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FLUOR DANIEL GTI

5710 1082

January 23, 1998

Mr. Dale Klettke, CHMM
Hazardous Materials Specialist
Alameda County, Health Care Services Agency
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 020200281

Dear Mr. Klettke:

On behalf of Sears, Roebuck and Co., Fluor Daniel GTI, Inc., presents the quarterly groundwater monitoring data collected on November 28, 1997 at 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 layer 0.03-foot-thick of separate-phase hydrocarbons was detected in monitoring well MW-3, which is consistent with past measurements. A potentiometric surface map is presented in Attachment 1, Figure 1. A historical summary of groundwater monitoring data is presented in Attachment 2, Table 1.

After measuring depth to water, six of the seven scheduled monitoring wells were purged and sampled. Because separate-phase hydrocarbons were detected in well MW-3, this well was not sampled. Groundwater monitoring and sample collections protocol and field data sheets are presented in Attachment 3. The groundwater samples were analyzed for benzene, toluene, ethyl-benzene, xylenes (BTEX), methyl tert-butyl ether (MTBE) and for total petroleum hydrocarbons (TPH)-as-gasoline by EPA Methods 8020/modified 8015, and for TPH-as-motor oil by modified EPA Method 8015 (GC/FID). A summary of the groundwater analytical results is presented in Attachment 2, Table 2. A distribution map of dissolved benzene, TPH-as-gasoline and TPH-as-motor-oil concentrations is presented as Attachment 1, 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
West Zone Project Manager

Attachments

cc: Scott M. DeMuth, Sears, Roebuck and Co.
Central Files, Lenexa, Kansas

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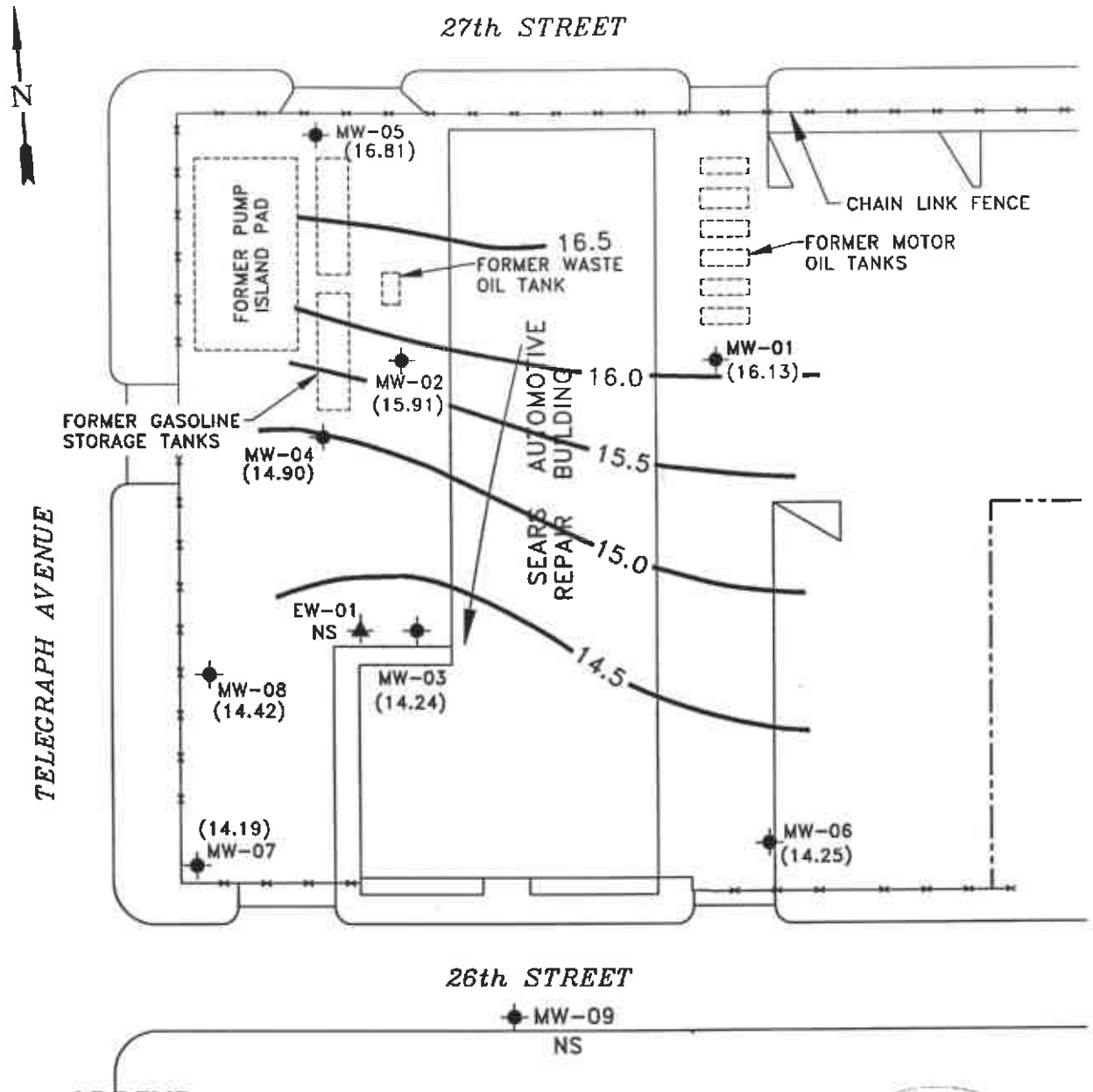
ATTACHMENT 1

Figures

1. Potentiometric Surface Map (11/28/97)
2. Concentrations of Benzene, TPH-as-Gasoline and TPH-as-Motor Oil in Groundwater (11/28/97)



LEGEND

✦	MONITORING WELL
✦	EXTRACTION WELL
( )	POTENTIOMETRIC SURFACE ELEVATION (FT)
NS	NOT SURVEYED
SPH	SEPARATE-PHASE HYDROCARBONS
⌒	POTENTIOMETRIC SURFACE CONTOUR
←	GROUNDWATER FLOW DIRECTION

REGISTERED GEOLOGIST
EDVARDAS (ED) K. SIMONIS
No. 4422
STATE OF CALIFORNIA

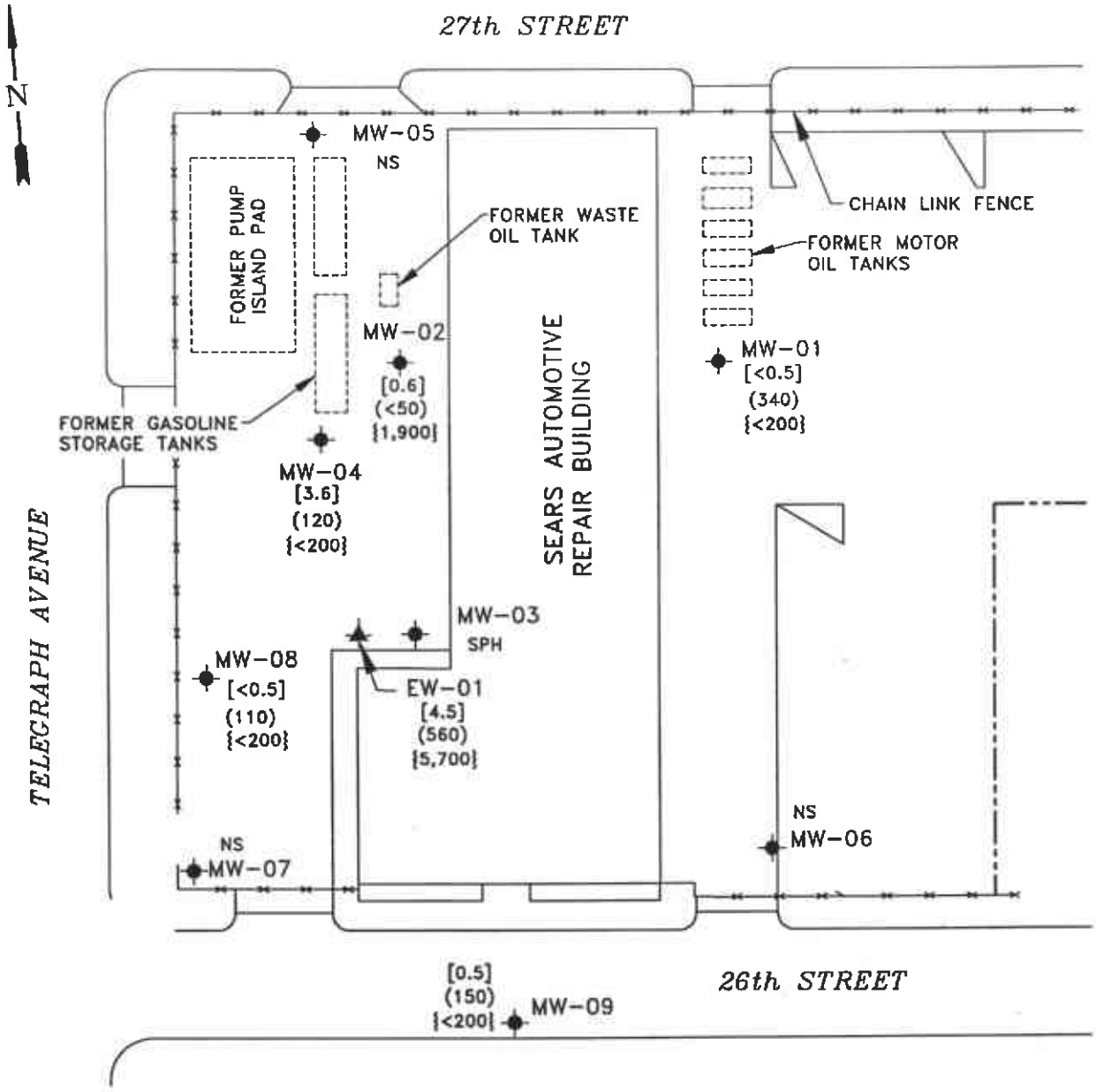
NOTE:
1. CONTOURS REPRESENT APPROXIMATE ELEVATIONS ABOVE MEAN SEA LEVEL.

FLUOR DANIEL GTI

0 FEET 40
SCALE

POTENTIOMETRIC SURFACE MAP (11/28/97)

CLIENT: SEARS, ROEBUCK AND CO. SITE NO. 1058	FILE: PSMN2897 (1:40)	PROJECT NO.: 020200281	PM: ED	PE/RG: [illegible] 1/6/98
LOCATION: 2633 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	REV.			FIGURE: 1
	DES.: ES	DET.: ML	DATE: 1/6/98	



LEGEND

✦	MONITORING WELL
▲	EXTRACTION WELL
[ ]	BENZENE CONCENTRATIONS [ug/l]
( )	TPH-AS-GASOLINE (ug/l)
{ }	TPH-AS-MOTOR OIL {ug/l}
NS	NOT SAMPLED
SPH	SEPARATE-PHASE HYDROCARBONS

REGISTERED GEOLOGIST
EDVARDAS (ED) K. SIMONIS
No. 4422
STATE OF CALIFORNIA

FLUOR DANIEL GTI

0 FEET 40
SCALE

CONCENTRATIONS OF BENZENE, TPH-AS GASOLINE & TPH-AS-MOTOR OIL IN GROUNDWATER (11/28/97)

CLIENT: SEARS, ROEBUCK AND CO. SITE NO. 1058	FILE: BENN2897	PROJECT NO.: 020200281	PM	PE/RG ES 1/19/98
	REV.			FIGURE: 2
LOCATION: 2633 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	DES. ES	DET. ML	DATE: 1/6/98	

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
		06/09/97	11.25	--	--	14.95
		08/25/97	11.15	--	--	15.05
		11/28/97	10.07	--	--	16.13

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	10.65	--	--	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	--	--	15.56
		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
		06/09/97	11.10	--	--	15.40
		08/25/97	11.05	--	--	15.45
		11/28/97	10.59	--	--	15.91

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	11.68	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
		06/09/97	12.39	12.35	0.04	13.98
		08/25/97	12.28	12.25	0.03	14.04
		11/28/97	12.13	12.10	0.03	14.24

* 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
		06/09/97	11.70	--	--	14.47
		08/25/97	11.63	--	--	14.54
		11/28/97	11.27	--	--	14.90

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
		02/26/97	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

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
		06/09/97	10.90	--	--	13.42
		08/25/97	10.84	--	--	13.48
		11/28/97	10.07	--	--	14.25

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	--	--	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
		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

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
		06/09/97	12.36	--	--	13.76
		08/25/97	12.25	--	--	13.87
		11/28/97	11.70	--	--	14.42
MW-9	N/A	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
EW-1	N/A	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

Notes: "--" indicates no datum for the cell, including "product not detected"
NM = Not monitored
N/A = 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	--	[e]<250	--	--	--
	12/01/94	0.4	0.4	<0.3	6.6	--	[e]<250	--	--	--
	03/08/95	<0.3	0.6	<0.3	2.7	--	[e]<250	--	--	--
	06/09/95	<0.3	1.4	4.7	5.6	--	[e]<250	--	--	--
	08/29/95	0.3	0.9	3.9	2.8	--	[e]<250	--	--	--
	11/15/95	<0.5	<0.5	<0.5	27	--	[e]<200	--	--	--
	03/05/96	<0.5	<1.0	<1.0	<2.0	--	[e]<200	--	--	--
	06/03/96	<0.5	<1.0	<1.0	3.4	340	[e]<200	--	--	--
	09/04/96	<0.5	<1.0	3.7	<2.0	390	310	--	--	--
	12/02/96	<0.5	<1.0	<1.0	2.7	400	[e]<200	--	--	--
	02/26/97	<0.5	<1.0	<1.0	4.5	390	[e]<200	--	--	--
	06/09/97	<0.5	<1.0	<1.0	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
MW-2	12/30/92	0.7	<0.3	<0.3	3	190	--	1	[a]ND	--
	03/24/93	0.6	<0.3	<0.3	2	120	--	<1	[a]ND	--
	06/21/93	0.3	<0.3	<0.3	0.7	82	**<100	--	[c]ND	--
	09/16/93	<0.3	<0.3	<0.3	<0.5	28	**<100	--	[c]ND	--
	12/01/93	<0.3	<0.3	<0.3	1	68	--	--	[c]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	[e]<250	--	[d]15	--
	12/01/94	<0.3	<0.3	<0.3	<0.5	54	[f]1,300	--	[d]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	--	[h]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	--	--	--
	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

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-3	12/30/92	11	0.9	<0.3	2	910	SPH	20	[a]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	[cd]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	**5,700	**63	[a]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
MW-4	12/30/92	2	<0.3	1	<0.5	1,200	--	<1	[a]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	--	[a]ND	--
	09/16/93	0.3	<0.3	2	3	410	2,500	--	[a]ND	--
	12/01/93	<0.3	<0.3	<0.3	<0.5	150	390	--	[a]ND	--
	03/09/94	0.7	0.8	2	3.6	1,500	780	--	[a]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	--	[a]<5	--
	03/08/95	<0.3	<0.3	<0.3	<0.5	360	1,000	--	[a]<5	--
	06/09/95	<0.3	0.4	<0.3	<0.5	64	1,100	--	[a]<5	--
	08/29/95	<0.3	<0.3	<0.3	<0.5	<50	1,200	--	[a]<5	--
	11/15/95	<0.5	<0.5	<0.5	<0.5	<50	2,100	--	[a]ND	--
	03/05/96	<0.5	<1.0	<1.0	<2.0	<100	590	--	[a]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	--	--	--
	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

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-5	12/30/92	<0.3	<0.3	<0.3	<0.5	37	--	<1	[bc]5	--
	03/24/93	<0.3	<0.3	<0.3	0.5	19	--	2	[*c]341	--
	06/21/93	<0.3	<0.3	<0.3	<0.5	<10	<100	--	[c]ND	--
	09/16/93	0.3	<0.3	<0.3	1	<10	<100	--	[c]ND	--
	12/01/93	<0.3	<0.3	<0.3	1	17	--	--	[c]ND	--
	12/30/93	--	--	--	--	--	<100	--	--	--
	03/09/94	<0.3	<0.3	<0.3	<0.5	22	<100	--	[c]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	--	[d]7	--
	08/29/95	<0.3	<0.3	<0.3	<0.5	<50	<250	--	[h]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
MW-6	12/27/93	<0.3	<0.3	<0.3	<0.5	<10	<100	<1	[e]70	--
	03/09/94	<0.3	<0.3	<0.3	<0.5	15	<100	--	[c]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	--	[d]8	--
	12/01/94	<0.3	<0.3	<0.3	<0.5	<10	<250	--	[g]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	--	[h]24	--
	11/15/95	<0.5	<0.5	<0.5	<0.5	<50	<200	--	[g]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
MW-7	12/27/93	<0.3	<0.3	1	2	140	<100	<1	[e]40	--
	03/09/94	<0.3	<1.0	1.5	4.1<	620	<100	--	[c]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	[e]<250	--	ND	--
	12/01/94	<0.3	<0.3	<0.3	1.1	<10	[e]<250	--	[g]28	--
	03/08/95	<0.3	<0.3	<0.3	<0.5	<10	[e]<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	--	[h]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
	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

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-8	12/27/93	0.4	4	0.4	1	390	<100	<1	[a]18	--
	03/09/94	0.6	0.8	0.5	1.5	420	<100	--	[a]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	[e]<250	--	[d]9	--
	12/01/94	5.4	<0.3	0.7	1.3	230	[e]<250	--	[c]ND	--
	03/08/95	<0.3	<0.3	<0.3	<0.5	230	[e]<250	--	ND	--
	06/09/95	<0.3	<0.3	<0.3	<0.5	<50	[e]<250	--	ND	--
	08/29/95	0.9	0.4	<0.3	0.8	200	[e]<250	--	[h]15	--
	11/15/95	0.58	<0.5	<0.5	0.54	120	--	--	[g]21	--
	12/11/95	--	--	--	--	--	[e]<200	--	--	--
	03/05/96	0.6	<1.0	<1.0	<2.0	<100	[e]<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
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
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	14,00	--	--	--
	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	2.0	1,400	15,000	--	--	12
	11/28/97	4.5	1.1	1.1	4.0	560	5,700	--	--	5

Notes:

"--"	=	No datum 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 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

11/28

SITE VISIT FORM
Fluor Daniel GTI - Martinez, California

Project: **20200281.00** Technician: A Marks
Site: **SEARS/#1058/Oakland, CA** Scheduled: **11/24/97**
Project Mgr: **Eileen Brennan** Site Mgr:

PREPARATORY COMMENTS

Visit Date: 11/28/97 Arrival Time: 10:00 Departure Time: 13:50

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: 030543 [Quarterly]

Notify Tom Peacock 72 hrs in advance (510) 567-6782 DONE: 11/20/97 @ 1:05pm J Ellis

SITE ADDRESS: 2633 Telegraph Avenue, Oakland, CA

cc: Eileen Brennan

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

JUNE(2nd)/DEC(4th): Monitor all wells (MW-1 through MW-9, and EW-1). Sample seven (7) wells in the following order: MW-9, MW-1, MW-8, MW-2, MW-4, MW-3 and EW-1. USE DISPOSABLE BAILERS.

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

3. Collect one trip blank and one duplicate from MW-4 and submit for BTEX-8020 only.

SITE VISIT FORM
Fluor Daniel GTI - Martinez, California

Project: **20200281.00** Technician:
Site: **SEARS/#1058/Oakland, CA** Scheduled: **11/24/97**
Project Mgr: **Eileen Brennan** Site Mgr:

GROUNDWATER SAMPLING (Continued) - Task Nr: 030543 [Quarterly]

4. Complete detailed drum count. Check with owner if drums can be left in corner. Label drums properly (Non Haz).

5. Submit samples to AEN Lab. in Pleasant Hill, CA ph# (510) 930-9090. To be analyzed for BTEX/MTBE/TPH-G (EPA 8020/8015), and TPH-Motor Oil (EPA 8015).

Note: Add TPH-MO to concentration map

6. COMPLETED ALL THREE PAGES OF WASTE INVENTORY FORM?_____. IF NO, EXPLAIN_____.

HOURS ESTIMATED FOR MARCH/SEPT 6.0 JUNE/DEC 5.0

Hours Estimated	5.00	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
FLUOR DANIEL GTI

Project: Sears/#1058/Oakland	Technician:
Store #: 1058/2633 Telegraph	Schedule:
Project Manager: Mike Wray	Job No. 020200281.030543

TECHNICIAN'S COMMENTS

TOTAL HOURS ESTIMATED:	HOURS USED:
TRAVEL TIME ESTIMATED:	TRAVEL TIME USED:

TECHNICIAN

SITE VISIT FORM
Fluor Daniel GTI - Martinez, California

Project: **20200281.00** Technician:
Site: **SEARS/#1058/Oakland, CA** Scheduled: **11/24/97**
Project Mgr: **Eileen Brennan** Site Mgr:

TECHNICIAN'S COMMENTS

Total Hours Estimated	**5.00**	Total Hours Used	
Travel Time Estimated	**1.50**	Travel Time Used	

Technician

SITE VISIT FORM
FLUOR DANIEL GTI

Project: Sears/#1058/Oakland
Store #: 1058/2633 Telegraph
Project Manager: Eileen Brennan

Technician: H. Mercier
Schedule: 11/28/97
Job No. 020200281.030543

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

Visit Date: 11/28/97 Arrival Time: 10:00 Departure Time: _____

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

If you did not call, why not? NOT IN OFFICE

Weather: Rain Snow (Sunny) Cloudy Temperature: 65°

Well ID				
MW-1:	DTB_21.72	DTW 10.07	SAT. THICK ___	#GAL. BAILED _____
MW-2:	DTB_21.79	DTW 10.59	SAT. THICK ___	#GAL. BAILED _____
MW-3:	DTB_24.67	DTW 12.13 DTP	~~SAT.~~ THICK 12.10	#GAL. BAILED _____
MW-4:	DTB_22.97	DTW 11.27	SAT. THICK ___	#GAL. BAILED _____
MW-5:	DTB_25.27	DTW 10.15	SAT. THICK ___	#GAL. BAILED _____
MW-6:	DTB_22.05	DTW 10.07	SAT. THICK ___	#GAL. BAILED _____
MW-7:	DTB_21.70	DTW 10.69	SAT. THICK ___	#GAL. BAILED _____
MW-8:	DTB_22.14	DTW 11.76	SAT. THICK ___	#GAL. BAILED _____
MW-9	DTB_20.30	DTW 11.15	SAT. THICK ___	#GAL. BAILED _____
EW-1	DTB_22.30	DTW 12.12	SAT. THICK ___	#GAL. BAILED _____

NOTES: _____

HOURS ESTIMATED: HOURS USED:

FINAL CHECKS

Are Wells Locked? YES NO Why Not?

Are Manholes Bolted Down? YES NO Why Not?

Project Name: Sears / #1058/Oakland, CA
Site Address: 2633 Telegraph Ave., Oakland
Project Number: 020200281.030543

Date: 11/28/07
Page 2 of 7
Project Manager: Eileen Brennan

Well ID: MW-1
Well Diameter: 2

DTW Measurements:
Initial: 10.07
Recharge:
DTB: 22.14

Calc Well Volume: 1.9 gal
Well Volume: X3 5.9 gal

Purge Method
Peristaltic
Gear Drive
Submersible X

Pump Depth ft.
Hand Bailed
Air Lift
Other

Instruments Used
YSI: X
Hydac:
Omega:
Other:

Time	Temp X C / F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
10:40	18.7	0.33	5.50	1	Cloudy	
10:41	19.5	0.32	5.62	2		
10:42	20.6	0.32	5.69	3		
10:43	21.8	0.33	5.78	4		
10:44	22.3	0.32	5.89	5		
10:45	22.8	0.32	6.08	6		
10:47	22.9	0.32	6.18	8		
10:50	23.0	0.32	6.22	10		

Project Name: Sears / #1058/Oakland, CA
Site Address: 2633 Telegraph Ave., Oakland
Project Number: 020200281.030543

Date: 11/28/97
Page 1 of 7
Project Manager: Eileen Brennan

Well ID: MW-9
Well Diameter: 2

DTW Measurements:
Initial: 11.15
Recharge: _____
DTB: 20.30

Calc Well Volume: 1.4 gal
Well Volume: X3 4.4 gal

Purge Method
Peristaltic _____
Gear Drive _____
Submersible X

Pump Depth _____ ft.
Hand Bailed _____
Air Lift _____
Other _____

Instruments Used
YSI: X
Hydac: _____
Omega: _____
Other: _____

Time	Temp X C / F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
11:00	22.1	0.41	6.43	1	cloudy	BROWN
11:01	21.9	0.44	6.43	2	↓	↓
11:02	21.9	0.43	6.38	3		
11:03	21.9	0.44	6.40	4		
11:04	22.0	0.44	6.43	5		

Project Name: Sears / #1058/Oakland, CA
Site Address: 2633 Telegraph Ave., Oakland
Project Number: 020200281.030543

Date: 11/28/97
Page 3 of 7
Project Manager: Eileen Brennan

Well ID: MW-8
Well Diameter: 2

DTW Measurements:
Initial: 11.70
Recharge:
DTB: 22.14

Calc Well Volume: 1.7 gal
Well Volume: x3 5.1 gal

Purge Method
Peristaltic
Gear Drive
Submersible X

Pump Depth ft.
Hand Bailed
Air Lift
Other

Instruments Used
YSI: X
Hydac:
Omega:
Other:

Time	Temp X C / F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
11:26	23.4	0.48	6.40	1	cloudy	
11:27	23.2	0.47	6.43	2		
11:28	23.2	0.47	6.43	3		
11:29	23.4	0.47	6.41	4		
11:30	23.5	0.48	6.42	5		

Project Name: Sears / #1058/Oakland, CA
Site Address: 2633 Telegraph Ave., Oakland
Project Number: 020200281.030543

Date: 11/28/97
Page 4 of 7
Project Manager: Eileen Brennan

Well ID: MW-2
Well Diameter: 2

DTW Measurements:
Initial: 10.59
Recharge:
DTB: 21.29

Calc Well Volume: 18 gal
Well Volume: X3 54 gal

Purge Method
Peristaltic
Gear Drive
Submersible X

Pump Depth ft.
Hand Bailed
Air Lift
Other

Instruments Used
YSI: X
Hydac:
Omega:
Other:

Time	Temp X C / F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
11:40	23.1	0.41	6.40	1	CLOUDY	
11:41	23.3	0.40	6.44	2	↓	
11:42	23.2	0.40	6.48	3		
11:43	23.2	0.40	6.48	4		
11:44	23.2	0.40	6.49	5	↓	DRY @ 5 GALLONS

Project Name: Sears / #1058/Oakland, CA
Site Address: 2633 Telegraph Ave., Oakland
Project Number: 020200281.030543

Date: 11/28/97
Page 5 of 7
Project Manager: Eileen Brennan

Well ID: MW-4
Well Diameter: 2

DTW Measurements:
Initial: 11.27
Recharge:
DTB: 22.97

Calc Well Volume: 1.8 gal
Well Volume x3 5.6 gal

Purge Method
Peristaltic
Gear Drive
Submersible X

Pump Depth ft.
Hand Bailed
Air Lift
Other

Instruments Used
YSI: X
Hydac:
Omega:
Other:

Time	Temp X C / F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
11:58	23.0	0.43	6.44	1	cloudy	
11:59	24.0	0.44	6.44	2	↓	
12:00	24.0	0.44	6.45	3		
12:01	23.9	0.44	6.48	4		
12:02	23.8	0.44	6.45	5	↓	

Project Name: Sears / #1058/Oakland, CA
Site Address: 2633 Telegraph Ave., Oakland
Project Number: 020200281.030543

Date: 11/28/97
Page 6 of 7
Project Manager: Eileen Brennan

Well ID: MW-3
Well Diameter: 2

DTW Measurements:
Initial: _____ Calc Well Volume: _____ gal
Recharge: _____ Well Volume: x3 _____ gal
DTB: 24.67

Purge Method
Peristaltic _____
Gear Drive _____
Submersible X

Pump Depth _____ ft.
Hand Bailed _____
Air Lift _____
Other _____

Instruments Used
YSI: X Other: _____
Hydac: _____
Omega: _____

Time	Temp X C / F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
						DTP: 12:10 DTW: 12:13
						PT: 0.03

Project Name: Sears / #1058/Oakland, CA
Site Address: 2633 Telegraph Ave., Oakland
Project Number: 020200281.030543

Date: 11/28/97
Page 2 of 7
Project Manager: Eileen Brennan

Well ID: EW-1
Well Diameter: 4

DTW Measurements:
Initial: 12.12
Recharge:
DTB: ~~22.30~~

Calc Well Volume: 6.6 gal
Well Volume x3 19.9 gal

Purge Method
Peristaltic
Gear Drive
Submersible

Pump Depth ft.
Hand Bailed
Air Lift
Other

Instruments Used
YSI: X
Hydac:
Omega:
Other:

Time	Temp X C / F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
12:14	228	0.49	6.55	5	CLOUDY	
12:17	229	0.50	6.56	10	↓	
12:20	229	0.50	6.58	15		
12:22	229	0.50	6.57	20		

SEARS DRUM INVENTORY FORM

Completion Date: 11/28/97

Sears Store Number 1058 City/State OAKland

Accumulation Start Date 11/28/97

FDGTI Representative H Merino

Drum Storage Location B4 MW 6

CONTENTS	# OF DRUMS	*DRUM ID (A,B,C...)	LID TYPE: (OPEN OR BUNG)	**LABEL TYPE: HAZARD NON-HAZ UNCLASS	DRUM DESCRIPTION: COLOR CONDITION MARKINGS
FLUIDS					
WASHWATER RINSATE (GAS)	2	A,B	BOTH	NON CLASS	WHITE TOP BLACK BOTTOM
WASHWATER RINSATE (OIL)					
MOTOR OIL/WATER MIXTURES					
MOTOR OIL					
USED OIL/WATER MIXTURES					
USED OIL					
HEATING OIL/DIESEL FUEL AND WATER MIXTURES					
HEATING OIL/DIESEL FUEL					
GASOLINE/WATER MIXTURES					
GASOLINE					
HYDRAULIC OIL/WATER MIXTURES					
HYDRAULIC OIL					
SLUDGES					
MOTOR OIL SLUDGE/TANK BOTTOMS					
USED OIL SLUDGE/TANK BOTTOMS					
HEATING OIL/DIESEL FUEL SLUDGE/TANK BOTTOMS					
GASOLINE SLUDGE/TANK BOTTOMS					
HYDRAULIC OIL SLUDGE/TANK BOTTOMS					
OTHER--if soil, complete Page 2 of 3					
DESCRIPTION (NO SORBENT PADS or PPE IN DRUMS):					

***EACH DRUM MUST HAVE A UNIQUE LETTER SPRAY-PAINTED ON THE BODY OF THE DRUM. Letter must be at least 10 inches tall. No two drums can have same letter at the same time.**

****All labels should be "Unclassified" unless specifically directed otherwise by Project Manager.**

COMPLETE PAGE 3 OF 3 WHEN EVER DRUMS ARE PRESENT OR GENERATED.

cc PO 12/8

SEARS SOIL INVENTORY FORM

Completion Date: 11/28/97

Store Number 1058 City/State OAKLAND CA

Accumulation Start Date 11/28/97

FDGTI Representative D. Merino

Soil Storage Location NONE

SOIL CONTAMINANTS	# OF DRUMS*	CUBIC YARDS	DIMENSIONS OF PILE
VIRGIN PETROLEUM OIL (motor, heating, diesel)			
HYDRAULIC OIL			
USED OIL			
GASOLINE			

N/A

* IF DRUMS ARE GENERATED, COMPLETE PAGE 3 OF 3

SEARS DRUM INVENTORY FORM

Completion Date: 11/28/97

Store Number 1058 City/State OAKLAWN CA

FDGTI Representative H. Mercino

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

DRUM ID	ACCUMU-LATION START DATE	CONTENTS (as on label) VOLUME (if mixed waste)	SOURCE (be specific)	SLUDGE PRESENT Y/N	VOLUME (gallon)
A	11/28/97	Purge H2O	Well water	NO	55
B	11/28/97	Purge H2O	Well water	NO	20
C					
D					
E					
F					
G					
H					
I					
J					
K					
L					
M					
N					
O					
P					
Q					
R					
S					
T					
U					
V					
W					
X					
Y					
Z					

EXAMPLE

A	5/19/97	well purge water	MW-1 thru MW-5	no	50

Reporting Information:

1. Client: FLUOR DANIEL GTI
Address: 2517 NAPA? DR. SUITE D MARTINEZ CA.
Contact: EILEEN BRENNAN
Alt. Contact:

American Environmental Network

AEN

3440 Vincent Road, Pleasant Hill, CA 94523
Phone (510) 930-9090
FAX (510) 930-0256

Page 1 of 1

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

Lab Job Number:
Lab Destination:
Date Samples Shipped:
Lab Contact:
Date Results Required:
Date Report Required:
Client Phone No.: (510) 370-3990
Client FAX No.: (510) 370-3991

Address Report To:
2. SAME @ #1

Send Invoice To:
3. SAME @ #1+2

Send Report To: 1 or 2 (Circle one)

Client P.O. No.:

Client Project I.D. No.: SEARS #1058 020200028 / 03054

Sample Team Member(s): [illegible signature]

Lab Number	Client Sample Identification	Air Volume	Date/ Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	TPH/MOTOR OIL	BTEX/MTBE/TPH-G	5030	Comments / Hazards
	MW-1		11/28/97 12:40	GW	HCl/NONE	6	40mL/1 LITER	X	X		
	MW9		12:50	↓	↓	6	↓	X	X		
	MW3		13:00	↓	↓	6	↓	X	X		
	MW2		13:10	↓	↓	6	↓	X	X		
	MW-4		13:20	↓	↓	6	↓	X	X		
	EW-1		13:30	↓	↓	6	↓	X	X		
	DUP MW4		13:25	↓	↓	1	↓			X	
	TBLB		↓	↓	↓	1	↓			X	

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
[signature]	12-1-97	15:25	Rick Gilmore	12-1-97	15:25

Method of Shipment

Lab Comments

*Sample type (Specify): 1) 37mm 0.8 µm MCEF 2) 25mm 0.8 µm MCEF 3) 25mm 0.4 µm polycarb. filter 4) PVC filter, diam. ____ pore size ____ 5) Charcoal tube 6) Silica gel tube 7) Water 8) Soil 9) Bulk Sample 10) Other ____ 11) Other ____

COPIES: WHITE - JOB FILE YELLOW - PROJECT FILE PINK - CLIENT

ATTACHMENT 4

Laboratory Reports and Chain-of-Custody Record

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

FLUOR DANIEL GTI
757 ARNOLD DRIVE, STE. D
MARTINEZ, CA 94553

ATTN: EILEEN BRENNAN
CLIENT PROJ. ID: 020200281
CLIENT PROJ. NAME: SEARS #1058 Oakland

REPORT DATE: 12/17/97
DATE(S) SAMPLED: 11/28/97
DATE RECEIVED: 12/01/97
AEN WORK ORDER: 9712017

PROJECT SUMMARY:

On December 1, 1997, this laboratory received 8 water sample(s).

Client requested sample(s) be analyzed for chemical parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
Laboratory Director

FLUOR DANIEL GTI

SAMPLE ID: MW-1
AEN LAB NO: 9712017-01
AEN WORK ORDER: 9712017
CLIENT PROJ. ID: 020200281

DATE SAMPLED: 11/28/97
DATE RECEIVED: 12/01/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	12/07/97
Toluene	108-88-3	ND	0.5	ug/L	12/07/97
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/07/97
Xylenes, Total	1330-20-7	3 *	2	ug/L	12/07/97
Purgeable HCs as Gasoline	5030/GCFID	0.34 *	0.05	mg/L	12/07/97
Methyl t-Butyl Ether	1634-04-4	6 *	5	ug/L	12/07/97
#Extraction for TPH	EPA 3510	-		Extrn Date	12/07/97
TPH as Oil	GC-FID	ND	0.2	mg/L	12/09/97

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

FLUOR DANIEL GTI

SAMPLE ID: MW-9
AEN LAB NO: 9712017-02
AEN WORK ORDER: 9712017
CLIENT PROJ. ID: 020200281

DATE SAMPLED: 11/28/97
DATE RECEIVED: 12/01/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	12/07/97
Toluene	108-88-3	0.5 *	0.5	ug/L	12/07/97
Ethylbenzene	100-41-4	0.9 *	0.5	ug/L	12/07/97
Xylenes, Total	1330-20-7	ND	2	ug/L	12/07/97
Purgeable HCs as Gasoline	5030/GCFID	0.15 *	0.05	mg/L	12/07/97
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	12/07/97
#Extraction for TPH	EPA 3510	-		Extrn Date	12/07/97
TPH as Oil	GC-FID	ND	0.2	mg/L	12/09/97

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

FLUOR DANIEL GTI

SAMPLE ID: MW-8
AEN LAB NO: 9712017-03
AEN WORK ORDER: 9712017
CLIENT PROJ. ID: 020200281

DATE SAMPLED: 11/28/97
DATE RECEIVED: 12/01/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	12/07/97
Toluene	108-88-3	ND	0.5	ug/L	12/07/97
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/07/97
Xylenes, Total	1330-20-7	ND	2	ug/L	12/07/97
Purgeable HCs as Gasoline	5030/GCFID	0.11 *	0.05	mg/L	12/07/97
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	12/07/97
#Extraction for TPH	EPA 3510	-		Extrn Date	12/07/97
TPH as Oil	GC-FID	ND	0.2	mg/L	12/09/97

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

FLUOR DANIEL GTI

SAMPLE ID: MW-2
AEN LAB NO: 9712017-04
AEN WORK ORDER: 9712017
CLIENT PROJ. ID: 020200281

DATE SAMPLED: 11/28/97
DATE RECEIVED: 12/01/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	0.6 *	0.5	ug/L	12/07/97
Toluene	108-88-3	ND	0.5	ug/L	12/07/97
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/07/97
Xylenes, Total	1330-20-7	ND	2	ug/L	12/07/97
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	12/07/97
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	12/07/97
#Extraction for TPH	**EPA 3510**	-		Extrn Date	12/07/97
TPH as Oil	**GC-FID**	1.9 *	0.2	mg/L	12/10/97

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

FLUOR DANIEL GTI

SAMPLE ID: MW-4
AEN LAB NO: 9712017-05
AEN WORK ORDER: 9712017
CLIENT PROJ. ID: 020200281

DATE SAMPLED: 11/28/97
DATE RECEIVED: 12/01/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	3.6 *	0.5	ug/L	12/07/97
Toluene	108-88-3	3.9 *	0.5	ug/L	12/07/97
Ethylbenzene	100-41-4	3.7 *	0.5	ug/L	12/07/97
Xylenes, Total	1330-20-7	12 *	2	ug/L	12/07/97
Purgeable HCs as Gasoline	5030/GCFID	0.12 *	0.05	mg/L	12/07/97
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	12/07/97
#Extraction for TPH	EPA 3510	-		Extrn Date	12/07/97
TPH as Oil	GC-FID	ND	0.2	mg/L	12/10/97

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

FLUOR DANIEL GTI

SAMPLE ID: EW-1
AEN LAB NO: 9712017-06
AEN WORK ORDER: 9712017
CLIENT PROJ. ID: 020200281

DATE SAMPLED: 11/28/97
DATE RECEIVED: 12/01/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	4.5 *	0.5	ug/L	12/07/97
Toluene	108-88-3	1.1 *	0.5	ug/L	12/07/97
Ethylbenzene	100-41-4	1.1 *	0.5	ug/L	12/07/97
Xylenes, Total	1330-20-7	4 *	2	ug/L	12/07/97
Purgeable HCs as Gasoline	5030/GCFID	0.56 *	0.05	mg/L	12/07/97
Methyl t-Butyl Ether	1634-04-4	5 *	5	ug/L	12/07/97
#Extraction for TPH	**EPA 3510**	-		Extrn Date	12/07/97
TPH as Oil	**GC-FID**	5.7 *	0.2	mg/L	12/10/97

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

FLUOR DANIEL GTI

SAMPLE ID: DUP MW4
AEN LAB NO: 9712017-07
AEN WORK ORDER: 9712017
CLIENT PROJ. ID: 020200281

DATE SAMPLED: 11/28/97
DATE RECEIVED: 12/01/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8020 for BTEX	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	12/07/97
Toluene	108-88-3	0.6 *	0.5	ug/L	12/07/97
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/07/97
Xylenes, Total	1330-20-7	ND	2	ug/L	12/07/97

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

FLUOR DANIEL GTI

SAMPLE ID: TBLB
AEN LAB NO: 9712017-08
AEN WORK ORDER: 9712017
CLIENT PROJ. ID: 020200281

DATE SAMPLED: 11/28/97
DATE RECEIVED: 12/01/97
REPORT DATE: 12/17/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8020 for BTEX	**EPA 8020**				
Benzene	71-43-2	ND	0.5	ug/L	12/12/97
Toluene	108-88-3	ND	0.5	ug/L	12/12/97
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/12/97
Xylenes, Total	1330-20-7	ND	2	ug/L	12/12/97

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9712017
CLIENT PROJECT ID: 020200281

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spikes(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analyses.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behaviour, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrument performance.

D: Surrogates diluted out.

I: Interference.

!: Indicates result outside of established laboratory QC limits.

ANALYSIS: TPH as Diesel

MATRIX: Water

METHOD BLANK SAMPLES

SAMPLE TYPE: Blank-Method/Media blank
INSTRUMENT: HP 5890
UNITS: mg/L
METHOD:
LAB ID: BLNK-1207-1
PREPARED: 12/07/97
ANALYZED: 12/07/97
INSTR RUN: GC C\971207000000/1/
BATCH ID: DSDW120797-1
DILUTION: 1.000000

ANALYTE		RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
Diesel		ND		0.05						
Motor Oil		ND		0.2						
n-Pentacosane	(surr)	102			100		65	125		

LABORATORY CONTROL SAMPLES

SAMPLE TYPE: Laboratory Control Spike
INSTRUMENT: HP 5890
UNITS: mg/L
METHOD:
LAB ID: LCDW-1207-1
PREPARED: 12/07/97
ANALYZED: 12/07/97
INSTR RUN: GC C\971207000000/3/1
BATCH ID: DSDW120797-1
DILUTION: 1.000000

ANALYTE		RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
Diesel		2.12	ND	0.05	2.00	106	60	110		
n-Pentacosane	(surr)	100	102		100	100	65	125		

SAMPLE TYPE: Laboratory Control Spike
INSTRUMENT: HP 5890
UNITS: mg/L
METHOD:
LAB ID: LCSW-1207-1
PREPARED: 12/07/97
ANALYZED: 12/07/97
INSTR RUN: GC C\971207000000/2/1
BATCH ID: DSDW120797-1
DILUTION: 1.000000

ANALYTE		RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
Diesel		2.12	ND	0.05	2.00	106	60	110		
n-Pentacosane	(surr)	95.9	102		100	95.9	65	125		

LABORATORY CONTROL DUPLICATES

SAMPLE TYPE: Laboratory Control Sample Duplicate
INSTRUMENT: HP 5890
UNITS: mg/L
METHOD:
LAB ID: LCRW-1207-1
PREPARED: 12/07/97
ANALYZED: 12/07/97
INSTR RUN: GC C\971207000000/4/2
BATCH ID: DSDW120797-1
DILUTION: 1.000000

ANALYTE		RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
Diesel		2.12	2.12	0.05	2030				0	15
Motor Oil		ND	ND	0.2	200				0	
n-Pentacosane	(surr)	100	95.9			4.19	65	125		

SAMPLE SURROGATES

SAMPLE TYPE: Sample-Client
INSTRUMENT: HP 5890
UNITS: mg/L
METHOD:
LAB ID: 9712017-01E
PREPARED: 12/07/97
ANALYZED: 12/09/97
INSTR RUN: GC C\971207000000/11/
BATCH ID: DSDW120797-1
DILUTION: 1.000000

ANALYTE		RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
n-Pentacosane	(surr)	102			100	102	65	125		

SAMPLE TYPE: Sample-Client
INSTRUMENT: HP 5890
UNITS: mg/L
METHOD:
LAB ID: 9712017-02E
PREPARED: 12/07/97
ANALYZED: 12/09/97
INSTR RUN: GC C\971207000000/12/
BATCH ID: DSDW120797-1
DILUTION: 1.000000

ANALYTE		RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
n-Pentacosane	(surr)	105			100	105	65	125		

ANALYSIS: TPH as Diesel

MATRIX: Water

SAMPLE SURROGATES

SAMPLE TYPE: Sample-Client
INSTRUMENT: HP 5890
UNITS: mg/L
METHOD:
LAB ID: 9712017-02E
PREPARED: 12/07/97
ANALYZED: 12/09/97
INSTR RUN: GC C\971207000000/12/
BATCH ID: DSLW120797-1
DILUTION: 1.000000

ANALYTE		RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)

SAMPLE TYPE: Sample-Client
INSTRUMENT: HP 5890
UNITS: mg/L
METHOD:
LAB ID: 9712017-03E
PREPARED: 12/07/97
ANALYZED: 12/09/97
INSTR RUN: GC C\971207000000/13/
BATCH ID: DSLW120797-1
DILUTION: 1.000000

ANALYTE		RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
n-Pentacosane	(surr)	106			100	106	65	125		

SAMPLE TYPE: Sample-Client
INSTRUMENT: HP 5890
UNITS: mg/L
METHOD:
LAB ID: 9712017-04E
PREPARED: 12/07/97
ANALYZED: 12/09/97
INSTR RUN: GC C\971207000000/14/
BATCH ID: DSLW120797-1
DILUTION: 1.000000

ANALYTE		RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
n-Pentacosane	(surr)	100			100	100	65	125		

SAMPLE TYPE: Sample-Client
INSTRUMENT: HP 5890
UNITS: mg/L
METHOD:
LAB ID: 9712017-05E
PREPARED: 12/07/97
ANALYZED: 12/09/97
INSTR RUN: GC C\971207000000/15/
BATCH ID: DSLW120797-1
DILUTION: 1.000000

ANALYTE		RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
n-Pentacosane	(surr)	103			100	103	65	125		

SAMPLE TYPE: Sample-Client
INSTRUMENT: HP 5890
UNITS: mg/L
METHOD:
LAB ID: 9712017-06E
PREPARED: 12/07/97
ANALYZED: 12/09/97
INSTR RUN: GC C\971207000000/16/
BATCH ID: DSLW120797-1
DILUTION: 1.000000

ANALYTE		RESULT	REF RESULT	REPORTING LIMIT	SPIKE VALUE	RECOVERY (%)	REC LIMITS (%) LOW	REC LIMITS (%) HIGH	RPD (%)	RPD LIMIT (%)
n-Pentacosane	(surr)	96.5			100	96.5	65	125		

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9712017
INSTRUMENT: F
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
12/07/97	MW-1	01	99
12/07/97	MW-9	02	97
12/07/97	MW-8	03	98
12/07/97	MW-2	04	100
12/07/97	MW-4	05	99
12/07/97	EW-1	06	103
12/07/97	DUPMW4	07	98
12/12/97	TBLB	08	100
QC Limits:			70-130

DATE ANALYZED: 12/07/97
SAMPLE SPIKED: LCS
INSTRUMENT: F

Laboratory Control Sample Recovery

Analyte	Spike Added (ug/L)	Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Benzene	100	107	11	70-130	20
Toluene	100	113	8	70-130	20
Ethylbenzene	100	115	6	70-130	20
Total Xylenes	300	118	7	70-130	20

Daily method blanks for all associated analytical runs showed no contamination at or above the reporting limit.

*** END OF REPORT ***

Reporting Information:

1. Client: FLUORAMEL GTI
Address: 257 Arnold Dr.
SAN LEO D MARTINEZ CA
Contact: FILEEN BRENNEN
Alt. Contact:

American Environmental Network

3440 Vincent Road, Pleasant Hill, CA 94523
Phone (510) 930-9090
FAX (510) 930-0256

AEN

Page 1 of 1

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

Lab Job Number: 9712017
Lab Destination:
Date Samples Shipped:
Lab Contact:
Date Results Required:
Date Report Required:
Client Phone No.: (510) 370.3990
Client FAX No.: (510) 370.3991

Address Report To:

2. SAME @ #1

Send Invoice To: R-3, S-2 R-5, S-M

3. SAME @ #1+2

Send Report To: 1 or 2 (Circle one)

Client P.O. No.: SERVST 1058 Client Project I.D. No.: 02020028 / 03054

Sample Team Member (s): H Nevin

Lab Number	Client Sample Identification	Air Volume	Date/ Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	ANALYSIS: TPH/MOD 8015	ANALYSIS: BTEX/MTBE/TPH/G 8020	ANALYSIS: ABCD	Comments / Hazards
1ABCDEF	MW-1		11/ 12:40	SW	HCl None	6	Amber	X	X		
2A-F	MW9		12:50			6		X	X		
3A-F	MW-8		28 13:00			6		X	X		
4A-F	MW-2		13:10			6		X	X		
5A-F	MW-4		13:20			6		X	X		
6A-F	RW-1		27 13:35			6		X	X		
7A ~~F~~ ABCD	DUP MW4		13:25			1				X	
8A	TB LB		—			1				X	

Relinquished by: (Signature)	DATE 12-1-97	TIME 15:25	Received by: (Signature) Rick Gilmore DATE 12-1-97 TIME 15:25
Relinquished by: (Signature) Rick Gilmore	DATE 12-1-97	TIME 18:00	Received by: (Signature) DATE 12/1/97 TIME 1800
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature) DATE TIME
Method of Shipment:			Lab Comments

*Sample type (Specify): 1) 37mm 0.8 µm MCEF 2) 25mm 0.8 µm MCEF 3) 25mm 0.4 µm polycarb. filter
4) PVC filter, diam. ____ pore size ____ 5) Charcoal tube 6) Silica gel tube 7) Water 8) Soil 9) Bulk Sample
10) Other ____ 11) Other ____

COPIES: WHITE - JOB FILE YELLOW - PROJECT FILE PINK - CLIENT