



FLUOR DANIEL GTI

R0480

ENVIRONMENTAL
PROTECTION
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April 15, 1997

Mr. Dale Klettke, CHMM
Hazardous Materials Specialist
Alameda County, Health Care Services Agency
Environmental Health Services Dept.
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

SUBJECT: Quarterly Groundwater Monitoring and Sampling Report
Former Sears Store 1058
2633 Telegraph Avenue, Oakland, California
Fluor Daniel GTI Project 020200282

Dear Mr. Klettke:

On behalf of Sears, Roebuck and Co., Fluor Daniel GTI, Inc. presents the quarterly monitoring and sampling data collected on February 26, 1997, from the site referenced above. The ten groundwater monitoring wells were gauged to determine depth to groundwater and to check for the presence of separate-phase petroleum hydrocarbons in accordance with correspondence from the Alameda Health Care Services Agency dated May 1, 1996. A very thin layer of separate-phase hydrocarbons was detected in monitoring well MW-3 which is consistent with past measurements. Because only 0.01 foot of separate-phase hydrocarbons was detected in well MW-3, bailing of the product was not feasible during this site visit (attachment 1, figure 1). A summary of groundwater monitoring data is presented in attachment 2, table 1.

After measuring depth to water, all monitoring wells except MW-3 were purged and sampled. Groundwater monitoring and sample collection protocol, and field data sheets are presented in attachment 3. The groundwater samples were analyzed for total petroleum hydrocarbons (TPH)-as-motor oil by modified EPA method 8015 (GC/FID) for benzene, toluene, ethyl-benzene, xylenes (BTEX) methyl tert-butyl ether (MTBE) and for TPH-as-gasoline by EPA methods 8020/modified 8015. A summary of the groundwater analytical results is presented in table 2. A distribution map of dissolved benzene, TPH-as-gasoline and TPH-as-motor-oil concentrations is presented as figure 2. Laboratory reports and chain-of-custody records are included in attachment 4.

If you have any comments or questions, please contact me at (510) 370-3990.

Sincerely,
Fluor Daniel GTI, Inc.

Eileen Brennan, RG
West Zone Project Manager

Attachments

c: Scott M. DeMuth - Sears, Roebuck and Co.

ATTACHMENT 1

Figures

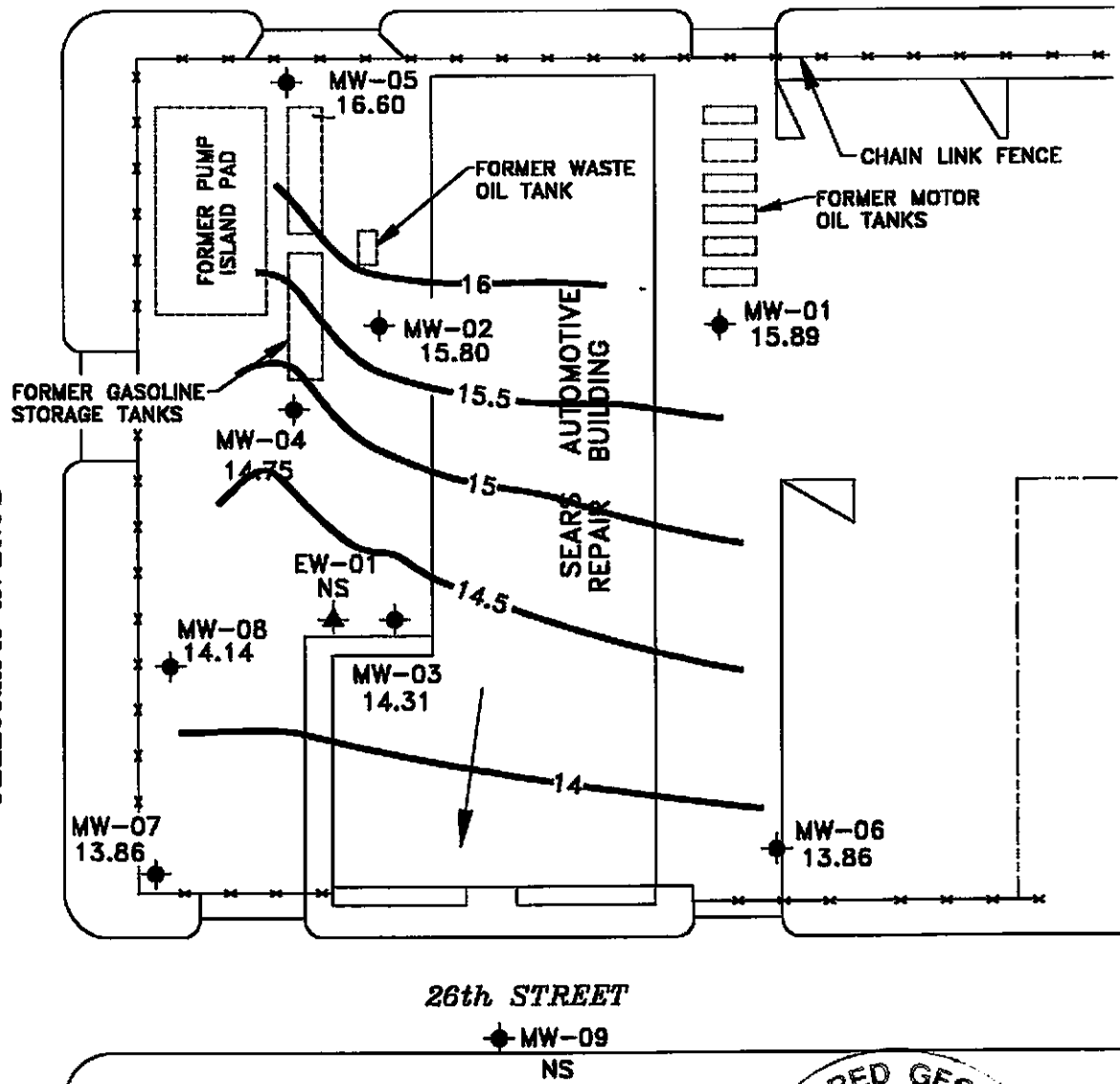
1. **Potentiometric Surface Map (02/26/97)**
2. **Concentrations of Benzene, TPH-as-Gasoline and TPH-as-Motor Oil in Groundwater (02/26/97)**



27th STREET

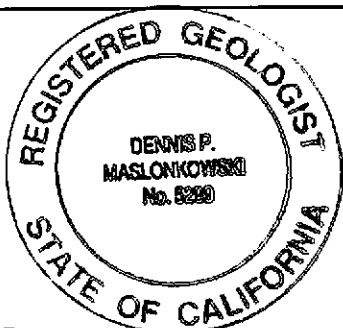
TELEGRAPH AVENUE

26th STREET



LEGEND

- MONITORING WELL
- EXTRACTION WELL
- X.XX** POTENTIOMETRIC SURFACE ELEVATION (FT)
- NS** NOT SURVEYED
- SPH** SEPARATE-PHASE HYDROCARBONS
- POTENTIOMETRIC SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION



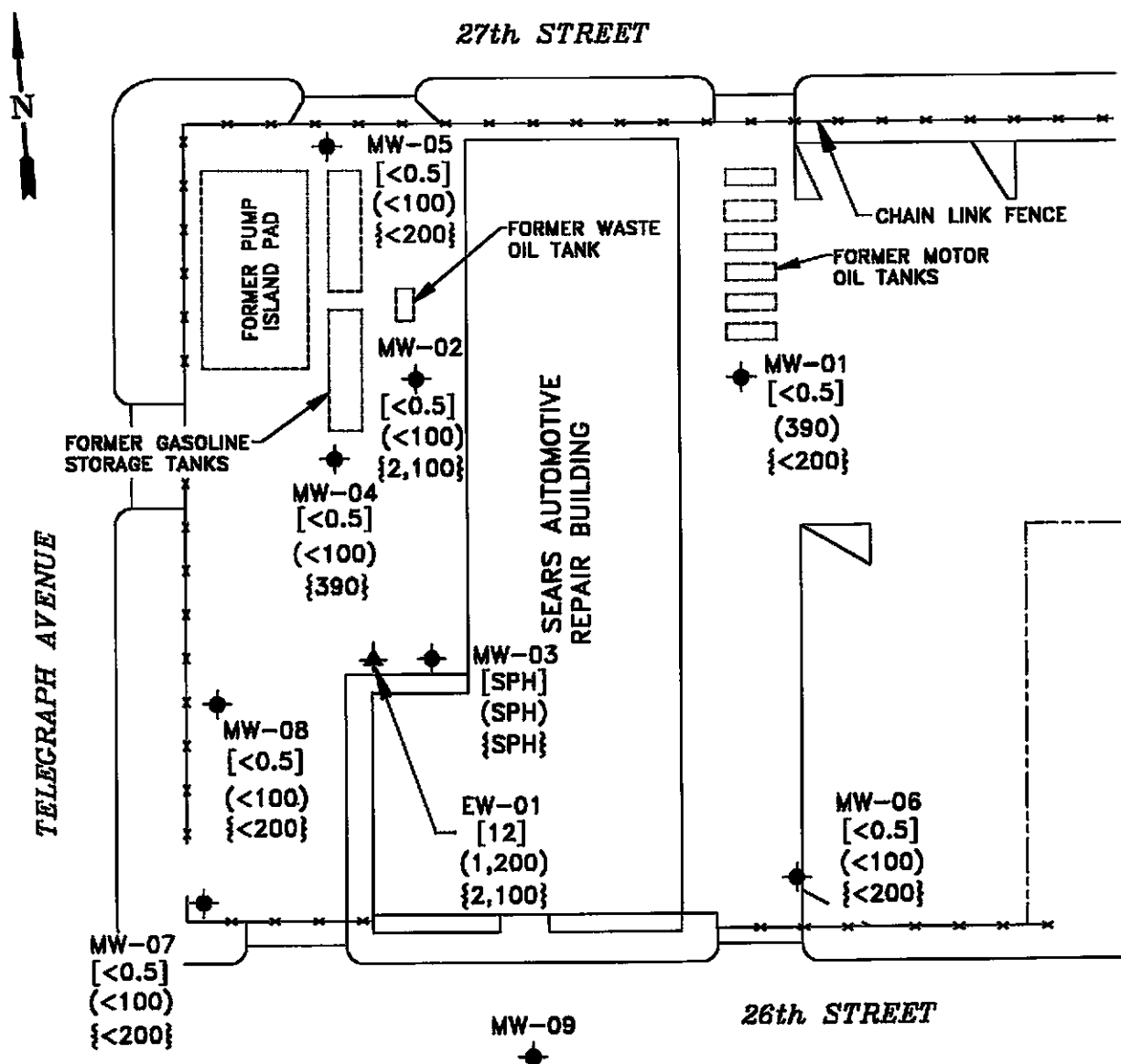
NOTE:
1. CONTOURS REPRESENT APPROXIMATE ELEVATIONS ABOVE MEAN SEA LEVEL.

FLUOR DANIEL QTI



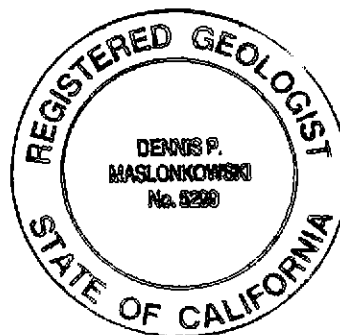
POTENTIOMETRIC SURFACE MAP (2/26/97)

CLIENT: SEARS, ROEBUCK AND CO. SITE NO. 1058	FILE: S996PSM, (1:40)	PROJECT NO.: 020200282	PM	PE/RG
	REV.	FIGURE: 1		
LOCATION: 2633 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	DES. SS	DET. SS	DATE: 3/28/97	



LEGEND

- ◆ MONITORING WELL
- ▲ EXTRACTION WELL
- SPH SEPARATE-PHASE HYDROCARBONS
- NS NOT SAMPLED
- [] BENZENE CONCENTRATIONS [$\mu\text{g/l}$]
- () TPH-AS-GASOLINE ($\mu\text{g/l}$)
- { } TPH-AS-MOTOR OIL { $\mu\text{g/l}$ }



FLUOR DANIEL GTI



CONCENTRATIONS OF BENZENE, TPH-AS GASOLINE & TPH-AS-MOTOR OIL IN GROUNDWATER (2/26/97)

CLIENT: SEARS, ROEBUCK AND CO. SITE NO. 1058	FILE: BEN996	PROJECT NO.: 020200282	PM	PE/RG
	REV.		FIGURE: 2	
LOCATION: 2633 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	DES. SS	DET. SS	DATE: 3/28/97	

ATTACHMENT 2

Tables

1. **Summary of Historical Groundwater Monitoring Data**
2. **Summary of Historical Groundwater Sample Analyses**

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 Elev.	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elev.	
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	--	--	14.51	
		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		

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 Elev.	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elev.
MW-2	26.50	12/30/92	10.85	--	--	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	--	--	15.56		
05/10/96	11.13	--	--	15.37		
06/03/96	10.94	--	--	15.56		
09/04/96	11.24	--	--	15.26		
12/02/96	10.80	--	--	15.70		
02/26/97	10.70	--	--	15.80		

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 Elev.	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elev.
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	13.36
		10/22/93	NM	12.96	NA	NA
		11/03/93	13.13	13.02	0.11	13.30
		11/24/93	12.94	12.92	0.02	13.42
		12/01/93	12.71	12.69	0.02	13.65
		12/27/93	12.77	12.73	0.04	13.60
		01/05/94	12.85	12.83	0.02	13.51
		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	13.51
		07/28/94	12.93	12.89	0.04	13.44
		08/31/94	13.04	13.01	0.03	13.32
		09/27/94	13.13	13.02	0.11	13.30
		10/28/94	13.30	13.08	0.22	13.22
		11/15/94	11.05	11.02	0.03	15.31
		12/01/94	11.90	11.88	0.02	14.46
		01/04/95	11.80	11.76	0.01	14.55
		02/01/95	12.00	11.98	0.02	14.36
		03/08/95	12.35	12.30	0.05	14.03
		04/03/95	12.09	12.05	0.04	14.28
		05/18/95	12.43	12.40	0.03	13.93
		06/09/95	12.60	12.58	0.02	13.76
		07/13/95	12.55	12.46	0.09	13.87
		08/03/95	12.64	12.61	0.03	13.73
		08/29/95	12.65	12.62	0.03	13.71
		09/15/95	13.00	12.86	0.14	13.45
		10/20/95	12.86	12.03	0.03	13.50
		11/15/95	12.81	12.74	0.07	13.59
		01/15/96	12.60	12.47	0.13	13.84
		03/05/96	11.88	11.64	0.04	14.69
04/19/96	12.36	12.34	0.02	14.00		
05/10/96	11.93	11.91	0.02	14.43		
06/03/96	12.93	12.50	0.43	13.75		
09/04/96	12.60	12.55	0.05	13.79		
12/02/96	12.11	12.00	0.03	14.25		
02/26/97	12.03	12.02	0.01	14.32		

* Corrected elevations. Review of calculations indicated that these elevations were incorrect in past reports.

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 Elev.	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elev.
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	--	--	14.99
		12/27/93	11.80	--	--	14.97
		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	--	--	14.20
		07/28/94	11.97	--	--	14.27
		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
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	--	--	14.46		
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		

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 Elev.	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elev.
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	--	--	15.60
		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
		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	--	--	16.40		
06/03/96	10.46	--	--	16.52		
09/04/96	10.86	--	--	16.12		
12/02/96	10.45	--	--	16.53		
02/26/96	10.38	--	--	16.60		

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 Elev.	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elev.
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
		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		

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 Elev.	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elev.
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	--	--	26.79
		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
		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		

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 Elev.	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elev.
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		
MW-9	N/A	12/02/96	11.52	--	--	N/A
		02/26/96	11.55	--	--	N/A
EW-1	N/A	12/02/96	12.17	--	--	N/A
		02/26/96	12.13	--	--	N/A

Notes: "--" indicates no datum for the cell, including "product not detected"

NM = Not monitored

NA = Not Available

TABLE 2
Summary of Historical Groundwater Sample Analyses
 (All results expressed in parts per billion)

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	0.3	10	--	--	1	--	--
	06/21/93	<0.3	1	2	6	--	**<100	--	--	--
	09/16/93	<0.3	0.7	<0.3	7	--	**<100	--	--	--
	12/01/93	0.4	1	2	7	--	--	--	--	--
	12/30/93	--	--	--	--	--	<100	--	--	--
	03/09/94	<0.3	<0.3	1	4.2	--	<100	--	--	--
	06/30/94	0.6	0.7	2.4	15	--	<100	--	--	--
	09/27/94	0.9	0.5	1.4	10	--	*<250	--	--	--
	12/01/94	0.4	0.4	<0.3	6.6	--	*<250	--	--	--
	03/08/95	<0.3	0.6	<0.3	2.7	--	*<250	--	--	--
	06/09/95	<0.3	1.4	4.7	5.6	--	*<250	--	--	--
	08/29/95	0.3	0.9	3.9	2.8	--	*<250	--	--	--
	11/15/95	<0.5	<0.5	<0.5	27	--	*<200	--	--	--
	03/05/96	<0.5	<1.0	<1.0	<2.0	--	*<200	--	--	--
	06/03/96	<0.5	<1.0	<1.0	3.4	340	*<200	--	--	--
	09/04/96	<0.5	<1.0	3.7	<2.0	390	310	--	--	<10
12/02/96	<0.5	<1.0	<1.0	2.7	400	<200	--	--	10	
02/26/97	<0.5	<1.0	<1.0	4.5	390	<200	--	--	<10	
MW-2	12/30/92	0.7	<0.3	<0.3	3	190	--	1	*ND	--
	03/24/93	0.6	<0.3	<0.3	2	120	--	<1	*ND	--
	06/21/93	0.3	<0.3	<0.3	0.7	82	**<100	--	*ND	--
	09/16/93	<0.3	<0.3	<0.3	<0.5	28	**<100	--	*ND	--
	12/01/93	<0.3	<0.3	<0.3	1	68	--	--	*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	*<250	--	*15	--
	12/01/94	<0.3	<0.3	<0.3	<0.5	54	*1,300	--	*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	--	*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	--	--	<10
12/02/96	<0.5	<1.0	<1.0	<2.0	<100	2,200	--	--	<10	
02/26/97	<0.5	<1.0	<1.0	<2.0	<100	2,100	--	--	<10	
MW-3	12/30/92	11	0.9	<0.3	2	910	SPH	20	*ND	--
	03/24/93	28	0.7	1	8	3,300	SPH	28	**15	--
	06/21/93	21	5	2	19	**2,600	32,000	26	*45	--
	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	**5,700	**63	*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	<10
	12/02/96	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH
02/26/97	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	SPH	

TABLE 2
Summary of Historical Groundwater Sample Analyses
 (All results expressed in parts per billion)

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	12/30/92	2	<0.3	1	<0.5	1,200	--	<1	*ND	--
	03/24/93	<0.3	<0.3	<0.3	<0.5	750	--	2	**7	--
	06/21/93	<0.3	2	<0.3	0.5	660	19,000	--	*ND	--
	09/16/93	0.3	<0.3	2	3	410	2,500	--	*ND	--
	12/01/93	<0.3	<0.3	<0.3	<0.5	150	390	--	*ND	--
	03/09/94	0.7	0.8	2	3.6	1,500	780	--	*ND	--
	06/30/94	<0.3	1.7	0.5	1.0	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	--	*<5	--
	03/08/95	<0.3	<0.3	<0.3	<0.5	360	1,000	--	*<5	--
	06/09/95	<0.3	0.4	<0.3	<0.5	64	1,100	--	*<5	--
	08/29/95	<0.3	<0.3	<0.3	<0.5	<50	1,200	--	*<5	--
	11/15/95	<0.5	<0.5	<0.5	<0.5	<50	2,100	--	*ND	--
	03/05/96	<0.5	<1.0	<1.0	<2.0	<100	590	--	*ND	--
	06/03/96	<0.5	<1.0	<1.0	<2.0	<100	860	--	ND	--
	09/04/96	<0.5	<1.0	<1.0	<2.0	<100	600	--	-	<10
	12/02/96	<0.5	<1.0	<1.0	<2.0	<100	940	--	-	<10
02/26/97	<0.5	<1.0	<1.0	<2.0	<100	390	--	-	<10	
MW-5	12/30/92	<0.3	<0.3	<0.3	<0.5	37	--	<1	*5	--
	03/24/93	<0.3	<0.3	<0.3	0.5	19	--	2	*341	--
	06/21/93	<0.3	<0.3	<0.3	<0.5	<10	<100	--	*ND	--
	09/16/93	0.3	<0.3	<0.3	1	<10	<100	--	*ND	--
	12/01/93	<0.3	<0.3	<0.3	1	17	--	--	*ND	--
	12/30/93	--	--	--	--	--	<100	--	-	--
	03/09/94	<0.3	<0.3	<0.3	<0.5	22	<100	--	*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	--	*7	--
	08/29/95	<0.3	<0.3	<0.3	<0.5	<50	<250	--	*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	--
	09/04/96	<0.5	<1.0	<1.0	<2.0	<100	310	--	-	<10
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	--	ND	<10	
MW-6	12/27/93	<0.3	<0.3	<0.3	<0.5	<10	<100	<1	*70	--
	03/09/94	<0.3	<0.3	<0.3	<0.5	15	<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	<250	--	*8	--
	12/01/94	<0.3	<0.3	<0.3	<0.5	<10	<250	--	*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	--	*24	--
	11/15/95	<0.5	<0.5	<0.5	<0.5	<50	<200	--	*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	--
	09/04/96	<0.5	<1.0	<1.0	<2.0	<100	230	--	-	<10
	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	<10	

TABLE 2
Summary of Historical Groundwater Sample Analyses
 (All results expressed in parts per billion)

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-7	12/27/93	<0.3	<0.3	1	2	140	<100	<1	*40	--
	03/09/94	<0.3	<1.0	1.5	4.1<	620	<100	--	*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	*<250	--	ND	--
	12/01/94	<0.3	<0.3	<0.3	1.1	<10	*<250	--	*28	--
	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	--	*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	--
	09/04/96	<0.5	<1.0	<1.0	<2.0	<100	310	--	--	<10
	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	<10	
MW-8	12/27/93	0.4	4	0.4	1	390	<100	<1	*18	--
	03/09/94	0.6	0.8	0.5	1.5	420	<100	--	*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	*<250	--	*9	--
	12/01/94	5.4	<0.3	0.7	1.3	230	*<250	--	*ND	--
	03/08/95	<0.3	<0.3	<0.3	<0.5	230	*<250	--	ND	--
	06/09/95	<0.3	<0.3	<0.3	<0.5	<50	*<250	--	ND	--
	08/29/95	0.9	0.4	<0.3	0.8	200	*<250	--	*15	--
	11/15/95	0.58	<0.5	<0.5	0.54	120	--	--	*21	--
	12/11/95	--	--	--	--	--	*<200	--	--	--
	03/05/96	0.6	<1.0	<1.0	<2.0	<100	*<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	--	--	<10
12/02/96	<0.5	<1.0	<1.0	<2.0	110	<200	--	--	<10	
02/26/97	<0.5	<1.0	<1.0	<2.0	<100	<200	--	--	<10	
MW-9	12/02/96	<0.5	<1.0	<1.0	<2.0	210	250	--	--	<10
	02/26/97	<0.5	<1.0	<1.0	<2.0	170	340	--	--	<10
EW-1	09/04/96	<0.5	<1.0	<1.0	<2.0	1,100	1700	--	--	<10
	12/02/96	6.2	<1.0	<1.0	<2.0	1,000	14,000	--	--	21
	02/28/97	12	<1.0	<1.0	2.1	1,200	2,100	--	--	12

Source: GTEL Environmental Laboratories

Notes: "--" indicates no datum for the cell, including "not analyzed for this constituent". Values beginning with "<" indicate the 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 is listed in laboratory reports, included in attachment 4)
- 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
- MTBE = Methyl tert-butyl ether

ATTACHMENT 3

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

GROUNDWATER TECHNOLOGY GROUNDWATER MONITORING AND SAMPLE COLLECTION PROTOCOL

Groundwater Monitoring

Groundwater monitoring is accomplished using a INTERFACE PROBE™ Well Monitoring System. The INTERFACE PROBE™ Well Monitoring System is a hand held, battery operated device for measuring the depth to separate-phase hydrocarbons and depth to water. The INTERFACE PROBE™ Well Monitoring System consists of a dual-sensing probe which utilizes 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, xylene, and total petroleum hydrocarbons (TPH)-as-gasoline analyses are collected in 40-milliliter vials fitted with Teflon® septum lids. Samples are preserved with hydrochloric acid (HCL) to a pH of less than 2. Dissolved metals samples are filtered through a 0.45-micron paper filter in the field and preserved as required before submitting to the laboratory for analyses. All samples are labeled immediately upon collection and logged on the chain-of-custody record. Sample label and chain-of-custody recorded information includes the project name and number, sample identification, date and time of collection, analyses requested, and the sampler's name. Sample bottles are placed in plastic bags (to protect the bottles and labels) and on ice (frozen water) in an insulated cooler and are shipped under chain-of-custody protocol to the laboratory.

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

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

**SITE VISIT FORM
FLUOR DANIEL GTI**

Project: Sears/2633 Telegraph
Store #: 1058
Project Manager: Mike Wray

Technician:
Schedule:
Job No. 020200282.030543

**WELL WATER SAMPLING - TASK Nr: 030543 [QUARTERLY]
Gauge wells for volume of water & bail 3 well Vol.s. DECON
PREPARATORY COMMENTS**

Visit Date: 2/26/97 Arrival Time: 10:05 AM Departure Time: _____

Called Project Manager? YES NO Time: _____ Who: _____

If you did not call, why not? Steve Stein came out

Weather: Rain Snow Sunny Cloudy Temperature: 65° F

Well ID

MW-1:	DTB_21.72	DTW <u>10.51</u>	SAT. THICK _____	#GAL. BAILED <u>6</u>
MW-2:	DTB_21.79	DTW <u>10.70</u>	SAT. THICK _____	#GAL. BAILED <u>6</u>
MW-3:	DTB_24.67	DTW <u>12.03</u>	SAT. THICK <u>0.01</u>	#GAL. BAILED <u>6</u>
MW-4:	DTB_22.97	DTW <u>11.42</u>	SAT. THICK _____	#GAL. BAILED <u>6</u>
MW-5:	DTB_25.27	DTW <u>10.34</u>	SAT. THICK _____	#GAL. BAILED <u>8</u>
MW-6:	DTB_22.05	DTW <u>10.96</u>	SAT. THICK _____	#GAL. BAILED <u>6</u>
MW-7:	DTB_21.70	DTW <u>11.02</u> <u>11.02 DTW</u>	SAT. THICK <u>0.01</u>	#GAL. BAILED <u>7</u>
MW-8:	DTB_22.14	DTW <u>11.98</u>	SAT. THICK _____	#GAL. BAILED <u>6</u>
MW-9:	DTB_20.30	DTW <u>11.52</u>	SAT. THICK _____	#GAL. BAILED <u>5</u>
EW-1	DTB_22.30	DTW <u>12.13</u>	SAT. THICK _____	#GAL. BAILED <u>20</u>

*color - not sampled -
0.01 product*

NOTES: _____

HOURS ESTIMATED: 6 HOURS USED: _____

FINAL CHECKS

Are Wells Locked? YES NO Why Not?
Are Manholes Bolted Down? YES NO Why Not?

ATTACHMENT 4

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



Midwest Region

4211 May Avenue
Wichita, KS 67209
(316) 945-2624
(800) 633-7936
(316) 945-0506 (FAX)

March 11, 1997

Mike Wray
FLUOR DANIEL GTI
757 Arnold Dr.
#D
Martinez, CA 94553

RE: NEI/GTEL Client ID: 020200282
Login Number: W7020427
Project ID (number): 020200282
Project ID (name): SEARS/2633 TELEGRAPH/OAKLAND/CA

Dear Mike Wray:

Enclosed please find the analytical results for the samples received by NEI/GTEL Environmental Laboratories, Inc. on 02/28/97 under Chain-of-Custody Number(s) 35034.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by NEI/GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes. This report is to be reproduced only in full.

NEI/GTEL is certified by the California Department of Health Service under Certification Number 1845.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
NEI/GTEL Environmental Laboratories, Inc.

Terry R. Loucks

Terry R. Loucks
Laboratory Director

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons By GC

NEI/GTEL Client ID: 020200282
 Login Number: W7020427
 Project ID (number): 020200282
 Project ID (name): SEARS/2633 TELEGRAPH/OAKLAND/CA

Method: GC
 Matrix: Aqueous

NEI/GTEL Sample Number	W7020427-01	W7020427-02	W7020427-03	W7020427-04
Client ID	MW-5	MW-1	MW-6	MW-7
Date Sampled	02/26/97	02/26/97	02/26/97	02/26/97
Date Prepared	02/28/97	02/28/97	02/28/97	02/28/97
Date Analyzed	03/07/97	03/07/97	03/07/97	03/07/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting		Concentration:			
	Limit	Units				
TPH as Lubricating Oil	200	ug/L	< 200	< 200	< 200	< 200

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

GC:

Extraction by EPA Method 3510 (liquid/liquid). ASTM Method D3328(modified) is used for qualitative identification of fuel patterns. The method has been modified to include quantitation by applying calibration and quality assurance guidelines outlined in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Lubricating oil can not be qualitatively identified by type of oil because of chromatographic likeness of different oil types. Due to non-volatility of certain oils, much of the oil present may not be quantified by this method. Quantitation obtained for lubricating oil by this method should, therefore, be treated as an estimate. This method quantifies lubricating oil against 10-W-30 standards.

W7020427-02:

Chromatographic data indicates the presence of material, which is lighter than oil, in this sample.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons By GC

NEI/GTEL Client ID: 020200282
 Login Number: W7020427
 Project ID (number): 020200282
 Project ID (name): SEARS/2633 TELEGRAPH/OAKLAND/CA

Method: GC
 Matrix: Aqueous

NEI/GTEL Sample Number	W7020427-05	W7020427-06	W7020427-07	W7020427-08
Client ID	MW-8	MW-2	MW-4	MW-9
Date Sampled	02/26/97	02/26/97	02/26/97	02/26/97
Date Prepared	02/28/97	02/28/97	02/28/97	02/28/97
Date Analyzed	03/07/97	03/07/97	03/07/97	03/07/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting		Concentration:			
	Limit	Units				
TPH as Lubricating Oil	200	ug/L	< 200	2100	390	340

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

GC:

Extraction by EPA Method 3510 (liquid/liquid). ASTM Method D3328(modified) is used for qualitative identification of fuel patterns. The method has been modified to include quantitation by applying calibration and quality assurance guidelines outlined in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Lubricating oil can not be qualitatively identified by type of oil because of chromatographic likeness of different oil types. Due to non-volatility of certain oils, much of the oil present may not be quantified by this method. Quantitation obtained for lubricating oil by this method should, therefore, be treated as an estimate. This method quantifies lubricating oil against 10-W-30 standards.

ANALYTICAL RESULTS
Total Petroleum Hydrocarbons By GC

NEI/GTEL Client ID: 020200282
Login Number: W7020427
Project ID (number): 020200282
Project ID (name): SEARS/2633 TELEGRAPH/OAKLAND/CA

Method: GC
Matrix: Aqueous

NEI/GTEL Sample Number	W7020427-09	--	--	--
Client ID	EW-1	--	--	--
Date Sampled	02/26/97	--	--	--
Date Prepared	02/28/97	--	--	--
Date Analyzed	03/07/97	--	--	--
Dilution Factor	1.00	--	--	--

Analyte	Reporting Limit	Units	Concentration:		
TPH as Lubricating Oil	200	ug/L	2100	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

GC:

Extraction by EPA Method 3510 (liquid/liquid). ASTM Method D3328(modified) is used for qualitative identification of fuel patterns. The method has been modified to include quantitation by applying calibration and quality assurance guidelines outlined in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Lubricating oil can not be qualitatively identified by type of oil because of chromatographic likeness of different oil types. Due to non-volatility of certain oils, much of the oil present may not be quantified by this method. Quantitation obtained for lubricating oil by this method should, therefore, be treated as an estimate. This method quantifies lubricating oil against 10-W-30 standards.

W7020427-09:

Chromatographic data indicates the presence of material, which is lighter than oil, in this sample.

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: 020200282
 Login Number: W7020427
 Project ID (number): 020200282
 Project ID (name): SEARS/2633 TELEGRAPH/OAKLAND/CA

Method: EPA 8020A
 Matrix: Aqueous

NEI/GTEL Sample Number	W7020427-01	W7020427-02	W7020427-03	W7020427-04
Client ID	MW-5	MW-1	MW-6	MW-7
Date Sampled	02/26/97	02/26/97	02/26/97	02/26/97
Date Analyzed	03/06/97	03/06/97	03/06/97	03/06/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting		Concentration:			
	Limit	Units				
MTBE	10	ug/L	< 10	< 10	< 10	< 10
Benzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Xylenes (total)	2.0	ug/L	< 2.0	4.5	< 2.0	< 2.0
TPH as Gas	100	ug/L	< 100	390	< 100	< 100

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. Analyte list modified to include additional compounds. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update II.

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: 020200282
 Login Number: W7020427
 Project ID (number): 020200282
 Project ID (name): SEARS/2633 TELEGRAPH/OAKLAND/CA

Method: EPA 8020A
 Matrix: Aqueous

NEI/GTEL Sample Number	W7020427-05	W7020427-06	W7020427-07	W7020427-08
Client ID	MW-8	MW-2	MW-4	MW-9
Date Sampled	02/26/97	02/26/97	02/26/97	02/26/97
Date Analyzed	03/06/97	03/06/97	03/06/97	03/06/97
Dilution Factor	1.00	1.00	1.00	1.00

Analyte	Reporting		Concentration:			
	Limit	Units				
MTBE	10	ug/L	< 10	< 10	< 10	< 10
Benzene	0.5	ug/L	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	1.0	ug/L	< 1.0	< 1.0	< 1.0	< 1.0
Xylenes (total)	2.0	ug/L	< 2.0	< 2.0	< 2.0	< 2.0
TPH as Gas	100	ug/L	< 100	< 100	< 100	170

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. Analyte list modified to include additional compounds. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update II.

ANALYTICAL RESULTS
Volatile Organics

NEI/GTEL Client ID: 020200282
 Login Number: W7020427
 Project ID (number): 020200282
 Project ID (name): SEARS/2633 TELEGRAPH/OAKLAND/CA

Method: EPA 8020A
 Matrix: Aqueous

NEI/GTEL Sample Number	W7020427-09	W7020427-10	W7020427-11	--
Client ID	EW-1	MWD-4	TRIP BLANK	--
Date Sampled	02/26/97	02/26/97		--
Date Analyzed	03/06/97	03/06/97	03/07/97	--
Dilution Factor	1.00	1.00	1.00	--

Analyte	Reporting		Concentration:			
	Limit	Units				
MTBE	10	ug/L	12.	--	< 10.	--
Benzene	0.5	ug/L	12.	< 0.5	< 0.5	--
Toluene	1.0	ug/L	< 1.0	< 1.0	< 1.0	--
Ethylbenzene	1.0	ug/L	< 1.0	< 1.0	< 1.0	--
Xylenes (total)	2.0	ug/L	2.1	< 2.0	< 2.0	--
TPH as Gas	100	ug/L	1200	--	< 100	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020A:

Gasoline range hydrocarbons (TPH) quantitated by GC/FID with purge and trap and modified EPA Method 8015. Analyte list modified to include additional compounds. "Test Methods for Evaluating Solid Waste. Physical/Chemical Methods", SW-846, Third Edition including promulgated Update II.