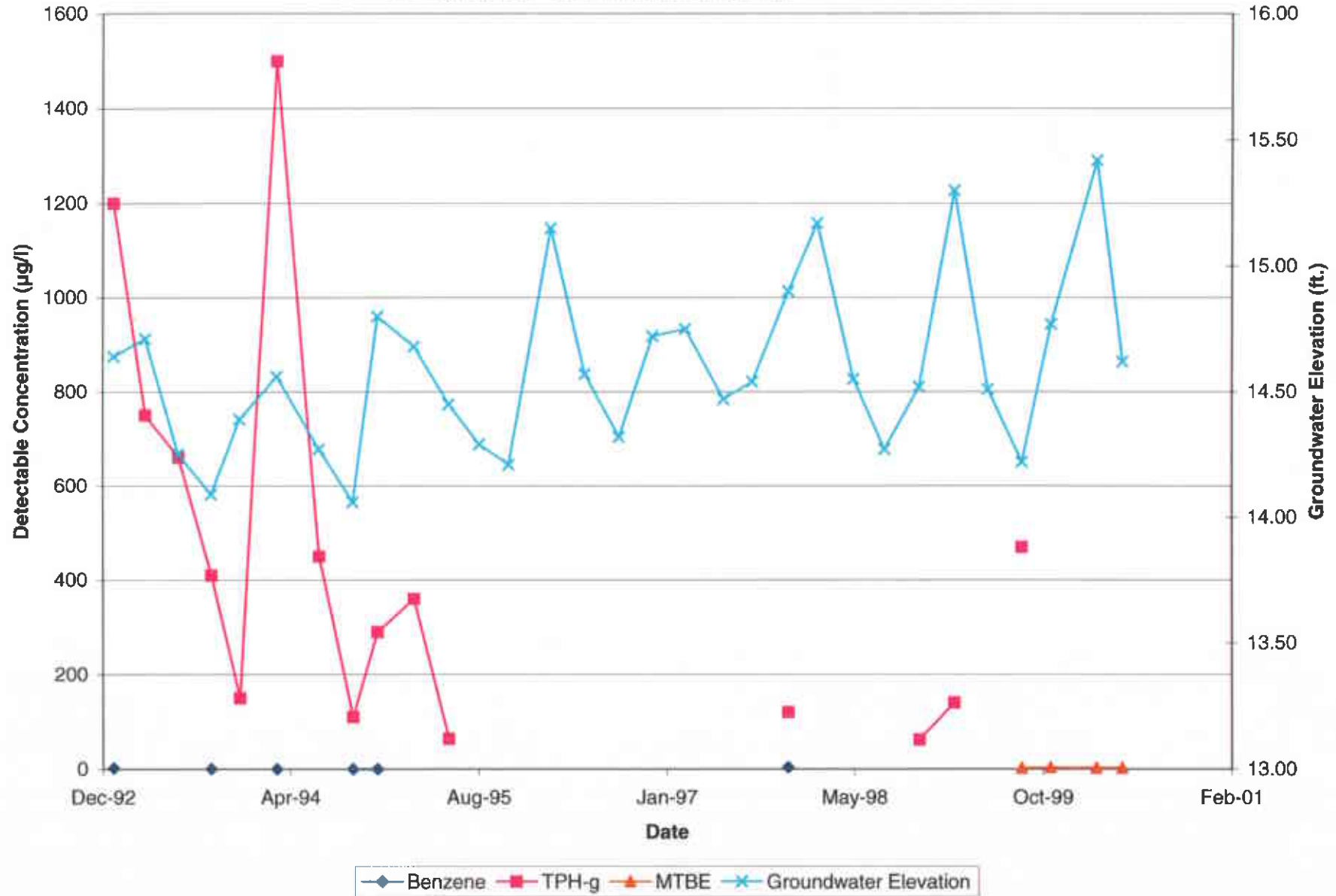
Graph 3, MW-3  
 Sears Store No. 1058, 2633 Telegraph Avenue  
 Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



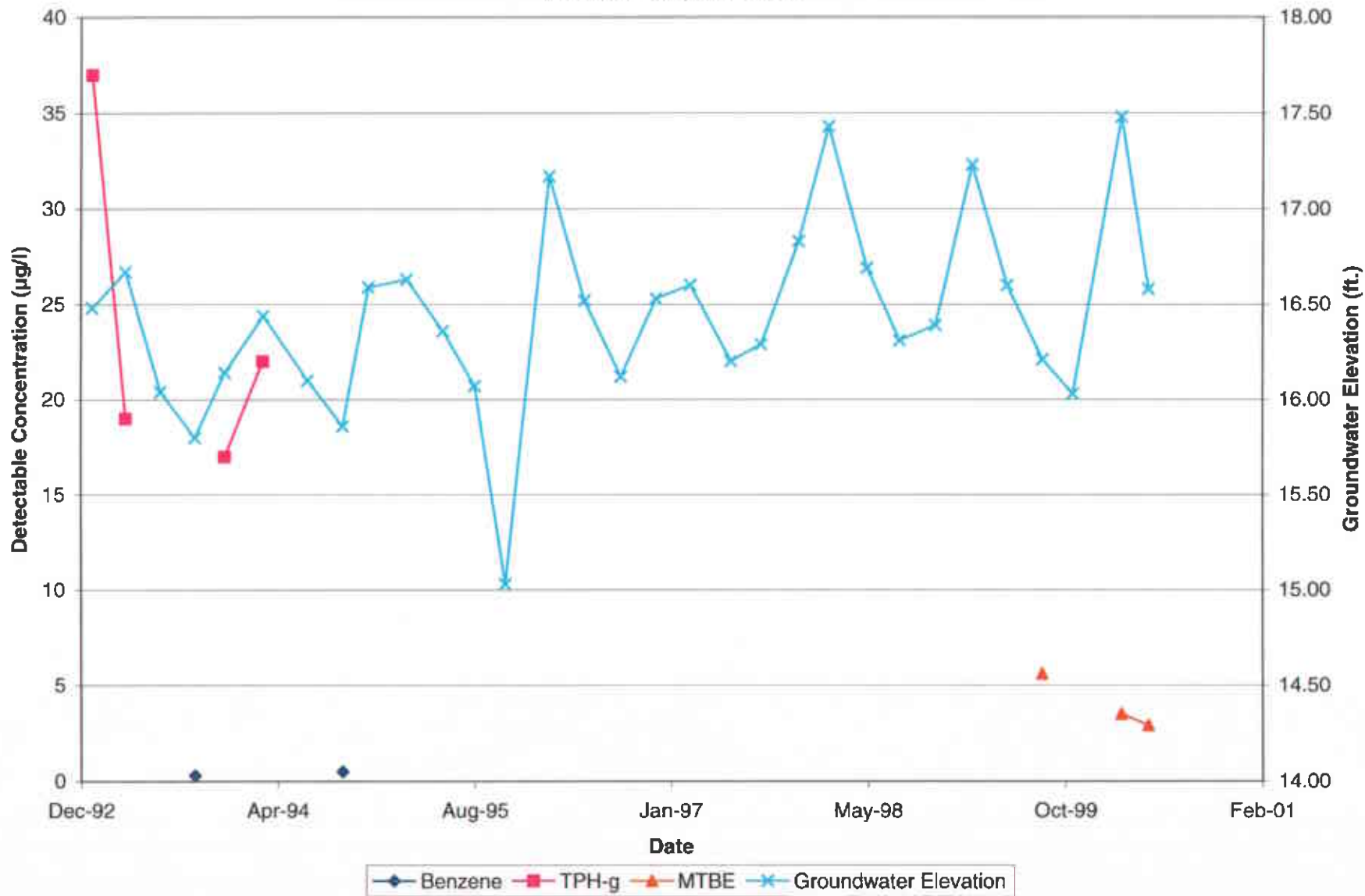
Graph 4, MW-4  
Sears Store No. 1058, 2633 Telegraph Avenue  
Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



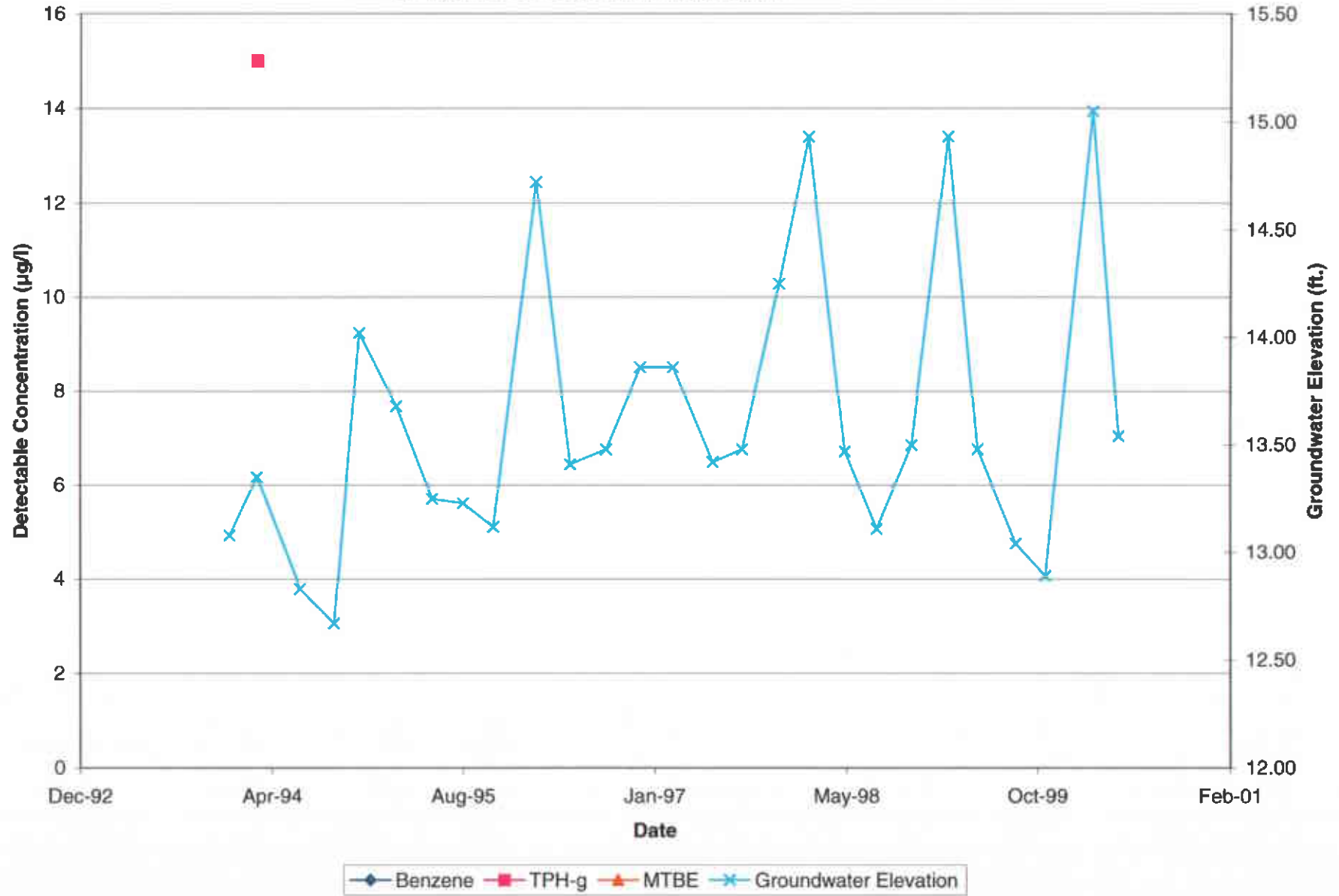
Graph 5, MW-5  
 Sears Store No. 1058, 2633 Telegraph Avenue  
 Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



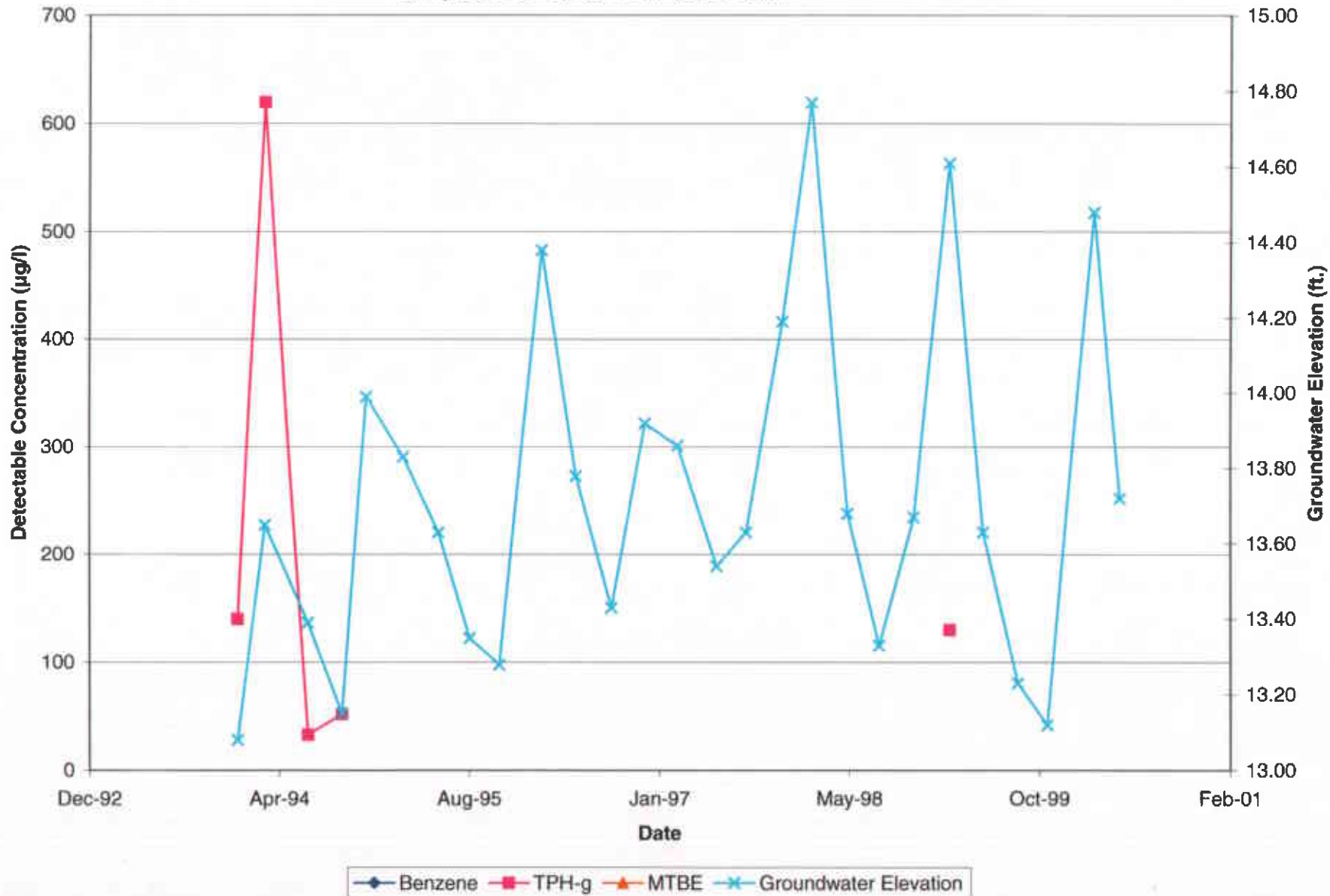
Graph 6, MW-6  
Sears Store No. 1058, 2633 Telegraph Avenue  
Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



Graph 7, MW-7  
Sears Store No. 1058, 2633 Telegraph Avenue  
Oakland, California

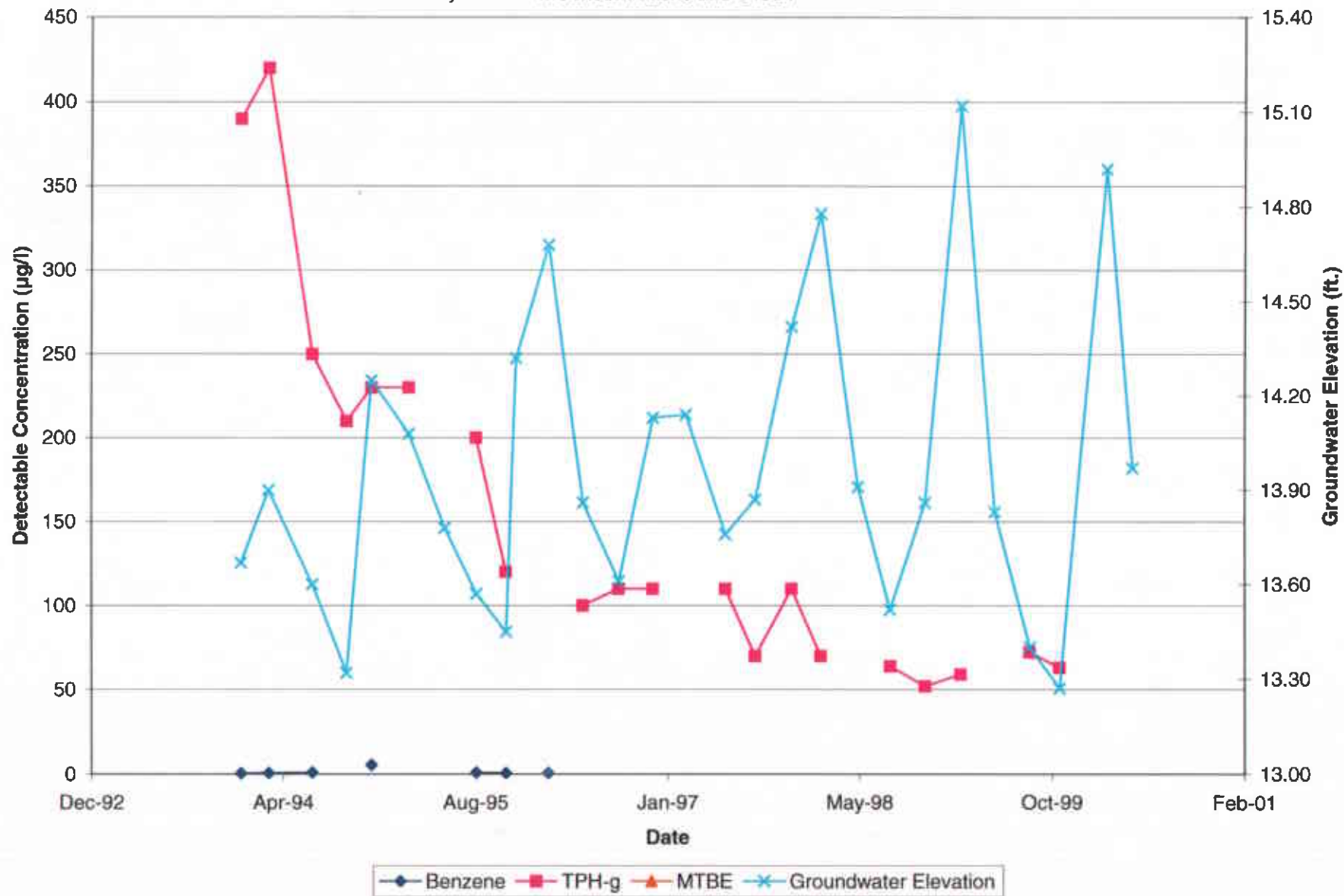
Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time





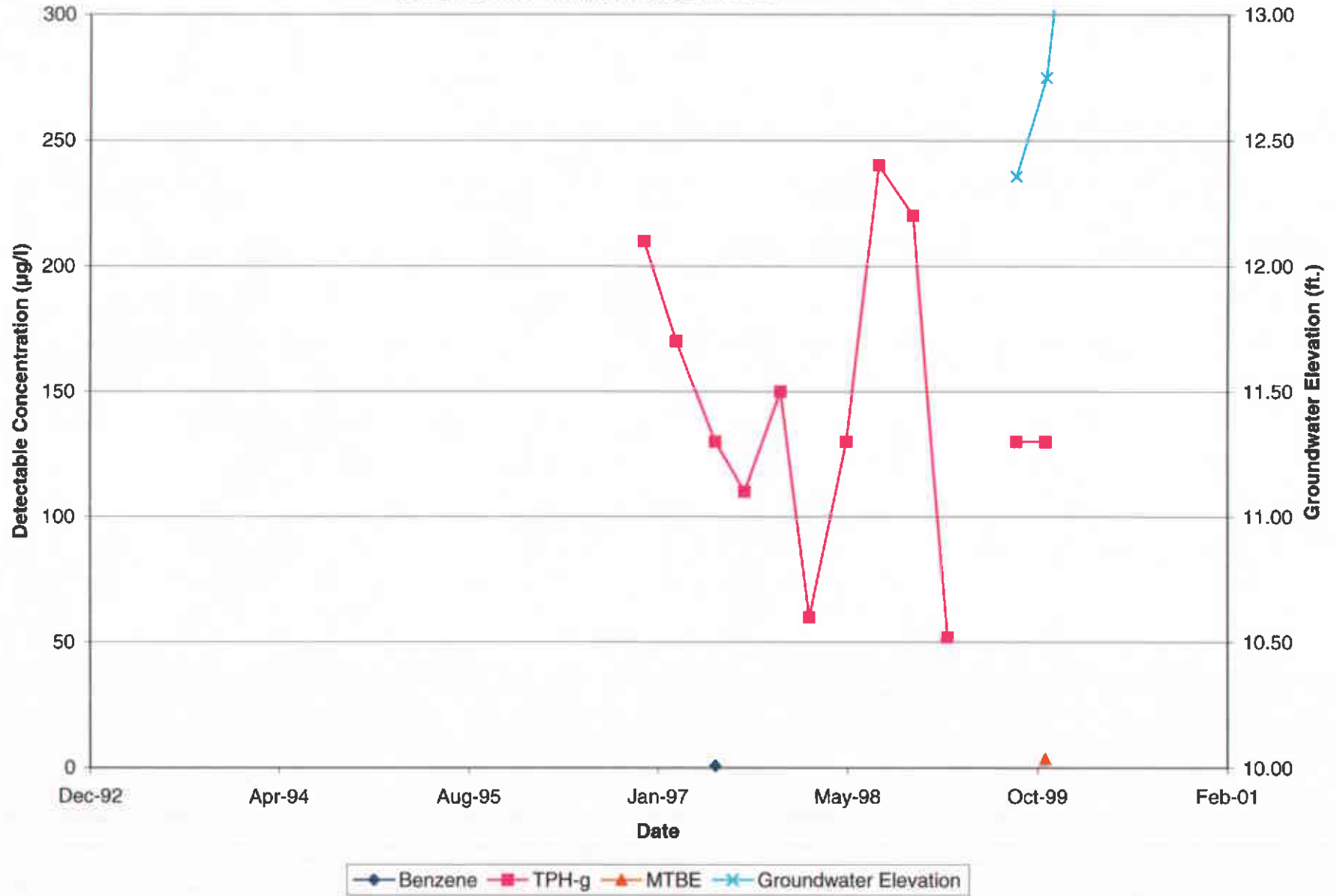
Graph 8, MW-8  
 Sears Store No. 1058, 2633 Telegraph Avenue  
 Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



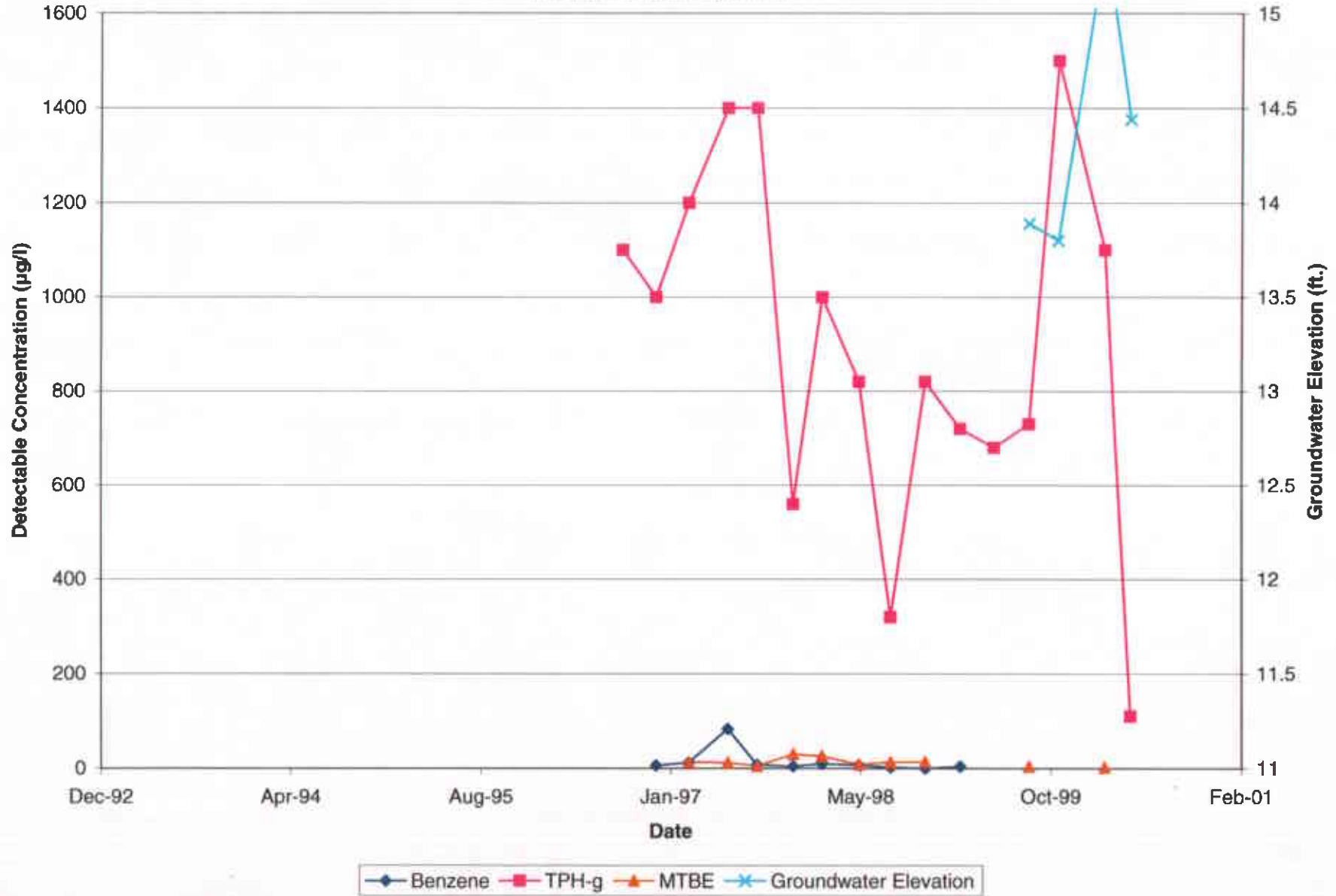
Graph 9, MW-9  
Sears Store No. 1058, 2633 Telegraph Avenue  
Oakland, California

Detectable Hydrocarbon Concentrations and Groundwater Elevation vs. Time



Graph 10, EW-1  
 Sears Store No. 1058, 2633 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: 19991-6  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description:  
MW-1  
Analyzed: 05/14/00  
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
t-Amyl Methyl Ether (TAME)	0.5	ND
t-Butyl Alcohol (TBA)	5.0	ND
Diisopropyl Ether (DIPE)	0.5	ND
Ethyl-t-Butyl Ether (ETBE)	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	1.5
Percent Surrogate Recovery		101

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons (C4-C12)	50.	220.
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: Oxygenates not included in TPH result.

Submitted by,  
ZymaX envirotechnology, inc.

Michael Ng  
Assistant Lab Director

MSD #6  
19991-6.xls  
MN/jgt/mb/hs



REPORT OF ANALYTICAL RESULTS

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

Lab Number: 19991-6  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description:  
MW-1  
Analyzed: 05/10/00  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons	100.	ND
Percent Surrogate Recovery		88

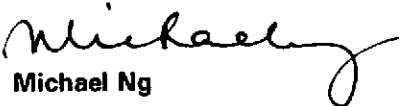
ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

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

- Note: Analyzed by GC/MS Combination.
- Note: Extracted by EPA 3510 on 05/09/00.
- Note: Analytical range is C8-C40.
- Note: TPH quantitated against motor oil.

MSD #3  
19991-6t.xls  
MN/jgt/dz/jt/ws

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: 19991-1  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description:  
MW-2  
Analyzed: 05/15/00  
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
t-Amyl Methyl Ether (TAME)	0.5	ND
t-Butyl Alcohol (TBA)	5.0	ND
Diisopropyl Ether (DIPE)	0.5	ND
Ethyl-t-Butyl Ether (ETBE)	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	0.6
Percent Surrogate Recovery		102

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: Oxygenates not included in TPH result.

FILE

Submitted by,  
ZymaX envirotechnology, inc.

Michael Ng  
Assistant Lab Director

MSD #7  
19991-1.xls  
MN/jgt/mb/pv



REPORT OF ANALYTICAL RESULTS

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

Lab Number: 19991-1  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description:  
MW-2  
Analyzed: 05/09/00  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
TOTAL PETROLEUM HYDROCARBONS		
Total Petroleum Hydrocarbons	100.	ND
Percent Surrogate Recovery		79

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 GC/MS Combination.

Note: Extracted by EPA 3510 on 05/09/00.

Note: Analytical range is C8-C40.

Note: TPH quantitated against motor oil.

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director

MSD #3  
19991-1t.xls  
MN/jgt/dz/jt/ws





REPORT OF ANALYTICAL RESULTS

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

Lab Number: 19991-11  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description:  
MW-3  
Analyzed: 05/15/00  
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
t-Amyl Methyl Ether (TAME)	0.5	ND
t-Butyl Alcohol (TBA)	5.0	ND
Diisopropyl Ether (DIPE)	0.5	ND
Ethyl-t-Butyl Ether (ETBE)	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	2.2
Percent Surrogate Recovery		101

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons (C4-C12)	50.	1100.
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: Oxygenates not included in TPH result.

Submitted by,  
ZymaX envirotechnology, inc.

Michael Ng  
Assistant Lab Director

MSD #7  
19991-11.xls  
MN/jgt/mb/pv



REPORT OF ANALYTICAL RESULTS

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

Lab Number: 19991-11  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description:  
MW-3  
Analyzed: 05/10/00  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
TOTAL PETROLEUM HYDROCARBONS		
Total Petroleum Hydrocarbons (C16-C36)	100.	42000.
Percent Surrogate Recovery		85

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 GC/MS Combination.

Note: Extracted by EPA 3510 on 05/09/00.

Note: Analytical range is C8-C40.

Note: TPH quantitated against motor oil.

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director

MSD #3  
1999111t.xls  
MN/jgt/dz/jt/ws



## REPORT OF ANALYTICAL RESULTS

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

Lab Number: 19991-8  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description:  
MW-4  
Analyzed: 05/15/00  
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
t-Amyl Methyl Ether (TAME)	0.5	ND
t-Butyl Alcohol (TBA)	5.0	ND
Diisopropyl Ether (DIPE)	0.5	ND
Ethyl-t-Butyl Ether (ETBE)	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	2.5
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: Oxygenates not included in TPH result.

Submitted by,  
ZymaX envirotechnology, inc.

Michael Ng  
Assistant Lab Director

MSD #6  
19991-8.xls  
MN/jgt/mb/hs



REPORT OF ANALYTICAL RESULTS

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

Lab Number: 19991-8  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description:  
MW-4  
Analyzed: 05/10/00  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons 100. ND

Percent Surrogate Recovery 84

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 GC/MS Combination.

Note: Extracted by EPA 3510 on 05/09/00.

Note: Analytical range is C8-C40.

Note: TPH quantitated against motor oil.

MSD #3  
19991-8t.xls  
MN/jgt/dz/jt/ws

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: 19991-9  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description:  
DUP  
Analyzed: 05/12/00  
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

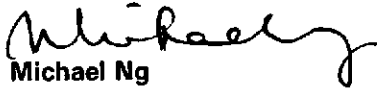
ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*PQL - Practical Quantitation Limit

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

MSD #7  
19991-9.xls  
MN/jgt/mb/st

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: 19991-2  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description:  
MW-5  
Analyzed: 05/14/00  
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
t-Amyl Methyl Ether (TAME)	0.5	ND
t-Butyl Alcohol (TBA)	5.0	ND
Diisopropyl Ether (DIPE)	0.5	ND
Ethyl-t-Butyl Ether (ETBE)	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	2.9
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: Oxygenates not included in TPH result.

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director

MSD #6  
19991-2.xls  
MN/jgt/mb/hs



REPORT OF ANALYTICAL RESULTS

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

Lab Number: 19991-2  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description:  
MW-5  
Analyzed: 05/09/00  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons	100.	ND
Percent Surrogate Recovery		82


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 GC/MS Combination.
- Note: Extracted by EPA 3510 on 05/09/00.
- Note: Analytical range is C8-C40.
- Note: TPH quantitated against motor oil.

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director

MSD #3  
19991-2t.xls  
MN/jgt/dz/jt/ws



REPORT OF ANALYTICAL RESULTS

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

Lab Number: 19991-3  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description:  
MW-6  
Analyzed: 05/14/00  
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
t-Amyl Methyl Ether (TAME)	0.5	ND
t-Butyl Alcohol (TBA)	5.0	ND
Diisopropyl Ether (DIPE)	0.5	ND
Ethyl-t-Butyl Ether (ETBE)	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		106

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: Oxygenates not included in TPH result.

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

MSD #6  
19991-3.xls  
MN/jgt/mb/hs





REPORT OF ANALYTICAL RESULTS

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

Lab Number: 19991-3  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description:  
MW-6  
Analyzed: 05/09/00  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons	100.	ND
Percent Surrogate Recovery		84

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 GC/MS Combination.

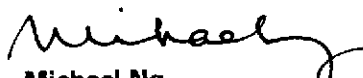
Note: Extracted by EPA 3510 on 05/09/00.

Note: Analytical range is C8-C40.

Note: TPH quantitated against motor oil.

MSD #3  
19991-3t.xls  
MN/jgt/dz/jt/ws

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: 19991-4  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description: MW-7  
Analyzed: 05/14/00  
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
t-Amyl Methyl Ether (TAME)	0.5	ND
t-Butyl Alcohol (TBA)	5.0	ND
Diisopropyl Ether (DIPE)	0.5	ND
Ethyl-t-Butyl Ether (ETBE)	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		102

TOTAL PETROLEUM HYDROCARBONS

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

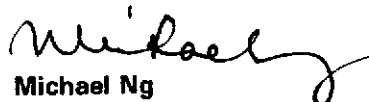
ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717

\*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: Oxygenates not included in TPH result.

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director

MSD #6  
19991-4.xls  
MN/jgt/mb/hs



REPORT OF ANALYTICAL RESULTS

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

Lab Number: 19991-4  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino


Sample Description:  
MW-7  
Analyzed: 05/09/00  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
TOTAL PETROLEUM HYDROCARBONS		
Total Petroleum Hydrocarbons	100.	ND
Percent Surrogate Recovery		72

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 GC/MS Combination.  
Note: Extracted by EPA 3510 on 05/09/00.  
Note: Analytical range is C8-C40.  
Note: TPH quantitated against motor oil.

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director

MSD #3  
19991-4t.xls  
MN/jgt/dz/jt/ws



REPORT OF ANALYTICAL RESULTS

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

Lab Number: 19991-5  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description:  
MW-8  
Analyzed: 05/14/00  
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
t-Amyl Methyl Ether (TAME)	0.5	ND
t-Butyl Alcohol (TBA)	5.0	ND
Diisopropyl Ether (DIPE)	0.5	ND
Ethyl-t-Butyl Ether (ETBE)	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		102

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: Oxygenates not included in TPH result.

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

MSD #6  
19991-5.xls  
MN/jgt/mb/hs



REPORT OF ANALYTICAL RESULTS

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

Lab Number: 19991-5  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description:  
MW-8  
Analyzed: 05/09/00  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
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TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons	100.	ND
Percent Surrogate Recovery		75

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 GC/MS Combination.

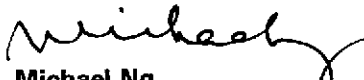
Note: Extracted by EPA 3510 on 05/09/00.

Note: Analytical range is C8-C40.

Note: TPH quantitated against motor oil.

MSD #3  
19991-5t.xls  
MN/jgt/dz/jt/ws

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: 19991-7  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description:  
MW-9  
Analyzed: 05/15/00  
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
t-Amyl Methyl Ether (TAME)	0.5	ND
t-Butyl Alcohol (TBA)	5.0	ND
Diisopropyl Ether (DIPE)	0.5	ND
Ethyl-t-Butyl Ether (ETBE)	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	1.5
Percent Surrogate Recovery		102

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons (C4-C12)	50.	150.
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: Oxygenates not included in TPH result.

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director

MSD #6  
19991-7.xls  
MN/jgt/mb/hs



REPORT OF ANALYTICAL RESULTS

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

Lab Number: 19991-7  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description:  
MW-9  
Analyzed: 05/10/00  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
-------------	--------------	------------------

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons	100.	ND
Percent Surrogate Recovery		69

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 GC/MS Combination.

Note: Extracted by EPA 3510 on 05/09/00.

Note: Analytical range is C8-C40.

Note: TPH quantitated against motor oil.

Submitted by,  
ZymaX envirotechnology, inc.

  
Michael Ng  
Assistant Lab Director

MSD #3  
19991-7t.xls  
MN/jgt/dz/jt/ws



REPORT OF ANALYTICAL RESULTS

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

Lab Number: 19991-10  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description:  
EW-1  
Analyzed: 05/15/00  
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
t-Amyl Methyl Ether (TAME)	0.5	ND
t-Butyl Alcohol (TBA)	5.0	ND
Diisopropyl Ether (DIPE)	0.5	ND
Ethyl-t-Butyl Ether (ETBE)	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		101

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons (C4-C12) 50. 110.  
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: Oxygenates not included in TPH result.

Submitted by,  
ZymaX envirotechnology, inc.

Michael Ng  
Assistant Lab Director

MSD #6  
19991-10.xls  
MN/jgt/mb/hs





REPORT OF ANALYTICAL RESULTS

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

Lab Number: 19991-10  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description:  
EW-1  
Analyzed: 05/10/00  
Method: See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
-------------	--------------	------------------

TOTAL PETROLEUM HYDROCARBONS

Total Petroleum Hydrocarbons (C18-C32)	100.	3100.
Percent Surrogate Recovery		89

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

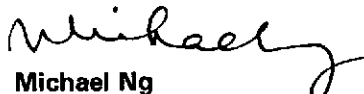
\*PQL - Practical Quantitation Limit

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

- Note: Analyzed by GC/MS Combination.
- Note: Extracted by EPA 3510 on 05/09/00.
- Note: Analytical range is C8-C40.
- Note: TPH quantitated against motor oil.

MSD #3  
1999110t.xls  
MN/jgt/dz/jt/ws

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: 19991-12  
Collected: 05/03/00  
Received: 05/04/00  
Matrix: Aqueous

Project: Sears Telegraph  
Project Number: 803685.03054300  
Collected by: Hector Merino

Sample Description:  
TBLB  
Analyzed: 05/12/00  
Method: EPA 8260

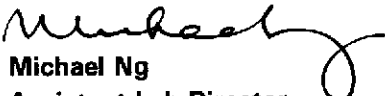
CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Percent Surrogate Recovery		100

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 #7  
19991-12.xls  
MN/jgt/mb/st

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



71 Zaca Lane San Luis Obispo CA 93401 tel 805.544.4696 fax 805.544.8226

**CHAIN of CUSTODY**

report to <b>DAVID BERO</b>	phone <b>975 258-9898</b>	fax <b>(975) 888-0588</b>	ANALYSIS REQUESTED	Turnaround Time ASAP <input type="checkbox"/> 48 hr <input type="checkbox"/> 12 hr <input type="checkbox"/> 72 hr <input type="checkbox"/> 24 hr <input type="checkbox"/> std <input checked="" type="checkbox"/>
company <b>IT CORP</b>	project <b>SEARS Heliograph</b>	project # <b>803685, C3094300</b>		
address <b>4005 Portchicargo Hwy Concord ca. 94520</b>	sampler <b>Hector Merino</b>			

ZymaX use only	SAMPLE DESCRIPTION	Date Sampled	Time	Matrix	Preserve	MTBE/TAME/PIPE ETBE/IBAL/EA/STO	Bto x 1/100 (scabbers)	TRAIL (50)	Bto x 1/100 (50)	# of containers	Remarks
1999-1	MW-2	5/3	8:20	GW	Hcl	X	X	X		1	MTBE
-2	MW-5	5/3	8:40	GW	Hcl	X	X	X		1	Do not touch
-3	MW-6	5/3	9:10	GW	Hcl	X	X	X		1	IN 520 Area
-4	MW-7	5/3	9:25	GW	Hcl	X	X	X		1	CONFIRMATE BY 5260
-5	MW-8	5/3	10:00	GW	Hcl	X	X	X		3	Please Review
-6	MW-1	5/3	10:30	GW	Hcl	X	X	X		3	Needed
-7	MW-9	5/3	10:56	GW	Hcl	X	X	X		3	
-8	MW-4	5/3	11:15	GW	Hcl	X	X	X		3	
-9	DUP	5/3	11:15	GW	Hcl				X	1	
-10	EW-1	5/3	12:10	GW	Hcl	X	X	X			
-11	MW3	5/3	12:28	GW	Hcl	X	X	X		X	

Comments - 12 TBLB	Relinquished by: <u>DE Hcl</u>	Received by: <u>[Signature]</u>
	Signature: <u>[Signature]</u> Print: <u>Hector Merino</u> Company: <u>IT Corp</u> Date: <u>5/3/00</u> Time: _____	Signature: <u>[Signature]</u> Print: <u>FRANK M...</u> Company: <u>ZymaX</u> Date: <u>5-7-00</u> Time: <u>11</u>

<b>Sample integrity upon receipt:</b> Samples received intact <input type="checkbox"/> Samples received cold <input type="checkbox"/> Custody seals <input type="checkbox"/> Correct container types <input type="checkbox"/>	<b>Bill 3rd Party:</b>  PO# _____ Quote yes no	<b>Relinquished by:</b> Signature _____ Print _____ Company _____ Date _____ Time _____	<b>Received by ZymaX envirotechnology inc:</b> Signature _____ Print _____ Company _____ Date _____ Time _____
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**Attachment 6**

**Interim Remedial Action Progress Report**



**IT Corporation**

757 Arnold Drive, Suite D  
Martinez, CA 94553-6526  
Tel. 925.370.3990  
Fax. 925.370.3991

*A Member of The IT Group*

September 1, 1999

Mr. Amir K Gholami, REHS  
Hazardous Materials Specialist  
Alameda County Health Care Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

Subject: Interim Remedial Action Progress Report  
Former Sears Store No. 1058  
2600 Telegraph Avenue, Oakland, CA 94612  
IT Corporation Project 782807

Dear Mr. Gholami:

IT Corporation, on behalf of Sears, Roebuck and Co. (Sears), presents the following Interim Remedial Action Progress Report for the former Sears Store No. 1058 located at 2600 Telegraph Avenue, Oakland, California. The purpose of the field activities was to collect shallow groundwater recharge data from on-site monitoring well MW-3 following removal of both groundwater and separate-phase hydrocarbons (SPH) from the well. The object of the data collection was to evaluate the most effective frequency for optimum SPH extraction from MW-3. The interim remedial action described herein was conducted at the site between May 11, and June 25, 1999.

On May 11, 1999, an IT Corporation technician gauged and recorded the depth to SPH and depth to groundwater in monitoring well MW-3 using an ORS Interface Probe™ (IP) Well Monitoring System. Liquid levels were recorded to the closest hundredth of a foot on a field form. No SPH thickness was recorded for MW-3 during this well measurement activity, although a "heavy sheen" and "strong odor" were observed and recorded. Approximately 15 gallons of water was then manually bailed from the well using a clean disposable bailer. The well recovery rate was recorded periodically on a field form. The depth to groundwater in monitoring well MW-3 was recorded again on May 12, 1999.

On June 2, 1999, an IT Corporation technician again gauged and recorded the depths to SPH and groundwater in monitoring well MW-3 following the same methodology as described above. Approximately 0.02 foot of SPH was measured in the well. Approximately 25 gallons of water was then hand bailed from the well using a disposable bailer. Due to a rapid well recharge rate, the well could not be hand bailed dry. Therefore, approximately 35 gallons of additional water was removed from the well using a down well pump. The well recovery rate was then recorded on a field form. The last depth to groundwater measurement was recorded approximately 6 hours after the bailing activity began.

On June 10, 1999, an IT Corporation technician again gauged and recorded the depths to SPH and groundwater in monitoring well MW-3 following the same methodology. There was no SPH thickness

recorded for MW-3 during this well measurement, although a "sheen" was observed and recorded on the field form. Approximately 17 gallons of water was then hand bailed from the well using a disposable bailer. The well recovery rate was recorded on a field form. The last depth to groundwater measurement was recorded approximately 6 hours after the bailing activity began.

On June 25, 1999, an IT Corporation technician again gauged and recorded the depths to SPH and groundwater in monitoring well MW-3 following the same methodology. Approximately 0.01 foot of SPH was measured in the well. Approximately 15 gallons of water was then hand bailed from the well using a disposable bailer. The well recovery rate was recorded on a field form. The last depth to groundwater measurement was recorded on June 28, 1999.

Copies of the field forms showing the recorded field data are presented in attachment 1. A summary of the field data is presented in Table 1. Bailed SPH, groundwater, and other waste materials from the four well bailing events are stored in 55-gallon drums on site. The stored SPH, groundwater, and other waste materials will be removed from the site by a licensed Sears contractor.

TABLE 1

Date	Static Depth to Product (feet)	Static Depth to Water (feet)	Product Thickness (feet)	Volume of Water and Product Bailed (Gallons)	Comments
May 11, 1999	12.52	12.52	sheen	15	Product sheen and strong odor observed. Rapid well recharge.
June 2, 1999	12.63	12.65	0.02	60	Rapid well recharge.
June 10, 1999	12.68	12.68	sheen	17	Product sheen observed. Rapid well recharge.
June 25, 1999	12.75	12.74	0.01	15	Rapid well recharge.

#### Bailing Data for Monitoring Well MW-3

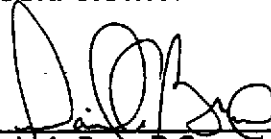
To evaluate recharge rates, IT Corporation plotted the liquid levels in monitoring well MW-3 as a function of time during each bailing event. These data, which are presented in attachment 1 together with the recorded field data for each bailing event, indicate a rapid recharge rate for MW-3. The minimal amount of product thickness and recharge, as shown in Table 1, indicates that a small amount of SPH is associated with MW-3. Based on these data, IT Corporation recommends utilizing a vacuum truck to remove additional SPH and groundwater from MW-3 during four (4) weekly site visits, each consisting of a half-hour period of high-vacuum fluid extraction to determine if a measurable thickness of SPH recharges into well MW-3. If a measurable thickness of SPH is not found in the well during two consecutive quarterly monitoring and sampling events, low-risk classification and closure/no further action status will be requested for the site. However, alternative remediation methods will be recommended if a measurable thickness of SPH is recorded in MW-3 during the two consecutive quarters following the high-volume fluid extraction events.

If you have any questions or comments, please call Melissa Gossell at (925) 370-3990, extension 266.

Sincerely,  
IT CORPORATION

  
\_\_\_\_\_  
Melissa Gossell  
West Zone Project Manager

IT CORPORATION

  
\_\_\_\_\_  
David A. Bero, P.G.  
Senior Geologist

Attachment 1

1. Field Data

c: Scott DeMuth, Sears, Roebuck and Co.  
Russ Zora, Central Files, Lenexa, KS  
Project Files

Project Name: Sears / #1058/Oakland, CA  
 Site Address: 2633 Telegraph Ave., Oakland  
 Project Number: 1176603.03054300

Date: 5-11-99  
 Page 7 of 7  
 Project Manager: Melissa Gossell

Well ID: MW3  
 Well Diameter: 2

DTW Measurements: Initial: 12.52 @ 10:35 Calc Well Volume: \_\_\_\_\_ gal  
 Recharge: 12.70 Well Volume: \_\_\_\_\_ gal  
 DTB: \_\_\_\_\_

Purge Method: Peristaltic \_\_\_\_\_ Gear Drive \_\_\_\_\_ Submersible \_\_\_\_\_  
 Pump Depth: \_\_\_\_\_ ft. Hand Bailed K Stainless steel YSI: X Other: \_\_\_\_\_  
 Air Lift \_\_\_\_\_ Hydac: \_\_\_\_\_  
 Other: \_\_\_\_\_ Omega: \_\_\_\_\_

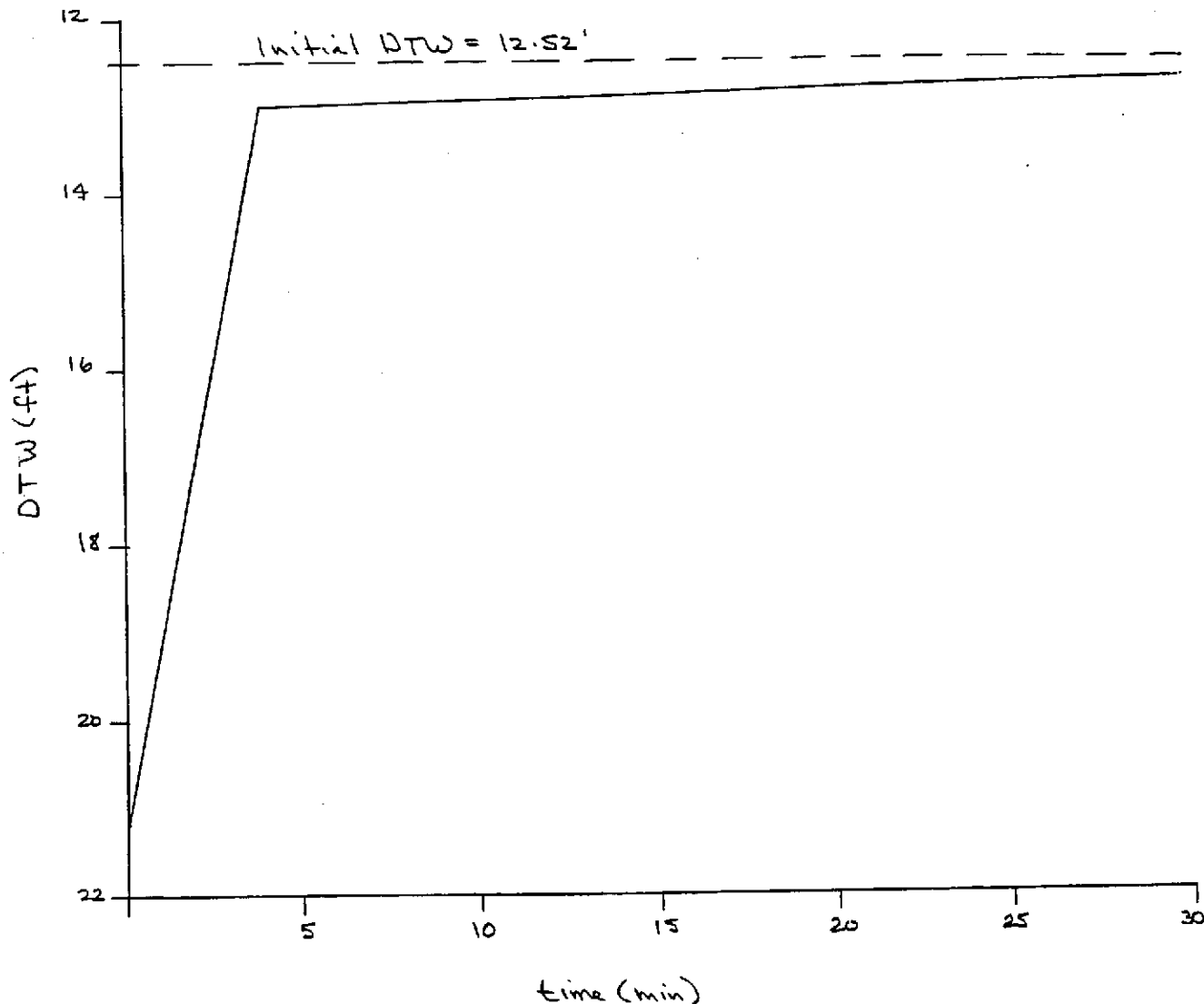
Time	Temp <u>X</u> C _____ F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
10:46	19.8	0.78	6.70	5		NO PRODUCT ON BOTTOM OF WELL Heavy Shale, DARK GREY SAND OK.
10:56	19.6	0.75	6.69	10		
11:06	19.7	0.75	6.70	15		↓ DRYING @ 15 GALLONS Recharging quickly 11:10 (13.00) DTW
						13:35 (12.70) DTW
						5/12/99 12.55 (DTW) 9:05 AM





PROJECT Sears Oakland site # 1058 PROJECT NUMBER \_\_\_\_\_  
SUBJECT Well Recharge - MW-3 BY \_\_\_\_\_ DATE \_\_\_\_\_  
PAGE \_\_\_\_\_ OF \_\_\_\_\_  
CHECKED BY \_\_\_\_\_ DATE 5-11-99

Initial DTW = 12.52'  
DTP = 12.52'  
PT = Sheen (strong odor)





PROJECT SEARS OAKLAND #1058

PROJECT NUMBER 78280704060700

SUBJECT MW-3 BAIL

BY \_\_\_\_\_ DATE 6/2/99

CHECKED BY Hector Merino

PAGE \_\_\_\_\_ OF \_\_\_\_\_  
DATE ARRIVE @ 9:09 DEPART @ 10:50

DTW = 12.65 DTP = 12.63 PT = 0.02 @ 9:15 AM

STICKY PRODUCT ON PROBE, TOTAL DTB = 24.67  
STICKY PRODUCT ON OUTSIDE OF DISPOSABLE BAILER  
NO PRODUCT ON BOTTOM OF WELL.

START BAILING @ 9:20 AM

WELL NOT DRY AFTER 25 GAL, @ 9:45 AM

USED 2" PUMP @ FULL SPEED DRY @ <sup>(9:50)</sup> 35 GAL DTW 21.20

WATER IS DRK GREY, SHEEN, ODOR

ME DTW

0	21.20
05	14.50
00	13.20
05	13.05
10	12.96
15	12.93
20	12.90

TURN @ 15:20 pm on 6/2/99 DTW @ 15:30 = 12.72

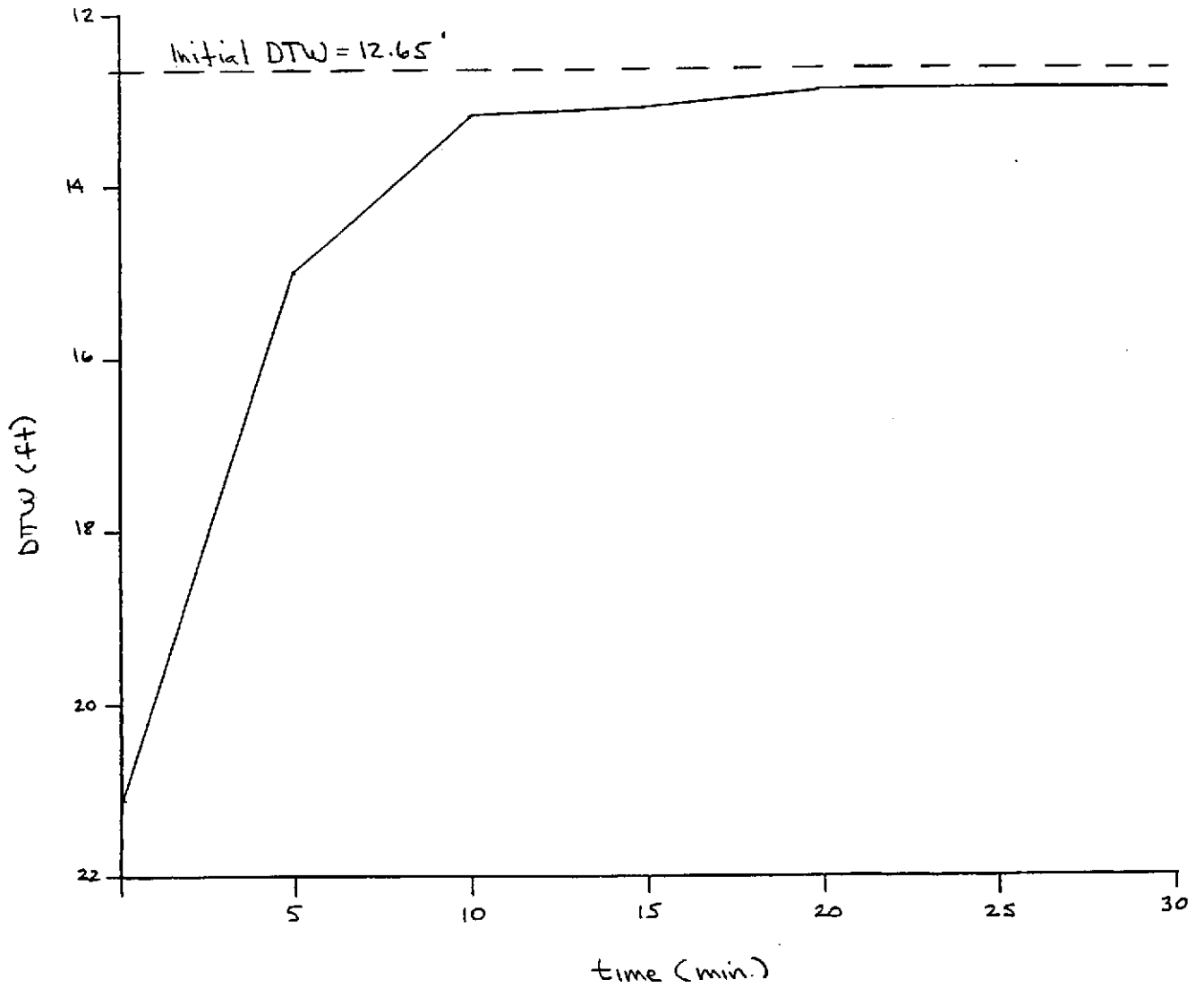


PROJECT Sears Oakland Site # 1058 PROJECT NUMBER \_\_\_\_\_

SUBJECT Well Recharge - MW-3 BY \_\_\_\_\_ DATE \_\_\_\_\_

CHECKED BY \_\_\_\_\_ PAGE \_\_\_\_\_ OF \_\_\_\_\_  
DATE 6.2.99

Initial DTW = 12.65'  
DTP = 12.63'  
PT = 0.02'



Project Name: SEARS, OAKLAND #1058

Date: 6-10-99

Site Address: \_\_\_\_\_

Page 1 of 1

Project Number: 782807.04060700

Project Manager: Melissa Grace

Well ID: MW-3

DTW Measurements: Initial: 12.68 Calc Well Volume: \_\_\_\_\_ gal

Well Diameter: 2"

Recharge: \_\_\_\_\_ Well Volume: \_\_\_\_\_ gal  
DTB: 24.67

Purge Method \_\_\_\_\_ Pump Depth \_\_\_\_\_ ft. Instruments Used \_\_\_\_\_

Peristaltic \_\_\_\_\_ Hand Bailed \_\_\_\_\_ YSI: \_\_\_\_\_ Other: \_\_\_\_\_

Gear Drive \_\_\_\_\_ Air Lift \_\_\_\_\_ Hydac: \_\_\_\_\_

Submersible 2" Other \_\_\_\_\_ Omega: \_\_\_\_\_

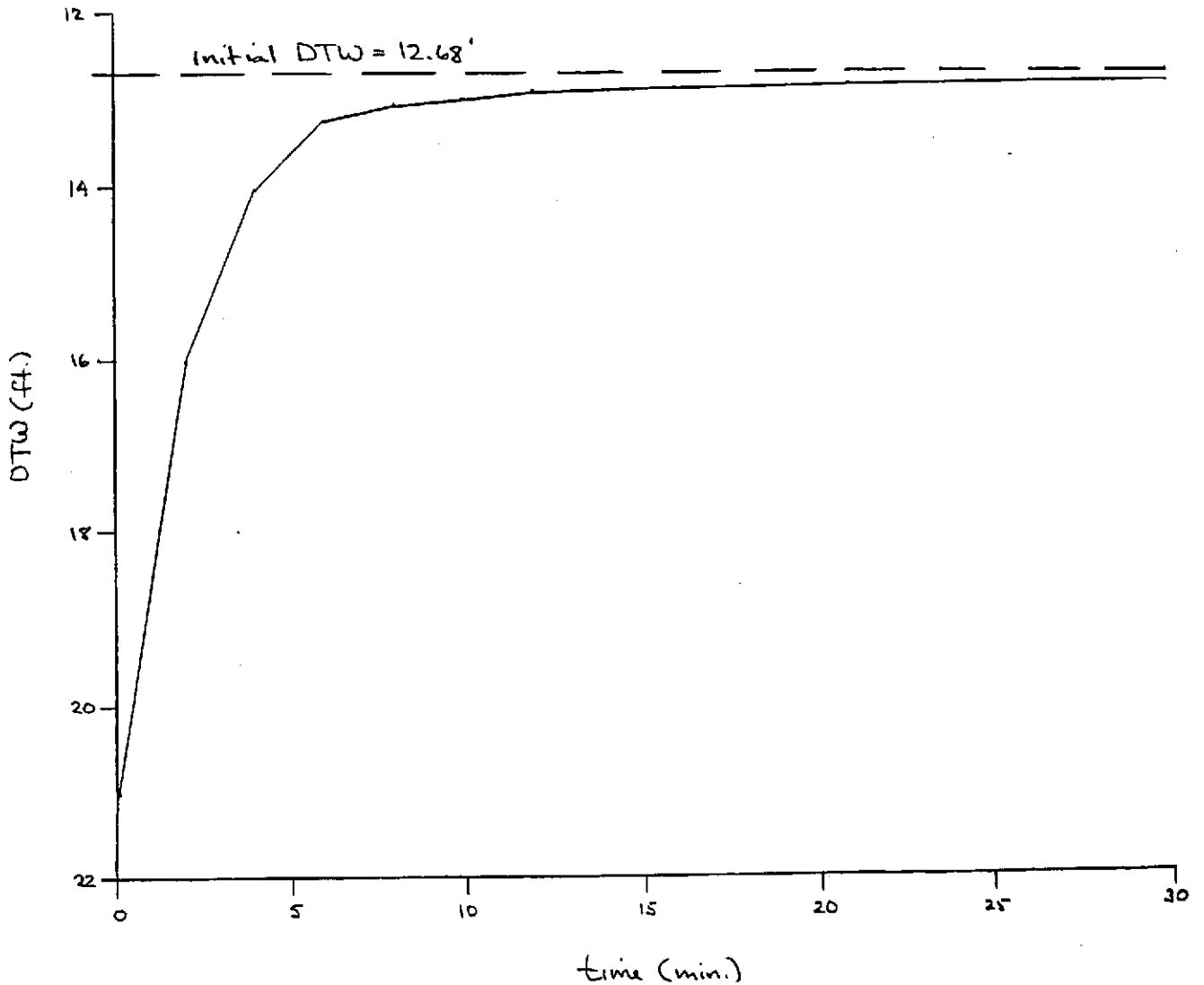
Time	Temp C F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
1035	19.6	1.82	6.84	5	CLOUDY	WATER IS GRAY W/ SHEEN ON SURFACE
1037	16.6	0.44	7.17	12	CLOUDY	
						DRY @ 17'
<u>TIME</u>	<u>DTW RECOVER</u>	<u>TIME</u>	<u>DTW</u>			<u>DTW RECOVER</u>
1042	21.06	1113	12.83			21.06
1044	16.01	1118	12.81			16.01
1046	14.86	1632	12.69			14.86
1048	13.27					13.27
1050	13.10					13.10
1052	13.03					13.03
1054	12.98					12.98
1056	12.94					12.94
1058	12.92					12.92
1103	12.89					12.89
1108	12.85					12.85

NO PRODUCT DETECTED w/ I.P. OR BAILER HOWEVER A SHEEN WAS SEEN.



PROJECT Sears Oakland Site # 1058 PROJECT NUMBER \_\_\_\_\_  
SUBJECT Well recharge - MW-3 BY \_\_\_\_\_ DATE \_\_\_\_\_  
PAGE \_\_\_\_\_ OF \_\_\_\_\_  
CHECKED BY \_\_\_\_\_ DATE 6-10-99

Initial DTW = 12.68'  
DTP = ~~shen~~ @ 12.68'





PROJECT SEARS/TELEGRAPH #1058  
 SUBJECT MW-3

PROJECT NUMBER 782807.0406070C  
 BY \_\_\_\_\_ DATE \_\_\_\_\_

CHECKED BY A Merino

PAGE \_\_\_\_\_ OF \_\_\_\_\_  
 DATE 6/25/99

DTW	<b>DTB</b>	PT	TIME	Arrive	Depart
12.75	12.74	.01	9:40am	9:30am	11:30am

DROPEd STAINLESS STEEL BAILER TO BOTTOM OF WELL, NO PRODUCT DETECTED  
 USED DISPOSABLE BAILER TO CONFIRM .01 PRODUCT, <sup>BROWN</sup> ~~black~~ sticky PRODUCT STUCK TO OUTSIDE OF BAILER, PUT SMALL AMOUNT W/ 40ML VOA FOR INSPECTION.  
 USED 2" PUMP TO EVACUATE WELL.

START PUMPING @ 10:15am DRY @ 10:20 AM 15 GALLONS

TIME	DTW
10:20	20.15
10:30	13.32
10:40	13.00
10:50	12.92
11:00	12.88
11:10	12.89

6-28-99

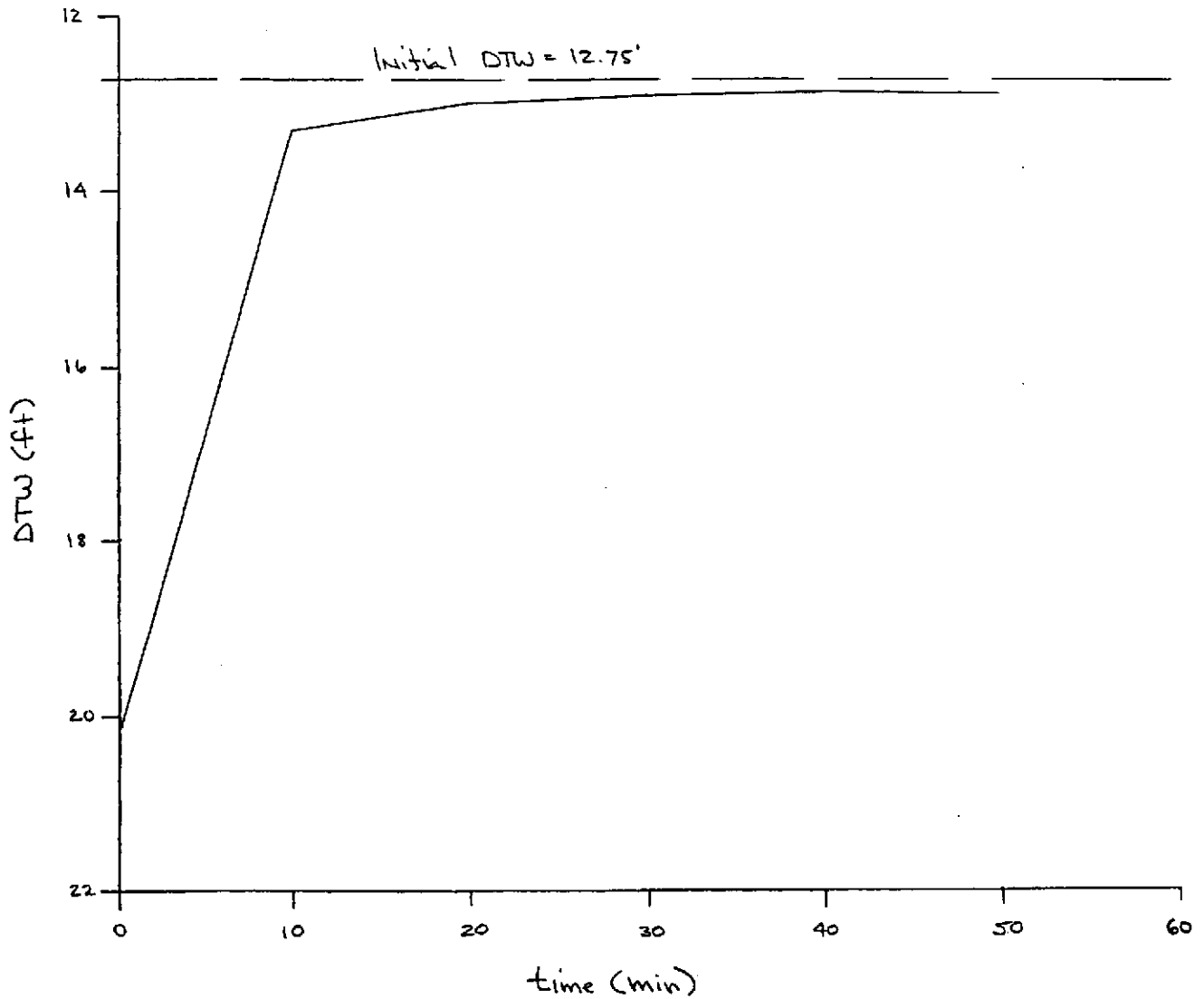
DTW	DTP	PT	TIME
12.75	—	—	14:25pm

NO FREE PRODUCT detected, small amount on tip of probe.



PROJECT Sears Oakland Site # 1058 PROJECT NUMBER \_\_\_\_\_  
SUBJECT Well Recharge - MW-3 BY \_\_\_\_\_ DATE \_\_\_\_\_  
PAGE \_\_\_\_\_ OF \_\_\_\_\_  
CHECKED BY \_\_\_\_\_ DATE 6.25.99

Initial DTW = 12.75'  
DTP = 12.74'  
PT = 0.01'



Note: On 6.28.99, no product detected in well