URS

June 24, 2002

R0480-147

Mr. Amir Gholami
Hazardous Materials Specialist
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Number 250
Alameda, California 94502

RE: 2001 Fourth Quarter Groundwater Monitoring
Former Sears Retail Center #1039
1901-1911 Telegraph Avenue
Oakland, California
Case I.D. #STID 1630
For Sears, Roebuck & Co.

Dear Mr. Gholami

Submitted with this letter is an IT report prepared on behalf of Sears, Roebuck & Co. Presented in the report are results of groundwater monitoring conducted at the above-referenced site during the Fourth Quarter 2001. URS has replaced IT as the environmental consultant for the site. Quarterly groundwater monitoring will continue within the current scope of work. Please feel free to contact me at 714.648.2793 if you have questions or comments.

Respectfully Submitted,
URS CORPORATION

J.S. Rowlands, R.G., C.HG.
Project Manager

cc: Mr. Scott DeMuth, Sears Roebuck and Co.
Mr. Ryan Hartley, URS Corporation
Mr. Tim Lester, Environmental Equalizers

IT Corporation
4005 Port Chicago Highway
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A Member of The IT Group

May 29, 2002

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

Subject: Solvent and Gasoline Impacts, STID 1630
Fourth Quarter 2001, Groundwater Monitoring and Sampling Report
Sears Auto Center No. 1039, 1901-1911 Telegraph Avenue, Oakland, California
IT Corporation Project 803686

Dear Mr. Gholami:

On behalf of Sears, Roebuck and Co., IT Corporation presents the quarterly groundwater monitoring and sampling data collected from the above referenced site on November 2, 2001. Nine on-site groundwater monitoring wells were gauged to determine depth to groundwater and to check for the presence of separate-phase petroleum hydrocarbons. Separate-phase hydrocarbons were not detected in any of the monitoring wells. A potentiometric surface map is provided in Figure 1 (Attachment 1) A summary of historical groundwater elevation data is provided in Table 1 (Attachment 2)

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

Static groundwater levels for the fourth quarter 2001 ranged from 75.94 to 78.55 feet above mean sea level (approximately 14 to 18 feet below top of casing). Groundwater elevations have decreased by about 0.5 foot since the previous quarter (July 24, 2001). The apparent groundwater flow is to the east at an average hydraulic gradient of 0.01 foot per foot, and is similar to previous quarterly data.

Results of quarterly sampling indicated detectable concentrations of dissolved petroleum hydrocarbons in monitoring wells MW-2, MW-5, MW-7, and MW-9 with highest concentrations of TPH-g and benzene found in MW-7. MTBE was detected in samples collected from two wells, MW-5 at a concentration of 2.3 micrograms per liter (µg/L) and well MW-7 at a concentration 2.2 µg/L. All monitoring wells except MW-4 and MW-5 contained detectable concentrations of various halogenated volatile organics, such as 1,2-dichloroethane (1,2-DCA), cis-1,2-dichloroethene, tetrachloroethene

(PCE), and trichloroethene (TCE). These compounds are not typically found in gasoline or new/used motor oil. A summary of the groundwater analytical results is provided in Table 2. A distribution map of dissolved benzene, TPH-g, and MTBE concentrations is provided in Figure 2.

Laboratory reports and chain-of-custody documents are provided in Attachment 4.

Concentrations of dissolved petroleum hydrocarbons and halogenated volatile organics have been generally declining in most wells since monitoring began in 1995; however, in well MW-7, BTEX concentrations since August 1, 2000 remain higher than during previous quarters. Nondetectable to very low levels of dissolved BTEX and TPH-g concentrations in downgradient wells MW-8 and MW-9 indicate that the downgradient limit of the dissolved gasoline plume is within the site's boundaries.

The source of the dissolved chlorinated hydrocarbons at the subject site is not known; however, TCE and some of the other constituents may be breakdown products of PCE. In a recent study performed by Harding ESE, Inc. (Harding) for the Oakland Uptown Development Project as part of a city revitalization effort, a vicinity map was produced that shows that the highest dissolved PCE concentrations (more than 100 µg/L) occur upgradient (west) of the Sears site. A copy of the Harding study map showing approximate PCE plume concentrations across the Sears site (southern portion of Parcels 1 and 2) and the surrounding adjacent area is presented in Attachment 5 of this report. A table accompanying the study map (Attachment 5), also prepared by Harding as part of their study effort, lists sites with known and potential environmental issues, including sites within the PCE groundwater plume. Although the information provided in the study does not indicate a known source of the solvents at this time, it is our opinion, based on the information provided in Attachment 5, that the source of the solvents is upgradient of the Sears site and caused by parties other than Sears.

All site-related monitoring wells will continue to be sampled on a quarterly basis.

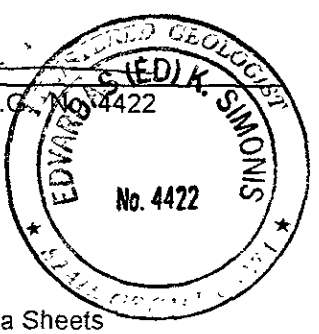
If you have comments or questions, please contact David Bero at (925) 288-2024.

Sincerely,
IT CORPORATION
Submitted by:

Leonard J Mason
Project Geologist

IT CORPORATION
Approved by:

Ed K. Simonis, R.G., No. 4422
Senior Geologist



Attachments:

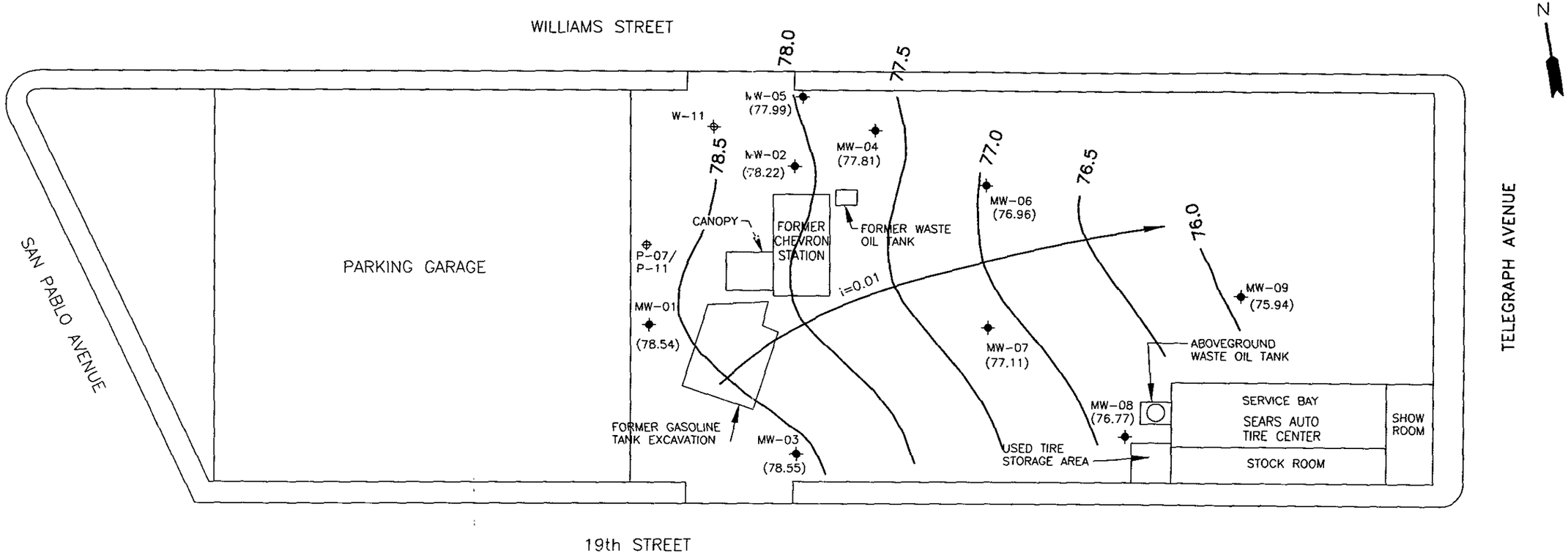
1. *Figures*
2. Tables
3. *Groundwater Monitoring and Sample Collection Protocol and Field Data Sheets*
4. Laboratory Reports and Chain-of-Custody Documents
5. City of Oakland Study

c: Mr. Scott M. DeMuth, Manager, Environmental Technical Services, Sears, Roebuck and Co.
IT Corporation Central Files
Project File

Attachment 1

Figures

DRAWING NUMBER	APPROVED BY	CHECKED BY	DRAWN BY	OFFICE	X-REF	IMAGE
803686-B11			SJZ 04/22/02	CONCORD	---	---



LEGEND

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

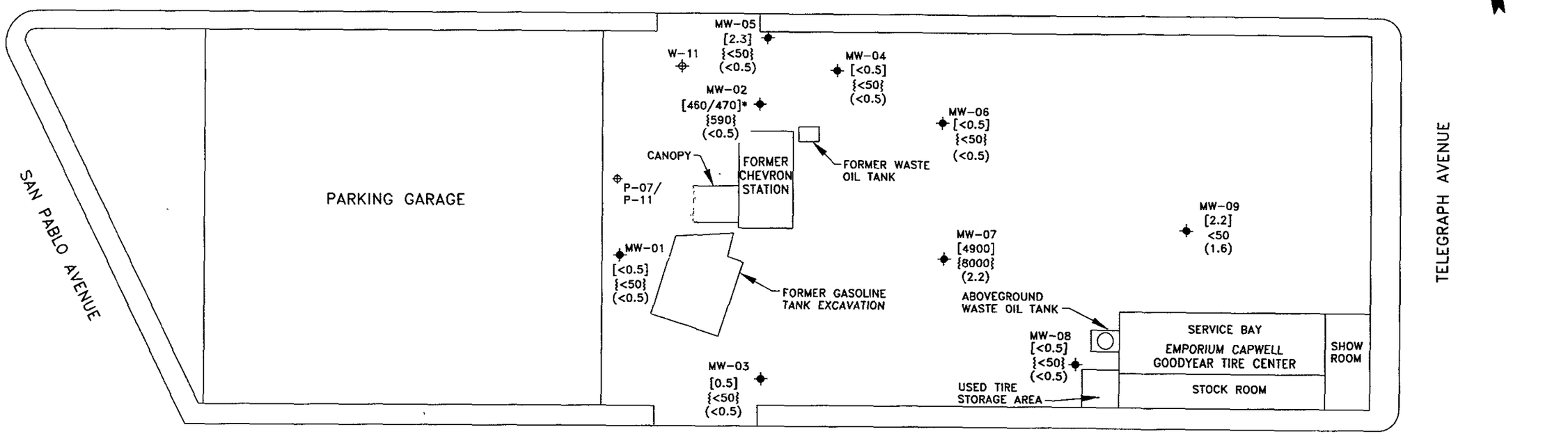
0 FEET 50
SCALE

IT CORPORATION

SEARS, ROEBUCK & CO.
SITE NO. 1039

FIGURE-1
POTENTIOMETRIC SURFACE MAP
(GAUGED 11/02/2001)
1901-1911 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA

IMAGE	X-REF	OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
---	---	CONCORD	SJZ 04/22/02			803686-B12



LEGEND

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

0 FEET 50
SCALE

IT CORPORATION

SEARS, ROEBUCK & CO.
SITE NO. 1039

FIGURE-2
CONCENTRATIONS OF BENZENE
TPH-AS-GASOLINE & MTBE
IN GROUNDWATER
(SAMPLED 11/02/01)
1901-1911 TELEGRAPH AVENUE
OAKLAND, CALIFORNIA

Attachment 2

Tables

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

Sears Store 1039
1911 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-1	94 34	06/12/1996	16.21	–	–	78.13
		09/05/1996	16 89	–	–	77.45
		12/03/1996	17.07	–	–	77 27
		02/27/1997	15.55	–	–	78.79
		06/10/1997	16 46	–	–	77 88
		08/27/1997	16.97	–	–	77.37
		11/26/1997	17.24	–	–	77.10
		02/11/1998	16 07	–	–	78 27
		05/19/1998	15 43	–	–	78 91
		08/10/1998	15.98	–	–	78 36
		11/09/1998	16 63	–	–	77.71
		02/11/1999	16.55	–	–	77 79
		05/10/1999	15 50	–	–	78.84
		08/09/1999	15.82	–	–	78 52
		11/05/1999	16 29	–	–	78 05
		02/01/2000	16 02	–	–	78.32
		05/02/2000	14 48	–	–	79 86
		08/01/2000	15.20	–	–	79.14
		11/06/2000	15.63	–	–	78.71
		02/16/2001	15 45	–	–	78.89
		04/27/2001	14.86	–	–	79 48
		07/24/2001	–	–	–	–
		11/02/2001	15.80	–	–	78 54
MW-2	93.95	06/12/1996	16.01	–	–	77.94
		09/05/1996	16.66	–	–	77.29
		12/03/1996	16.20	–	–	77.75
		02/27/1997	14.46	–	–	79 49
		06/10/1997	14 00	–	–	79.95
		08/27/1997	16 55	–	–	77 40
		11/26/1997	16 86	–	–	77.09
		02/11/1998	15.85	–	–	78 10
		05/19/1998	15 32	–	–	78.63
		08/10/1998	15.82	–	–	78 13
		11/09/1998	16 53	–	–	77.42
		02/11/1999	16.38	–	–	77 57
		05/10/1999	15 19	–	–	78 76
		08/09/1999	16.09	–	–	77.86
		11/05/1999	16 20	–	–	77 75
		02/01/2000	16.00	–	–	77.95
		05/02/2000	14.90	–	–	79 05
		08/01/2000	15.25	–	–	78.70
		11/06/2000	15 45	–	–	78 50
		02/16/2001	15.50	–	–	78 45
		04/27/2001	14 83	–	–	79.12
		07/24/2001	15.18	–	–	78 77
		11/02/2001	15.73	–	–	78.22
MW-3	96 15	06/12/1996	17 56	–	–	78.59
		09/05/1996	18.32	–	–	77 83
		12/03/1996	18 57	–	–	77.58
		02/27/1997	17.43	–	–	78 72
		06/10/1997	18 12	–	–	78.03
		08/27/1997	18.47	–	–	77 68
		11/26/1997	18 70	–	–	77.45
		02/11/1998	17.76	–	–	78 39
		05/19/1998	16.99	–	–	79.16
		08/10/1998	17.51	–	–	78 64
		11/09/1998	18 07	–	–	78.08
		02/11/1999	18.07	–	–	78 08
		05/10/1999	17 04	–	–	79.11
		08/09/1999	17.77	–	–	78 38
		11/05/1999	18 00	–	–	78 15
		02/01/2000	17.95	–	–	78.20
		05/02/2000	16 83	–	–	79 32
		08/01/2000	17.13	–	–	79.02
		11/06/2000	17.54	–	–	78 61
		02/16/2001	17.42	–	–	78.73

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

Sears Store 1039
1911 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-3 (continued)		04/27/2001	16.80	--	--	79.35
		07/24/2001	17.08	--	--	79.07
		11/02/2001	17.60	--	--	78.55
MW-4	92.01	06/12/1996	14.21	--	--	77.80
		09/05/1996	14.83	--	--	77.18
		12/03/1996	13.99	--	--	78.02
		02/27/1997	12.44	--	--	79.57
		06/10/1997	14.20	--	--	77.81
		08/27/1997	14.62	--	--	77.39
		11/26/1997	15.00	--	--	77.01
		02/11/1998	14.10	--	--	77.91
		05/19/1998	13.57	--	--	78.44
		08/10/1998	14.10	--	--	77.91
		11/09/1998	14.75	--	--	77.26
		02/11/1999	14.57	--	--	77.44
		05/10/1999	13.46	--	--	78.55
		08/09/1999	14.15	--	--	77.86
		11/05/1999	14.62	--	--	77.39
		02/01/2000	14.50	--	--	77.51
		05/02/2000	13.40	--	--	78.61
		08/01/2000	13.70	--	--	78.31
		11/06/2000	14.00	--	--	78.01
		02/16/2001	13.65	--	--	78.36
		04/27/2001	13.40	--	--	78.61
		07/24/2001	13.69	--	--	78.32
		11/02/2001	14.20	--	--	77.81
MW-5	92.09	06/12/1996	14.13	--	--	77.96
		09/05/1996	14.77	--	--	77.32
		12/03/1996	13.99	--	--	78.10
		02/27/1997	12.08	--	--	80.01
		06/10/1997	16.00	--	--	76.09
		08/27/1997	14.55	--	--	77.54
		11/26/1997	14.95	--	--	77.14
		02/11/1998	13.97	--	--	78.12
		05/19/1998	13.52	--	--	78.57
		08/10/1998	13.97	--	--	78.12
		11/09/1998	14.67	--	--	77.42
		02/11/1999	14.50	--	--	77.59
		05/10/1999	13.23	--	--	78.86
		08/09/1999	13.90	--	--	78.19
		11/05/1999	14.40	--	--	77.69
		02/01/2000	14.15	--	--	77.94
		05/02/2000	13.10	--	--	78.99
		08/01/2000	13.52	--	--	78.57
		11/06/2000	13.93	--	--	78.16
		02/16/2001	13.75	--	--	78.34
		04/27/2001	12.95	--	--	79.14
		07/24/2001	13.46	--	--	78.63
		11/02/2001	14.10	--	--	77.99
MW-6	92.16	06/12/1996	14.99	--	--	77.17
		09/05/1996	15.50	--	--	76.66
		12/03/1996	15.07	--	--	77.09
		02/27/1997	14.14	--	--	78.02
		06/10/1997	15.30	--	--	76.86
		08/27/1997	15.42	--	--	76.74
		11/26/1997	15.70	--	--	76.46
		02/11/1998	14.87	--	--	77.29
		05/19/1998	14.32	--	--	77.84
		08/10/1998	14.90	--	--	77.26
		11/09/1998	15.39	--	--	76.77
		02/11/1999	15.21	--	--	76.95
		05/10/1999	14.12	--	--	78.04
		08/09/1999	15.00	--	--	77.16
		11/05/1999	15.55	--	--	76.61
		02/01/2000	15.40	--	--	76.76
		05/02/2000	14.55	--	--	77.61
		08/01/2000	14.85	--	--	77.31
		11/06/2000	15.10	--	--	77.06
		02/16/2001	14.93	--	--	77.23
		04/27/2001	14.40	--	--	77.76
		07/24/2001	14.68	--	--	77.48
		11/02/2001	15.20	--	--	76.96

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

Sears Store 1039
1911 Telegraph Avenue, Oakland, California

Well ID	Casing Elevation	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
MW-7	93 80	06/12/1996	16 56	--	--	77 24
		09/05/1996	17.10	--	--	76.70
		12/03/1996	17 12	--	--	76.68
		02/27/1997	16.20	--	--	77.60
		06/10/1997	17.00	--	--	76.80
		08/27/1997	17.18	--	--	76.62
		11/26/1997	17.40	--	--	76 40
		02/11/1998	16 65	--	--	77.15
		05/19/1998	15 96	--	--	77 84
		08/10/1998	16.48	--	--	77.32
		11/09/1998	16.98	--	--	76.82
		02/11/1999	16 94	--	--	76.86
		05/10/1999	15.87	--	--	77.93
		08/09/1999	16.60	--	--	77.20
		11/05/1999	17.01	--	--	76 79
		02/01/2000	17.00	--	--	76.80
		05/02/2000	16 00	-	-	77.80
		08/01/2000	16 40	-	-	77 40
		11/06/2000	16.67	-	-	77.13
		02/16/2001	16 60	-	-	77.20
		04/27/2001	16.00	-	-	77 80
		07/24/2001	16.22	-	-	77.58
		11/02/2001	16 69	-	-	77 11
MW-8	94 49	11/05/1999	18 15	--	--	76 34
		02/01/2000	18.10	--	--	76.39
		05/02/2000	17 26	--	--	77.23
		08/01/2000	17.52	--	--	76.97
		11/06/2000	17.83	--	--	76.66
		02/16/2001	17.74	--	--	76 75
		04/27/2001	17.10	--	--	77.39
		07/24/2001	17 33	--	--	77 16
		11/02/2001	17.72	--	--	76.77
MW-9	92 54	11/05/1999	16.86	--	--	75 68
		02/01/2000	16.70	--	--	75.84
		05/02/2000	16.02	--	--	76 52
		08/01/2000	16 34	--	--	76.20
		11/06/2000	16.55	--	--	75 99
		02/16/2001	16.31	--	--	76.23
		04/27/2001	15.90	--	--	76 64
		07/24/2001	16.19	--	--	76.35
		11/02/2001	16 60	--	--	75 94

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

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

Sears Store 1039
1911 Telegraph Avenue, Oakland, California

Well ID	Date Sampled	MTBE	Benzene	Toulene	Ethyl-benzene	Total Xylenes	TPH as Gasoline	PCE	TCE	1,2-DCA	cis-1 2 DCE	1,1-DCE	OIL/ GREASE
MW-1	10/01/1995	--	ND	ND	ND	ND	<50	9.9	ND	ND	--	--	--
	01/01/1996	--	ND	ND	ND	ND	<50	9 9	14	ND	--	--	--
	06/12/1996	--	<0.5	1.4	<0 5	<2	<50	12	<0 5	<0 5	--	--	--
	09/05/1996	<5.0	<0.5	<0.5	<0.5	<2	<50	12	<0.5	<0.5	--	--	--
	12/03/1996	<5 0	<0.5	<0 5	<0 5	<2	<50	<0 5	<0 5	<0 5	<0.5	<0.5	--
	02/27/1997	<5 0	<0.5	<0.5	<0 5	<2	<50	31	1 3	<0.5	<0.5	<0.5	--
	06/10/1997	<5.0	<0.5	<0 5	<0 5	<2	<50	19	<0.5	<0 5	<0.5	<0 5	--
	08/27/1997	<5 0	<0 5	<0 5	<0 5	<2	<50	16	<0 5	<0 5	<0 5	<0.5	--
	11/26/1997	<5.0	<0.5	<0.5	<0.5	<2	<50	17	<0.5	<0.5	<0.5	<0.5	--
	02/11/1998	<5 0	<0 5	<0 5	<0 5	<3	<50	20	<0.5	<0 5	<0 5	<0 5	--
	05/19/1998	<5.0	<0 5	<0 5	<0.5	<4	<50	14	<0 5	<0.5	<0.5	<0.5	--
	08/10/1998	<2.5	<0.5	<0.5	<0.5	<5	<50	14	<0.5	<0.5	<0.5	<0.5	--
	11/09/1998	3 1	<0 5	<0 5	<0 5	<0.5	<50	16	<0.5	<0 5	<0 5	<0.5	--
	02/08/1999	<2 5	<0.5	<0.5	<0.5	<5	<50	<0.5	20	<0.5	<0.5	<0.5	--
	05/10/1999	<2 5	<0 5	<0.5	<0 5	<0 5	<50	14	<0.5	<0.5	<0.5	<0.5	--
	08/09/1999	<2.5	<0.5	<0.5	<0.5	<0.5	<50	14	<0.5	<0.5	<0.5	<0 5	--
	11/05/1999	<2.5	<0 5	<0 5	<0 5	<0.5	<50	20	<0 5	<0.5	<0.5	<0.5	--
	02/01/2000	<0.5	<0 5	<0 5	<0.5	<0.5	<50	24	<0 5	<0 5	<0 5	<0 5	--
	05/02/2000	<0 5	<0.5	<0.5	<0.5	<0 5	<50	23	<0 5	<0 5	<0 5	<0.5	--
	08/01/2000	<0 5	<0 5	<0 5	<0 5	<0 5	<50	21	0.5	<0.5	<0.5	<0.5	--
	11/06/2000	<0.5	<0.5	<0.5	<0.5	<0.5	<50	31	<0.5	<0 5	<0.5	<0 5	--
	02/16/2001	<0 5	<0.5	<0 5	<0 5	<0 5	<50	32	0 7	<0.5	<0.5	<0.5	--
	04/27/2001	<0.5	<0.5	<0.5	<0.5	<0.5	<50	33	<0 5	<0 5	<0 5	<0.5	--
	07/24/2001	--	--	--	--	--	--	--	--	--	--	--	--
	11/02/2001	<0.5	<0 5	<0.5	<0.5	<0.5	<50	36	0 9	<0.5	<0 5	<0 5	--
MW-2	10/01/1995	--	1,200	5 4	41	5.9	2,900	ND	40	280	--	--	--
	01/01/1996	--	1,100	11 0	100	6 9	780	ND	38	270	--	--	--
	06/12/1996	--	890	7 0	56	10	3,600	<3	40	160	--	--	--
	09/05/1996	<5.0	350	3 0	17	10	2,100	<0.5	29	55	1 9	55	--
	12/03/1996	40	230	2 4	7.8	7	1,100	<0 5	20	86	7	<0 5	--
	02/27/1997	12	210	2 2	6	3	1,000	1	25	43	<0 5	<0 5	--
	06/10/1997	<30	510	3.0	6	<10	1.8	1	19	47	4 9	<0 5	--
	08/27/1997	11	51	<0.5	1.4	<2	450	0.5	16	29	4.2	<0.5	--
	11/26/1997	<30	380	5.0	9	12	1,200	1	13	29	3.1	<0.5	--
	02/11/1998	8	310	4.0	9 8	9	1,100	<0.5	16	<0.5	2.6	0.6	--
	05/19/1998	20	320	2.1	9 9	8	1,200	1	14	47	1 6	<0.5	--
	08/10/1998	40	37	1 0	1.2	0.9	300	<0 5	11	30	2 4	<0.5	--
	11/09/1998	<2 5	57	<0 5	1 7	<0 5	440	<0.5	12	25	2 3	<0 5	--
	02/08/1999	11	240	2 3	8.9	5	480	<0 5	11	36	1 4	<0.5	--
	05/10/1999	24/<2 0	260	2.2	7.9	4 2	260	<0.5	7	24	3 4	<0.5	--
	08/09/1999	14/<2.0	43	0.79	0 54	<0.5	250	<0 5	11	33	2.6	<0 5	--
	11/05/1999	11/<2 0	63	0 68	0.65	1 1	320	<0 5	13	41	1.3	<0 5	--
	02/01/2000	<0 5	610/ 590*	4.4/ 6 3*	63/ 65*	5.9/ 7.1*	1200	<0 5	15	73	2	<0 5	--
	05/02/2000	<0 5	540/600*	3.7/<5 0*	15/14*	14/11*	930	<0 5	8.4	32	4.5	<0 5	--
	08/01/2000	<0 5	110	1.2	4 8	1 6	410	<0.5	9 4	23	2.9	<0.5	--
	11/06/2000	20	150/130*	09/ 09*	4 1/3 7*	1 1/1 0*	450	<0 5	10	20	1 6	<0.5	--
	02/16/2001	<0 5	360/390*	4.4/4 1*	19/17*	8 6/8.1*	640	<0.5	11	19	2.5	<0.5	--
	04/27/2001	<0.5	450/510	3 3/3 5	8.4/10	6.3/7.2	770	<0.5	4 4	11	4 0	<0.5	--
	07/24/2001	<0 5	130/120	1 7/1.6	8 8/8 1	6.5/5 8	480	<0 5	7.2	15	3 0	<0.5	--
	11/02/2001	<0.5	460/470	2.4/2 6	11-Oct	8.9/9 2	590	<0.5	7.6	12	1.6	<0 5	
MW-3	10/01/1995	--	ND		ND	ND	<50	ND	ND	ND	--	--	--
	01/01/1996	--	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
	06/12/1996	--	<0 5	<0 5	<0 5	<2	<50	<0 5	<0 5	<0 5	--	--	<0 5
	09/05/1996	<5 0	<0.5	<0.5	<0 5	<2	<50	<0.5	<0 5	<0.5	--	--	<0.5
	12/03/1996	<5.0	<0.5	<0 5	<0.5	<2	<50	2.3	<0.5	<0 5	<0 5	<0.5	--
	02/27/1997	<5.0	<0.5	<0.5	<0 5	<2	<50	6 3	<0.5	<0.5	<0.5	<0.5	--
	06/10/1997	<5 0	<0 5	<0 5	<0.5	<2	<50	5.9	<0.5	<0 5	<0 5	<0.5	--
	08/27/1997	<5 0	<0.5	<0.5	<0 5	<2	<50	5.8	<0 5	<0.5	<0 5	<0.5	--
	11/26/1997	<5 0	<0.5	<0 5	<0.5	<2	<50	7 9	<0.5	<0.5	<0.5	<0.5	--
	02/11/1998	<5.0	<0.5	<0 5	<0 5	<2	<50	7.9	<0 5	<0 5	<0 5	<0.5	--
	05/19/1998	<5 0	<0 5	<0 5	<0.5	<2	<50	5.5	<0.5	<0.5	<0.5	<0 5	--
	08/10/1998	<2.5	<0.5	<0.5	<0 5	<0.5	<50	<0 5	<0 5	<0 5	<0 5	<0 5	--
	11/09/1998	<2 5	<0 5	<0.5	<0.5	<0 5	<50	5 5	<0.5	<0.5	<0.5	<0 5	--
	02/08/1999	<2.5	<0 5	<0 5	<0 5	<0.5	<50	6.4	<0.5	<0 5	<0 5	<0.5	--
	05/10/1999	<2 5	<0 5	<0 5	<0.5	<0.5	<50	5 1	<0.5	<0.5	<0.5	<0 5	--
	08/09/1999	<2.5	<0.5	<0.5	<0 5	<0.5	<50	4.8	<0.5	<0 5	<0.5	<0.5	--
	11/05/1999	<2 5	<0 5	<0.5	<0.5	<0 5	<50	7 2	<0.5	<0.5	<0.5	<0 5	--
	02/01/2000	<0.5	<0.5	<0.5	<0.5	<0.5	<50	6.9	<0 5	<0 5	<0 5	<0.5	--
	05/02/2000	<0 5	<0 5	<0.5	<0.5	<0.5	<50	6 4	<0.5	<0.5	<0.5	<0 5	--
	08/01/2000	<0.5	<0 5	<0 5	<0.5	<0.5	<50	5.6	<0.5	<0 5	<0 5	<0.5	--
	11/06/2000	<0 5	<0 5	<0.5	<0 5	<0 5	<50	7.9	<0.5	<0.5	<0.5	<0.5	--
	02/16/2001	<0.5	<0 5	<0 5	<0.5	<0.5	<50	8 9	<0.5	<0.5	<0.5	<0 5	--
	04/27/2001	<0 5	<0 5	<0.5	<0 5	<0 5	<50	8.1	<0 5	<0 5	<0.5	<0.5	--

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

Sears Store 1039
1911 Telegraph Avenue, Oakland, California

Well ID	Date Sampled	MTBE	Benzene	Toulene	Ethyl-benzene	Total Xylenes	TPH as Gasoline	PCE	TCE	1 2-DCA	cis-1,2 DCE	1,1-DCE	OIL/ GREASE
MW-3 (cont'd)	07/24/2001	<0.5	<0 5	<0.5	<0.5	<0 5	<50	11	<0 5	<0 5	<0.5	<0.5	--
	11/02/2001	<0.5	<0.5	<0 5	<0 5	<0.5	<50	15	1.1	<0.5	<0.5	<0 5	
MW-4	10/01/1995	--	4.1	ND	ND	ND	<50	ND	ND	ND	--	--	--
	01/01/1996	--	5.8	ND	ND	ND	<50	ND	ND	ND	--	--	--
	06/12/1996	--	11	<0.5	<0.5	<2	320	<0.5	<0.5	<0.5	--	--	<0 5
	09/05/1996	--	5.6	<0.5	<0 5	<2	70	<0.5	<0 5	<0.5	<0.5	<0.5	<0 5
	12/03/1996	15	11	<0.5	<0.5	<2	270	<0 5	<0.5	0 9	<0 5	<0.5	<0.5
	02/27/1997	<5.0	3 1	<0.5	<0.5	<2	190	<0.5	<0 5	<0 5	<0.5	<0.5	<500
	06/10/1997	<5.0	11	<0 5	<0 5	<2	200	<0 5	<0.5	<0.5	<0 5	<0 5	--
	08/27/1997	<5.0	9 6	<0.5	<0.5	<2	170	<0 5	<0.5	<0.5	<0 5	<0 5	<0.5
	11/26/1997	<5.0	6.7	<0 5	<0 5	<2	100	<0.5	<0.5	<0 5	<0.5	<0.5	<500
	02/11/1998	<5.0	8.4	<0.5	<0.5	<2	110	<0 5	<0 5	<0.5	<0 5	<0.5	<500
	05/19/1998	7	4.6	<0.5	<0.5	<2	110	<0.5	<0.5	<0 5	<0 5	<0.5	<500
	08/10/1998	11	4.1	<0 5	<0.5	<0.5	110	<0 5	<0 5	<0 5	<0.5	<0.5	9,600
	11/09/1998	<2.5	7 5	<0.5	<0.5	<0 5	130	<0 5	<0.5	<0.5	<0 5	<0.5	<500
	02/08/1999	<2 5	6 8	<0 5	<0 5	<0.5	60	<0.5	<0.5	<0 5	<0 5	<0 5	<500
	05/10/1999	<2.0	1 3	<0.5	<0.5	<0.5	61	<0 5	<0.5	<0 5	<0.5	<0 5	<5000
	08/09/1999	3.9/<2.0*	7.9	<0.5	<0.5	<0 5	94	<0 5	<0 5	<0.5	<0 5	<0.5	<1000
	11/05/1999	<2.5	9.0	<0 5	<0 5	<0.5	<50	<0.5	<0.5	<0 5	<0.5	<0.5	--
	02/01/2000	<0.5	18	<0.5	<0.5	<0 5	150	<0.5	<0 5	<0.5	<0.5	<0.5	800
	05/02/2000	<0 5	8.5	<0 5	<0.5	<0.5	55	<0.5	<0.5	<0.5	<0 5	<0 5	<1000
	08/01/2000	<0.5	0 9	<0 5	<0.5	<0.5	<50	<0 5	<0.5	<0 5	<0.5	<0 5	<1000
	11/06/2000	<0 5	22	<0.5	<0 5	<0 5	88	<0.5	<0.5	<0.5	<0 5	<0.5	<1000
	02/16/2001	<0.5	16	<0.5	<0.5	<0 5	55	<0.5	<0.5	<0 5	<0.5	<0 5	<1000
	04/27/2001	<0.5	0.7	<0.5	<0.5	<0 5	<50	<0 5	<0.5	<0.5	<0 5	<0.5	<1000
	07/24/2001	<0 5	0.7	<0 5	<0 5	<0.5	<50	<0.5	<0.5	<0 5	<0.5	<0.5	<1000
	11/02/2001	<0.5	<0 5	<0 5	<0 5	<0.5	<50	<0 5	<0 5	<0.5	<0 5	<0.5	<1000
MW-5	10/01/1995	--	86	ND	ND	ND	260	ND	ND	ND	--	--	--
	01/01/1996	--	160	3.6	ND	ND	180	ND	ND	ND	--	--	--
	06/12/1996	--	54	1 1	<0.5	<2	260	<0 5	<0 5	<0 5	--	--	--
	09/05/1996	<5 0	22	1 0	<0 5	<2	160	<0.5	<0.5	<0 5	--	--	--
	12/03/1996	6	18	0 6	<0 5	<2	170	<0 5	<0 5	<0 5	<0.5	<0.5	--
	02/27/1997	<5	74	2 0	<0.5	<2	230	<0.5	<0.5	<0.5	<0 5	<0.5	--
	06/10/1997	<30	490	19 0	<3.0	<10	1,200	<0.5	<0 5	<0.5	<0 5	<0 5	--
	08/27/1997	<5.0	100	4.6	<0 5	<2	340	<0.5	<0.5	<0 5	<0 5	<0.5	--
	11/26/1997	<5 0	78	4.5	0.6	<2	400	<0 5	<0 5	<0 5	<0.5	<0.5	--
	02/11/1998	<5.0	62	2.9	<0.5	<2	320	<0.5	<0.5	<0 5	<0 5	<0 5	--
	05/19/1998	<5 0	97	2.6	<0.5	<2	330	<0 5	<0 5	<0 5	<0 5	<0.5	--
	08/10/1998	11	48	1 9	<0.5	<0 5	190	<0 5	<0 5	<0.5	<0 5	<0.5	--
	11/09/1998	<2 5	3 8	<0.5	<0 5	<0 5	81	<0.5	<0.5	<0 5	<0 5	<0 5	--
	02/08/1999	3.8	3	<0 5	<0.5	<0.5	82	<0 5	<0 5	<0.5	<0 5	<0.5	--
	05/10/1999	2 6/<2 0*	8 8	<0.5	<0.5	<0 5	<50	<0 5	<0.5	<0 5	<0 5	<0.5	--
	08/09/1999	5.6<2 0*	25	<0 5	<0.5	<0 5	150	<0.5	<0.5	<0 5	<0.5	<0 5	--
	11/05/1999	4 3/<2 0*	20	<0.5	<0.5	0 76	160	<0 5	<0 5	<0 5	<0.5	<0 5	--
	02/01/2000	<0 5	42	1.2	<0 5	<0 5	180	<0 5	<0.5	<0 5	<0.5	<0.5	--
	05/02/2000	<0.5	12	0 7	<0 5	<0.5	120	<0.5	<0 5	<0.5	<0.5	<0 5	--
	08/01/2000	<0 5	11	<0 5	<0.5	<0 5	69	<0 5	<0 5	<0.5	<0 5	<0.5	--
	11/06/2000	<0 5	7 0	<0.5	<0 5	<0.5	72	<0.5	<0.5	<0 5	<0.5	<0 5	--
	02/16/2001	<0 5	1.6	<0.5	<0.5	<0 5	<50	<0 5	<0 5	<0.5	<0 5	<0.5	--
	04/27/2001	<0.5	3 1	<0 5	<0 5	<0 5	<50	<0 5	<0 5	<0 5	<0.5	<0 5	--
	07/24/2001	<0 5	3 8	<0.5	<0.5	<0 5	<50	<0 5	<0.5	<0.5	<0 5	<0.5	--
	11/02/2001	<0.5	2.3	<0 5	<0 5	<0 5	<50	<0 5	<0 5	<0.5	<0.5	<0 5	
MW-6	10/01/1995	--	ND	ND	ND	ND	<50	6.2	11	33	--	--	--
	01/01/1996	--	ND	ND	ND	ND	<50	7.2	12	5.3	--	--	--
	06/12/1996	--	<0.5	<0.5	<0.5	<2	<50	3 6	5	7 9	--	--	<0.5
	09/05/1996	<5	0.8	<0.5	<0 5	<2	<50	5.4	5.2	7 5	--	--	<0.5
	12/03/1996	<5	<0.5	<0.5	<0.5	<2	<50	0 9	0 6	0.5	<0.5	<0 5	<0 5
	02/27/1997	<5	<0 5	<0 5	<0 5	<2	<50	1 3	0.5	<0.5	<0 5	<0.5	<500
	06/10/1997	<5	0.9	<0.5	<0.5	<2	<50	1	<0 5	<0 5	<0 5	<0.5	--
	08/27/1997	<5	<0.5	<0 5	<0.5	<2	<50	0 9	<0.5	<0.5	<0.5	<0 5	<0 5
	11/26/1997	7.6	15	0 9	9.1	<2	320	1.2	0 6	0 8	<0 5	<0.5	<500
	02/11/1998	<5	<0 5	<0 5	<0.5	<2	<50	0 7	<0 5	0.5	<0.5	<0.5	<500
	05/19/1998	<5	0 6	<0.5	<0.5	<2	<50	0.6	<0 5	<0.5	<0 5	<0.5	<500
	08/10/1998	<2.5	<0.5	<0 5	<0.5	<0 5	<50	0 5	0 59	1.3	<0.5	<0 5	9,000
	11/09/1998	<2.5	<0.5	<0.5	<0.5	<0.5	<50	1.2	0.92	1 7	<0 5	<0.5	<500
	02/08/1999	<2.5	<0.5	<0.5	<0 5	<0.5	<50	0.86	<0.5	1.2	<0.5	<0.5	<500
	05/10/1999	<2 5	<0.5	<0.5	<0.5	<0.5	<50	<0 5	<0 5	<0 5	<0 5	<0.5	<5000
	08/09/1999	<2.5	<0.5	<0.5	<0.5	<0.5	<50	0.52	<0.5	<0 5	<0.5	<0 5	<1000
	11/05/1999	<2.5	<0.5	<0.5	<0.5	<0.5	<50	0 89	0.89	1.2	<0.5	<0.5	--
	02/01/2000	<0.5	<0 5	<0.5	<0.5	<0.5	<50	1.2	0 9	2.2	<0 5	<0.5	<1000
	05/02/2000	<0 5	<0.5	<0 5	<0 5	<0 5	<50	2 6	0 8	1.3	<0.5	<0.5	<1000
	08/01/2000	<0.5	<0 5	<0.5	<0.5	<0.5	<50	0.8	0.9	2 3	<0 5	<0.5	<1000
	11/06/2000	<0 5	<0.5	<0 5	<0 5	<0.5	<50	0 9	0 9	3.3	<0.5	<0.5	<1000

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

Sears Store 1039
1911 Telegraph Avenue, Oakland, California

Well ID	Date Sampled	MTBE	Benzene	Toulene	Ethyl-benzene	Total Xylenes	TPH as Gasoline	PCE	TCE	1,2-DCA	cis-1,2 DCE	1,1-DCE	OIL/ GREASE
MW-6	02/16/2001	<0.5	<0 5	<0.5	<0.5	<0.5	<50	0.9	1 1	6.2	<0 5	<0.5	<1000
(cont'd)	04/27/2001	<0.5	<0 5	<0.5	<0 5	<0.5	<50	0 7	0.7	3 9	<0.5	<0.5	<1000
	07/24/2001	<0.5	<0.5	<0 5	<0 5	<0.5	<50	0.6	1	4 8	<0.5	<0 5	<1000
	11/02/2001	<0.5	<0.5	<0.5	<0.5	<0.5	<50	0.9	1.5	6 1	<0 5	<0.5	<1000
MW-7	10/01/1995	–	ND	ND	ND	ND	<50	5.3	3 5	8 3	–	–	–
	01/01/1996	–	ND	ND	ND	ND	<50	9.3	4.8	5.7	–	–	–
	06/12/1996	–	0 6	<0 5	<0 5	<2	<50	6 1	3.4	2.9	–	–	–
	09/05/1996	<5	1.2	<0.5	<0 5	<2	<50	8.3	4 2	5 9	–	–	–
	12/03/1996	<5	850	<5	<5	30	120	4	4	75	<3	<3	<0.5
	02/27/1997	<30	1500	3 0	23	<10	2,500	2	4	65	<0 5	<0.5	–
	06/10/1997	<50	1700	<5	59	<20	3,200	2	4 2	85	<0.5	<0.5	–
	08/27/1997	90	1700	8.0	200	40	3,900	<3	5	93	<3	<3	–
	11/26/1997	90	3,100	15 0	190	30	5,600	3	5.9	120	1	<0.5	–
	02/11/1998	90	3,800	25.0	250	80	8,500	4	8 9	93	1.2	<0.5	–
	05/19/1998	300	2,100	440 0	150	220	5,000	2	3 8	74	0 6	<0 5	–
	08/10/1998	<50	690	<10	13	<10	1,600	<2.5	3.3	100	<2 5	<2.5	–
	11/09/1998	8 7	295	5.5	4.3	1 5	930	4 2	6.5	110	<2.5	<2.5	–
	02/08/1999	<50	670	<10	14	<10	1,500	6	3 4	74	<1.2	<1 2	–
	05/10/1999	63/<2 0*	1,800	16.0	81	130	2,800	1	2.6	65	0 63	<0.5	–
	08/09/1999	300/6.5*	570	5.1	28	30	1,500	<0 5	1.2	95	0.57	<0.5	–
	11/05/1999	150/11*	1,200	<5	61	25	2,100	4	7 8	95	1 6	<0 5	–
	02/01/2000	6 6	2,600	16.0	140	210	4,600	3	6	110	1.7	<0 5	–
	05/02/2000	<5 0	2,700	25	80	270	4,200	<5.0	<5 0	84	<5.0	<5.0	–
	08/01/2000	<10	5,500	27	300	390	5,600	<10	<10	85	<10	<10	–
	11/06/2000	<10	3,400	29	230	330	6,000	<10	<10	66	<10	<10	–
	02/16/2001	3.1	3,400	27	200	290	4,400	<2	<2	60	<2	<2	–
	04/27/2001	2 7	6,000	44	390	620	6,100	<2 5	<2.5	37	<2.5	<2.5	–
	07/24/2001	<2 0	4,500	16	390	840	6,000	<2 0	<2.0	39	<2 0	<2 0	–
	11/02/2001	2.2	4,900	11	230	480	8,000	1.2	2 7	34	0.8	<0.5	
MW-8	11/05/1999	<2 5	<0.5	<0 5	<0.5	<0 5	<50	6 2	<0 5	<0.5	<0 5	<0 5	–
	02/01/2000	<0.5*	0.6	<0.5	<0 5	<0.5	<50	7 8	<0 5	<0.5	<0.5	<0.5	–
	05/02/2000	<0 5*	1.1	<0 5	<0.5	<0 5	<50	5 9	<0 5	<0 5	<0 5	<0.5	–
	08/01/2000	<0 5	<0.5	<0 5	<0 5	<0 5	<50	5 6	<0 5	<0 5	<0 5	<0.5	–
	11/06/2000	<0.5	1.3	<0.5	<0 5	<0.5	<50	5.5	<0 5	<0 5	<0.5	<0 5	–
	02/16/2001	<0 5	<0.5	<0 5	<0 5	<0.5	<50	6 0	<0 5	<0 5	<0 5	<0 5	–
	04/27/2001	<0.5	<0 5	<0.5	<0 5	<0.5	<50	4 2	<0.5	<0 5	<0 5	<0 5	–
	07/24/2001	<0.5	<0.5	<0 5	<0.5	<0 5	<50	4.9	<0 5	<0 5	<0 5	<0 5	–
	11/02/2001	<0 5	<0 5	<0.5	<0 5	<0.5	<50	4 3	<0 5	<0.5	<0 5	<0.5	
MW-9	11/05/1999	3/2 4*	<0.5	<0 5	<0 5	<0 5	<50	65	29	32	<0 5	<0 5	–
	02/01/2000	3 0*	2.6	<0.5	<0 5	<0 5	<50	60	22	36	0 7	<0.5	–
	05/02/2000	2 0*	0 6	<0.5	<0.5	<0 5	77	39	19	30	0 5	<0.5	–
	08/01/2000	2.7	<0 5	<0 5	<0.5	<0 5	70	41	19	37	0 7	<0 5	–
	11/06/2000	3 2	0.6	<0.5	<0 5	<0.5	74	31	15	34	0 8	<0.5	–
	02/16/2001	3 4	<0.5	<0 5	<0.5	<0 5	52	26	14	33	0 9	<0.5	–
	04/27/2001	1 9	<0 5	<0.5	<0 5	<0 5	64	42	16	38	0.6	<0 5	–
	07/24/2001	1 7	<0 5	<0 5	<0.5	<0.5	<50	31	12	34	0.7	<0 5	–
	11/02/2001	1.6	2.2	<0 5	<0.5	<0 5	<50	34	14	23	0 8	<0.5	

Notes Historical data before June 1996 as reported by previous consultants

–	=	No datum for the cell, including "not analyzed for this constituent"
<	=	Compound was not detected above the laboratory reporting limits
TPH	=	Total petroleum hydrocarbons
ND	=	Non-detectable
PCE	=	Tetrachloroethene
1,2-DCA	=	1,2-Dichloroethane
TCE	=	Trichloroethene
MTBE	=	Methyl tert-Butyl ether (Prior to 5/99 analyzed using EPA Method 8020, '99 duplicates and all post-'99 samples analyzed using EPA Method 8260)
*	=	Duplicate
cis-1,2-DCE	=	CIS-1,2-Dichloroethene
1,1-DCE	=	1,1 Dichloroethene

Attachment 3

Groundwater Monitoring and Sample Collection Protocol and Field Data Sheets

Groundwater Monitoring

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

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

(Product thickness) x (0.8) + (Water elevation) = Corrected water elevation

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

Groundwater Sampling

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

Groundwater samples are collected from each well using a new, prepackaged disposable bailer and string. The water sample is decanted from the bailer into laboratory-provided containers (appropriate for the analyses required) so that there is no headspace in the containers. Samples collected for benzene, toluene, ethylbenzene, xylenes, and total petroleum hydrocarbons as gasoline analyses are collected in 40-milliliter vials fitted with Teflon septum lids. Samples are preserved with hydrochloric acid (HCL) to a pH of less then 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
IT Corporation - Concord, California

roject: 823289.03054300
Site: SEARS/1039/Oakland, CA
Project Manager: David Bero

Techician: Hector Merino
Schedule: Nov 2, 2001
Site Mgr: Brad Wooland

PREPARATORY COMMENTS

Visit Date: 11/2/01 Time of: _____ Arrival _____ Departure

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 possesssion of a health and safety plan? Y/N

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

GROUNDWATER SAMPLING - Task Nr: 03054300 [Quarterly]

SITE ADDRESS: 1911 Telegraph Avenue, Oakland, CA

cc: David Bero

Notify: Fuji 48 hrs. in advance (510) 444-7662. (He will insure that wells are not covered). 10/1/01 e 10:40 gr

Notify Don Whang 72 hrs. in advance (510) 567-6746 DONE: 10/31/01 left message @ 1:30 gr

During any sampling activities, a minimum work zone will be defined by a 10ft by 10-ft 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 permeter of the cones and caution tape at all times.

1) Monitor and sample nine (9) wells in the following order: MW-3, MW-1, MW-6, MW-4, MW-5, MW-2, MW-8, MW-9, and MW-7. USE DISPOSABLE BAILERS. Collect two (2) 40ml, HCL-preserved VOAs from on site wells.

2) Purge each well of 3 well volumes or until dry. Record DTW, DTP, pH, temperature, conductivity and dissolved oxygen data.

3) Collect one trip blank and one duplicate from MW-2 and submit for BTEX-(EPA 8260). Must use lab trip blank (Zymax).

SITE VISIT FORM
IT Corporation - Concord, California

roject: 823289.03054300
Site: SEARS/1039/Oakland, CA
Project Manager: David Bero

Techician: Hector Merino
Schedule:
Site Mgr: Brad Wooland

GROUNDWATER SAMPLING (Continued) - Task Nr. 03054300 (Quarterly)

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

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

6) COMPLETED ALL THREE PAGES OF DRUM/WASTE INVENTORY FORM?_____. IF NO EXPAIN_____.

Hours Estimated	Hours Used

FINAL CHECKS

SITE SECURITY: wells/covers/gates ... secure? Y/N - If No, explain.

WASTE COMPLIANCE: # of drums: 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

Travel Time Estimated:	Travel Time Used:
On Site Time Estimated:	On Site Time Used:

SITE VISIT FORM
IT Corporation

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

Technician: Hector Merino
Schedule: 11-2-01
Job No. 823289.03054300

WELL WATER SAMPLING - TASK Nr: 030543 00 [QUARTERLY]
Gauge wells for volume of water & bail 3 well Vol,s. DECON
all equipment & change gloves, string, etc. between each well.

Well ID				
MW-1:	DTB_24.25	DTW 15.80	SAT. THICK ___	#GAL. BAILED_____
MW-2.	DTB_24.10	DTW 15.73	SAT. THICK___	#GAL. BAILED_____
MW-3.	DTB_27.75	DTW 17.60	SAT. THICK___	#GAL. BAILED_____
MW-4:	DTB_23.55	DTW 14.20	SAT. THICK___	#GAL. BAILED_____
MW-5:	DTB_25.10	DTW 14.10	SAT THICK___	#GAL. BAILED_____
MW-6:	DTB_26.75	DTW 15.20	SAT. THICK___	#GAL. BAILED_____
MW-7:	DTB_26.20	DTW 16.69	SAT. THICK___	#GAL. BAILED_____
MW-8:	DTB_25.00	DTW 17.72	SAT. THICK___	#GAL BAILED_____
MW-9:	DTB_25.00	DTW 16.60	SAT. THICK___	#GAL. BAILED_____

NOTES: ⊙ Measured DO in all wells, after Measuring DO took water levels in all wells.

HOURS ESTIMATED: HOURS USED.

FINAL CHECKS

Are Wells Locked? (YES) NO Why Not?

Are Manholes Bolted Down? (YES) NO Why Not?

DRUMMED MATERIAL INVENTORY FORM

Store Number 1039 Address/City/State/ZIP 911 TELEGRAPH OAKland Ca.

Sears Facility Contact and Phone # Herb MCINTYRE (510) 628-8425

IT Corporation Representative Hector Merino

Accumulation Start Date 11-2-01 Completion Date: 11-2-01

Exact Drum Storage Location

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

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

DRUMMED MATERIAL INVENTORY FORM

Store Number 1039 City/State 911 TELEGRAPH AVE OAKLD CA.

IT Corporation Representative Hector Merino

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

DRUM ID	ACCUMU-LATION START DATE	CONTENTS (as on label) VOLUME (if mixed waste)	SOURCE (be specific)	SLUDGE PRESENT Y/N	VOLUME (gallon)
A	11-2-01	Purgewater	Groundwater	NO	50
B	11-2-01	Purgewater	Groundwater	NO	50

EXAMPLE

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

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

BULK MATERIAL INVENTORY FORM

Store Number 1039 Address/City/State/ZIP 911 TELEGRAPH AVE OAKland Ca.

Sears Facility Contact and Phone # Herb McIntyre (510)628-8425

IT Corporation Representative Hector Marino

Accumulation Start Date 11-2-01 Completion Date 11-2-01

Exact Bulk Storage Location _____

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

SOIL PILE CALCULATIONS

Calculation for a tent shaped soil pile:

Length _____ X Width _____ X Height _____ ÷ 2 ÷ 27 = _____ Yds^3

Calculation for a rectangular or square shaped soil pile:

Length _____ X Width _____ X Height _____ ÷ 27 = _____ Yds^3

Calculation for a conical (cone) shaped soil pile:

.04 X Radius _____ X Radius _____ X Height _____ = _____ Yds^3

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 823289.03054300

Date: 11-2-01
Page ____ of ____
Project Manager: David Bero

Well ID: MW-1
Well Diameter: 2

DTW Measurements:
Initial: 15.80
Recharge: ____
DTB: 29.25

Calc Well Volume: 1.3 gal
Well Volume: X3 4.1 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	Dissolved Oxygen	Purge Volume Gallons	Turbidity	Comments
	12.9	0.29	6.60	1.59	1	cloudy	
	17.4	0.95	6.51		2		
	19.1	0.87	6.44		3		
	19.4	0.84	6.43		4		
	19.9	0.88	6.35		5		

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 823289.03054300

Date: 11-4-01
Page ____ of ____
Project Manager: David Bero

Well ID: MW-3
Well Diameter: 4

DTW Measurements:
Initial: 17.60
Recharge: ____
DTB: 27.75

Calc Well Volume: 6.6 gal
Well Volume X3 20.0 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	Dissolved Oxygen	Purge Volume Gallons	Turbidity	Comments
	21.1	0.73	6.16	.72	5	cloudy	
	22.4	0.69	6.13	/	10	|	
	22.8	0.67	6.11	/	15	|	
	22.6	0.76	6.10	/	20	|	

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 823289.03054300

Date: 11-2-01
Page _____ of _____
Project Manager: David Bero

Well ID: MW-6
Well Diameter: 2

DTW Measurements:
Initial: 15.20
Recharge: _____
DTB: 26.75

Calc Well Volume: 1.8 gal
Well Volume: X3 5.0 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	Dissolved Oxygen	Purge Volume Gallons	Turbidity	Comments
	22.7	0.82	6.19	1.02	1	Cloudy	
	22.0	1.74	6.02		2		
	21.9	1.76	6.11		3		
	22.4	1.81	6.22		4		
	22.5	1.86	6.27		5		
	22.5	1.87	6.30		6		

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 823289.03054300

Date: 11-2-01
Page _____ of _____
Project Manager: David Bero

Well ID: MW-4
Well Diameter: 4

DTW Measurements:
Initial: 14.20
Recharge: _____
DTB: 23.55

Calc Well Volume: 6.1 gal
Well Volume x3 18.3 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	Dissolved Oxygen	Purge Volume Gallons	Turbidity	Comments
	22.4	1.92	6.47	.95	5	cloudy	
	23.2	1.77	6.43	/	10	|	
	23.6	1.77	6.43	/	15	|	
	23.6	1.80	6.44	/	20	|	

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 823289.03054300

Date: 11-2-01
Page _____ of _____
Project Manager: David Bero

Well ID: MW-5
Well Diameter: 2

DTW Measurements:
Initial: 14.10
Recharge: _____
DTB: 25.10

Calc Well Volume: 1.7 gal
Well Volume: ~~3~~ 5.3 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	Dissolved Oxygen	Purge Volume Gallons	Turbidity	Comments
	24.1	1.95	6.46	.95	1	Cloudy	
	23.7	1.37	6.46		2		
	23.3	1.86	6.50		3		DRY @ 3 GALLONS
					4		
					5		

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 823289.03054300

Date: 11-2-01
Page _____ of _____
Project Manager: David Bero

Well ID: MW-2
Well Diameter: 2

DTW Measurements:
Initial: 15.73
Recharge: _____
DTB: 24.10

Calc Well Volume: 5.14 gal
Well Volume: 3 16.3 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	Dissolved Oxygen	Purge Volume Gallons	Turbidity	Comments
	22.6	1.54	6.31	.90	5	cloudy	
	22.8	1.61	6.30	"	10	"	DRY @ 10 GALLONS
					15		
					20		

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 823289.03054300

Date: 11-2-01
Page _____ of _____
Project Manager: David Bero

Well ID: MW9
Well Diameter: 2

DTW Measurements:
Initial: 16.60
Recharge: _____
DTB: 25.00

Calc Well Volume: 1.3 gal
Well Volume: ~~X3~~ 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 ~~C~~ F	Conductivity (mmhos/cm)	pH	Dissolved Oxygen	Purge Volume Gallons	Turbidity	Comments
	23.1	1.58	6.29	1.07	1	Cloudy	
	22.2	1.33	6.35		2		
	22.5	1.29	6.41		3		
	22.7	1.29	6.44		4	↓	DRY @ 4 GALLONS

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 823289.03054300

Date: 11-2-01
Page _____ of _____
Project Manager: David Bero

Well ID: MW-7
Well Diameter: 2

DTW Measurements:
Initial: 16.69
Recharge: _____
DTB: 26.20

Calc Well Volume: 1.5 gal
Well Volume: X3 5.0 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	Dissolved Oxygen	Purge Volume Gallons	Turbidity	Comments
	22.5	1.16	6.43	.90	1	cloudy	
	22.3	1.16	6.41		2		
	22.4	1.15	6.33		3		
	22.4	1.09	6.33		4		
	22.5	1.11	6.33		5	↓	

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 823289.03054300

Date: 11-2-01
Page _____ of _____
Project Manager: David Bero

Well ID: MW-8
Well Diameter: 2

DTW Measurements:
Initial: 17.22
Recharge: _____
DTB: 25.00

Calc Well Volume: 1.1 gal
Well Volume: X3 3.5 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	Dissolved Oxygen	Purge Volume Gallons	Turbidity	Comments
	21.3	0.61	6.69	1.71	1	cloudy	
	21.6	0.61	6.64		2		
	21.5	0.60	6.62		3		
	21.7	0.61	6.60		4	↓	

ZymaX

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

CHAIN of CUSTODY

report to: DAVID BERO
company: IT CORP
address: 4005 Port Chicago Hwy Concord Ca 94520
phone: 925 288-9898
fax: 925 288-0888
project: SEARS Telegraph #1039
project #: 823289.03054300
sampler: Hector Meiro

ANALYSIS REQUESTED: Chlorinated Hydrocarbons 8260-GC/MS | BTEX, MTBE (TPH-G) 8260 | Oil & GREASE (CHF) | BTEX (8021B)

Turnaround Time: ASAP [ ] 48 hr [ ] 12 hr [ ] 72 hr [ ] 24 hr [ ] std [ ]

ZymaX use only	SAMPLE DESCRIPTION	Date Sampled	Time	Matrix	Preserve	Chlorinated Hydrocarbons	8260-GC/MS	BTEX, MTBE (TPH-G)		Oil & GREASE		BTEX (8021B)				# of containers	Remarks
	MW-3	11-2-01	10:15	GW	Hcl	X	X	X								2	
	MW-1	11-2-01	9:35	GW	Hcl	X	X	X								2	
	MW-6	11-2-01	10:48	GW	Hcl H2SO4	X	X	X		X						3	
	MW-4	11-2-01	11:19	GW	Hcl H2SO4	X	X	X		X						3	
	MW-5	11-2-01	11:28	GW	Hcl	X	X	X								2	
	MW-2	11-2-01	12:19	GW	Hcl	X	X	X								2	
	MW-8	11-2-01	13:35	GW	Hcl	X	X	X								2	
	MW-9	11-2-01	12:58	GW	Hcl	X	X	X								2	
	MW-7	11-2-01	13:16	GW	Hcl	X	X	X								2	
	TBLB	11-2-01	—	DI	—							X				2	
	DUP	11-2-01	1219	GW	Hcl							X					

Comments

Relinquished by:
Signature [signature]
Print Hector Meiro
Company IT CORP
Date 11-2-01 Time ____

Received by:
Signature [signature]
Print [illegible]
Company ZymaX
Date 11-2-01 Time 0915

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

Bill 3rd Party:

PO# ____
Quote yes no

Relinquished by:
Signature ____
Print ____
Company ____
Date ____ Time ____

Received by ZymaX envirotechnology inc:
Signature ____
Print ____
Company ____
Date ____ Time ____

email: zymax@ZymaXusa.com

Attachment 4

Laboratory Reports and Chain-of-Custody Documents

ZymaX

REPORT OF ANALYTICAL RESULTS

Client:	Dave Bero
	IT Corporation
	4005 Port Chicago Hwy
	Concord, CA 94520-1120

Lab Number:	25630-2
Collected:	11/02/01
Received:	11/05/01
Matrix:	Aqueous

Project:	Sears - Oakland #1039
Project Number:	823289.03054300
Collected by:	Hector Merino

Sample Description:	MW-1
Analyzed:	11/07/01
Method:	See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		98
TOTAL PETROLEUM HYDROCARBONS		
Total Petroleum Hydrocarbons	50.	ND
BTX as a Percent of Fuel		N/A

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717
*PQL - Practical Quantitation Limit
**Results listed as ND would have been reported if present at or above the listed PQL.

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

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

MSD #2
25630-2.xls
MN/sks/pv/ccc

FILE

ZymaX

REPORT OF ANALYTICAL RESULTS

Client:	Dave Bero
	IT Corporation
	4005 Port Chicago Hwy
	Concord, CA 94520-1120

Lab Number:	25630-2
Collected:	11/02/01
Received:	11/05/01
Matrix:	Aqueous

Project:	Sears - Oakland #1039
Project Number:	823289.03054300
Collected by:	Hector Merino

Sample Description:	MW-1
Analyzed:	11/07/01
Method:	EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
PURGEABLE HALOCARBONS		
Bromobenzene	0.5	ND
Bromodichloromethane	0.5	ND
Bromoform	0.5	ND
Bromomethane (Methyl Bromide)	0.5	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane (Ethyl Chloride)	0.5	ND
2-Chloroethylvinyl Ether	1.0	ND
Chloroform	0.5	ND
Chloromethane (Methyl Chloride)	0.5	ND
Dibromochloromethane	0.5	ND
Dibromomethane	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	0.5	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane (EDC)	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
Methylene Chloride	0.5	ND
1,1,1,2-Tetrachloroethane	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	36.
1,1,1-Trichloroethane (TCA)	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	0.9
Trichlorofluoromethane (freon 11)	0.5	ND
1,2,3-Trichloropropane	0.5	ND
Vinyl Chloride	0.5	ND
Percent Surrogate Recovery		101

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

***PQL - Practical Quantitation Limit**

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

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

MSD #2
25630-2h.xls
MN/sks/pv/ccc

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71 Zaca Lane
San Luis Obispo CA 93401
fax 805.544.8226

ZymaX

REPORT OF ANALYTICAL RESULTS

Client:	Dave Bero
	IT Corporation
	4005 Port Chicago Hwy
	Concord, CA 94520-1120

Lab Number:	25630-6
Collected:	11/02/01
Received:	11/05/01
Matrix:	Aqueous

Project:	Sears - Oakland #1039
Project Number:	823289.03054300
Collected by:	Hector Merino

Sample Description:	MW-2
Analyzed:	11/07/01
Method:	See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	460.
Toluene	0.5	2.4
Ethylbenzene	0.5	10.
Xylenes	0.5	8.4
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		103
TOTAL PETROLEUM HYDROCARBONS		
Total Petroleum Hydrocarbons	50.	590.
BTX as a Percent of Fuel		80

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717
***PQL - Practical Quantitation Limit**
****Results listed as ND would have been reported if present at or above the listed PQL.**

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

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

MSD #2
25630-6.xls
MN/sks/pv/ccc

ZymaX

REPORT OF ANALYTICAL RESULTS

Client:	Dave Bero
	IT Corporation
	4005 Port Chicago Hwy
	Concord, CA 94520-1120

Lab Number:	25630-6
Collected:	11/02/01
Received:	11/05/01
Matrix:	Aqueous

Project:	Sears - Oakland #1039
Project Number:	823289.03054300
Collected by:	Hector Merino

Sample Description:	MW-2
Analyzed:	11/07/01
Method:	EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
PURGEABLE HALOCARBONS		
Bromobenzene	0.5	ND
Bromodichloromethane	0.5	ND
Bromoform	0.5	ND
Bromomethane (Methyl Bromide)	0.5	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane (Ethyl Chloride)	0.5	ND
2-Chloroethylvinyl Ether	1.0	ND
Chloroform	0.5	ND
Chloromethane (Methyl Chloride)	0.5	ND
Dibromochloromethane	0.5	ND
Dibromomethane	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	0.5	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane (EDC)	0.5	12.
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	1.6
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
Methylene Chloride	0.5	ND
1,1,1,2-Tetrachloroethane	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	ND
1,1,1-Trichloroethane (TCA)	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	7.6
Trichlorofluoromethane (freon 11)	0.5	ND
1,2,3-Trichloropropane	0.5	ND
Vinyl Chloride	0.5	ND
Percent Surrogate Recovery		98

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

***PQL - Practical Quantitation Limit**

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

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

MSD #2
25630-6h.xls
MN/sks/pv/ccc/bm

ZymaX

REPORT OF ANALYTICAL RESULTS

Client:	Dave Bero
	IT Corporation
	4005 Port Chicago Hwy
	Concord, CA 94520-1120

Lab Number:	25630-1
Collected:	11/02/01
Received:	11/05/01
Matrix:	Aqueous

Project:	Sears - Oakland #1039
Project Number:	823289.03054300
Collected by:	Hector Merino

Sample Description:	MW-3
Analyzed:	11/06/01
Method:	See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		97
TOTAL PETROLEUM HYDROCARBONS		
Total Petroleum Hydrocarbons	50.	ND
BTX as a Percent of Fuel		N/A

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717
***PQL - Practical Quantitation Limit**
****Results listed as ND would have been reported if present at or above the listed PQL.**

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

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

MSD #2
25630-1.xls
MN/sks/pv/ccc/bm

ZymaX

REPORT OF ANALYTICAL RESULTS

Client: Dave Bero IT Corporation 4005 Port Chicago Hwy Concord, CA 94520-1120	Lab Number: 25630-1 Collected: 11/02/01 Received: 11/05/01 Matrix: Aqueous
Project: Sears - Oakland #1039 Project Number: 823289.03054300 Collected by: Hector Merino	Sample Description: MW-3 Analyzed: 11/06/01 Method: EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
PURGEABLE HALOCARBONS		
Bromobenzene	0.5	ND
Bromodichloromethane	0.5	ND
Bromoform	0.5	ND
Bromomethane (Methyl Bromide)	0.5	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane (Ethyl Chloride)	0.5	ND
2-Chloroethylvinyl Ether	1.0	ND
Chloroform	0.5	ND
Chloromethane (Methyl Chloride)	0.5	ND
Dibromochloromethane	0.5	ND
Dibromomethane	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	0.5	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane (EDC)	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
Methylene Chloride	0.5	ND
1,1,1,2-Tetrachloroethane	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	15.
1,1,1-Trichloroethane (TCA)	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	1.1
Trichlorofluoromethane (freon 11)	0.5	ND
1,2,3-Trichloropropane	0.5	ND
Vinyl Chloride	0.5	ND
Percent Surrogate Recovery		100

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

***PQL - Practical Quantitation Limit**

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

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

MSD #2
25630-1h.xls
MN/sks/pv/ccc/bm

805.544.4696
www.ZymaXusa.com

71 Zaca Lane
San Luis Obispo CA 93401
fax 805.544.8226

ZymaX

REPORT OF ANALYTICAL RESULTS

Client:	Dave Bero
	IT Corporation
	4005 Port Chicago Hwy
	Concord, CA 94520-1120

Lab Number:	25630-4
Collected:	11/02/01
Received:	11/05/01
Matrix:	Aqueous

Project:	Sears - Oakland #1039
Project Number:	823289.03054300
Collected by:	Hector Merino

Sample Description:	MW-4
Analyzed:	11/06/01
Method:	See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		100
TOTAL PETROLEUM HYDROCARBONS		
Total Petroleum Hydrocarbons	50.	ND
BTX as a Percent of Fuel		N/A

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717
***PQL - Practical Quantitation Limit**
****Results listed as ND would have been reported if present at or above the listed PQL.**

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

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

MSD #2
25630-4.xls
MN/sks/pv/ccc

ZymaX

REPORT OF ANALYTICAL RESULTS

Client:	Dave Bero
	IT Corporation
	4005 Port Chicago Hwy
	Concord, CA 94520-1120

Lab Number:	25630-4
Collected:	11/02/01
Received:	11/05/01
Matrix:	Aqueous

Project:	Sears - Oakland #1039
Project Number:	823289.03054300
Collected by:	Hector Merino

Sample Description:	MW-4
Analyzed:	11/06/01
Method:	EPA 8260

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

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

***PQL - Practical Quantitation Limit**

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

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

MSD #2
25630-4h.xls
MN/sks/pv/ccc

ZymaX

REPORT OF ANALYTICAL RESULTS

Client:	Dave Bero
	IT Corporation
	4005 Port Chicago Hwy
	Concord, CA 94520-1120

Lab Number:	25630-4
Collected:	11/02/01
Received:	11/05/01
Matrix:	Aqueous

Project:	Sears - Oakland #1039
Project Number:	823289.03054300
Collected by:	Hector Merino

Sample Description:	MW-4
Analyzed:	11/08/01
Method:	EPA 413.2

OIL AND GREASE

CONSTITUENT	PQL* mg/L	RESULT** mg/L
Oil and Grease	1.0	ND

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

*PQL - Practical Quantitation Limit

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

Submitted by,
ZymaX envirotechnology, inc.

IR#1
25630-4r.xls
MN/sks/jd/pf/km

Michael Ng
Assistant Lab Director

ZymaX

REPORT OF ANALYTICAL RESULTS

Client:	Dave Bero
	IT Corporation
	4005 Port Chicago Hwy
	Concord, CA 94520-1120

Lab Number:	25630-5
Collected:	11/02/01
Received:	11/05/01
Matrix:	Aqueous

Project:	Sears - Oakland #1039
Project Number:	823289.03054300
Collected by:	Hector Merino

Sample Description:	MW-5
Analyzed:	11/07/01
Method:	See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	2.3
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		100
TOTAL PETROLEUM HYDROCARBONS		
Total Petroleum Hydrocarbons	50.	ND
BTX as a Percent of Fuel		N/A

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717
***PQL - Practical Quantitation Limit**
****Results listed as ND would have been reported if present at or above the listed PQL.**

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

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

MSD #2
25630-5.xls
MN/sks/pv/ccc

ZymaX

REPORT OF ANALYTICAL RESULTS

Client: Dave Bero IT Corporation 4005 Port Chicago Hwy Concord, CA 94520-1120	Lab Number: 25630-5 Collected: 11/02/01 Received: 11/05/01 Matrix: Aqueous
Project: Sears - Oakland #1039 Project Number: 823289.03054300 Collected by: Hector Merino	Sample Description: MW-5 Analyzed: 11/07/01 Method: EPA 8260

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

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

***PQL - Practical Quantitation Limit**

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

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

MSD #2
25630-5h.xls
MN/sks/pv/ccc

805.544.4696
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fax 805 544.8226

ZymaX

REPORT OF ANALYTICAL RESULTS

Client:	Dave Bero
	IT Corporation
	4005 Port Chicago Hwy
	Concord, CA 94520-1120

Lab Number:	25630-3
Collected:	11/02/01
Received:	11/05/01
Matrix:	Aqueous

Project:	Sears - Oakland #1039
Project Number:	823289.03054300
Collected by:	Hector Merino

Sample Description:	MW-6
Analyzed:	11/07/01
Method:	See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		100
TOTAL PETROLEUM HYDROCARBONS		
Total Petroleum Hydrocarbons	50.	ND
BTX as a Percent of Fuel		N/A

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717
***PQL - Practical Quantitation Limit**
****Results listed as ND would have been reported if present at or above the listed PQL.**

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

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

MSD #2
25630-3.xls
MN/sks/pv/ccc

ZymaX

REPORT OF ANALYTICAL RESULTS

Client: Dave Bero IT Corporation 4005 Port Chicago Hwy Concord, CA 94520-1120	Lab Number: 25630-3 Collected: 11/02/01 Received: 11/05/01 Matrix: Aqueous
Project: Sears - Oakland #1039 Project Number: 823289.03054300 Collected by: Hector Merino	Sample Description: MW-6 Analyzed: 11/07/01 Method: EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
PURGEABLE HALOCARBONS		
Bromobenzene	0.5	ND
Bromodichloromethane	0.5	ND
Bromoform	0.5	ND
Bromomethane (Methyl Bromide)	0.5	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane (Ethyl Chloride)	0.5	ND
2-Chloroethylvinyl Ether	1.0	ND
Chloroform	0.5	ND
Chloromethane (Methyl Chloride)	0.5	ND
Dibromochloromethane	0.5	ND
Dibromomethane	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	0.5	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane (EDC)	0.5	6.1
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
Methylene Chloride	0.5	ND
1,1,1,2-Tetrachloroethane	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	0.9
1,1,1-Trichloroethane (TCA)	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	1.5
Trichlorofluoromethane (freon 11)	0.5	ND
1,2,3-Trichloropropane	0.5	ND
Vinyl Chloride	0.5	ND
Percent Surrogate Recovery		100

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

***PQL - Practical Quantitation Limit**

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

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

MSD #2
25630-3h.xls
MN/sks/pv/ccc

ZymaX

REPORT OF ANALYTICAL RESULTS

Client:	Dave Bero
	IT Corporation
	4005 Port Chicago Hwy
	Concord, CA 94520-1120

Lab Number:	25630-3
Collected:	11/02/01
Received:	11/05/01
Matrix:	Aqueous

Project:	Sears - Oakland #1039
Project Number:	823289.03054300
Collected by:	Hector Merino

Sample Description:	MW-6
Analyzed:	11/08/01
Method:	EPA 413.2

OIL AND GREASE

CONSTITUENT	PQL* mg/L	RESULT** mg/L
Oil and Grease	1.0	ND

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

*PQL - Practical Quantitation Limit

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

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

IR#1
25630-3r.xls
MN/sks/jd/pf/km

ZymaX

REPORT OF ANALYTICAL RESULTS

Client:	Dave Bero
	IT Corporation
	4005 Port Chicago Hwy
	Concord, CA 94520-1120

Lab Number:	25630-9
Collected:	11/02/01
Received:	11/05/01
Matrix:	Aqueous

Project:	Sears - Oakland #1039
Project Number:	823289.03054300
Collected by:	Hector Merino

Sample Description:	MW-7
Analyzed:	11/07/01
Method:	See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	4900.
Toluene	0.5	11.
Ethylbenzene	0.5	230.
Xylenes	0.5	480.
Methyl-t-Butyl Ether (MTBE)	0.5	2.2
Percent Surrogate Recovery		105
TOTAL PETROLEUM HYDROCARBONS		
Total Petroleum Hydrocarbons	50.	8000.
BTX as a Percent of Fuel		67

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717
***PQL - Practical Quantitation Limit**
****Results listed as ND would have been reported if present at or above the listed PQL.**

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

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

MSD #2
25630-9.xls
MN/sks/pv/ccc

ZymaX

REPORT OF ANALYTICAL RESULTS

Client:	Dave Bero
	IT Corporation
	4005 Port Chicago Hwy
	Concord, CA 94520-1120

Lab Number:	25630-9
Collected:	11/02/01
Received:	11/05/01
Matrix:	Aqueous

Project:	Sears - Oakland #1039
Project Number:	823289.03054300
Collected by:	Hector Merino

Sample Description:	MW-7
Analyzed:	11/07/01
Method:	EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
PURGEABLE HALOCARBONS		
Bromobenzene	0.5	ND
Bromodichloromethane	0.5	ND
Bromoform	0.5	ND
Bromomethane (Methyl Bromide)	0.5	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane (Ethyl Chloride)	0.5	ND
2-Chloroethylvinyl Ether	1.0	ND
Chloroform	0.5	ND
Chloromethane (Methyl Chloride)	0.5	ND
Dibromochloromethane	0.5	ND
Dibromomethane	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	0.5	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane (EDC)	0.5	34.
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	0.8
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
Methylene Chloride	0.5	ND
1,1,1,2-Tetrachloroethane	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	1.2
1,1,1-Trichloroethane (TCA)	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	2.7
Trichlorofluoromethane (freon 11)	0.5	ND
1,2,3-Trichloropropane	0.5	ND
Vinyl Chloride	0.5	ND
Percent Surrogate Recovery		102

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

***PQL - Practical Quantitation Limit**

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

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

MSD #2
25630-9h.xls
MN/sks/pv/ccc

ZymaX

REPORT OF ANALYTICAL RESULTS

Client:	Dave Bero
	IT Corporation
	4005 Port Chicago Hwy
	Concord, CA 94520-1120

Lab Number:	25630-7
Collected:	11/02/01
Received:	11/05/01
Matrix:	Aqueous

Project:	Sears - Oakland #1039
Project Number:	823289.03054300
Collected by:	Hector Merino

Sample Description:	MW-8
Analyzed:	11/07/01
Method:	See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	ND
Percent Surrogate Recovery		98
TOTAL PETROLEUM HYDROCARBONS		
Total Petroleum Hydrocarbons	50.	ND
BTX as a Percent of Fuel		N/A

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717
***PQL - Practical Quantitation Limit**
****Results listed as ND would have been reported if present at or above the listed PQL.**

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

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

MSD #2
25630-7.xls
MN/sks/pv/ccc/bm

ZymaX

REPORT OF ANALYTICAL RESULTS

Client:	Dave Bero
	IT Corporation
	4005 Port Chicago Hwy
	Concord, CA 94520-1120

Lab Number:	25630-7
Collected:	11/02/01
Received:	11/05/01
Matrix:	Aqueous

Project:	Sears - Oakland #1039
Project Number:	823289.03054300
Collected by:	Hector Merino

Sample Description:	MW-8
Analyzed:	11/07/01
Method:	EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
PURGEABLE HALOCARBONS		
Bromobenzene	0.5	ND
Bromodichloromethane	0.5	ND
Bromoform	0.5	ND
Bromomethane (Methyl Bromide)	0.5	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane (Ethyl Chloride)	0.5	ND
2-Chloroethylvinyl Ether	1.0	ND
Chloroform	0.5	ND
Chloromethane (Methyl Chloride)	0.5	ND
Dibromochloromethane	0.5	ND
Dibromomethane	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	0.5	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane (EDC)	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
Methylene Chloride	0.5	ND
1,1,1,2-Tetrachloroethane	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	4.3
1,1,1-Trichloroethane (TCA)	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	ND
Trichlorofluoromethane (freon 11)	0.5	ND
1,2,3-Trichloropropane	0.5	ND
Vinyl Chloride	0.5	ND
Percent Surrogate Recovery		98

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

***PQL - Practical Quantitation Limit**

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

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

MSD #2
25630-7h.xls
MN/sks/pv/ccc/bm

805.544.4696
www.ZymaXusa.com

71 Zaca Lane
San Luis Obispo CA 93401
fax 805.544 8226

ZymaX

REPORT OF ANALYTICAL RESULTS

Client:	Dave Bero IT Corporation 4005 Port Chicago Hwy Concord, CA 94520-1120	Lab Number: Collected: Received: Matrix:	25630-8 11/02/01 11/05/01 Aqueous
Project: Project Number: Collected by:	Sears - Oakland #1039 823289.03054300 Hector Merino	Sample Description: Analyzed: Method:	 MW-9 11/07/01 See Below

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	2.2
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Methyl-t-Butyl Ether (MTBE)	0.5	1.6
Percent Surrogate Recovery		99
TOTAL PETROLEUM HYDROCARBONS		
Total Petroleum Hydrocarbons	50.	ND
BTX as a Percent of Fuel		N/A

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717
*PQL - Practical Quantitation Limit
**Results listed as ND would have been reported if present at or above the listed PQL.

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

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

MSD #2
25630-8.xls
MN/sks/pv/bm

ZymaX

REPORT OF ANALYTICAL RESULTS

Client:	Dave Bero
	IT Corporation
	4005 Port Chicago Hwy
	Concord, CA 94520-1120

Lab Number:	25630-8
Collected:	11/02/01
Received:	11/05/01
Matrix:	Aqueous

Project:	Sears - Oakland #1039
Project Number:	823289.03054300
Collected by:	Hector Merino

Sample Description:	MW-9
Analyzed:	11/07/01
Method:	EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
PURGEABLE HALOCARBONS		
Bromobenzene	0.5	ND
Bromodichloromethane	0.5	ND
Bromoform	0.5	ND
Bromomethane (Methyl Bromide)	0.5	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane (Ethyl Chloride)	0.5	ND
2-Chloroethylvinyl Ether	1.0	ND
Chloroform	0.5	ND
Chloromethane (Methyl Chloride)	0.5	ND
Dibromochloromethane	0.5	ND
Dibromomethane	0.5	ND
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	0.5	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane (EDC)	0.5	23.
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	0.8
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
Methylene Chloride	0.5	ND
1,1,1,2-Tetrachloroethane	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene (PCE)	0.5	34.
1,1,1-Trichloroethane (TCA)	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene (TCE)	0.5	14.
Trichlorofluoromethane (freon 11)	0.5	ND
1,2,3-Trichloropropane	0.5	ND
Vinyl Chloride	0.5	ND
Percent Surrogate Recovery		100

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

***PQL - Practical Quantitation Limit**

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

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

MSD #2
25630-8h.xls
MN/sks/pv/bc/bm

ZymaX

REPORT OF ANALYTICAL RESULTS

Client:	Dave Bero
	IT Corporation
	4005 Port Chicago Hwy
	Concord, CA 94520-1120

Lab Number:	25630-10
Collected:	11/02/01
Received:	11/05/01
Matrix:	Aqueous

Project:	Sears - Oakland #1039
Project Number:	823289.03054300
Collected by:	Hector Merino

Sample Description:	TBLB
Analyzed:	11/06/01
Method:	EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	ND
Toluene	0.5	ND
Ethylbenzene	0.5	ND
Xylenes	0.5	ND
Percent Surrogate Recovery		99

ZymaX envirotechnology, inc. is certified by CA Department of Health Services: Laboratory #1717
***PQL - Practical Quantitation Limit**
****Results listed as ND would have been reported if present at or above the listed PQL.**

Submitted by,
ZymaX envirotechnology, inc.

Michael Ng
Assistant Lab Director

MSD #2
25630-10.xls
MN/sks/pv/bc/ccc

ZymaX

REPORT OF ANALYTICAL RESULTS

Client:	Dave Bero
	IT Corporation
	4005 Port Chicago Hwy
	Concord, CA 94520-1120

Lab Number:	25630-11
Collected:	11/02/01
Received:	11/05/01
Matrix:	Aqueous

Project:	Sears - Oakland #1039
Project Number:	823289.03054300
Collected by:	Hector Merino

Sample Description:	DUP
Analyzed:	11/07/01
Method:	EPA 8260

CONSTITUENT	PQL* ug/L	RESULT** ug/L
Benzene	0.5	470.
Toluene	0.5	2.6
Ethylbenzene	0.5	11.
Xylenes	0.5	9.2
Percent Surrogate Recovery		104

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

*PQL - Practical Quantitation Limit

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

Submitted by,
ZymaX envirotechnology, inc.

MSD #2
25630-11.xls
MN/sks/pv/ccc/bm

Michael Ng
Assistant Lab Director

ZymaX

CHAIN of CUSTODY

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

report to	DAVID BERO
phone	925) 288-9098
fax	925) 288-0888
company	IT CORP
project	SEARS Telegraph #1039
address	4005 Port Chicago Hwy Concord Ca. 94520
project #	823289.03054300
sampler	Hector Merino

Turnaround Time: ASAP ☐ 48 hr ☐ 12 hr ☐ 72 hr ☐ 24 hr ☐ std ☐

ANALYSIS REQUESTED

ZymaX use only	SAMPLE DESCRIPTION	Date Sampled	Time	Matrix	Preserve	Chlorinated Hydrocarbon 8260-GC/MS	BTEX/MTBE/TPH-g 8260		Oil & Grease (C&F)		BTEX (8021)				# of containers	Remarks
25630-1	MW-3	11-2-01	10:15	GW	Hcl	X	X								2	
-2	MW-1	11-2-01	9:35	GW	Hcl	X	X								2	
-3	MW-6	11-2-01	10:48	GW	HCl H2SO4	X	X		X						3	
-4	MW-4	11-2-01	11:19	GW	Hcl H2SO4	X	X		X						3	
-5	MW-5	11-2-01	11:28	GW	Hcl	X	X								2	
-6	MW-2	11-2-01	12:19	GW	Hcl	X	X								2	
-7	MW-8	11-2-01	13:35	GW	Hcl	X	X								2	
-8	MW-9	11-2-01	12:58	GW	Hcl	X	X								2	
-9	MW-7	11-2-01	13:16	GW	Hcl	X	X								2	
-10	TBLB	11-2-01	—	DI	—						X				2	
-11	DUP	11-2-01	1219	GW	Hcl						X					

Comments

Relinquished by:
Signature [signature]
Print Hector Merino
Company IT CORP
Date 11-2-01 Time

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

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

Bill 3rd Party:

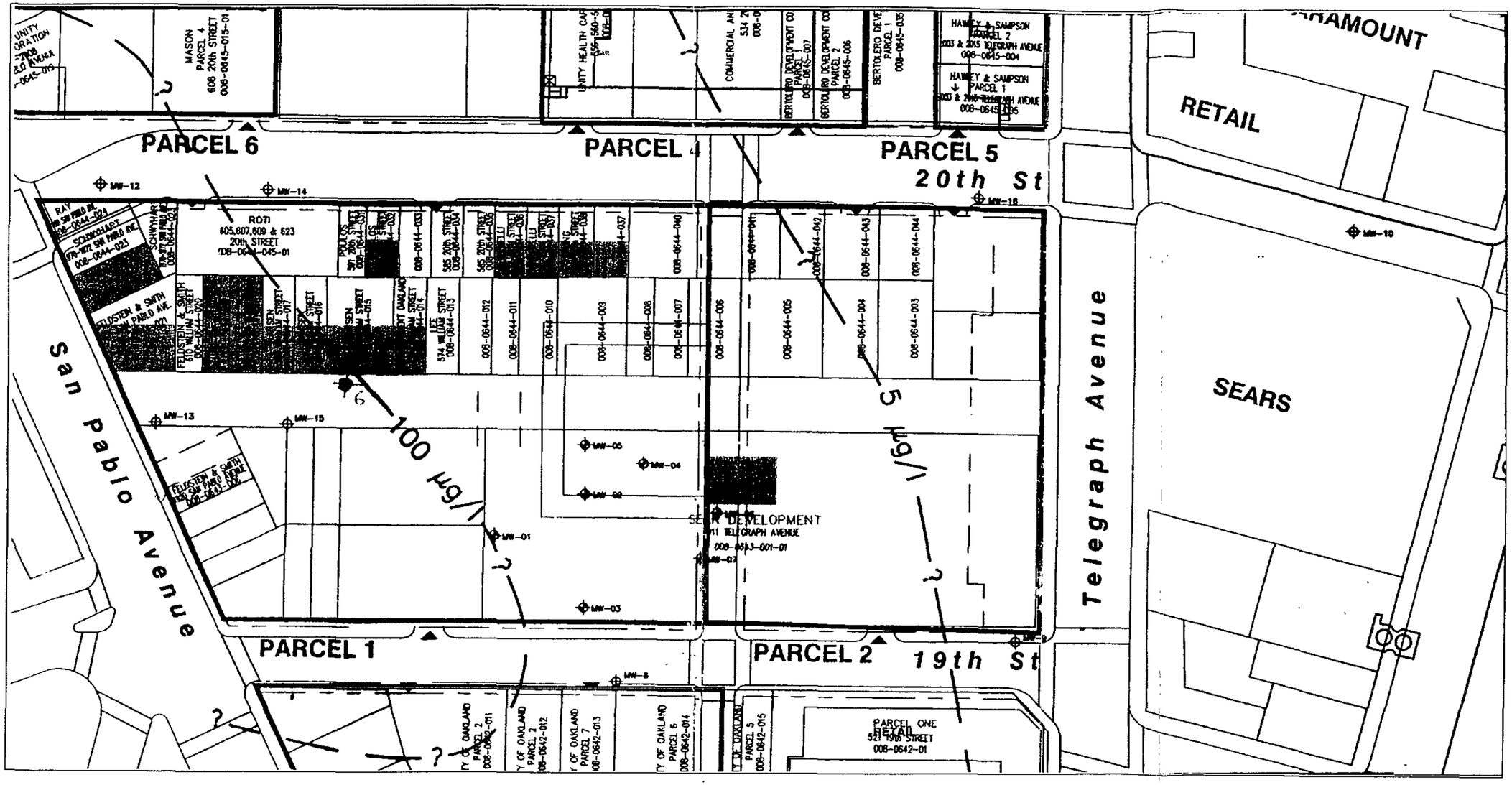
PO# ____
Quote yes no

Relinquished by:
Signature
Print
Company
Date Time

Received by ZymaX envirotechnology inc:
Signature
Print
Company
Date Time

Attachment 5

City of Oakland Study



LEGEND

5 ug/l — — — APPROXIMATE PCE PLUME LIMITS

⊕ WCC WELL LOCATION (APPROXIMATE)

◆ SEARS WELL LOCATION (APPROXIMATE)

Base map from McLarand, Vasques & Partners, Inc.

SCALE

0 100 200 FEET

IT CORPORATION

SEARS, ROEBUCK & CO.
FACILITY NO. 1039
OAKLAND, CALIFORNIA

IDENTIFIED ENVIRONMENTAL ISSUES
OAKLAND UPTOWN
DEVELOPEMENT PROJECT
OAKLAND, CALIFORNIA

DRAWING NUMBER	APPROVED BY	CHECKED BY	DRAWN BY
823289-B3			RB 9/14/01

IMAGE	X-REF	OFFICE
---	---	CONCORD

FORMAT REVISION 2/26/99