

IT Corporation

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A Member of The IT Group

SOIL AND GROUNDWATER ASSESSMENT REPORT SEARS AUTO CENTER NO. 1039 1911 TELEGRAPH AVENUE OAKLAND, CALIFORNIA

February 9, 2000

Prepared for:
Mr. Scott DeMuth
Manager, Environmental Technical Services
Sears, Roebuck and Company
3333 Beverly Road
Dept. 824EV, A2-245A
Hoffman Estates, IL 60179

IT CORPORATION
Submitted by:

David Poley Staff Hydrogeologist IT CORPORATION Approved by:

Ed Simonis, R.G. Senior Geologist

David A. Bero, P.G.

West Zone Project Manager

1913. 44.52

EXECUTIVE SUMMARY

Sears Auto Center No. 1039, located at 1911 Telegraph Avenue in Oakland, California, is an active automotive service center. Monitoring well installation was performed in response to Alameda County Health Care Services Agency concerns regarding an increase in petroleum hydrocarbon concentrations reported from groundwater samples collected from monitoring well MW-7, the site's downgradient well. Although monitoring well MW-7 had increasing petroleum hydrocarbon concentrations in 1997-1998, with peak concentrations in February 1998, petroleum hydrocarbon concentrations have been decreasing in MW-7 since that time. The recently installed wells are identified as monitoring wells MW-8 and MW-9. These monitoring wells serve as new downgradient wells to the site source (a former Chevron station), and serve as sampling points that are closest to current and historic Sears activities at the site.

On November 2, 1999, two monitoring wells (MW-8 and MW-9) were installed at the site with a truck-mounted, rotary drill rig equipped with hollow-stem augers. Two soil samples were collected from each boring: one from above and one from within the capillary fringe. These samples were submitted for laboratory analysis. A 2-inch-diameter, 25-foot-deep monitoring well was completed in each boring. Following well development, groundwater samples were collected from these wells in conjunction with the fourth quarter groundwater monitoring and sampling event. The soil and groundwater samples were analyzed for oil and grease using Environmental Protection Agency (EPA) Method 418.1; for total petroleum hydrocarbons as gasoline (TPH-g) using EPA Method 8015 Modified; and for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) using EPA Method 8020. The groundwater samples were additionally analyzed for chlorinated hydrocarbons using EPA Method 8010.

Petroleum hydrocarbons were not detected in the soil samples, except for the sample collected at 10 feet below ground surface from MW-8, which reported 9.2 milligrams per kilogram of total recoverable petroleum hydrocarbons. TPH-g and BTEX were not detected in the groundwater samples. Dissolved MTBE was detected only in monitoring well MW-9 at a concentration of 3.0 micrograms per liter (μ g/L) using EPA Method 8020 and was confirmed at a concentration of 2.4 μ g/L using EPA Method 8260. Chlorinated hydrocarbons were detected in monitoring wells MW-8 and MW-9. In well MW-8, methylene chloride and tetrachloroethene (PCE) were detected at concentrations of 6.0 and 6.2 μ g/L, respectively. In well MW-9, PCE, 1,2-dichloroethane and trichloroethene (TCE) were detected at concentrations of 65, 32, and 29 μ g/L, respectively. Nondetectable levels of TPH-g and BTEX in the new wells indicate that the downgradient extent of dissolved gasoline-range petroleum hydrocarbons has been defined. The source of the dissolved chlorinated hydrocarbons, particularly PCE and TCE, is not known. The new downgradient monitoring wells will continue to be sampled on a quarterly basis.

1039MWI OAK

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1.0 INTRODUCTION

IT Corporation installed two monitoring wells at Sears Store No. 1039, an active automotive service center (Figure 1). Monitoring well installation activities were performed according to a letter work plan dated October 21, 1999 from IT Corporation to the Alameda County Health Care Services Agency (Agency), and according to work plan responses dated October 28, 1999 from the Agency (Appendix A). Monitoring well installation was performed in response to Agency concerns regarding an increase in petroleum hydrocarbon concentrations at the site's downgradient well (MW-7). Although monitoring well MW-7 had increasing petroleum hydrocarbon concentrations in 1997-1998, with peak concentrations in February 1998, petroleum hydrocarbon concentrations have been decreasing in groundwater samples collected from MW-7 since that time. The new wells are identified as monitoring wells MW-8 and MW-9 on Figure 2. The monitoring wells serve as new downgradient wells to the site source (a former Chevron station) (Figure 3), and serve as sampling points closest to current and historic Sears activities.

All drilling/sampling activities were performed under the direction of Mr. Scott DeMuth, Manager, Environmental Technical Services, Sears, Roebuck and Co., 3333 Beverly Road, Dept. 768EV, A2-245A, Hoffman Estates, IL 60179, (847) 286-5530. The consultant work was conducted under the supervision of Mr. David Bero, IT Corporation, 4005 Port Chicago Highway, Concord, California, 94520, (925) 288-2024. The lead agency for the site is the Alameda County Health Care Services Agency.

2.0 SITE BACKGROUND

2.1 Site Description

The site is currently an active Sears Auto Center, located at the intersection of 19th Street and Telegraph Avenue (Figure 1). The site is surrounded by a private parking garage to the northwest, the Sears retail store to the northeast, and other businesses to the southeast and southwest.

2.2 Background

The Sears site consists of the Sears Auto Center and a parking area where a previous site investigation was performed and seven monitoring wells were installed. The seven groundwater monitoring wells, MW-1 through MW-7, are sampled on a quarterly basis. Historical groundwater sampling data indicate that petroleum hydrocarbon concentrations in on-site wells are decreasing. Petroleum hydrocarbon concentrations in monitoring well MW-7 were greatest from 1997 to 1998, and

currently appear to be deceasing. Groundwater levels fluctuate about 1 to 2 feet on a seasonal basis. The groundwater flow direction at the site has consistently been to the east or east-southeast.

3.0 GEOLOGY/HYDROGEOLOGY

The site is located on relatively flat land at an elevation of approximately 60 feet above sea level, one mile northeast of Oakland Inner Harbor. Lake Merritt lies 2,000 feet southeast, and the trace of the Hayward Fault is located about 3 miles northeast of the site. The shallow sedimentary deposits beneath the site consist of Quaternary alluvium and beach and dune sand deposits (Merritt Sand) (U.S. Geological Survey Professional Paper 943).

Encountered material from recent drilling activities at the site consisted of a heterogeneous mixture of sandy clay, clayey sand, and gravelly sand from ground surface to about 8 feet below ground surface (bgs). These deposits are underlain by fine, well sorted sand to 24 feet bgs and by silty fine sand from 24 to 25 feet bgs, the total depth of each boring.

Groundwater was encountered at 17 feet bgs during drilling activities. Historically, shallow groundwater flow at the site has been to the east and southeast with a hydraulic gradient of approximately 0.01 foot per foot.

4.0 DRILLING METHODS AND SAMPLING PROCEDURES

Two soil borings were drilled and sampled, and then completed as monitoring wells downgradient of the former Chevron facility (Figure 2). The soil borings were drilled using 8-inch-diameter hollow-stem augers (HSA) to a total depth of 25 feet bgs and were then converted to monitoring wells MW-8 and MW-9. Drilling was performed by Gregg Drilling and Testing, Inc. (Gregg Drilling), under the supervision of IT Corporation. To ensure that utility damage did not occur from drilling, both borings were cleared for utilities prior to drilling activities and were hand augered to 5 feet bgs.

Soil samples were collected at 5-foot intervals with a split-spoon sampler containing 1.5-inch-diameter brass tubes. The soil samples from each 5-foot interval were described according to the Unified Soil Classification System and were documented on drilling logs (Appendix B). Volatile organic compounds from each sample interval were monitored with a photoionization detector. The sample tubes of soil submitted for laboratory analysis were capped at each end with a Teflon® sheet and plastic lid. Each lid was secured with sample tape, and the sample was labeled and placed on ice in an insulated container for delivery to a state-certified laboratory. Two soil samples were collected from each boring: one from above and one from within the capillary fringe. Soil samples collected from depths of 10, 16.5, and 18 feet bgs in monitoring well MW-8, and soil samples collected from depths of 10, 15, and 16 feet bgs in monitoring well MW-9, were submitted for laboratory analysis.

Agency personnel were present on-site during all soil sampling activities to confirm that sampling activities were performed in accordance with Agency requirements.

5.0 MONITORING WELL INSTALLATION AND DEVELOPMENT PROCEDURES

Upon completion of soil sampling activities, the borings were completed as monitoring wells. The monitoring wells were constructed of Schedule 40 PVC consisting of a 0.5-foot endcap, 15 feet of 2-inch-diameter 0.020-inch slotted screen, and approximately 10 feet of 2-inch-diameter blank casing to ground surface. The annular space between the borehole and well casing was backfilled with No. 3 Lonestar Sand. The sand filter pack was placed from the bottom of the borehole to 8 feet bgs, which is approximately 1.5 to 2 feet above the well screen. A 3-foot transition seal composed of bentonite was installed above the filter pack. The transition seal was followed by a grout slurry to ground surface. The monitoring wells were finished with a watertight locking cap inside a traffic-rated street box.

On November 4, 1998, monitoring wells MW-8 and MW-9 were developed by Gregg Drilling. The monitoring wells were developed with a surge block tool mounted to a development rig. Upon using the surge block to surge the well screen, a stainless steel bailer was used to remove sediments. This development method draws fine particles from the formation into the well for removal by purging and allows the well filter pack to settle, improving well filtration. Once each well was surged for approximately 30 minutes, a stainless steel bailer was lowered into the well, and well water was bailed until water quality parameters stabilized. On November 5, 1999, as part of the fourth quarter groundwater monitoring and sampling event, all nine monitoring wells at the site were sampled with a disposable polyethylene bailer. Well development logs, field data sheets, and groundwater monitoring and sample collection protocol are provided in Appendix C.

All sampling equipment was cleaned between sampling intervals with nonphosphate detergent followed by successive rinses of tap and distilled water. This method decontaminates the sampling equipment and prevents cross contamination between sampling events.

6.0 LABORATORY ANALYSES AND RESULTS

The soil and groundwater samples were delivered under chain-of-custody protocol to Sequoia Analytical Laboratory of Walnut Creek, California. The samples were analyzed for oil and grease using Environmental Protection Agency (EPA) Method 418.1; for total petroleum hydrocarbons as gasoline (TPH-g) using EPA Method 8015 Modified; and for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tertiary butyl ether (MTBE) using EPA Method 8020. The groundwater samples were additionally analyzed for chlorinated hydrocarbons using EPA Method 8010.

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Petroleum hydrocarbons were not detected in the soil samples, except for the sample collected at 10 feet bgs from MW-8 where 9.2 milligrams per kilogram (mg/kg) of total recoverable petroleum hydrocarbons (TRPH) was detected. TPH-g and BTEX were not detected in the groundwater samples. Dissolved MTBE was detected only in monitoring well MW-9 at a concentration of 3.0 micrograms per liter (μ g/L) using EPA Method 8020. The presence of MTBE in monitoring wells MW-7 and MW-9 was confirmed using EPA Method 8260 at concentrations of 11 μ g/L and 2.4 μ g/L, respectively. All monitoring wells contained detectable concentrations of some halogenated volatile organics: 1,2-dichloroethane (1,2-DCA), cis-1,2-dichloroethene, tetrachloroethene (PCE), trichloroethene (TCE), and/or methylene chloride. Most of these chemicals are not typically found in gasoline or new/used motor oil. A distribution map of dissolved benzene, TPH-g, and MTBE concentrations in groundwater is provided in Figure 4. Soil and groundwater analytical results are summarized in Tables 1 and 2, respectively. Laboratory reports and chain-of-custody documents are provided in Appendix D.

7.0 WASTE DISPOSAL

All soil cuttings and purge water from well installation, development, and sampling were placed in 55-gallon drums that were stored on-site pending laboratory analysis. The drums were labeled, and the numbers of drums and their contents were documented on a drum inventory form for proper disposal by Sears. The drum inventory form is provided in Appendix E.

Upon receipt of the laboratory results for the soil and groundwater samples, the drums will be transported off-site to an appropriate disposal facility. All soil and water transported off-site will be shipped with the proper transportation and disposal documentation. Copies of these documents will be kept with the generator.

8.0 SUMMARY AND CONCLUSIONS

The results of the verification assessment conducted at Sears Auto Center No. 1039 are presented below:

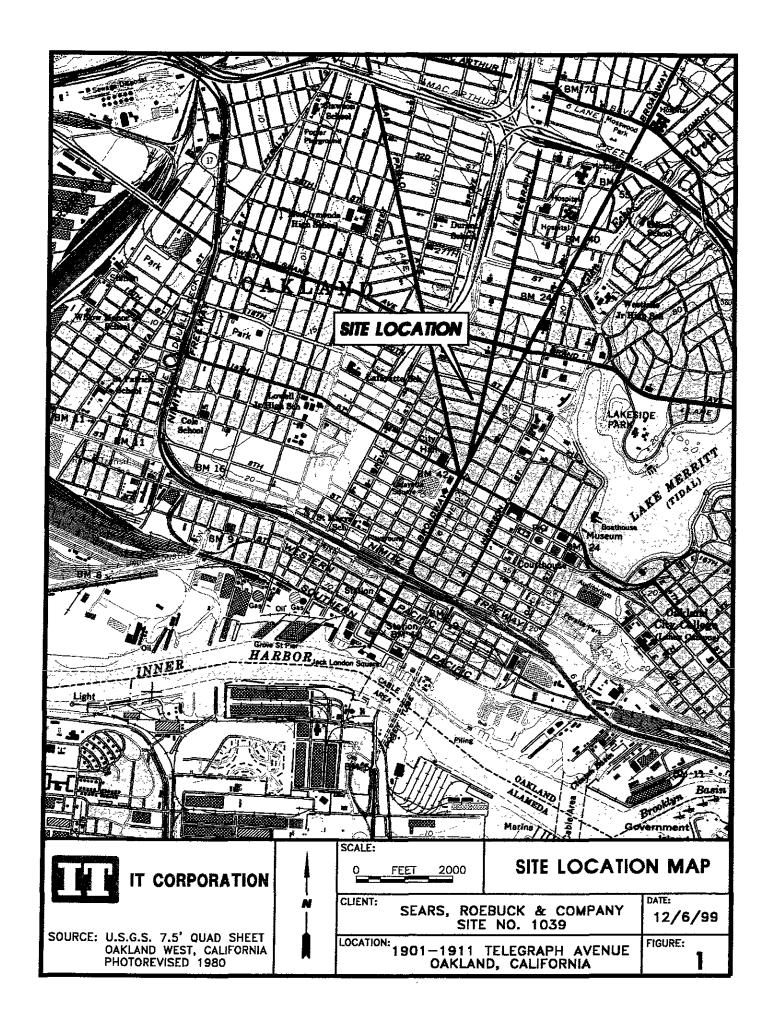
- On November 2, 1999, monitoring wells MW-8 and MW-9 were installed to serve as new downgradient wells to the site source, a former Chevron station, and to serve as sampling points closest to current and historic Sears activities.
- Two soil samples, one from above and one from within the capillary fringe, were collected from each boring and submitted for laboratory analysis. Soil samples collected from depths of 10, 16.5, and 18 feet bgs in monitoring well MW-8, and soil samples collected from depths of 10, 15, and 16 feet bgs in monitoring well MW-9, were submitted for laboratory analysis.

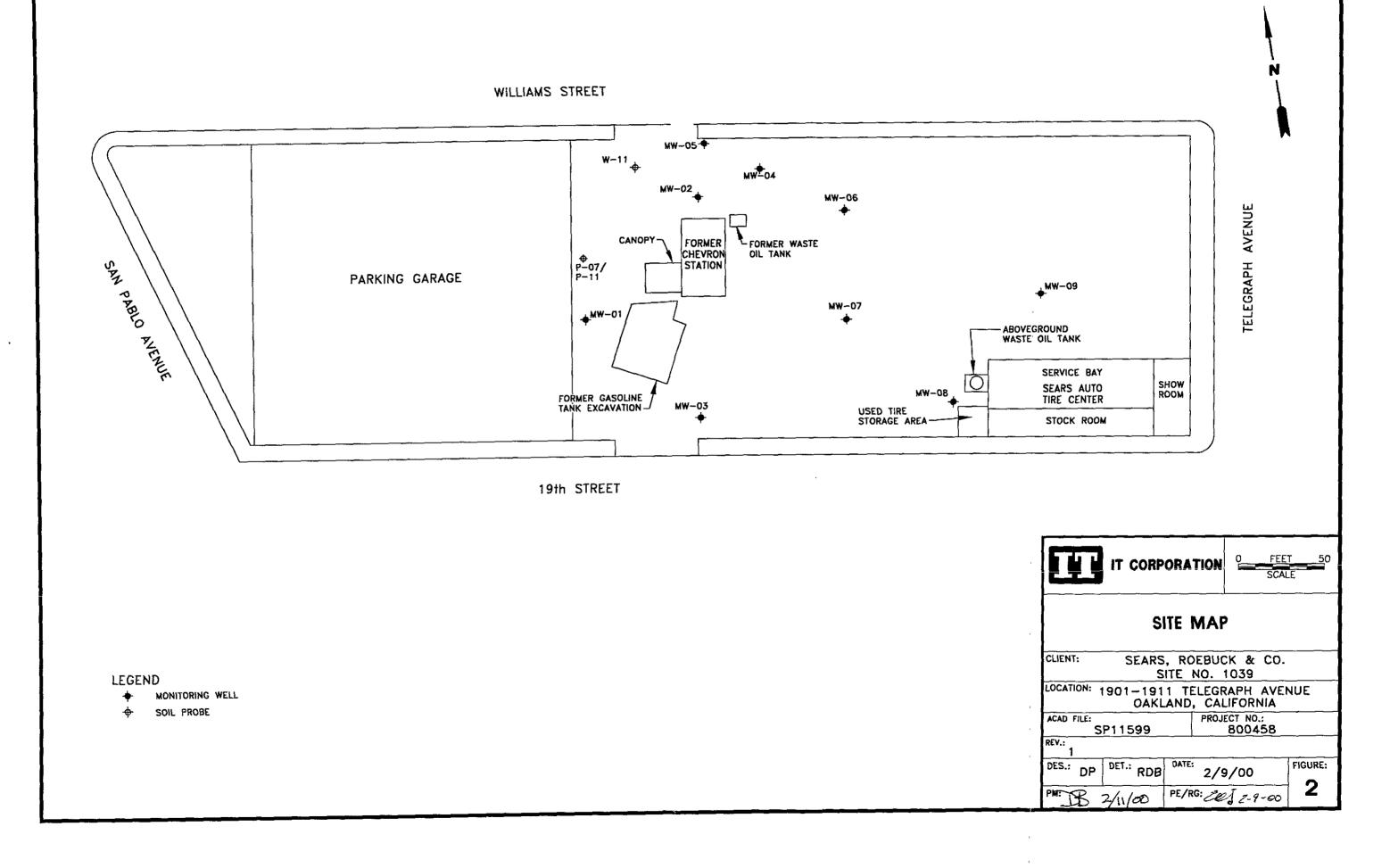
- Petroleum hydrocarbons were not detected in the soil samples, except for the sample collected from 10 feet bgs from MW-8 where 9.2 mg/kg of TRPH were reported.
- TPH-g and BTEX were not detected in the groundwater samples. MTBE was detected in monitoring well MW-9 at a concentration of 3.0 μg/L using EPA 8020 and at a concentration of 2.4 μg/L using EPA Method 8260. In well MW-8, methylene chloride and PCE were detected at concentrations of 6.0 and 6.2 μg/L, respectively, and in well MW-9, PCE, 1,2-DCA, and TCE were detected at concentrations of 65, 32, and 29 μg/L, respectively.
- Nondetectable levels of TPH-g and BTEX in monitoring wells MW-8 and MW-9 indicate that the downgradient extent of the dissolved gasoline-range petroleum hydrocarbon is defined.
- The source of the chlorinated hydrocarbons, particularly PCE and TCE, is not known.
- Monitoring wells MW-8 and MW-9 will continue to be sampled as downgradient wells under the current quarterly groundwater monitoring and sampling program.

FIGURES

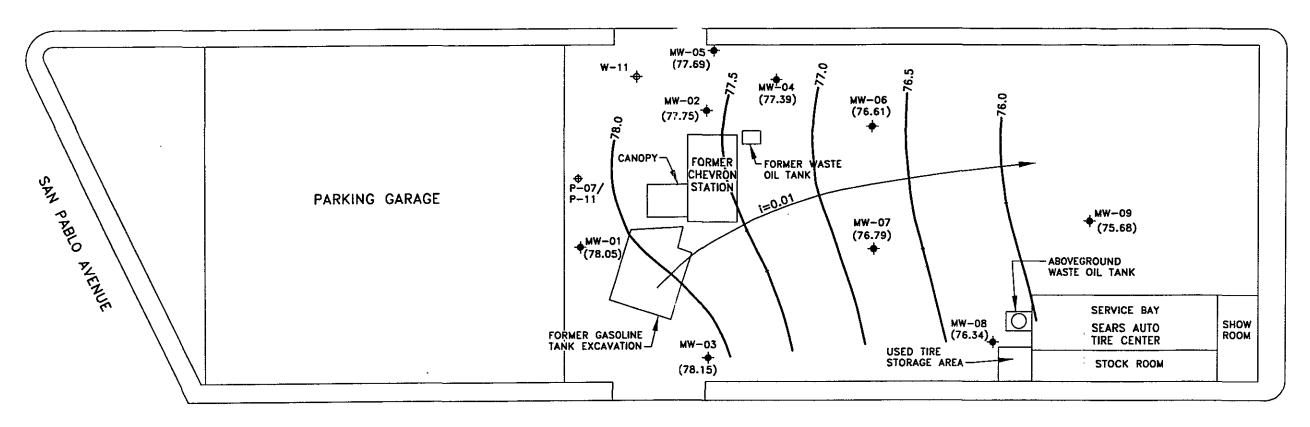
- Site Location Map
 Site Plan
 Potentiometric Surface Map (Gauged 11/05/99)
 Concentrations of Benzene, TPH-as-Gasoline and MTBE in Groundwater (Sampled November 5, 1999)

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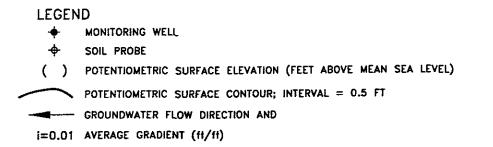


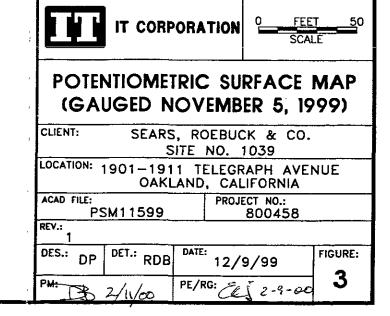


WILLIAMS STREET



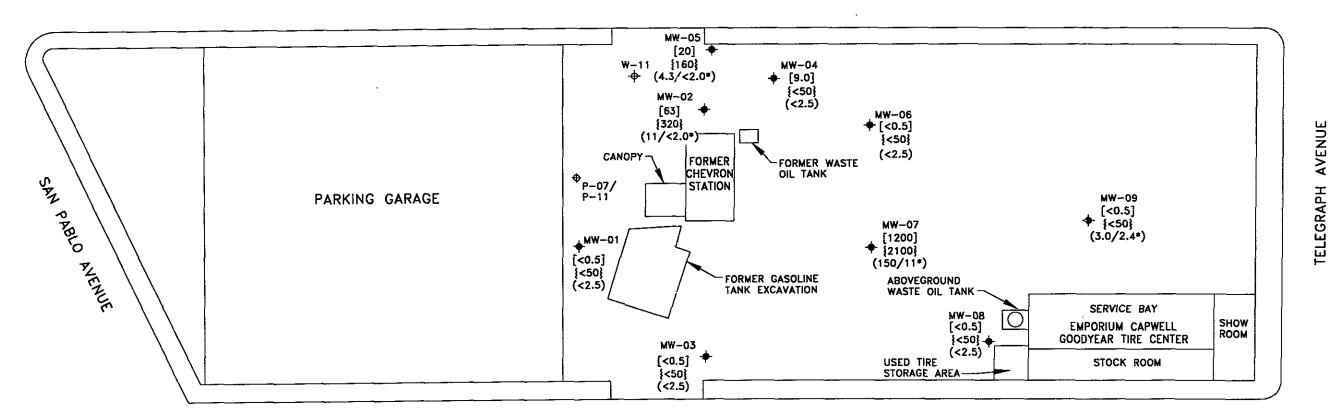
19th STREET



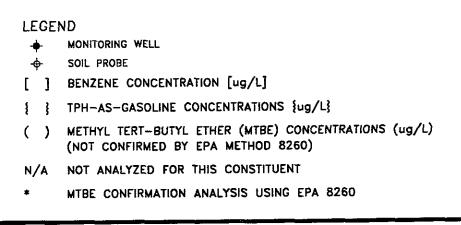


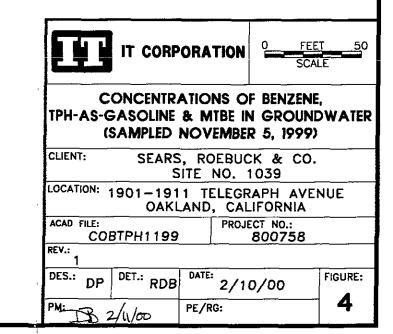
TELEGRAPH AVENUE

WILLIAMS STREET



19th STREET





TABLES

- Laboratory Results of Soil Analyses, Sears Auto Center No. 1039
 Laboratory Results of Groundwater Analyses, Sears Auto Center No. 1039

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TABLE 1 Laboratory Results of Soil Analyses

Sears Auto Center No. 1039 Oakland, California Sample Date: November 2, 1999

· · · · · · · · · · · · · · · · · · ·					VOCs and Ogygenates											
Sample ID	Depth (feet)	TPH-g	TRPH	Benzene	Toluene	Ethyl- benzene	Xylenes	tert-Butyl alcohol	мтве	Di-isopropyl ether	Ethyl tert-butyl ether	1,2-DCA	tert-Amyl methyl ether	1,2- Dibromethane		
	10	<1.0	9.2	<0.005	<0,005	<0.005	<0.005	<5.0	<0.10	<0,10	<0.10	<0.10	<0.10	<0.10		
8-WM	16.5	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<5.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0,10		
	18	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<5.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10		
	10	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<5.0	<0.10	<0,10	<0.10	<0.10	<0.10	<0.10		
MW-9	15	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<5.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10		
	16	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<5.0	<0.10	<0.10	<0,10	<0.10	<0.10	<0.10		

Note: All analytical results are presented in milligrams per kilogram (mg/kg).

TPH-g = total petroleum hydrocarbons as gasoline analyzed using Environmental Protection Agency (EPA) 8015 Modified

TRPH = total recoverable petroleum hydrocarbons using EPA 418.1

MTBE = methyl tertiary butylether using EPA 8260A

VOCs = volatile organic compounds analyzed using EPA 8260A

1,2-DCA= 1,2-Dichloroethane

TABLE 2 Laboratory Results of Groundwater Analyses

Sears Auto Center No. 1039
Oakland, California
Sample Date: November 5, 1999

								VO	Cs			
Sample ID	TPH-g	TRPH	MTBE	Benzene	Toluene	Ethyl- benzene	Xylenes	PCE	1,2-DCA	Methylene chloride	TCE	cis-1,2-
MW-1	<50	NA	<2.5	<0.50	<0.50	<0.50	<0.50	20	<0.50	<5.0	<0.50	<0.50
MW-2	320	NA	11/<2.0*	63	0.68	0.65	1.1	<0.50	41	6.1	13	1.3
MW-3	<50	NA	<2.5	<0.50	<0.50	<0.50	<0.50	7.2	<0.50	<5.0	<0.50	<0.50
MW-4	<50	<5.0	<2.5	9.0	<0.50	<0.50	<0.50	<0.50	<0.50	8.2	<0.50	<0.50
MW-5	160	NA	4.3/<2.0*	20	<0.50	<0.50	0.76	<0.50	<0.50	5.5	<0.50	<0.50
MW-6	<50	<5.0	<2.5	<0.50	<0.50	<0.50	<0.50	0.89	1.2	5.6	0.89	
MW-7	2,100	NA	150/11*	1,200	<5.0	61	25	3.7	95	<5.0	7.8	<0.50
MW-8	<50	<5,0	<2.5	<0.50	<0.50	<0.50	<0.50	6.2	<0.50	6.0		1.6
MW-9	<50	<5.0	3.0/2.4*	<0.50	<0.50	<0.50	<0.50	65	32	<5.0	<0.50 29	<0.50 <0.50

Note: All analytical results are presented in micrograms per liter (µg/L).

TPH-g = total petroleum hydrocarbons as gasoline analyzed using Environmental Protection Agency (EPA) 8015 Modified

TRPH = total recoverable hydrocarbons analyzed using SM 5520C/F

MTBE = methyl tertiary butylether and other oxygenates analyzed using EPA 8020

VOCs = volatile organic compounds analyzed using EPA 8260B

PCE = Tetrachloroethene

TCE = Trichloroethene

cis-1,2-DCE = cis-1,2-Dichloroethene

1,2-DCA = 1,2-Dichloroethane

* = MTBE confirmation using EPA 8260A

NA = not analyzed

APPENDICES

- A. Workplan for investigations at Sears Store No. 1039 (Agency letter dated October 28, 1999)
- B. Drilling Logs
- C. Groundwater Monitoring and Sample Collection Protocol and Field Data Sheets
- D. Laboratory ReportsE. Drum Inventory Form

APPENDIX A

WORKPLAN FOR INVESTIGATIONS AT SEARS STORE NO. 1039 (AGENCY LETTER DATED OCTOBER 28, 1999)

1039MWLOAK IT CORPORATION

ALAMEDA COUNTY

HEALTH CARE SERVICES



DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700

October 28, 1999

Scott DeMuth Sears, Roebuck, and Co. 333 Beverly Rd., Dept 824ev, A2-245A Hoffman Estates, IL 60179

STID: 1630

Workplan for investigations at Sears Store No. 1039, located at 1911 Telegraph Avenue,

Oakland, California

Dear Mr. DeMuth,

This office has reviewed the October 21, 1999 workplan, prepared by IT Corporation for the above site. This workplan is acceptable to this office with the requirement that at least one soil sample be collected from above the capillary fringe from each of the two proposed well locations for VOC analysis in order to assist us in determining whether the VOC-contaminated · groundwater is resulting from leaching of VOC-contaminated soils on site.

Additionally, this office received IT Group's letter today, which provided copies of the well logs for Wells MW-5 through MW-7.

The workplan should be implemented within 45 days of the date of this letter (i.e., by December 09, 1999). Any requests for extensions of the schedule, or modifications to the required work. should be submitted in writing to this office.

Thank you for your cooperation. If you have any questions or comments, please contact this office at (510) 567-6763.

Sincerely,

Juliet Shin, R.G.

Hazardous Materials Specialist

Cc: Melissa Gossell

> IT Corporation 757 Arnold Drive, Ste D

Martinez, CA 94553-6526

Leroy Griffin

City of Oakland Fire Dept., OES 1605 Martin Luther King Jr. Way

Oakland, CA 94612-1393

APPENDIX B

DRILLING LOGS

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Drilling Log



Monitoring Well MW-08

Project <u>Sears Store</u>	#1039	01	wner Sears, Roebuck & Co.	See Site Map For Boring Location
Top of Casing Screen: Dia Casing: Dia Fill Material #3 Moni Drill Co. Gregg Drillin	Water Level I Length terey Sand ng Co Metho	Proj. No. <u>800458</u> Diameter <u>2 in.</u> Static Type/Size <u>Sch. 40 /0.020 slot in.</u> Type <u>Sch. 40 PVC</u> ig/Core Stem Auger Date <u>II/02/99</u> Permit #	COMMENTS:	
Ę	PID (ppm) Sample ID Blow Count/ % Recovery	aphic Log S Class.	Descripti (Color, Texture, S Trace < 10%, Little 10% to 20%, Some	Structure)
2 0 2 1 1 14	5 8 0 10 10 5 30 L	ASP)	Asphalt. Silty gravelly fine to coarse SAND hydrocarbon odor. Sandy CLAY (40,60): brown, moist, Fine SAND: brown, well sorted, moist	stiff, plastic, trace gravel.
- 16 -	0 20 35 23 23 24 24 24 24 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	SP	₹ Groundwater Encountered Grades saturated.	
- 24 - = : = : : : : : : : : : : : : : : : : : : : :	0 22 43 38 L	SM	Clayey, silty fine SAND (10,30,60): soft/loose, no hydrocarbon odor.	light gray—brown, wet,

Drilling Log



Monitoring Well MW-09

Project Sears Sto	ore #10	39	0	wher Sears, Roebuck & Co.	See Site Map For Boring Location									
Location 1911 Tele	graph	Avenue, Oakland, C	<u> </u>	Proj. No. <u>800458</u>	1 or Boring Education									
Surface Elev		Total Hole Depth	25 ft	t Diameter <u>2 in.</u>	COMMENTS:									
Top of Casing		<u>t</u> Static	1											
Screen: Dia		Type/Size <u>Sch. 40 /0.020 slot in.</u>												
Casing: Dia		Length		Type <u>Sch. 40 PVC</u>										
Fill Material #3 Mo	ontere)	<u>/ Sand</u>	R	lig/Core										
Drill Co. Gregg Dri	illing Co	Stem Auger												
Driller		Log By <u>Dave Pole</u>	y	Date <u>11/02/99</u> Permit #										
Checked By Ed S	hecked By Ed Simonis License No. California RG#4422													
L C		0 7 2	ss.											
±3 =¥	ا آ	Sample IC low Count Recovery Graphic Log	Cla	Descripti	on									
Depth (1t.)	PID (ppm)	Idu de	8	(Color, Texture, S	Structure)									
Depth (ft.) Well Completion		Sample ID Blow Count/ % Recovery Graphic Log	SC	Trace < 10%, Little 10% to 20%, Some										
		* *	ر ا											
- −2 -														
F 4					j									
- 0	4			Aanhalt										
I MILL	1	77.7.	ASP	Asphalt.										
انا انا د	∦	1././.		Clayey fine SAND: brown, moist, no k	ovdrocarbon odor									
		1///	4	Clayey lifte SAND. Drown, moist, no	Tydrocarborr odor.									
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			1											
⊢ 4 - 		1///	∜sc											
		2 1 ///	1											
- 6 -	0	2 A 4 10	1											
		10 [[./,/,/	1											
			1											
- 8 - **			1											
├]											
L 10 -1:]	4 🗆	∜	Fine SAND: brown, moist, loose, well	sorted, subrounded, no									
	0	14	1	hydrocarbon odor.										
[] <u> </u>		24 🔲 💠 🗀												
├ 12 -			# /											
ŀ #./≣ :														
┡ 14 -]											
		:::::ٰل ب	SP											
	0	12 13 13 14 15 15 15 15 15 15 15	∦											
<u> </u>		28 🔲 : : : :	1	V										
!]	¥ Groundwater Encountered										
- 18 - : ≣ :			 [
I														
<u>- 20 → </u>		, <u> </u>]	Grades silty SAND (10,90): wet.										
'`` : <u> </u> ::		10 [24 [36]		5.2255 5, 5 (10,007. 1151.										
[<u> </u>	0	36 🔲 :												
- 22 - . =														
ŀ			_	City fine CANID (20.00)										
<u> </u>		- - -	5M	Silty fine SAND (20,80).										
				(Hammer lost down hole)										
26				(Figure 1996 South Hole)										
<u> </u>														
f														

APPENDIX C

GROUNDWATER MONITORING AND SAMPLE COLLECTION PROTOCOL AND FIELD DATA SHEETS

1039MWI.OAK IT CORPORATION

IT CORPORATION GROUNDWATER MONITORING AND SAMPLE COLLECTION PROTOCOL

Groundwater Monitoring

Groundwater monitoring is accomplished using a INTERFACE PROBE™ Well Monitoring System. The INTERFACE PROBE™ Well Monitoring System is a hand held, battery operated device for measuring the depth to separate-phase hydrocarbons and depth to water. The INTERFACE PROBE™ Well Monitoring System consists of a dual-sensing probe which 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 tripled rinsing with deionized or distilled water. A minimum of 3 well-casing volumes of water are removed from each well while pH, electrical conductivity, and temperature are recorded to verify that "fresh" formation water is being samples and the parameters have stabilized. If the well is low yielding, it may be purged dry and sampled before 3 casing volumes are purged. The wells are then allowed to recharge to approximately 80 percent of the initial water level before a sample is collected.

Groundwater samples are collected from each well using a new, prepackaged disposable bailer and string. The water sample is decanted from the bailer into laboratory-provided containers (appropriate for the analyses required) so that there is no headspace in the containers. Samples collected for benzene, toluene, ethyl benzene, xylene, 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.

1039Q499.OAK IT CORPORATION

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.

1039Q499.OAK IT CORPORATION

SITE VISIT FORM

IT Corporation - Concord, California!

Project: 1176601.00

Site: SEARS/1039/Oakland, CA

Project Mgr: Melissa Gossell

Job # and task #

Technician () Jano Scheduled: 11/01/99 Site Mgr: Brad Wooland

PREPARATORY COMMENTS

Visit Date: 15-99 Arrival Time: 9.00 Departure Time: 14.80

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

Called PM? Y/N Time: 14-00 Who: Melisac Topic: 5.17

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

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

GROUNDWATER SAMPLING - Task Nr: 03054300 [Quarterly]

SITE ADDRESS: 1911 Telegraph Avenue, Oakland, CA

cc: Melissa Gossell, Dave Poley

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

Notify Tom Peacock 72 hrs. in advance (510) 567-6782. DONE OF THE SECTION OF THE

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

*******ATTENTION****** For this quarter charge time required to sample MW-8 and MW-9 to project number 800458.03050300. Also generate a different COC for the samples under this project number.

- 1. Monitor and sample seven (9) wells in the following order: MW-3, MW-1, MW-6, MW-4, MW-5, MW-2, MW-7, MW-8 and MW-9. USE DISPOSABLE BAILERS. Collect six (6) 40ml HCL-preserved VOA's from all wells.
- 2. Purge each well of 3 well volumes or until dry. Record pH, temp., conductivity and dissolved oxygen.

SITE VISIT FORM IT Corporation - Concord, California

Project: 1176601.00

Site: SEARS/1039/Oakland, CA

Project Mgr: Melissa Gossell

Technician: Scheduled: 11/01/99 Site Mgr: Brad Wooland

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

- 3. Collect one trip blank and one duplicate from MW-2 and submit for BTEX- 8020 only. Pick up or have trip blank delivered from lab. Must use lab trip (Sequoia Analytical).
- Make a complete drum count and note the general condition of the site, wells and drums. Keep drum area tidy. Label drums properly (Non Haz).
- Submit samples to Sequoia Analytical in Walnut Creek, ph. # (925) 988-9600, to be analyzed for BTEX/MTBE/TPH-G (EPA Method 8020/8015M) and chlorinated hydrocarbons (EPA method 8010). Wells MW-4, MW-6, MW-8 and MW-9 additionally analyze for Oil and Grease (C/F). NOTE ON COC: MTBE DETECTIONS IN 8020 NEED CONFIRMATION BY 8260, PLEASE RUN AS NEEDED.

6. CC EXPLAI		THREE PAGES OF W	ASTE/DRUM	INVENTORY	FORM?	IF NO,
		Hours	Estimated	-	Hours Used	ı
		FINAL	CHECKS			
SITE SECUR	RITY: well/co	vers/gates s	ecure? Y/I	N-If No,	Explain	
WASTE COMP	LIANCE: # of	Drums w/: Water	, Soil	, Empty	, Other	
DRUMS labe	eled? NA/Y/N	Gen. Date:	Label	l Type:		_
SOIL pile?	Y/N size:	cu.vds.		SITE LEF	T CLEAN? Y/	N

SITE VISIT FORM DILE VISIT FORM IT Corporation - Concord, California . Project: 1176601:00 Technician Www. Site: SEARS/1039/Oakland, CA Scheduled: 11/01/99 Project Mgr: Melissa Gossell Site Mgr: Brad Wooland TECHNICIAN'S COMMENTS Total Hours Estimated Total Hours Used 0.00 1.00 Travel Time Used Travel Time Estimated Technician

SITE VISIT FORM IT Corporation

Project: Sears/1039/Oakland Store #: 1039, 1911 Telegraph Ave. Project Manager: Melissa Gossell Schedule: 1.5-99 Job No. 1176601.03054300	
MICH MATCH CAMPING TACKY CONTINUES TO A DESCRIPTION	_
WELL WATER SAMPLING - TASK Nr: 03054300 [QUARTERLY] Gauge wells for volume of water & bail 3 well Vol,s. DECON all equipment & change gloves, string, etc. between each well.	
Well iD	•
MW-1: DTB_24.25 DTW\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
MW-2: DTB_24.10 DTW_\(\begin{array}{c} \omega D \ext{ SAT. THICK} #GAL. BAILED	
MW-3: DTB_27.75 DTW 18.00 SAT. THICK #GAL. BAILED	
MW-4: DTB_23.55 DTW_14_(e) SAT. THICK#GAL. BAILED	Ç
MW-5: DTB_25.10 DTW 14.40 SAT. THICK #GAL. BAILED	
MW-6: DTB_26.75 DTW_\(\sum_S \cdot S \subseteq \subsete	Ì
MW-7: DTB_26.20 DTW SAT. THICK #GAL. BAILED	
MW-8 DTB_25.00 DTW 18.15 SAT. THICK #GAL. BAILED	
MW-9 DTB_35,00 DTW_16.86 SAT. THICK #GAL. BAILED	
NOTES: Mentaged and Campled all Wells.	
	·
HOURS ESTIMATED: HOURS USED:	
FINAL CHECKS	
Are Wells Locked? YES NO Why Not?	
Are Manholes Bolted Down?. ES NO Why Not?	

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Site Addres	ne: <u>Sears/10</u> s: <u>1911 Tel</u> nber: <u>117660</u> 1	egraph Ave., Oa	<u>kland</u>			//-5 of_ Manager: _	Melissa Gossell						
Well ID: Well Diamete	Well ID: DTW Measurements: Initial: DTW Measurements: Calc Well Volume: Gala Well Volume: DTB: DTB: DTW Measurements: DTW Measurements:												
Peristaltic Gear Drive	Purge Method Pump Depthft. Instruments Used Peristaltic Hand Bailed YSI: Other: Gear Drive Air Lift Hydac: Submersible Other Omega:												
Time	Temp C F	Conductivity (mmhos/cm)	рН	Dissolved Oxygen	Purge Volume Gallons	Turbidity	Comments						
9:51	189	072	6.54	1,2	0	Clay							
9'53	19.4	0.50	63	3	2		DLY@ 26AlloNS						
					3	-							
					•								

Site Address	Project Name: Sears/1039/Oakland Date:												
Well ID: Well Diamete		W-3 +	Initia Rech	V Measuremen al: 162 narge:	Calc Wel	ll Volume: (ume: 火 头 ()	9.3 gal 9.1 gal						
Purge Method Pump Depthft. Instruments Used Peristaltic Hand Bailed YSI: Other Gear Drive Air Lift Hydac: Omega:													
Time	Temp C F	Conductivity (mmhos/cm)	рН	Dissolved Oxygen	Purge Volume Gallons	Turbidity	Comments						
10:10	21.0	0.75	607	0.66	5	Cloudy	,						
10:12	217	0.71	5.98	3	(0								
10:14	21.6	0,83	59	7	15	/	DRYCO 15 GAHONS						
-					20								
				_									
					1	<u></u>							

Site Addres	Project Name: Sears/1039/Oakland Site Address: 1911 Telegraph Ave., Oakland Project Number: 1176601.03054300 Project Manager: Melissa Gossell												
Well ID: Well Diamet	 er:	W-6 2	Initia _ Recl	V Measuremer al: 15.5 harge: : 26.7	G Calc We Well Vol	II Volume:	S gal -(4- gal						
Peristaltic Gear Drive_	Purge Method Pump Depthft. Peristaltic Hand Bailed YSI: Other: Gear Drive Air Lift_ Hydac: Omega:												
Time	Temp C F	Conductivity (mmhos/cm)	рН	Dissolved Oxygen	Purge Volume Gallons	Turbidity	Comments .						
104.30	21.1	1,77	(<u>o.</u> 03	0,38		Brown	N.						
10:30	21.1	179	6.00	: :	2								
10:31	21.4	1.72	6-15		3								
10:31	217	180	6.20		4								
01.32	21.8	1.84	(0-23		5		DENO SCALLONS						
						-							
					•								
		<u> </u>											

Project Number: 1176601.03054300 Project Manager: Melissa Gossell DTW Measurements: Well ID: Calc Well Volume: 5 8 gal Well Volume: 5 gal 14.62 Initial: Recharge: Well Diameter: DTB:___ Pump Depth____ft. Instruments Used Purge Method Hand Bailed YSI: Peristaltic_ Other:____ Air Lift__ Hydac: Gear Drive__ Other____ Omega:_ Submersible 30 Dissolved Purge Temp Conductivity **Turbidity** рΗ Oxygen Volume Comments Time <u>C</u> (mmhos/cm) Gallons 1,46 6.260.54 5 10 15 18

11.5.49

of

Date:

Page_

Project Name: Sears/1039/Oakland

Site Address: 1911 Telegraph Ave., Oakland

Site Addres	Project Name: Sears/1039/Oakland Site Address: 1911 Telegraph Ave., Oakland Project Number:1176601.03054300 Project Number: Melissa Gossell												
Well ID: Well Diamet	Well ID: DTW Measurements:												
Peristaltic Gear Drive	Purge Method Pump Depthft. Instruments Used Peristaltic Hand Bailed YSI: Other: Gear Drive Air Lift Hydac: Submersible Other Omega:												
Time	Temp C F	Conductivity (mmhos/cm)	рН	Dissolved Oxygen	Purge Volume Gallons	Turbidity	Comments						
10:55	2213	2,15	6,40	0.40	*	GLEY.	-ODOR						
10:56	22.2	1.84	G147		2								
10:57	22.2	2.10	6.48		3								
10,28	22.2	2.26	65		4		DRYQ- 4GAlloWS						
					5								
				,									
						,							

Site Address	e: <u>Sears/103</u> s: <u>1911 Telec</u> ber: <u>1176601.</u>	graph Ave., Oal	<u>kland</u>	Page	Pageof Project Manager: <u>Melissa Gossell</u>			
Well ID: Well Diamete		и· <u>2</u> 4	Initia	/ Measuremen l: <u>\\ 2</u> C narge: : 24.(Calc Wel	ll Volume:S umex} _1S	gal G. (+ gal	
Purge Methor Peristaltic Gear Drive Submersible_	Ha	mp Depth ind Bailed Lift ner		YSI;x Hydac:	struments Use	Other:_		
Time	Temp N C F	Conductivity (mmhos/cm)	рH	Dissolved Oxygen	Purge Volume Gallons	Turbidity	Comments	
11.00	21.8	_		0,50		Clour	7046	
80.71	22.0	200 (0.22		10		1 Sty Sap Hons	
				1				
					·		·	
·					· .			
				<u></u>				

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Site Address	e: <u>Sears/1039</u> s: <u>1911 Telec</u> ber: <u>1176601</u> .	raph Ave., Oal	klan <u>d</u>			of	Melissa Gossell
Well ID: Well Diamete	r:	W-9 2	- Initia	Measurement l: 16.89 narge:	Calc Wel م	l Volume:_ ime:χ 3_仏	gal O gal
Purge Metho Peristaltic Gear Drive Submersible_	Ha Air	mp Depth nd Bailed Lift ner		YSI: 🔀	etruments Use	Other:_	
Time	Temp C C F	Conductivity (mmhos/cm)	рН	Dissolved Oxygen	Purge Volume Gallons	Turbidity	· Comments
11'.30	2116	1,54	638	4.60		BROU	/N
11:31	21.9	1,65	6.37		2		
11:32	22.0	1.28	6.38	· /	3		DRY & CALLONS
					4	,	
							· ·
			<u> </u>				

Project Name: Sears/1039/Oakland Site Address: 1911 Telegraph Ave., Oakland Project Number:1176601.03054300 Project Manager: Melissa Gosse										
Well ID: DTW Measurements: Initial: 1,01 Calc Well Volume: 1 gal Recharge: Well Volume; 4,4 gal DTB: 20,20										
Peristaltic Ha Gear Drive Air	Peristaltic Hand Bailed YSI:									
Time Temp F	Conductivity (mmhos/cm)	pН	Dissolved Oxygen	Purge Volume Gallons	Turbidity	Comments				
111.36 220	1,52	6.38	0.40		Cloud	1				
11'37 21.8	1,58	(0.2	7	2						
11:37 21.8	1,47	6.29	+/	3						
11',38 21.8),36	6,22		4						
				_	V					
		-								
				•						

DRUMMED MATERIAL INVENTORY FORM

Page 1 of 2

Store Number 1039 Address/City/State, Sears Facility Contact and Phone # Brad W	IZIP 1911 TELEGRAPH FUE
Sears Facility Contact and Phone # Brad W	andland.
IT Corporation Representative HMar. No	
Accumulation Start Date 11-5-99	Completion Date: 11-5-99
Exact Drum Storage Location GARAGE	

					
CONTENTS	# OF DRUMS	DRUM ID (A,B,C) OR (1,2,3)	LID TYPE (OPEN OR BUNG)	LABEL TYPE: HAZARDOUS, NON- HAZARDOUS, UNCLASSIFIED	DRUM DESCRIPTION: - COLOR, CONDITION, MARKINGS
GASOLINE			O or B	H/N/U	
GASOLINEWATER MIXTURE			O or B	H/N/U	٠
GASOLINE IMPACTED PURGE WATER	3	E,F,G	Opr B	HINYU	BARTWHITE
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 OILWATER MIXTURE			O or B	H / N / U	
FUEL OIL IMPACTED PURGE WATER			O, or B	H / N / U	
FUEL OIL TANKS BOTTOMS/SLUDGE			OorB	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	"Marketing or the state of the
HYDRAULIC FLUID/WATER MIXTURE			O or B	H / N / U	
HYDRAULIC FLUID IMPACTED PURGE WATER			O or B	н/м/и	
HYDRAULIC FLUID IMPACTED SLUDGE			OorB	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 OILWATER 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:			OorB	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

Page 2 of 2

Store Nu	ımber <u>1030</u>	7	_ City/State <u>1911</u>	TREPAI	PHAVE
	ration Representa	1/1/	~		
THERE	E SHOULD NEVER B	E 2 DRUMS WITH THE SAM	E DRUM ID PRESENT AT A SIT	E AT THE SAM	AE TIME
DRUM ID	ACCUMU- LATION START DATE	CONTENTS (as on label) VOLUME (if mixed waste)	SOURCE (be specific) MWO 19 GROUND WATER WELLS	SLUDGE PRESENT Y/N	VOLUME (gallon)
14	11-2-99		Soil CUTTINGS	/	55
B	11-2-99	4	1	. /	55
C	11:399			7	55
0	11:399	<u> </u>	/	7	55
E	11:4:99	DECONWATER	MW8,9	7	30
F	11-5-99	PULLEWATER	Allwells	100	30
6	11-5-99	Pungwater	ANWENS	NO	30
					•
 					
 					
			·. ·:,		
 				•	
EXAMPLE					
A		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!

BUL	-K MATER	RIAL IN	/ENTORY FORM	Page 1 of :
Store Number <u>6039</u>	Addre	ess/City/S	tate/ZIP [PU TEEGra	P21
Sears Facility Contact and Phone	#			
IT Corporation Representative	#Men	20		
Accumulation Start Date 11-S Exact Bulk Storage Location	5-99		Completion Date //-	5-99
Evact Bulk Storage Location	17AG	2_	,	
CABCI Duil Otorago Looditori CT	<u> </u>			·
	- 			
CONTAMINANTS	SOIL (u Yds)	DEBRIS (Cu Yds)	LiQUID (Galions)
GASOLINE				
FUEL OIL				
HYDRAULIC FLUID		<u> </u>		
USED OIL				
CHLORINATED SOLVENT:		1		
NON-CHLORINATED SOLVENT:				
OTHER:				
OTHER:				
Colculation for a tent change sail t		E CALCU	LATIONS	
Calculation for a tent shaped soil p	olie:			
LengthX Width	X He	ight	÷ 2 ÷ 27	=Yds ³
Calculation for a rectangular or squ	uare shaped	l soil pile:		·
Sonath Y Width	V U.	iaht	÷ 27 -	Vde ³

Calculation for a conical (cone) shaped soil pile:

.04 X Radius ____ X Radius ___ = ____

_Yds³

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☐ 680 Chesapeake Drive • Rédwood City, CA 94063 • (650) 364-9600 FAX (650) 364-9233 ☐ 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100 ☐ 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673 ☐ 1455 McDowell Blvd, North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-334

24. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	170. North, Suite D • Petaluma, CA 94954 (707) 792-1865 FAX (707) 792-0342
175(4) (24) (25) (25) (25) (25) (25) (25) (25) (25	Project Name: SEARS-1911TELEGRAPH # 1039
Mailing Address 4005 PORTCHCARGO HWY	Billing Address (if different):
State: CA Zip Code 94520	1176601,03054300
Telephone (975) 288-9898 FAX #(925) 288 0888	P.O. #:
Report To: Melissa Gossell Sampler: MERNO	QC Data: D Level D (Standard) D Level C D Level B D Level A
Turnaround	Analyses Requested Control of the Co
Client Date/Time Matrix # of Cont. Sequoia's Sample I.D. Sampled Desc. Cont. Type Sample #	Comments
MW-1 11-5-9612:30GW 6 40ML	WIBE DETECTIONS
	XX Ward Configuration By 8760
MW-8 DEVE 8 CONFE	X X X STEATHERS MIRES
2MW-7 1305 COW 6 40ML	X X EAN WATER HARAGE
MW-4 133548 GUR	DOLT GENERAL
6 MW-5 339W 6 4000	
11W-2 1396W6 40ML	
80000 13.47GW 3 40ml	
STBUB / - DI I AOML	
10	
Relinquished By: Date: Ga Time:	C Received By: Date: Time:
	Received By: Date: Time:
Relinquished By: Date: Time:	Received By Lab: 14:40 Date: 11/5 Time: 14:40

SEQUOIA ANALYTICAL CHAIN OF CUSTODY 680 Chesapeake Drive • Redwood City, CA 94063 • (650) 364-9600 FAX (650) 364-9233 B19 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865; FAX (707) 792-0342
Project Name: Project Name: Project Name:
Mailing Address (16 different) Billing Address (If different)
State: (\(\text{Zip Code2(1-7)} \)
FAX # 475 1225
Report To Level D (Standard) Level C Level B Level A C Turnaround C 10 Working Days C 3 Wor
Time: 7. Working Days 2 - 8 Hours Drinking Water Analyses, Requested 2 - 8 Hours Wester Water
5 Working Days 24 Hours STANNACT Other
Client Date/Time Matrix # of Cont. Sequoia's Sample II D. Sampled Desc. Cont. Type Sample #
MW 8 115hg 12:42 80 WB COTE X C C T MIRE DEDECTIONS
2 MW-9 / 12:5 V 8 1 1 1 N800 WED 1 2
33 STATE ON FILM TIDY 8
BELIMBE IPHS
5 CHUWAZONYA
6 CAMETHOREOLO OLEGARICALE OL

Relinquished By:	•	Date	:	Time:	Received By Lab:	Date: 11/5/9)	Time: /4:40
Reilhquished By:		Date	16.	Time:	Received By:	Date:	Time:
Relinquished By	<u> </u>	Date	15199	Time: - -	Received By:	Date:	Time:
O A STATE OF THE S							
9			;		2年 多華 《春徽》。2 名 2 图 2		
8		1		AM WO			
7		193					

REGE"				MON	TORING WEL	L DEVELOP	MENT LOG		Page of	<u> </u>	
Well Numbe Date Time Start: Client Project Job Numbe	1/1/19 10:55 	(1),) (1)		Borehole Diameter Screen Length Measured Depth (pre-development) Measured Depth (post-development) Static Water Level (ft.) Standing Water Column (ft.) One Well Volume (gal.) One Annulus Vol. (gal.)					City. of Drilling Fluid Lost Minimum Gal. to be Purged Development Method Purging Equipment Water Level Equipment pH/EC Meter Turbidity Meter Other		
Time	Amount		_,,		Parameters Mea			GPM /	Comments	Field	
	Purged (gal)	EC	pΗ	Temp.	Turbidity	D.O,	SAL.	W.L.		Tech.	
10:38	5/10/4	16 (20)	14 E	Elline.	,						
10:58	- 55 (/	133	7.639	80.4	1 - 2 C 4 d 1 1 1 1 d 2	~ -	0,06	<	Joly Dengen		
11.04	i j	1.00	7.44	£2,3.		3	0.05	e de la companya de l	Line & Regardo		
11120	1 22	1,000	12, 38	17,8	2 3 3 7 7 7	X X	0 0 5	· · · · · · · · · · · · · · · · · · ·	Wolfer markoner	,	
11:50	16	1/1/29	1/100	50,1	27/1	*,	0.04		well de males		
11:37		17. 17.	6.94	231			: 30,5		recharges it		
Y			<u> </u>						ann 15:18 ple		
	<u> </u>	<u> </u>		EINA	L FIELD PARA	METER MEAS	UREMENTS				

KEGG				MON	ITORING WEL	L DEVELOP	MENT LOG		Page of	
,	All measureme	nts taken fron	n: , 🐧 Top of	Casing	Protective Ca	sing 🔲 Gro	ound Level		mple ID	
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				Field F	arameters Me	asured				
Time	Amount Purged /(gal)	EC	pH	Temp.	Turbidity	D.O.	SAL.	GPM W.L.	Comments	Field Tech
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				FINA	L FIELD PARAM	METER MEASI	JREMENTS			

APPENDIX D LABORATORY REPORTS

1039MWI.OAK IT CORPORATION



17 November, 1999

Dave Poley IT Corporation 4005 Port Chicago Hwy. Concord, CA 94520

RE: Sears

Enclosed are the results of analyses for samples received by the laboratory on 02-Nov-99 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



IT Corporation

4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Dave Poley **Reported:** 17-Nov-99 10:45

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Matrix	Date Sampled	Date Received	
W911084-01	Soil	02-Nov-99 09:27	02-Nov-99 17:00	
W911084-02	Soil	02-Nov-99 09:35	02-Nov-99 17:00	
W911084-03	Soil	02-Nov-99 09:44	02-Nov-99 17:00	
W911084-04	Soil	02-Nov-99 13:15	02-Nov-99 17:00	
W911084-05	Soil	02-Nov-99 13:35	02-Nov-99 17:00	
W911084-06	Soil	02-Nov-99 13:30	02-Nov-99 17:00	
-	W911084-01 W911084-02 W911084-03 W911084-04 W911084-05	W911084-01 Soil W911084-02 Soil W911084-03 Soil W911084-04 Soil W911084-05 Soil	W911084-01 Soil 02-Nov-99 09:27 W911084-02 Soil 02-Nov-99 09:35 W911084-03 Soil 02-Nov-99 09:44 W911084-04 Soil 02-Nov-99 13:15 W911084-05 Soil 02-Nov-99 13:35	W911084-01 Soil 02-Nov-99 09:27 02-Nov-99 17:00 W911084-02 Soil 02-Nov-99 09:35 02-Nov-99 17:00 W911084-03 Soil 02-Nov-99 09:44 02-Nov-99 17:00 W911084-04 Soil 02-Nov-99 13:15 02-Nov-99 17:00 W911084-05 Soil 02-Nov-99 13:35 02-Nov-99 17:00

Sequoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





IT Corporation

Project: Sears

4005 Port Chicago Hwy. Concord CA, 94520

Project Number: Sears # 1039 Project Manager: Dave Poley **Reported:** 17-Nov-99 10:45

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT Sequoia Analytical - Walnut Creek

							·	·	
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8-10 (W911084-01) Soil	Sampled: 02-Nov-99 09	:27 Receive	ed: 02-No	ov-99 17:00)				
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9K10002	10-Nov-99	10-Nov-99	DHS LUFT	
Benzene	ND	0.0050	п	n		n	••	rt .	
Toluene	ND	0.0050	11	11	II.	H	tt	11	
Ethylbenzene	ND	0.0050	Ħ	**	*1	п	II	**	
Xylenes (total)	ND ND	0.0050	II	· ·	n	11	11	tr	
Surrogate: a,a,a-Trifluorotoluen	e	85.0 %	40-	140	"	"	`"	"	
MW-8-16.5 (W911084-02) Soil	Sampled: 02-Nov-99	09:35 Recei	ved: 02-1	Nov-99 17:	00				
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9K10002	10-Nov-99	10-Nov-99	DHS LUFT	
Benzene	ND	0.0050	11	tr	**	11	11	"	
Toluene	ND	0.0050	Ħ	**	н	**	"	п	
Ethylbenzene .	ND	0.0050	II	**	*1	H	tt	"	
Xylenes (total)	ND	0.0050	"	п	19	11	п	ir.	
Surrogate: a,a,a-Trifluorotoluen	e	85.0 %	40-	140	"	"	"	"	
MW-8-18 (W911084-03) Soil	Sampled: 02-Nov-99 09	:44 Receive	ed: 02-No	v-99 17:00)				
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9K10002	10-Nov-99	10-Nov-99	DHS LUFT	
Benzene	ND	0.0050	11	"	п	"	11	11	
Toluene	ND	0.0050	**	tt	**	11	**	**	
Ethylbenzone	ND	0.0050	11	17	11		11	n	
Xylenes (total)	ND	0.0050	"	FF	17	H	"	11	
Surrogate: a,a,a-Trifluorotoluene	2	85.0 %	40-	140	"	Įt.	"	"	
MW-9-10 (W911084-04) Soil	Sampled: 02-Nov-99 13:	:15 Receive	d: 02-No	v-99 17:00					
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9K10002	10-Nov-99	10-Nov-99	DHS LUFT	
Benzene	ND	0.0050	"	n	**	ıt	11	11	
Toluene	ND	0.0050	**	h	H	11	u	Ħ	
Ethylbenzene	ND	0.0050	Ħ	n	**	н	**	11	
Xylenes (total)	ND	0.0050	**	11	rr .	17	n	**	
Surrogate: a,a,a-Trifluorotoluene	?	90.0 %	40-1	140	"	"	"	"	

Sequoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





IT Corporation

4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Dave Poley

Reported: 17-Nov-99 10:45

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9-16 (W911084-05) Soil	Sampled: 02-Nov-99 13	3:35 Receiv	ed: 02-No	ov-99 17:00)			<u> </u>	<u> </u>
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9K10002	10-Nov-99	10-Nov-99	DHS LUFT	
Benzene	ND	0.0050	n	Ħ	tr	11	"	"	
Toluene	ND	0.0050	***	11	**	н	11	11	
Ethylbenzene	ND	0.0050	H	n	rr	"	*1	**	
Xylenes (total)	ND	0.0050	*11	11	11	Ħ	H	ſſ	
Surrogate. a,a,a-Trifluorotoluen	ie	90.0 %	40-	140		,,	"	и	
MW-9-15 (W911084-06) Soil	Sampled: 02-Nov-99 13	:30 Receive	ed: 02-No	v-99 17:00	•				
Purgeable Hydrocarbons	ND	1.0	mg/kg	20	9K10002	10-Nov-99	10-Nov-99	DHS LUFT	
Benzene	ND	0.0050	"	**	**	į)	0	"	
Toluene	ND	0.0050	Ħ	*1	11	ęŧ	**	п	
Ethylbenzene	ND	0.0050	11	n	It	μ	п	•	
Xylenes (total)	ND	0.0050	ti .	**	,	"	**	U	
Surrogate: a,a,a-Trifluorotoluen	e	81.7%	40-	140	tt	"	"	"	

equoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of cust ody document. This analytical report must be reproduced in its entirety.



IT Corporation

4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Dave Poley

Reported: 17-Nov-99 10:45

Volatile Organic Compounds by EPA Method 8260A Sequoia Analytical - Walnut Creek

'									
Analyte	Result	Reporting Limit	Units	Dilution		Prepared	Analyzed	Method	Note
MW-8-10 (W911084-01) Soil	Sampled: 02-Nov-99 09:2	7 Receiv	ed: 02-No	v-99 17:00		<u> </u>			
tert-Butyl alcohol	ND	5.0	mg/kg	100	9K10023	09-Nov-99	10-Nov-99	EPA 8260A	
Methyl tert-butyl ether	ND	0.10	II	***	"	11	11	n	
Di-isopropyl ether	ND	0.10	11	r	II .	ıı	11	11	
Ethyl tert-butyl ether	ND	0.10	II	11	Ħ	11	**	tt	
1,2-Dichloroethane	ND	0.10	tr	n	n	H	11	**	
tert-Amyl methyl ether	ND	0.10	31	17	**	11	"	**	
1,2-Dibromoethane	ND	0.10	Ħ	Ħ	н	*	п	**	
Surrogate: Dibromofluoromethan	1e	96.0 %	50	150	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d	4	88.0 %	50	150	"	"	"	n	
MW-8-16.5 (W911084-02) Soil	Sampled: 02-Nov-99 09	35 Recei	ived: 02-N	lov-99 17:	00				
tert-Butyl alcohol	ND	5.0	mg/kg	100	9K10023	09 - Nov-99	10-Nov-99	EPA 8260A	
Methyl tert-butyl ether	ND	0.10	"	D	II .	tt	H	"	
Di-isopropyl ether	ND	0.10	11	**	Ħ	и	tt	**	
Ethyl tert-butyl ether	ND	0.10	**	11	11	17	"	ır	
1,2-Dichl.roethane	ND	0.10	II	**	**		**	**	
tert-Amyl methyl ether	ND	0.10	17	H	U	n	n	R	
1,2-Dibromoethane	ND	0.10	"	n	"	**	н	**	
Surrogate: Dibromofluoromethan	e	92.0 %	50-1	150	и	8	sı	"	
Surrogate: 1,2-Dichloroethane-d	1	80.0 %	50-1	150	u	"	"	"	
MW-8-18 (W911084-03) Soil S	Sampled: 02-Nov-99 09:44	4 Receive	ed: 02-Nov	v-99 17:00					
tert-Butyl alcohol	ND	5.0	mg/kg	100	9K10023	09-Nov-99	10-Nov-99	EPA 8260A	
Methyl tert-butyl ether	ND	0.10	ii _	11	n	"	0	lt	
Di-isopropyl ether	ND	0.10	Ħ		"	"	**	**	
Ethyl tert-butyl ether	ND	0.10	11	"	ш	H	ij	"	
1,2-Dichloroethane	ND	0.10	II	μ	٠	n,	ħ	n	
tert-Amyl methyl ether	ND	0.10	# 7	"	11	II .	"	"	
l,2-Dibromoethane	ND	0.10	11	11	11	**	n	11	
Surrogate: Dibromofluoromethan	е	96.0 %	50-1	50	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	,	84.0 %	50-1	50	"	"	n	"	

Sequoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



IT Corporation

4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Dave Poley

Reported: 17-Nov-99 10:45

Volatile Organic Compounds by EPA Method 8260A Sequoia Analytical - Walnut Creek

Analyte	Result	eporting Limit	Units	Dilution		Prepared	Analyzed	Method	Notes
MW-9-10 (W911084-04) Soil	Sampled: 02-Nov-99 13:15	Receiv	ed: 02-No	v-99 17:00)	**		· · · · · · · · · · · · · · · · · · ·	
tert-Butyl alcohol	ND	5.0	mg/kg	100	9K10023	09-Nov-99	10-Nov-99	EPA 8260A	<u></u>
Methyl tert-butyl ether	ND	0.10	11	11	11	**	11	n	
Di-isopropyl ether	ND	0.10	II	17	н	p	H	n	
Ethyl tert-butyl ether	ND	0.10	11	11	11	**	11	rr	
1,2-Dichloroethane	ND	0.10	tt	tr	Ħ	rr	**	11	
tert-Amyl methyl ether	ND	0.10	11	H	11	11	tt.	**	
1,2-Dibromoethane	ND	0.10	n	"	"	H.	**	U	
Surrogate: Dibromofluoromethe		96.0%	50-	150	"	п	п	<i>n</i>	
Surrogate: 1,2-Dichloroethane-	d4	84.0 %	50-	150	"	"	"	"	
MW-9-16 (W911084-05) Soil	Sampled: 02-Nov-99 13:35	Receive	ed: 02-No	v-99 17:00)				
tert-Butyl alcohol	ND	5.0	mg/kg	100	9K10023	09-Nov-99	10-Nov-99	EPA 8260A	
Methyl tert-butyl ether	ND	0.10	п	Ħ	"	11	"	II .	
Di-isopropyl ether	ND	0.10	11	**	11	71	п	**	
Ethyl tert-butyl ether	ND	0.10	11	rı	**	10	77	II.	
1,2-Dichloroethane	ND	0.10	tr	n	11	**	11	H	
tert-Amyl methyl ether	ND	0.10	**	п	17	u	n	и	
1,2-Dibromoethane	ND	0.10	11	**	17	**	**	π	
Surrogate: Dibromofluorometha	me	92.0 %	50-3	7.50	"	"	"	"	
Surrogate: 1,2-Dichloroethane-c	14	80.0 %	50-i	150	n	"	"	"	
MW-9-15 (W911084-06) Soil	Sampled: 02-Nov-99 13:30	Receive	d: 02-No	v-99 17: 00					
tert-Butyl alcohol	ND	5.0	mg/kg	100	9K10023	09-Nov-99	10-Nov-99	EPA 8260A	
Methyl tert-butyl ether	ND	0.10	"	10	**	п	*	11	
Di-isopropyl ether	ND	0.10	**	et	77	•	11	rt	
Ethyl tert-butyl ether	ND	0.10	11	19	tt	II .	u	11	
1,2-Dichlcroethane	ND	0.10	ff	h	79	**	11	II	
tert-Amyl methyl ether	ND	0.10	11	"	п	II .	н		
1,2-Dibromoethane	ND	0.10	II	IJ	**	tt	"	11	
Surrogate: Dibromofluorometha	ne	92.0 %	50-I	50	"	"	"	"	
Surrogate: 1,2-Dichloroethane-a	14	76.0 %	50-1	50	"	n	"	"	

sequoia Analytical - Walnut Creek

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IT Corporation

4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Dave Poley **Reported:** 17-Nov-99 10:45

Conventional Chemistry Parameters by APHA/EPA Methods Sequoia Analytical - Walnut Creek

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8-10 (W911084-01) Soil	Sampled: 02-Nov-99 09:27	Receiv	ed: 02-No	v-99 17:00)		,		
TRPH	9.2	5.0	mg/kg	1	9K11019	11-Nov-99	12-Nov-99	EPA 418.1	
MW-8-16.5 (W911084-02) So	il Sampled: 02-Nov-99 09:3	5 Recei	ived: 02-N	Nov-99 17:	00				
TRPH	ND	5.0	mg/kg	1	9K11019	11-Nov-99	12-Nov-99	EPA 418.1	
MW-8-18 (W911084-03) Soil	Sampled: 02-Nov-99 09:44	Receive	ed: 02-No	v-99 17:00)				
TRPH	ND	5.0	mg/kg	1	9K11019	11-Nov-99	12-Nov-99	EPA 418.1	
MW-9-10 (W911084-04) Soil	Sampled: 02-Nov-99 13:15	Receive	ed: 02-No	v-99 17:00	ļ				
TRPH	ND	5.0	mg/kg	1	9K11019	11-Nov-99	12-Nov-99	EPA 418.1	
MW-9-16 (W911084-05) Soil	Sampled: 02-Nov-99 13:35	Receive	ed: 02-No	v-99 17:00)				
TRPH	ND	5.0	mg/kg	1	9K15029	15 - Nov-99	15-Nov-99	EPA 418.1	
MW-9-15 (W911084-06) Soil	Sampled: 02-Nov-99 13:30	Receive	ed: 02-No	v-99 17:00	i				
TRPH	ND	5.0	mg/kg	1	9K15029	15-Nov-99	15-Nov-99	EPA 418 1	

equoia Analytical - Walnut Creek

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IT Corporation

4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Dave Poley **Reported:** 17-Nov-99 10:45

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9K10002: Prepared 10-	Nov-99 Using l	EPA 5030B	[МеОН]					•	"""	
Blank (9K10002-BLK1)		·								
Purgeable Hydrocarbons	ND	1.0	mg/kg	· <u>-</u>				•		
Benzene	ND	0.0050	n							
Toluene	ND	0.0050	11							
Ethylbenzene	ND	0.0050	H							
Xylenes (total)	ND	0.0050	11							
Surrogate: a,a,a-Trifluorotoluene	0.680	······································	"	0.600		113	40-140	···.	·	
LCS (9K10002-BS1)										
Benzene	0.880	0.0050	mg/kg	0.800		110	50-150			
Toluene	0.732	0.0050	п	0.800		91.5	50-150			
Ethylbenzene	0.754	0.0050	#	0.800		94.2	50-150			
Xylenes (total)	2.54	0.0050	0	2 40		106	50-150			
Surrogate: a,a,a-Trifluorotoluene	0		"	0 600			40-140			A-01
Matrix Spike (9K10002-MS1)					Source: W	V911 084- 0)3			
Benzene	0.830	0.0050	mg/kg	0.800	ND	104	50-150			
Toluene	0.696	0.0050	41	0.800	ND	87.0	50-150			
Ethylbenzene	0.706	0.0050	tf	0.800	ND	88.2	50-150			
Xylenes (ta⊅l)	2.42	0.0050	*1	2.40	ND	101	50-150			
Surrogate: a,a,a-Trifluorotoluene	0.456		,,	0.600		76.0	40-140	· ·		
Matrix Spike Dup (9K10002-MSD1)					Source: W	/911084-0	3			
Benzene	0.830	0.0050	mg/kg	0.800	ND	104	50-150	0	20	
Toluene	0.696	0.0050	11	0.800	ND	87.0	50-150	0	20	
Ethylbenzene	0.708	0.0050	11	0.800	ND	88.5	50-150	0.283	20	
Xylenes (total)	2.40	0.0050	rr .	2.40	ND	100	50-150	0.830	20	
Surrogate: a,a,a-Trifluorotoluene	0.462		"	0.600		77.0	40-140	•		

equoia Analytical - Walnut Creek

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IT Corporation

4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

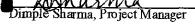
Project Number: Sears # 1039 Project Manager: Dave Poley **Reported:** 17-Nov-99 10:45

Volatile Organic Compounds by EPA Method 8260A - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9K10023: Prepared 09-Nov	-99 Using E	EPA 5030B	[MeOH]		,- <u></u>					
Blank (9K10023-BLK1)										
tert-Butyl alcohol	ND	5.0	mg/kg							
Methyl tert-butyl ether	ND	0.10	11							
Di-isopropyl ether	ND	0.10	"							
Ethyl tert-butyl ether	ND	0.10	11							
1,2-Dichloroethane	ND	0.10	н							
tert-Amyl methyl ether	ND	0.10	**							
1,2-Dibromoethane	ND	0.10	IT							
Surrogate: Dibromofluoromethane	2.65		"	2.50		106	50-150			
Surrogate: 1,2-Dichloroethane-d4	2.45		"	2.50		98.0	<i>50-150</i>			
LCS (9K10023-BS1)										
Methyl tert-butyl ether	2.61	0.10	mg/kg	2.50		104	70-130			
Surrogate: Dibromofluoromethane	2 75		"	2.50		110	50-150			
Surrogate: 1,2-Dichloroethane-d4	2.55		"	2.50		102	50-150			
Matrix Spike (9K10023-MS1)					Source: V	V911084-0	06			
Methyl tert-butyl ether	1.78	0.10	mg/kg	2.50	ND	71.2	60-140			
Surrogate: Dibromofluoromethane	2.10		"	2.50		84.0	50-150			
Surrogate: 1,2-Dichloroethane-d4	1 75		"	2.50		70.0	50-150			
Matrix Spike Dup (9K10023-MSD1)				i	Source: W	/911084-0)6			
Methyl tert-butyl ether	1.99	0.10	mg/kg	2.50	ND	79.6	60-140	11.1	25	
Surrogate: Dibromofluoromethane	2.10		"	2.50		84.0	50-150			·
Surrogate: 1,2-Dichloroethane-d4	1.75		n	2.50		70.0	50-150			

equoia Analytical - Walnut Creek

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IT Corporation

4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Dave Poley **Reported:** 17-Nov-99 10:55

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Note
Batch 9K11019: Prepared 11-Nov-99	Using l	EPA 3550A								
Blank (9K11019-BLK1)			····					···		
TRPH	ND	5.0	mg/kg		<u> </u>			····	<u> </u>	
LCS (9K11019-BS1)										
TRPH·	184	5.0	mg/kg	200		92.0	70-130			
Matrix Spike (9K11019-MS1)					Source: V	V911135-	01			
TRPH	226	5.0	mg/kg	200	89	68.5	60-140			
Matrix Spike Dup (9K11019-MSD1)					Source: V	V911135-	01			
rph .	247	5.0	mg/kg	200	89	79.0	60-140	8.88	30	
Batch 9K15029: Prepared 15-Nov-99	Using E	PA 3550A								
Blank (9K15029-BLK1)	· 						·	<u></u>		
ГRРH	ND	5.0	mg/kg						 -	·
LCS (9K15029-BS1)										
RPH	191	5.0	mg/kg	200		95.5	70-130			
Matrix Spike (9K15029-MS1)				:	Source: W	⁷ 911084-0	06			
RPH	168	5.0	mg/kg	200	ND	84.0	60-140			···-
Matrix Spike Dup (9K15029-MSD1)				:	Source: W	⁷ 911084-0)6			
RPH	152	5.0	mg/kg	200	ND	76.0	60-140	10.0	30	

equoia Analytical - Walnut Creek

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IT Corporation 4005 Port Chicago Hwy. Concord CA, 94520

Project: Sears

Project Number: Sears # 1039 Project Manager: Dave Poley **Reported:** 17-Nov-99 10:45

Notes and Definitions

A-01 The secondary surrogate recovery of 111% is used to validate the batch.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

equoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Were Samples Received in Good Condition? ☐ Yes ☐ No

CHAIN OF CUSTOD	Q 404 N □ 1455	N. Wiget Lane McDowell Blv	ite 8 Secramonia, CA-00334 • (010) 921-0000 FAX (916) 921-0100 ine • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673 Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342 Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612
Company Name: IT CORPORATION			Project Name: SEARS OAKLAND 1039
Mailing Address: 4005 PORT CHICA	is Hur		Billing Address (if different): W911084
City: CONCORD State: CA	Zip Code:	94820	
Telephone: 925.288.2117	FAX #: 928.288		P.O. #: W911083 A0113199
Report To: D. Pole Sampl	er: D. Roway		P.O. #: QC Data: □ Level D (Standard) □ Level C □ Level B □ Level A
Turnaround ■ 10 Working Days □ 3 Working Time: □ 7 Working Days □ 2 Working □ 5 Working Days □ 24 Hours	Days 🖸 2 - 8 Hou		Orinking Water Vaste Water Other Comments
Client Date/Time Matrix Sample I.D. Sampled Desc.	# of Cont. Cont. Type	Sequoia's Sample #	Other Comments
1. MW-8-10 11/2/19 0927 SOIL	1 Brass	OIA	Consignation
2MW-8-165 0935		02A	MIBE DETECTS
3.MW-8-B 0944	3	03A	VID EPA 8260.
4. MW-9-10 1315		04A	
5.11w-9-16 1335		05A	0466 y 418
6. MW-9-15 11/2/991330 3010	l Beass	06A	
7.			Run MIBEN S
8.		\	oxygenates by 8
9.			82.60 + (arrel =
10.			MTBE Configurations
Relinquished By:	P Date: (4/2/19	Time: 1700	Received By: Date: Time: on
Relinquished By:	Date:	Time:	Received By: Date: Time:
Relinquished By:	Date:	Time:	Received By Lab: Wy (mr.) Date: //2 Time: /7:00

Page ___ of ___



22 November, 1999

Melissa Gossell IT Corporation 4005 Port Chicago Hwy. Concord, CA 94520

RE: Sears

Enclosed are the results of analyses for samples received by the laboratory on 05-Nov-99 14:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



IT Corporation 4005 Port Chicago Hwy. Concord CA, 94520

Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell **Reported:** 22-Nov-99 16:11

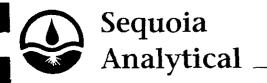
ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	W911177-01	Water	05-Nov-99 12:30	05-Nov-99 14:40
MW-3	W911177-02	Water	05-Nov-99 12:35	05-Nov-99 14:40
MW-6	W911177-03	Water	05-Nov-99 12:50	05-Nov-99 14:40
MW-7	W911177-04	Water	05-Nov-99 13:05	05-Nov-99 14:40
MW-4	W911177-05	Water	05-Nov-99 13:25	05-Nov-99 14:40
MW-5	W911177-06	Water	05-Nov-99 13:38	05-Nov-99 14:40
MW-2	W911177-07	Water	05-Nov-99 13:46	05-Nov-99 14:40
DUP	W911177-08	Water	05-Nov-99 13:47	05-Nov-99 14:40
TBLB	W911177-09	Water	05-Nov-99 00:00	05-Nov-99 14:40
MW-8	W911177-10	Water	05-Nov-99 12:42	05-Nov-99 14:40
MW-9	W911177-11	Water	05-Nov-99 12:55	05-Nov-99 14:40

equoia Analytical - Walnut Creek

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IT Corporation

4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

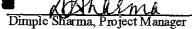
Project Number: Sears # 1039 Project Manager: Melissa Gossell Reported: 22-Nov-99 16:11

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT Sequoia Analytical - Walnut Creek

			J well			•			
Analyte	Result	Leporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W911177-01) Water	Sampled: 05-Nov-99 12:30	Receive	d: 05-No	v-99 14:40	1				
Purgeable Hydrocarbons	ND	50	ug/l	I	9K10003	10-Nov-99	10-Nov-99	EPA	
Benzene	ND	0.50	11	11	Ħ	11	11	8015M/8020	
Toluene	ND	0.50	11	**	н	"	**	**	
Ethylbenzene	ND	0.50	17	TT TT	11	ir	**	11	
Xylenes (total)	ND	0.50	11	**	"	ŧī	Ħ	**	
Methyl tert-butyl ether	ND	2.5	11	11	н	***	11	n	
Surrogate: a,a,a-Trifluorotolue	ene	93.3 %	70-	130	Ħ	"		#	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
MW-3 (W911177-02) Water	Sampled: 05-Nov-99 12:35	Receive	d: 05-No	v-99 14:40	ı				
Purgeable Hydrocarbons	ND	50	ug/l	1	9K10003	10-Nov-99	10-Nov-99	EPA	
Benzene	ND	0.50	rr	"	"	11	н	8015M/8020	
Foluene	ND	0.50	11	11	11	**	**	R	
Ethylbenzene	ND	0.50	r,	**	**	n	**	11	
Xylenes (total)	ND	0.50	11	n	11	"	11	•	
Methyl tert-butyl ether	ND	2.5	R	**	**	U	**	**	
Surrogate: a,a,a-Trifluorotolue	me	83.3 %	70-	130	#	11	"	rr .	
MW-6 (W911177-03) Water	Sampled: 05-Nov-99 12:50	Receive	d: 05-No	v-99 14:40					
urgeable Hydrocarbons	ND	50	ug/l	1	9K10003	10-Nov-99	10-Nov-99	EPA	
Benzene	ND	0.50	11	"		"	11	8015M/8020	
Toluene	ND	0.50	"	Ħ	11	11	n	11	
Ethylbenzene	ND	0.50	Ħ	**	*1	R	11		
Kylenes (total)	ND	0.50	31	tt	**	rr	11	Ħ	
Methyl tert-butyl ether	ND	2.5	H	11	11	11	tt	11	
Surrogate: a,a,a-Trifluorotolue	ne	83.3 %	70-	130	"	"	n	H	

equoia Analytical - Walnut Creek

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IT Corporation

4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell Reported: 22-Nov-99 16:11

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	R Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (W911177-04) Water	Sampled: 05-Nov-99 13:05	Receive	d: 05-No	v-99 14:40					P-0
Purgeable Hydrocarbons	2100	500	ug/l	10	9K10003	10-Nov-99	10-Nov-99	EPA	
Benzene	1200	5.0	11	11	н	11	n	8015M/8020	
Toluene	ND	5.0	**	"	10	17	11	Ħ	
Ethylbenzene	61	5.0	tr	"	**	11	"	If	
Xylenes (total)	25	5.0	*1	n	n	**	*	11	
Methyl tert-butyl ether	150	25	Ħ	**	11	Ħ	н	,,	
Surrogate: a,a,a-Trifluorotolue	ne	80.0 %	70-	130	"	"	"	"	
MW-4 (W911177-05) Water	Sampled: 05-Nov-99 13:25	Receive	d: 05-N o	v-99 14:40					
Purgeable Hydrocarbons	ND	50	ug/l	1	9K10003	10-Nov-99	10-Nov-99	EPA	_
Benzene	9.0	0.50	11	11	n	**	17	8015M/8020	
Toluene *	ND	0.50	n	**	**	rr rr	er	11	
Ethylbenzene	ND	0.50	11	H	"	#1	II	**	
Xylenes (total)	ND	0.50	H	11	n	r	11	H	
Methyl tert-butyl ether	ND	2.5	11	"	**	lt.	"	n	
Surrogate: a,a,a-Trifluorotoluer	ne	86.7%	70-	130	"	"	"	"	
MW-5 (W911177-06) Water	Sampled: 05-Nov-99 13:38	Receive	d: 05-No	v-99 14:4 0					P-0
Purgeable Hydrocarbons	160	50	ug/l	1	9K11002	11-Nov-99	11-Nov-99	EPA	_
Benzene	20	0.50	TT .	11	11	*	и	8015M/8020	
Toluene	ND	0.50	"	n	n	n	11	n	
Ethylbenzene	ND	0.50	FF.	11	n	11	n	11	
Kylenes (total)	0.76	0.50	11	**	11	ęŧ.	н	10	
Methyl tert-butyl ether	4.3	2.5	11	**	"	11	"	H	
Surrogate: a,a,a-Trifluorotoluen	10	96.7%	70-	7.20	,,	"	"	"	

equoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





IT Corporation

Project: Sears

4005 Port Chicago Hwy. Concord CA, 94520 Project Number: Sears # 1039 Project Manager: Melissa Gossell Reported: 22-Nov-99 16:11

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT Sequoia Analytical - Walnut Creek

Analyte	R Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (W911177-07) Water	Sampled: 05-Nov-99 13:46	Receive	d: 05-Nov-	99 14:40		_			P-01
Purgeable Hydrocarbons	320	50	ug/l	1	9K11002	11-Nov-99	11-Nov-99	EPA	
Benzene	63	0.50	11	11	11	1f	17	8015M/8020	
Toluene	0.68	0.50	11	"	**	51	11	**	
Ethylbenzene	0.65	0.50	II .	"		,	**	"	
Xylenes (total)	1.1	0.50	Ff	**	ŧŧ	r!	11	tt	
Methyl tert-butyl ether	11	2.5	11	**	11	**	11	11	
Surrogate: a,a,a-Trifluorotolue	ne	86.7%	70-13	80	"	n	n	"	
MW-8 (W911177-10) Water	Sampled: 05-Nov-99 12:42	Receive	d: 05-Nov-	99 14:40					
Purgeable Hydrocarbons	ND	50	ug/l	1	9K10003	10-Nov-99	10-Nov-99	EPA	
Benzene	ND	0.50	Ħ	**	"	н	"	8015M/8020	
Toluene	ND	0.50	11	n	n	"	Ħ	n	
Ethylbenzene	ND	0.50	n	#1	11	**	н	**	
Xylenes (total)	ND	0.50	11		"	,,	11	**	
Methyl tert-butyl ether	ND	2.5	**	**	11	"	"	"	
Surrogate: a,a,a-Trifluorotolue	ne	86.7%	70-13	80	"	п	"	"	
MW-9 (W911177-11) Water	Sampled: 05-Nov-99 12:55	Receive	d: 05-Nov-	99 14:40					
Purgeable Hydrocarbons	ND	50	ug/l	1	9K11002	11-Nov-99	11-Nov-99	EPA	
Benzene	ND	0.50	41	19	**	н	n	8015M/8020	
Toluene	ND	0.50	11	rt	11	H	"	**	
Ethylbenzene	ИD	0.50	11	11	11	11	Ħ	rr .	
Xylenes (total)	ND	0.50	H	**	11	*1	11	п	
Methyl tert-butyl ether	3.0	2.5	11	11	Ħ	Ħ	"	11	
Surrogate: a,a,a-Trifluorotolue	ne	83.3 %	70-13	0	"	"	"	"	

Sequoia Analytical - Walnut Creek

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IT Corporation

4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell **Reported:** 22-Nov-99 16:11

BTEX by DHS LUFT

Sequoia Analytical - Walnut Creek

Analyte	I Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DUP (W911177-08) Water	Sampled: 05-Nov-99 13:47	Received:	05-Nov-9	9 14:40					P-01
Benzene	60	0.50	ug/l	1	9K11002	11-Nov-99	11-Nov-99	EPA 8020	
Toluene	ND	0.50	II.	**	Ħ	n	"	11	
Ethylbenzene	0.67	0.50	11	*	"	**	**	11	
Xylenes (total)	1.0	0.50	11	##	tt	11	11		
Surrogate: a,a,a-Trifluorotolu	iene	86.7%	70-1	30	u	"	11	"	
TBLB (W911177-09) Water	Sampled: 05-Nov-99 00:00	Receive	I: 05-Nov	99 14:40					
Benzene	ND	0.50	ug/l	1	9K10003	10-Nov-99	10-Nov-99	EPA 8020	
Foluene	ND	0.50	n	11	"	••		п	
Ethylbenzene	ND	0.50	11	11	"	rt	11	**	
Xylenes (total)	ND	0.50	H	Ħ	11	11	"	ir	
Surrogate: a,a,a-Trifluorotolu	ene	86.7%	70-1	30	"	"	"	"	

equoia Analytical - Walnut Creek

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IT Corporation 4005 Port Chicago Hwy.

Concord CA, 94520

Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell **Reported:** 22-Nov-99 16:11

MTBE Confirmation by EPA Method 8260A

Sequoia Analytical - Walnut Creek

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (W911177-04) Water	Sampled: 05-Nov-99 13:05	Receive	d: 05-Nov-	99 14:40					A-01
Methyl tert-butyl ether	11	2.0	ug/l	1	9K15021	12-Nov-99	14-Nov-99	EPA 8260A	
Surrogate: Dibromofluoromethe	ne	120 %	50-15	50	"	п	"	"	
Surrogate: 1,2-Dichloroethane-		112%	50-15	50	"	"	**	"	
MW-5 (W911177-06) Water	Sampled: 05-Nov-99 13:38	Receive	d: 05-Nov-	99 14:40					A-01
Methyl tert-butyl ether	ND	2.0	ug/l	1	9K15021	12-Nov-99	14-Nov-99	EPA 8260A	
Surrogate: Dibromofluoromethe	ine	108 %	50-15	0	n	"	п	и	
Surrogate: 1,2-Dichloroethane-	d4	102 %	50-15	0	"	"	"	"	
MW-2 (W911177-07) Water	Sampled: 05-Nov-99 13:46	Received	d: 05-Nov-	99 14:40					A-01
Methyl tert-butyl ether	ND	2.0	ug/l	1	9K15021	12-Nov-99	14-Nov-99	EPA 8260A	·
Surrogate: Dibromofluorometho	me	108 %	50-15	0	"	"	"	"	
Surrogate: 1,2-Dichloroethane-	<i>i</i> 4	104 %	50-15	0	Ħ	"	"	"	
MW-9 (W911177-11) Water	Sampled: 05-Nov-99 12:55	Received	d: 05-Nov-9	99 14:40					
Methyl tert-butyl ether	2.4	2.0	ug/l	1	9K15021	12-Nov-99	14-Nov-99	EPA 8260A	
Surrogate: Dibromofluorometha	ne	112 %	50-15	ō	н	п	"	"	-
Surrogate: 1,2-Dichloroethane-c	14	110 %	50-15	0	**	"	"	"	

equoia Analytical - Walnut Creek

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IT Corporation

4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell Reported: 22-Nov-99 16:11

Volatile Organic Compounds by EPA Method 8010B

Sequoia Analytical - Walnut Creek

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W911177-01) Water	Sampled: 05-Nov-99 12:30	Receive	d: 05-No	v-99 14:40					
Bromodichloromethane	ND	0.50	ug/l	1	9K16005	16-Nov-99	16-Nov-99	EPA 8010B	
Bromoform	ND	0.50	lt .	Ħ	11	11	11	н	
Bromomethane	ND	1.0	II	11	,,	11	H	11	
Carbon tetrachloride	ND	0.50	**	**	P	r	If .	et	
Chlorobenzene	ND	0.50	ti	11	н	11	**	11	
Chloroethane	ND	1.0	**		tt	11	n	H	
Chloroform	ND	0,50	II	Ħ	11	11	**	11	
Chloromethane	ND	1.0	"	te .	Ħ	tt	n	н	
Dibromochloromethane	ND	0.50	11	tı	11	11	¥	11	
1,3-Dichlorobenzene	ND	0.50		*	n	*	н	er	
1,4-Dichlorobenzene	ND	0.50	11	11	**	"	**	11	
1,2-Dichlorobenzene	ND	0.50	Ħ	**	11	n	tt	Ħ	
1,1-Dichloroethane	ND	0.50	11	11	**	"	**	11	
1,2-Dichloroethane	ND	0.50	#	10	n	Ħ	n	H	
1,1-Dichloroethene	ND	0.50	11	н	"	**	••	11	
cis-1,2-Dichloroethene	ND	0.50	n	**	H	r	"	h	
trans-1,2-Dichloroethene	ND	0.50	11	tı	*	**	"	11	
1,2-Dichloropropane	ND	0.50	rr .	н	11	ti.	tt	tt	
cis-1,3-Dichloropropene	ND	0.50	91	1)	*	79	"	11	
rans-1,3-Dichloropropene	ND	0.50	Ħ	**	*	n	Ħ	11	
Methylene chloride	ND	5.0	**	11	**	**	**	11	
1,1,2,2-Tetrachloroethane	ND	0.50	н	"	n	rr	"	11	
Fetrachloroethene	20	0.50	1 1	11	**	11	**	**	
1,1,1-Trichloroethane	ND	0.50	tr.	**	n	н	n	ST:	
1,1,2-Trichloroethane	ND .	0.50	**	"	"	**	**	H	
[richloroethene	ND	0.50	11	**	н	Ħ		n	
[richlorofluoromethane	ND	0.50	**	11	**	.,	**	n	
Vinyl chloride	ND	1.0	11	tt	u	u	**	W	
Surrogate: Dibromodifluoromet	hane	98.0 %	50-1	50	"	"	"	"	
Surrogate: 4-Bromofluorobenze	ne	94.0 %	50-1	50	"	"	"	"	

sequoia Analytical - Walnut Creek

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IT Corporation

4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell **Reported:** 22-Nov-99 16:11

Volatile Organic Compounds by EPA Method 8010B

Sequoia Analytical - Walnut Creek

Analyte	R Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (W911177-02) Water	Sampled: 05-Nov-99 12:35	Receive	d: 05-No	v-99 14:40					
Bromodichloromethane	ND	0.50	ug/l	1	9K16005	16-Nov-99	16-Nov-99	EPA 8010B	
Bromoform	ND	0.50	11	h	rr	**	11	TI .	
Bromomethane	ND	1.0	11	**	**	n	***	n	
Carbon tetrachloride	ND	0.50	rr	Ħ	**	11		•	
Chlorobenzene	ND	0.50	11	fr		**	H	**	
Chloroethane	ND	1.0	17	11	Ħ	rr	11	11	
Chloroform	ND	0.50	11	"	11	11	**	н	
Chloromethane	ND	1.0	11	н	**	**		11	
Dibromochloromethane	ND	0.50	n	11	If	Ħ	11	"	
1,3-Dichlorobenzene	ND	0.50	11	P	11	n		n	
1,4-Dichlorobenzene	ND	0.50		Ħ	ŧr	11	Ħ	11	
1,2-Dichlorobenzene	ND	0.50	П	"	ti	11	#1	tt	
1,1-Dichloroethane	ND	0.50	19	U	•	19	**	11	
1,2-Dichloroethane	ND	0.50	п	11	tr		11	**	
1,1-Dichloroethene	ND	0.50	11		11	n	**	0	
cis-1,2-Dichloroethene	ND	0.50	27	11	**	**	Ħ	11	
trans-1,2-Dichloroethene	ND	0.50	11	**	II	H	11	tr	
1,2-Dichloropropane	ND	0.50	**	п	"	u	**	11	
cis-1,3-Dichloropropene	ND	0.50	ır	11	11	**	n	**	
trans-1,3-Dichloropropene	ND	0.50	11	Nr.	11	n	11	tr	
Methylene chloride	, ND	5.0	TP.	U	**	**	tr	"	
1,1,2,2-Tetrachloroethane	ND	0.50	11		tr	"	tr	n	
Tetrachloroethene	7.2	0.50	**	Ħ	11	H	11	1T	
1,1,1-Trichloroethane	ND	0.50	II	11	"	*1	n	•	
1,1,2-Trichloroethane	ND	0.50	11	**	11	**	n	H	
Trichloroethene	ND	0.50	n	n	"	11	**	"	
Trichlorofluoromethane	ND	0.50	11	77		"	n	"	
Vinyl chloride	ND	1.0	**	rr	11	"	11	11	
Surrogate: Dibromodifluorometi	hane	98.0 %	50-1	50	"	"	"	n	
Surrogate: 4-Bromofluorobenzei	ne e	96.0 %	50-1	50	"	"	"	"	

Sequoia Analytical - Walnut Creek

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4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell **Reported:** 22-Nov-99 16:11

Volatile Organic Compounds by EPA Method 8010B

Sequoia Analytical - Walnut Creek

									
Analyte	R Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (W911177-03) Water	Sampled: 05-Nov-99 12:50	Receive	d: 05-No	v-99 14:40					
Bromodichloromethane	ND	0.50	ug/l	1	9K16005	16-Nov-99	16-Nov-99	EPA 8010B	
Bromoform	ND	0.50	**	11	11	**	"	n	
Bromomethane	ND	1.0	п	**	,,	11	Ħ	**	
Carbon tetrachloride	ND	0.50	**	11	Ħ	11		"	
Chlorobenzene	ND	0.50	n	**	11	"	11	11	
Chloroethane	ND	1.0	11	"	**	*1	"	"	
Chloroform	ND	0.50	Ħ	**	11	"	**	11	
Chloromethane	ND	1.0	11	Ħ	**	n	11		
Dibromochloromethane	ND	0.50	ĸ	н	11	n	n	n	
1,3-Dichlorobenzene	ND	0.50	н	**	"	**	n	11	
1,4-Dichlorobenzene	ND	0.50	ij.	11	n	11	**	***	
1,2-Dichlorobenzene	ND	0.50	н	"	11	**	"	11	
1,1-Dichloroethane	ND	0.50	*1	u	11	rr -	11		
1,2-Dichloroethane	1.2	0.50	11	11	11	11	•	tr	
1,1-Dichloroethene	ND	0.50	11	**	,,	**	n	71	
cis-1,2-Dichloroethene	ND	0.50	"	n	"	It	11	tt	
trans-1,2-Dichloroethene	ND	0.50	п	**	11	"	и	11	
1,2-Dichloropropane	ND	0.50	19	11	n	TP .	11	··	
cis-1,3-Dichloropropene	ND	0.50	11	**	11	*11	*	11	
trans-1,3-Dichloropropene	ND	0.50	•	11	"	11	If	**	
Methylene chloride	5.6	5.0	11	11	11	11		H	
1,1,2,2-Tetrachloroethane	ND	0.50	**	**		**	r	11	
Tetrachloroethene	0.89	0.50	n	н	17	11	11	tt .	
1,1,1-Trichloroethane	ND	0.50	"	**	**		tt	n	
1,1,2-Trichloroethane	ND	0.50	n	n	11	r	'n	"	
Trichloroethene	0.89	0.50	**	e	*1	"	#	ถ	
Trichlorofluoromethane	ND	0.50	ır	н	11	tr	U	n	
Vinyl chloride	ND	1.0	"	**	*1	"	**	tı.	
Surrogate: Dibromodifluorometh	ane	65.0 %	50-	150	"	"	"	"	
Surrogate: 4-Bromofluorobenzen	e	96.0 %	50-1	150	"	"	"	"	

Sequoia Analytical - Walnut Creek

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4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell

Reported: 22-Nov-99 16:11

Volatile Organic Compounds by EPA Method 8010B Sequoia Analytical - Walnut Creek

Analyte	R Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (W911177-04) Water	Sampled: 05-Nov-99 13:05	Receive	d: 05-No	v-99 14:40					
Bromodichloromethane	ND	0.50	ug/l	1	9K16005	16-Nov-99	16-Nov-99	EPA 8010B	
Bromoform	ND	0.50	Ħ	**	11	11	rr .	rr	
Bromomethane	ND	1.0	ш	n	w	n	11	n	
Carbon tetrachloride	ND	0.50	17	**	**	Ħ		"	
Chlorobenzene	ND	0.50	ii .	"	н	*1	n	n	
Chloroethane	ND	1.0	11	"		H	11	11	
Chloroform	ND	0.50	tt	11	tr	17	"	"	
Chloromethane	ND	1.0	Ħ		**	н	17	11	
Dibromochloromethane	ND	0.50	11	11		11	"	**	
1,3-Dichlorobenzene	ND	0.50	Ħ	**	11	ų.	"	**	
1,4-Dichlorobenzene	ND	0.50	11	ŧŧ	**	tt	11	11	
1,2-Dichlorobenzene	ND	0.50	ti	11	Ħ	11		"	
1,1-Dichloroethane	ND	0.50	11	**	11	*	11	ır	
1,2-Dichloroethane	95	2.5	rr	5	rr	ır	**	**	
1,1-Dichloroethene	ND	0.50	п	1	11	"	н	ti	
cis-1,2-Dichloroethene	1.6	0.50	"	Ħ	"	r	91	11	
trans-1,2-Dichloroethene	ND	0.50	11	11	п	41	Ħ	н	
1,2-Dichloropropane	ND	0.50	n	"	11	*	11	11	
cis-1,3-Dichloropropene	ND	0.50	n	11	II .	11	*	**	
trans-1,3-Dichloropropene	ND	0.50	91	**	11		IF	н	
Methylene chloride	ND	5.0	11	11	n	17	e e	11	
1,1,2,2-Tetrachloroethane	ND	0.50	17	**	41	"	**	**	
Tetrachloroethene	3.7	0.50	rr .	"	"	r	11	ti	
1,1,1-Trichloroethane	ND	0.50	11	11	Ħ	11	"	**	
1,1,2-Trichloroethane	ND	0.50	Ħ	*	**	,,	1)	n	
Trichloroethene	7.8	0.50	11	tr	**	Ħ	"	#	
Trichlorofluoromethane	ND	0.50	н	•	11	11	H	n	
Vinyl chloride	ND	1.0	†I	77	"	tr	"	ti	
Surrogate: Dibromodifluoromet	hane	72.0 %	50-1	50	"	"	"	#	
Surrogate: 4-Bromofluorobenze	ne	100 %	50-1	50	"	"	"	"	

Sequoia Analytical - Walnut Creek

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4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell **Reported:** 22-Nov-99 16:11

Volatile Organic Compounds by EPA Method 8010B Sequoia Analytical - Walnut Creek

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (W911177-05) Water	Sampled: 05-Nov-99 13:25	Receive	d: 05-N o	v-99 14:40					
Bromodichloromethane	ND	0.50	ug/l	1	9K16005	16-Nov-99	16-Nov-99	EPA 8010B	
Bromoform	ND	0.50	ır	n	н	rr	n	**	
Bromomethane	ND	1.0	11	n	**	*1	H	n	
Carbon tetrachloride	ND	0.50	fr	n	**	Ħ	n	и	
Chlorobenzene	ND	0.50	17	**	**	"	*1	rt .	
Chloroethane	ND	1.0	n	tt .	Ħ	H	"	11	
Chloroform	ND	0.50	**	**	"	"	**	pt .	
Chloromethane	ND	1.0	n	11	Ħ	Ħ	tr	11	
Dibromochloromethane	ND	0.50	**	**	**	11	*1	H	
1,3-Dichlorobenzene	ND	0.50	П	11	tr	"	n	11	
1,4-Dichlorobenzene	ND	0.50	TT .		"	"	71	ef	
1,2-Dichlorobenzene	ND	0.50	11	11	tt	II	11	15	
1,1-Dichloroethane	ND	0.50	**	*	11	11	**	er	
1,2-Dichloroethane	ND	0.50	11	n n	n	ır	17	19	
1,1-Dichloroethene	ND	0.50	H	**	"	**	**	tr	
cis-1,2-Dichloroethene	ND	0.50	10	11	n	Ħ	n	n	
trans-1,2-Dichloroethene	ND	0.50	n	"	**	**	**	er	
1,2-Dichloropropane	ND	0.50	**	"	11	11	ш	11	
cis-1,3-Dichloropropene	ND	0.50	n	n			11	**	
trans-1,3-Dichloropropene	ND	0.50	**	11	11	ţı	n ·	"	
Methylene chloride	8.2	5.0	11	п	n	**	**	Ħ	
1,1,2,2-Tetrachloroethane	ND	0.50	Ħ	11	11	11	Ħ	11	
Tetrachloroethene	ND	0.50	11	rt .	"	"	**	**	
1,1,1-Trichloroethane	ND	0.50	II	,,	"	,,	11	17	
1,1,2-Trichloroethane	ND	0.50	n	н	rt	ır	u	"	
Trichloroethene	ND	0.50	II	,,	n	11	11		
Trichlorofluoromethane	ND	0.50	"	11	n	**	11	**	
Vinyl chloride	ND	1.0	11	"		**	17	11	
Surrogate: Dibromodifluorometi		80.0 %	50-1	50	"	"	"	и	
Surrogate: 4-Bromofluorobenzei	ne	83.0 %	50-1	50	"	"	"	"	

Sequoia Analytical - Walnut Creek

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4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell **Reported:** 22-Nov-99 16:11

Volatile Organic Compounds by EPA Method 8010B

Sequoia Analytical - Walnut Creek

	, D	eporting	<u> </u>		······································		· · · · · · · · · · · · · · · · · · ·		
Analyte	Result	Eporung Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (W911177-06) Water	Sampled: 05-Nov-99 13:38	Receive	d: 05-No	v-99 14:40		<u></u>			
Bromodichloromethane	ND	0.50	ug/l	1	9K16005	16-Nov-99	16-Nov-99	EPA 8010B	
Bromoform	ND	0.50	**	11	**	II	11	ęr	
Bromomethane	ND	1.0	п	"	Ħ	11	••	п	
Carbon tetrachloride	ND	0.50	11	"	**	"	11	"	
Chlorobenzene	ND	0.50	H	11		rr .	11	u	
Chloroethane	ND	1.0	u	n	11	n	n	n	
Chloroform	ND	0.50	"	rt	"	rr	17	**	
Chloromethane	ND	1.0	11	"	n	н	**	**	
Dibromochloromethane	ND	0.50	11	n	11	***	**	u	
1,3-Dichlorobenzene	ND	0.50	п	**	"	**	11	**	
_1,4-Dichlorobenzene	ND	0.50	11	н	н	11	11	n	
1,2-Dichlorobenzene	ND	0.50	Ħ	11	"	**	rr	n	
1,1-Dichloroethane	ND	0.50	ti	••	Ħ	1)	11	**	
1,2-Dichloroethane	ND	0.50	Ħ	ır	11	11	**	п	
1,1-Dichloroethene	ND	0.50	ti	"	**	n	n	**	
cis-1,2-Dichloroethene	ND	0.50	11	tt	u	н	**	tr	
trans-1,2-Dichloroethene	ND	0.50	tt	41	71		It	11	
1,2-Dichloropropane	ND	0.50	11	"	Ħ	н	**	Ħ	
cis-1,3-Dichloropropene	ND	0.50	Ħ	17	11	11	"	It	
trans-1,3-Dichloropropene	ND	0.50	n	##	**	**	11	**	
Methylene chloride	5.5	5.0	Ħ	11	11	11	W	rr .	
1,1,2,2-Tetrachloroethane	ND	0.50	IJ	11	"	*	n	11	
Tetrachloroethene	ND	0.50	17	ir	n	n	n		
1,1,1-Trichloroethane	ND	0.50	Ħ	11	11	11	"	n	
1,1,2-Trichloroethane	ND	0.50	11	"	**	**	Ir	11	
Trichloroethene	ND	0.50	Ħ	11	n	11	**	**	
Trichlorofluoromethane	ND	0.50	IJ	n	71		H	II	
Vinyl chloride	ND	1.0	"	n	rr	17	11	"	
Surrogate: Dibromodifluorometh		81.0 %	50-	150	"	"	"	"	
Surrogate: 4-Bromofluorobenzen	e	100 %	50-	150	"	"	"	"	

sequoia Analytical - Walnut Creek

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4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell **Reported:** 22-Nov-99 16:11

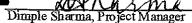
Volatile Organic Compounds by EPA Method 8010B

Sequoia Analytical - Walnut Creek

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
MW-2 (W911177-07) Water	Sampled: 05-Nov-99 13:46	Receive	d: 05-No	v-99 14:40					
Bromodichloromethane	ND	0.50	ug/l	1	9K16005	16-Nov-99	16-Nov-99	EPA 8010B	
Bromoform	ND	0.50	W.	"	11	Ħ	n	11	
Bromomethane	ND	1.0	Ħ	"	n	41	11	n	
Carbon tetrachloride	ND	0.50	17	11	n	**	н	77	
Chlorobenzene	ND	0.50	11	Ħ	11	11	11	n	
Chloroethane	ND	1.0	"	11	11	**	11	17	
Chloroform	ND	0.50	tt	**	**	11	**	*1	
Chloromethane	ND	1.0	ŧı	Ħ	11		31	rr .	
Dibromochloromethane	ND	0.50	n	,,	"	н	"	**	
1,3-Dichlorobenzene	ND	0.50	**	n	11	**	11	11	
1,4-Dichlorobenzene	ND	0.50	n	"		11	11	*1	
1,2-Dichlorobenzene	ND	0.50	**	Ħ	11	"	11	Ħ	
1,1-Dichloroethane	ND	0.50	11	11	"	JP	**	**	
1,2-Dichloroethane	41	0.50	**	Ħ	11	11	ti	H	
1,1-Dichloroethene	ND	0.50	Ħ	11	**	H	**	**	
cis-1,2-Dichloroethene	1.3	0.50	11	n	Ħ	11	ti	**	
trans-1,2-Dichloroethene	ND	0.50	II	**	11	If	**	11	
1,2-Dichloropropane	ND	0.50	**	**	н	**	n	"	
cis-1,3-Dichloropropene	ND	0.50	lt .	**	**	π	**	**	
trans-1,3-Dichloropropene	ND	0.50	**	P	11	"	Ħ	и	
Methylene chloride	6.1	5.0	11	11	H	11			
1,1,2,2-Tetrachloroethane	ND	0.50	"	n	11	**	ti	II.	
Tetrachloroethene	ND	0.50	Ħ	**	**	H	**	11	
1,1,1-Trichloroethane	ND	0.50	Ħ	Ħ	11	*	h	11	
1,1,2-Trichloroethane	ND	0.50	n	**	"	tt.	**		
Trichloroethene	13	0.50	rr .	11	11	**	Ħ	īì	
Trichlorofluoromethane	ND	0.50	11	••	**	tr	**	H	
Vinyl chloride	ND	1.0	"	tr	"	*		11	
Surrogate: Dibromodifluorometh	ane	33.0 %	50-1	50	+1	**	#	11	
Surrogate: 4-Bromofluorobenzen	2	120 %	50-1	50	"	"	"	u	

Sequoia Analytical - Walnut Creek

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4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell **Reported:** 22-Nov-99 16:11

Volatile Organic Compounds by EPA Method 8010B

Sequoia Analytical - Walnut Creek

-	_ _								
Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (W911177-10) Water	Sampled: 05-Nov-99 12:42	Receive	d: 05-No	v-99 14:40	 			<u> </u>	<u> </u>
Bromodichloromethane	ND	0.50	ug/l	1	9K16005	16-Nov-99	16-Nov-99	EPA 8010B	
Bromoform	ND	0.50	11	Н	11	n	н	11	
Bromomethane	ND	1.0	H.	"	••	11	17	**	
Carbon tetrachloride	ND	0.50	n	n	#				
Chlorobenzene	ND	0.50	9	11	**	11	n	n	
Chloroethane	ND	1.0	11	**	11	"	11	11	
Chloroform	ND	0.50	31	11	**	17		H	
Chloromethane	ND	1.0	n	rr .	n	**	11	11	
Dibromochloromethane	ND	0.50	"	11	17	n		11	
1,3-Dichlorobenzene	ND	0.50	п	Ħ	Ħ	**	11	**	
1,4-Dichlorobenzene	ND	0.50	#	11	**	Ħ	**	rr	
1,2-Dichlorobenzene	ND	0.50	11	n	n	,,	11	**	
1,1-Dichloroethane	ND	0.50	"	**	**	17	H	lr .	
1,2-Dichloroethane	ND	0.50	11	n	n	н	11	**	
1,1-Dichloroethene	ND	0.50	H.	11	11	Ħ	"	It	
cis-1,2-Dichloroethene	ND	0.50	11	ч	н	"	11	•	
trans-1,2-Dichloroethene	ND	0.50	**	11	11	n	R	11	
_1,2-Dichloropropane	ND	0.50	#1	n	н	,,	ш	**	
cis-1,3-Dichloropropene	ND	0.50	rr .	11	11	Ħ	,,	11	
trans-1,3-Dichloropropene	ND	0.50	*1	н	n	"	н	n	
Methylene chloride	6.0	5.0	11	19	w	11	**	11	
1,1,2,2-Tetrachloroethane	ND	0.50	**	**	H	"	IJ	n	
Tetrachloroethene	6.2	0.50	II	11	11	n	**	11	
1,1,1-Trichloroethane	ND	0.50	*1	11	rr	**	Ir	"	
1,1,2-Trichloroethane	ND	0.50	II	11	11	11	**	11	
Trichloroethene	ND	0.50	•	tr	41		**	п	
Trichlorofluoromethane	ND	0.50	П	n	17	"	**	"	
Vinyl chloride	ND	1.0	"	"	**	*1	п	n	
Surrogate: Dibromodifluorometh		80.0 %	50-1	50	"	"	"	"	
Surrogate: 4-Bromofluorobenzen	e	110 %	50-1	50	"	"	"	"	

sequoia Analytical - Walnut Creek

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4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell **Reported:** 22-Nov-99 16:11

Volatile Organic Compounds by EPA Method 8010B

Sequoia Analytical - Walnut Creek

Analyte	R Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (W911177-11) Water	Sampled: 05-Nov-99 12:55	Receive	d: 05-No	v-99 14:40					
Bromodichloromethane	ND	0.50	ug/l	1	9K16005	16-Nov-99	16-Nov-99	EPA 8010B	
Bromoform	ND	0.50	rr	11	tt.	Ħ	**	u	
Bromomethane	ND	1.0	11	н	**	Ħ	ц	tt	
Carbon tetrachloride	ND	0.50	**	"	"	11	**	**	
Chlorobenzene	ND	0.50	11	H	11	Ħ		n	
Chloroethane	ND	1.0	\$1	in	n	11	n	Ħ	
Chloroform	ND	0.50	m	"	11	11	n	11	
Chloromethane	ND	1.0	11	11	11	17	"	er .	
Dibromochloromethane	ND	0.50	H	ii.	н	"	I)	11	
1,3-Dichlorobenzene	ND	0.50	11	n	11	**	**	**	
1,4-Dichlorobenzene	ND	0.50	"	**		n	"	11	
1,2-Dichlorobenzene	ND	0.50	n	n	11	**	#	**	
1,1-Dichloroethane	ND	0.50	11	**	"	11	Ħ	TI .	
1,2-Dichloroethane	32	0.50	n	"	17	*	ìr	**	
1,1-Dichloroethene	ND	0.50	"	н	11	tf .	19	tr	
cis-1,2-Dichloroethene	ND	0.50	rr .	11	**	11	rr	**	
trans-1,2-Dichloroethene	ND	0.50	11	11	41	r	11	"	
1,2-Dichloropropane	ND	0.50	rr	**	Ħ	11		11	
cis-1,3-Dichloropropene	ND	0.50	11	11	н	"	11	**	
trans-1,3-Dichloropropene	ND	0.50	rt .	11	74	+r		11	
Methylene chloride	ND	5.0	11	Ħ	11	н	11		
1,1,2,2-Tetrachloroethane	ND	0.50	rı .	*1	11	н	"	н	
Tetrachloroethene	65	2.5	11	5	H.	U	rr	"	
1,1,1-Trichloroethane	ND	0.50	17	1	11	n	"	n	
1,1,2-Trichloroethane	ND	0.50	11	"	н	11	P	11	
Trichloroethene	29	0.50	"	11		-	#	Ħ	
Trichlorofluoromethane	ND	0.50	11	"		11	Ħ	11	
Vinyl chloride	ND	1.0	II	II	11	tt	II	tr	
Surrogate: Dibromodifluorometh	ane	81.0 %	50-1	50	"	"	"	"	
Surrogate: 4-Bromofluorobenzen	ne	140 %	50-1	50	"	"	#	"	

Sequoia Analytical - Walnut Creek

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IT Corporation

4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell **Reported:** 22-Nov-99 16:11

Conventional Chemistry Parameters by APHA/EPA Methods Sequoia Analytical - Walnut Creek

Analyte	R Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (W911177-03) Water	Sampled: 05-Nov-99 12:50	Receive	d: 05-No	v-99 14:40		· · ·			
TRPH MW-4 (W911177-05) Water	ND Sampled: 05-Nov-99 13:25	5.0 Receive	mg/l d: 05-No	1 v-99 14:40	9K18024	18-Nov-99	18-Nov-99	SM 5520C/F	
TRPH MW-8 (W911177-10) Water	ND Sampled: 05-Nov-99 12:42	5.0 Receive	mg/l d: 05-No	1 v-99 14:40	9K18024	18-Nov-99	18-Nov-99	SM 5520C/F	
TRPH MW-9 (W911177-11) Water	ND Sampled: 05-Nov-99 12:55	5.0 Receive	mg/l d: 05-N o	1 v-99 14:40	9K18024	18-Nov-99	18-Nov-99	SM 5520C/F	-
TRPH	ND	5.0	mg/l	1	9K18024	18-Nov-99	18-Nov-99	SM 5520C/F	

Sequoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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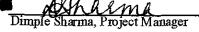
4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell **Reported:** 22-Nov-99 16:11

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9K10003: Prepared 10-Nov	-99 Using E	PA 5030B	P/Tj							
Blank (9K10003-BLK1)						_			-	
Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	n							
Toluene	ND	0.50	•							
Ethylbenzene	ND	0.50	rr							
Xylenes (total)	ND	0.50	M							
Methyl tert-butyl ether	ND	2.5	n							
Surrogate: a,a,a-Trifluorotoluene	27.7		"	30.0		92.3	70-130			
LCS (9K10003-BS1)										
Benzene	20.5	0.50	ug/l	20.0		103	70-130			
Toluene	20.7	0.50	11	20.0		104	70-130			
Ethylbenzene	20.5	0.50	H	20.0		103	70-130			
Xylenes (total)	63.8	0.50	*1	60.0		106	70-130			
Surrogate: a,a,a-Trifluorotoluene	25.8		"	30.0	·· <u> </u>	86.0	70-130		*****	
Matrix Spike (9K10003-MS1)					Source: V	V911177-	01			
Benzene	21.7	0.50	ug/l	20.0	ND	109	70-130			
Toluene	22.2	0.50	TI .	20.0	ND	111	70-130			
Ethylbenzene	22.3	0.50	"	20.0	ND	111	70-130			
Xylenes (total)	69.3	0.50	11	60.0	ND	116	70-130			
Surrogate: a,a,a-Trifluorotoluene	26.3		"	30.0		87.7	70-130			
Matrix Spike Dup (9K10003-MSD1)				;	Source: W	/911177-0	01			
Benzene	20.6	0.50	ug/l	20.0	ND	103	70-130	5.20	20	
Toluene	21.0	0.50	Ħ	20.0	ND	105	70-130	5.56	20	
Ethylbenzene	20.9	0.50	#1	20.0	ND	104	70-130	6.48	20	
Xylenes (total)	65.0	0.50	rr	60.0	ND	108	70-130	6.40	20	
Surrogate a,a,a-Trifluorotoluene	25.9		"	30.0		86.3	70-130			

Sequoia Analytical - Walnut Creek



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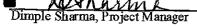
4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell **Reported:** 22-Nov-99 16:11

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9K11002: Prepared 11-Nov-9	9 Using I	EPA 5030B	[P/T]							
Blank (9K11002-BLK1)										
Purgeable Hydrocarbons	ND	50	ug/l					· · · · · · · · · · · · · · · · · · ·		
Benzene	ND	0.50	n							
Toluene	ND	0.50	11							
Ethylbenzene	ND	0.50	**							
Xylenes (total)	ND	0.50	•							
Methyl tert-butyl ether	ND	2.5	11							
Surrogate: a,a,a-Trifluorotoluene	25.8		"	30.0		86.0	70-130			
LCS (9K11002-BS1)										
Benzene	20.3	0.50	ug/l	20.0		101	70-130			
Toluene	20.6	0.50	**	20.0		103	70-130			
Ethylbenzene	20.7	0.50	11	20.0		104	70-130			
Xylenes (total)	64.1	0.50		60.0		107	70-130			
Surrogate: a,a,a-Trifluorotoluene	25.9	· · · · · · · · · · · · · · · · · · ·	"	30.0	 4 -	86.3	70-130			
Matrix Spike (9K11002-MS1)					Source: V	V911276-4	03			
Benzene	20.2	0.50	ug/l	20.0	ND	101	70-130			
Toluene	20.4	0.50		20.0	ND	102	70-130			
Ethylbenzene	20.6	0.50	11	20.0	ND	103	70-130			
Kylenes (total)	64.3	0.50	Ħ	60.0	ND	107	70-130			
Surrogate: a,a,a-Trifluorotoluene	26.0		"	30.0		86.7	70-130			
Matrix Spike Dup (9K11002-MSD1)				,	Source: W	/911276-()3			
Benzene	19.9	0.50	ug/l	20.0	ND	99.5	70-130	1.50	20	
oluene	20.2	0.50	и	20.0	ND	101	70-130	0.985	20	
thylbenzene	20.2	0.50	rr	20.0	ND	101	70-130	1.96	20	
[ylenes (total)	62.9	0.50	17	60,0	ND	105	70-130	2.20	20	
urrogate: a,a,a-Trifluorotoluene	25.4		"	30.0		84.7	70-130		· · · · · · · · · · · · · · · · · · ·	

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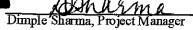
4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell Reported: 22-Nov-99 16:11

BTEX by DHS LUFT - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9K10003: Prepared 10-Nov-	-99 Using l	EPA 5030B	P/T]				_			
Blank (9K10003-BLK1)										
Benzene	ND	0.50	ug/l					• • • • • • • • • • • • • • • • • • • •		
Toluene	ND	0.50	n							
Ethylbenzene	ND	0.50	11							
Xylenes (total)	ND	0.50	n							
Surrogate: a,a,a-Trifluorotoluene	27.7		, "	30.0		92.3	70-130			
LCS (9K10003-BS1)										
Benzene	20.5	0.50	ug/l	20.0	 -	103	50-150	· · · · · · · · · · · · · · · · · · ·		
Toluene	20.7	0.50	11	20.0		104	50-150			
Ethylbenzene	20.5	0.50	tr	20.0		103	50-150			
Xylenes (total)	63.8	0.50	**	60.0		106	50-150			
Surrogate: a,a,a-Trifluorotoluene	25.8		"	30.0		86.0	70-130	·		
Matrix Spike (9K10003-MS1)					Source: V	V911177-	01			
Benzene	21.7	0.50	ug/l	20.0	ND	109	50-150			
Toluene	22.2	0.50	Ħ	20.0	ND	111	50-150			
Ethylbenzene	22.3	0.50	**	20.0	ND	111	50-150			
Xylenes (total)	69.3	0.50	"	60.0	ND	116	50-150			
Surrogate: a,a,a-Trifluorotoluene	26.3		"	30.0		87.7	70-130			
Matrix Spike Dup (9K10003-MSD1)				;	Source: W	79111 <i>77-</i> (D1			
Benzene	20.6	0.50	ug/i	20.0	ND	103	50-150	5.20	20	
Toluene	21.0	0.50	H	20.0	ND	105	50-150	5.56	20	
Ethylbenzene	20.9	0.50	"	20.0	ND	104	50-150	6.48	20	
Xylenes (total)	65.0	0.50	11	60.0	ND	108	50-150	6.40	20	
Surrogate: a,a,a-Trifluorotoluene	25.9	··· <u>······</u> ···	"	30.0		86.3	70-130			·

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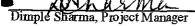
4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell Reported: 22-Nov-99 16:11

BTEX by DHS LUFT - Quality Control Sequoia Analytical - Walnut Creek

Blank (9K11002: Prepared 11-Nov-99 Using EPA 5030B [P/T]	Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Benzene ND 0.50 ug/l	Batch 9K11002: Pre	epared 11-Nov-99	Using l	EPA 5030B	[P/T]						<u> </u>	
Toluene ND 0.50 " Ethylbenzene ND 0.50 " Xylenes (total) ND 0.50 " Surrogate: a, a, a-Trifluorotoluene 25.9 " 30.0 86.0 70-130 Ethylbenzene 20.3 0.50 ug/l 20.0 101 50-150 Ethylbenzene 20.7 0.50 " 20.0 103 50-150 Ethylbenzene 20.7 0.50 " 20.0 104 50-150 Ethylbenzene 20.7 0.50 " 30.0 86.3 70-130 Matrix Spike (9K11002-MS1) Benzene 20.2 0.50 ug/l 20.0 ND 101 50-150 Source: W911276-03 Ethylbenzene 20.4 0.50 " 20.0 ND 102 50-150 Ethylbenzene 20.4 0.50 " 20.0 ND 103 50-150 Ethylbenzene 20.6 0.50 " 20.0 ND 103 50-150 Ethylbenzene 20.6 0.50 " 20.0 ND 101 50-150 Source: W911276-03 Ethylbenzene 20.6 0.50 " 20.0 ND 103 50-150 Ethylbenzene 20.0 ND 107 50-150 Source: W911276-03 Source: W911276-03 Ethylbenzene 19.9 0.50 ug/l 20.0 ND 101 50-150 0.985 20 Ethylbenzene 19.9 0.50 " 20.0 ND 101 50-150 0.985 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20	Blank (9K11002-BLK1)	-										
Ethylbenzene ND 0.50 " Xylenes (total) ND 0.50 " Surrogate: a, a, a-Trifluorotoluene 25.8 " 30.0 86.0 70-130 LCS (9K11002-BS1) Benzene 20.3 0.50 ug/l 20.0 101 50-150 Toluene 20.6 0.50 " 20.0 103 50-150 Ethylbenzene 20.7 0.50 " 20.0 104 50-150 Xylenes (total) 64.1 0.50 " 60.0 107 50-150 Surrogate: a, a, a-Trifluorotoluene 25.9 " 30.0 86.3 70-130 Matrix Spike (9K11002-MS1) Benzene 20.4 0.50 " 20.0 ND 101 50-150 Toluene 20.4 0.50 " 20.0 ND 102 50-150 Ethylbenzene 20.6 0.50 " 20.0 ND 103 50-150 Ethylbenzene 20.6 0.50 " 20.0 ND 103 50-150 Surrogate: a, a, a-Trifluorotoluene 26.0 " 30.0 R6.7 70-130 Matrix Spike (total) 64.3 0.50 " 60.0 ND 107 50-150 Surrogate: a, a, a-Trifluorotoluene 26.0 " 30.0 R6.7 70-130 Matrix Spike Dup (9K11002-MSD1) Source: W911276-03 Benzene 19.9 0.50 ug/l 20.0 ND 101 50-150 0.985 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20	Benzene		ND	0.50	ug/i	., 						
ND 0.50 "	Toluene		ND	0.50								
Surrogate: a, a, a-Trifluorotoluene 25.8 " 30.0 86.0 70-130	Ethylbenzene		ND	0.50	11							
LCS (9K11002-BS1) Benzene 20.3 0.50 ug/l 20.0 101 50-150 Foluene 20.6 0.50 " 20.0 103 50-150 Ethylbenzene 20.7 0.50 " 20.0 104 50-150 Kylenes (total) 64.1 0.50 " 60.0 107 50-150 Source: W911276-03 Senzene 20.2 0.50 ug/l 20.0 ND 101 50-150 Ethylbenzene 20.6 0.50 " 20.0 ND 103 50-150 Soluene 20.6 0.50 " 20.0 ND 103 50-150 Ethylbenzene 20.6 0.50 " 20.0 ND 107 50-150 Ethylbenzene 20.6 0.50 " 20.0 ND 107 50-150 Ethylbenzene 20.0 ND 101 50-150 Ethylbenzene 20.0 ND 101 50-150 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 1.96 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 1.96 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 1.96 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 1.96 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 1.96 20 Ethylbenzene 20.2 0.50 " 20.0 ND 101 50-150 1.96 20	Xylenes (total)		ND	0.50	"							
Benzene 20.3 0.50 ug/l 20.0 101 50-150 Foluene ' 20.6 0.50 " 20.0 103 50-150 Ethylbenzene 20.7 0.50 " 20.0 104 50-150 Kylenes (total) 64.1 0.50 " 60.0 107 50-150 Surrogate: a, a, a-Trifluorotoluene 25.9 " 30.0 86.3 70-130 Matrix Spike (9K11002-MS1) Source: W911276-03 Benzene 20.2 0.50 ug/l 20.0 ND 101 50-150 Ethylbenzene 20.6 0.50 " 20.0 ND 102 50-150 Ethylbenzene 20.6 0.50 " 20.0 ND 103 50-150 Ethylbenzene 26.0 " 30.0 86.7 70-130 Matrix Spike (total) 64.3 0.50 " 60.0 ND 107 50-150 Foluene 19.9 0.50 ug/l 20.0 ND 107 50-150 Matrix Spike Dup (9K11002-MSD1) Source: W911276-03	Surrogate: a, a, a-Trifluorotolu	ene	25.8		"	30.0		86.0	70-130			
Toluene ' 20.6 0.50 " 20.0 103 50-150 Ethylbenzene 20.7 0.50 " 20.0 104 50-150 Xylenes (total) 64.1 0.50 " 60.0 107 50-150 Source: W911276-03 Senzene 20.2 0.50 wg/l 20.0 ND 101 50-150 Ethylbenzene 20.4 0.50 " 20.0 ND 102 50-150 Ethylbenzene 20.6 0.50 " 20.0 ND 103 50-150 Source: W911276-03	LCS (9K11002-BS1)											
Ethylbenzene 20.7 0.50 " 20.0 104 50-150 Xylenes (total) 64.1 0.50 " 60.0 107 50-150 Xylenes (total) 64.1 0.50 " 60.0 107 50-150 Xylenes (total) 64.1 0.50 " 60.0 107 50-150 Xylenes (total) 86.3 70-130 Xylenes (total) Source: W911276-03 Xylenes (total) Source: W911276-03 Xylenes (total) Source: W911276-03 Xylenes (total) Source: W911276-03 Xylenes (total) 64.3 0.50 " 20.0 ND 101 50-150 Xylenes (total) 64.3 0.50 " 20.0 ND 103 50-150 Xylenes (total) Source: W911276-03 Xylenes (total) Sour	Benzene		20.3	0.50	ug/l	20.0		101	50-150			
Matrix Spike (VK11002-MSD1) Source: W911276-03	Toluene '		20.6	0.50	10	20.0		103	50-150			
Source S	Ethylbenzene		20.7	0.50	r	20.0		104	50-150			
Source: W911276-03 Source:	Xylenes (total)		64. I	0.50	н	60.0		107	50-150			
Senzene 20.2 0.50 ug/l 20.0 ND 101 50-150	Surrogate: a,a,a-Trifluorotolue	ene	25.9		#	30.0	·	86.3	70-130			····
Column 20.4 0.50 " 20.0 ND 102 50-150 20.0 20.0 ND 103 50-150 20.0 20.0 ND 103 50-150 20.0 20.0 ND 103 50-150 20.0 20.0 ND	Matrix Spike (9K11002-N	MS1)					Source: V	V911276-	03			
Ethylbenzene 20.6 0.50 " 20.0 ND 103 50-150 Kylenes (total) 64.3 0.50 " 60.0 ND 107 50-150 Kylenes (total) 64.3 0.50 " 30.0 86.7 70-130 Kurrogate: a,a,a-Trifluorotoluene 26.0 " 30.0 86.7 70-130 Karrogate: a,a,a-Trifluorotoluene 26.0 " 30.0 ND 99.5 50-150 1.50 20 Kylenes (total) 19.9 0.50 ug/l 20.0 ND 99.5 50-150 1.50 20 Kylenes (total) 19.9 0.50 " 20.0 ND 101 50-150 0.985 20 Kylenes (total) 62.9 0.50 " 20.0 ND 101 50-150 1.96 20 Kylenes (total) 62.9 0.50 " 60.0 ND 105 50-150 2.20 20	Benzene		20.2	0.50	ug/l	20.0	ND	101	50-150			
Sylenes (total) 64.3 0.50 " 60.0 ND 107 50-150 Surrogate: a, a, a-Trifluorotoluene 26.0 " 30.0 86.7 70-130 Matrix Spike Dup (9K11002-MSD1) Source: W911276-03 Source: W911276-03 Senzene 19.9 0.50 ug/l 20.0 ND 99.5 50-150 1.50 20 Coluene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Stylenes (total) 62.9 0.50 " 60.0 ND 105 50-150 2.20 20	Toluene		20.4	0.50	п	20.0	ND	102	50-150			
Matrix Spike Dup (9K11002-MSD1) Source: W911276-03 Senzene 19.9 0.50 ug/l 20.0 ND 99.5 50-150 1.50 20 Coluene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Sthylbenzene 20.2 0.50 " 20.0 ND 101 50-150 1.96 20 Stylenes (total)	Ethylbenzene		20.6	0.50	••	20.0	ND	103	50-150			
Matrix Spike Dup (9K11002-MSD1) Source: W911276-03 Senzene 19.9 0.50 ug/l 20.0 ND 99.5 50-150 1.50 20 Solutione 20.2 0.50 20.0 ND 101 50-150 0.985 20 Sthylbenzene 20.2 0.50 20.0 ND 101 50-150 1.96 20 Sylenes (total) 62.9 0.50 60.0 ND 105 50-150 2.20 20 Source: W911276-03 1.50 1.50 1.50 20 Source: W911276-03 1.50 1.50 1.50 1.50 1.50 Source: W911276-03 1.50 1.50 1.50 Source: W911276-03 1.50 1.50 1.50 Source: W911276-03 1.50 Source: W911276-03 1.50 Source: W911276-03 1.50 So	Kylenes (total)		64.3	0.50	11	60.0	ND	107	50-150			
Senzene 19.9 0.50 ug/l 20.0 ND 99.5 50-150 1.50 20 Coluene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Sthylbenzene 20.2 0.50 " 20.0 ND 101 50-150 1.96 20 Sylenes (total) 62.9 0.50 " 60.0 ND 105 50-150 2.20 20	Surrogate: a, a, a-Trifluorotolue	ene	26.0		#	30.0		86.7	70-130		······································	
Coluene 20.2 0.50 " 20.0 ND 101 50-150 0.985 20 Sthylbenzene 20.2 0.50 " 20.0 ND 101 50-150 1.96 20 Sylenes (total) 62.9 0.50 " 60.0 ND 105 50-150 2.20 20		002-MSD1)					Source: W	7911276-0)3			
Chylbenzene 20.2 0.50 " 20.0 ND 101 50-150 1.96 20 Kylenes (total) 62.9 0.50 " 60.0 ND 105 50-150 2.20 20	Benzene		19.9	0.50	ug/l	20.0	ND	99.5	50-150	1.50	20	
(Yelenes (total) 62.9 0.50 " 60.0 ND 105 50-150 2.20 20	Coluene		20.2	0.50	•	20.0	ND	101	50-150	0.985	20	
	thylbenzene		20.2	0.50	11	20.0	ND	101	50-150	1.96	20	
urrogate: a,a,a-Trifluorotoluene 25.4 " 30.0 84.7 70-130	(ylenes (total)		62.9	0.50	"	60.0	ND	105	50-150	2.20	20	
	urrogate: a,a,a-Trifluorotolue	ne	25.4	·	ff	30.0		84.7	70-130			·

equoia Analytical - Walnut Creek





IT Corporation 4005 Port Chicago Hwy.

Concord CA, 94520

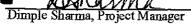
Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell **Reported:** 22-Nov-99 16:11

MTBE Confirmation by EPA Method 8260A - Quality Control Sequoia Analytical - Walnut Creek

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9K15021:	Prepared 12-Nov-99	Using l	EPA 5030B	[P/T]							
Blank (9K15021-BL	.K1)		·····	<u> </u>							
Methyl tert-butyl ether		ND	2.0	ug/l						 -	
Surrogate: Dibromofluo	promethane	50.0		"	50.0	···	100	50-150		<u>-</u>	
Surrogate: 1,2-Dichloro	ethane-d4	48.0		"	50.0		96.0	50-150			
Blank (9K15021-BL	.K2)										
Methyl tert-butyl ether		ND	2.0	ug/l							
Surrogate: Dibromofluo	romethane	47.3			50.0		94.6	50-150			
Surrogate: 1,2-Dichloro	ethane-d4	44.2		"	50.0		88.4	50-150			
LCS (9K15021-BS1))										
Methyl tert-butyl ether		44.9	2.0	ug/I	50.0		89.8	70-130			
Surrogate: Dibromofluo	romethane	52.0		#	50.0		104	50-150			
Surrogate: 1,2-Dichloro	ethane-d4	48.0		"	50.0		96.0	50-150			
LCS (9K15021-BS2)	1										
Methyl tert-butyl ether		35.9	2.0	ug/l	50.0		71.8	70-130			
Surrogate: Dibromofluo	romethane	46.0		"	50.0		92.0	50-150			
Surrogate: 1,2-Dichloroe	ethane-d4	41.1		"	50.0		82.2	50-150			
CS Dup (9K15021-	BSD1)										
Methyl tert-butyl ether		49.7	2.0	ug/l	50.0		99.4	70-130	10.1	25	
urrogate: Dibromofluoi	romethane	53.0		"	50.0	_ 	106	50-150			
Surrogate: 1,2-Dichloroe	ethane-d4	49.0		"	50.0		98.0	50-150			

equoia Analytical - Walnut Creek







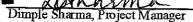
4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell **Reported:** 22-Nov-99 16:11

Volatile Organic Compounds by EPA Method 8010B - Quality Control Sequoia Analytical - Walnut Creek

Analyte		Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9K16005: Prep	ared 16-Nov-99	Using l	EPA 5030B [P/T]							
Blank (9K16005-BLK1)											
Bromodichloromethane		ND	0.50	ug/l				***************************************			
Bromoform		ND	0.50	11							
Bromomethane		ND	1.0	H							
Carbon tetrachloride		ND	0.50	"							
Chlorobenzene		ND	0.50	**							
Chloroethane		ND	1.0	11							
Chloroform		ND	0.50	**							
Chloromethane		ND	1.0	**							
Dibromochloromethane		ND	0.50	11							
1,3-Dichlorobenzene		ND	0.50	IT							
_1,4-Dichlorobenzene		ND	0.50	"							
,2-Dichlorobenzene		ND	0.50	**							
1,1-Dichloroethane		ND	0.50	11							
1,2-Dichloroethane		ND	0.50	n							
,1-Dichloroethene		ND	0.50	"							
cis-1,2-Dichloroethene		ND	0.50	"							
trans-1,2-Dichloroethene		ND	0.50	11							
,2-Dichloropropane		ND	0.50	Tt .							
cis-1,3-Dichloropropene		ND	0.50	**							
trans-1,3-Dichloropropene		ND	0.50	17							
lethylene chloride		ND	5.0	Ħ							
1,1,2,2-Tetrachloroethane		ND	0.50	H							
Tetrachloroethene		ND	0.50	**							
,1,1-Trichloroethane		ND	0.50	11							
1,1,2-Trichloroethane		ND	0.50	11							
Trichloroethene		ND	0.50	n							
richlorofluoromethane		ND	0.50	tt.							
Vinyl chloride		ND	1.0	"							
arrogate: Dibromodifluorometh	ane	9.50		"	10.0		95.0	50-150		···	-
urrogate: 4-Bromofluorobenzen	e	9.50		"	10.0		95.0	50-150			

equoia Analytical - Walnut Creek







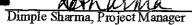
4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell **Reported:** 22-Nov-99 16:11

Volatile Organic Compounds by EPA Method 8010B - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9K16005: Prepared 16-	-Nov-99 Using	EPA 5030B	[P/T]		_			,		
LCS (9K16005-BS1)				<u></u>						
Chlorobenzene	20.0	0.50	ug/l	20.0		100	70-130			
1,1-Dichloroethene	23.0	0.50	11	20.0		115	65-135			
Trichloroethene	24.0	0.50	"	20.0		120	70-130			
Surrogate: Dibromodifluoromethane	9.10		"	10.0		91.0	50-150			
Surrogate: 4-Bromofluorobenzene	10.0		"	10.0		100	50-150			
LCS Dup (9K16005-BSD1)										
Chlorobenzene	21.0	0.50	ug/l	20.0	•	105	70-130	4.88	25	· · · · · · · · · · · · · · · · · · ·
1,1-Dichloroethene	24.0	0.50	11	20.0		120	65-135	4.26	25	
Trichloroethene	23.0	0.50	tt	20.0		115	70-130	4.26	25	
Surrogate: Dibromodifluoromethane	14.0		"	10.0		140	50-150			
Surrogate: 4-Bromoftuorobenzene	8.90		"	10.0		89.0	50-150			
Matrix Spike (9K16005-MS1)					Source: V	V911177-(06			
Chlorobenzene	21.0	0.50	ug/l	20.0	ND	105	60-140			
1,1-Dichloroethene	28.0	0.50	11	20.0	ND	140	60-140			
Trichloroethene	24.0	0.50	"	20.0	ND	120	60-140			
Surrogate: Dibromodifluoromethane	5.70		,,	10.0		57.0	50-150			· · · · · · · · · · · · · · · · · · ·
Surrogate: 4-Bromofluorobenzene	14.0		"	10.0		140	50-150			
Matrix Spike Dup (9K16005-MSD1))			;	Source: V	/911177-()6			
Chlorobenzene	20.0	0.50	ug/i	20.0	ND	100	60-140	4.88	25	·
,1-Dichloroethene	24.0	0.50	*	20.0	ND	120	60-140	15.4	25	
Frichloroethene	24.0	0.50	41	20.0	ND	120	60-140	0	25	
Surrogate: Dibromodifluoromethane	9.10		"	10.0		91.0	50-150			
urrogate: 4-Bromofluorobenzene	9.90		"	10.0		99.0	50-150			

sequoia Analytical - Walnut Creek





IT Corporation

4005 Port Chicago Hwy. Concord CA, 94520 Project: Sears

Project Number: Sears # 1039 Project Manager: Melissa Gossell Reported:

22-Nov-99 16:11

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Sequoia Analytical - Walnut Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 9K18024: Prepared 18-Nov-99	Using H	EPA 418.1			· · · · · · · · · · · · · · · · · · ·					
Blank (9K18024-BLK1)										
TRPH	ND	5.0	mg/l							
LCS (9K18024-BS1)										
TRPH	7.58	5.0	mg/l	8.00		94.7	70-130			
LCS Dup (9K18024-BSD1)										
TRPH	7.37	5.0	mg/l	8.00		92.1	70-130	2.81	30	

Sequoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





IT Corporation Project: Sears
4005 Port Chicago Hwy. Project Number: Sears # 1039 Reported:
Concord CA, 94520 Project Manager: Melissa Gossell 22-Nov-99 16:11

Notes and Definitions

A-01 The sample contains a non target analyte that elutes at the same time as MTBE.

P-01 Chromatogram Pattern: Gasoline C6-C12

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Sequoia Analytical - Walnut Creek

The results in this report apply to the samples analyzed in accordance with the chain of cust ody document. This analytical report must be reproduced in its entirety.





		<u> </u>	McDowell Bi	vd. Nortl	h, Suite	D • Pet	aluma, C	A 94954 •	(707) 792	2-1865	FAX (707) 7	792-0342	
Company Name: TT COR	P			Project					LEC-RAP		4 1039		
Mailing Address 4 005 PORT	chearen	DHWY		Billing A	ddress	(if diffe	rent):	u	1911	17	7		
City: Martinez Sta	te: CA	Zìp Code	14520		117	(0(00	1.0	305	1.360	\			
Telephone: 075 288 - 98	398 FA			P.O. #:					1.300	<u></u>			ij
Report To: My 1554 Gnss	Sampler:	MERNO		QC Dat		_evel Q	(Standard	d) 🗀 Le	vel C	Levei	B 🗆 Lev	el A	Client
Turnaround 10 Working Days	☐ 3 Working Day	ys 🗆 2 - 8 Hou	ırs 🔾 Drir	nking Wat	er	, aget Ch		Analys	es Reques	sted			Pink - (
Time: 7 Working Days 5 Working Days	⊒ 2 Working Day ⊒ 24 Hours	ys 5 TANDALD	D Oth	nking Wat Sto -Water er	er Children	No. No.	5th cu	P	//			7	O.
Client Date/Time Sample I.D. Sampled	'''	# of Cont.	Sequoia's Sample #			ALE CO.	COLUMN A		//	//	Comm	ents	
1. MW-1 115-9121	30GW	6 40ML	01A-F	X	X		-808	f = f		[VIEL DET	_	ଜ
	35GW (40ML	OZA-F	X	X					1	Vaid Con 348260	Fiends	Sed Bak
3.MW-8 12:			03A-H		X		1	80201 801	ZXVJ ZXVINIRE	- MO			
4.MW-7 13'K	5 GW	6 40ML	04 A-F		X					K	HOWMEN	P HYDRA	
5.MW-L+ 13;	5 CIN E	3 fonc	05 A-H	X	X	x					Jul+GRI	-	
6.MW-5 13	28GW (a com	06 A-F		X								
7. NW-2 13'.	4660 (67 A-F	X	X								oja
8. Dup 13'.	47GW	3 tonc	OBA-C		ŕ		X						Sequoia
9.TBLB / -	- DI	1 40ML	09.A				X						White -
10.													>
Relinquished By:		Date: 5 99	Time: 4	U (1)000	eived B	y:			Date:		Time:		i
Relinquished By:		Date:	Time:	Received By:					Date: Time:				
Relinquished By:		Date:	Time:	Rece	eived B	y Lab:	my	fre 1	Date: //	1/5	Time: /	14:40	ı

APPENDIX E DRUM INVENTORY FORM

1039MWI.OAK IT CORPORATION

DRUMMED MATERIAL INVENTORY FORM	Page 1 of 2
Store Number 1039 Address/City/State/ZIP 1911 TEUE CKAPL	1 fre
Sears Facility Contact and Phone # Brad Woodland.	
IT Corporation Representative HMerino	
Accumulation Start Date 11-5-99 Completion Date: 11-5-9	19
Exact Drum Storage Location GARAGE	

					
CONTENTS	# OF DRUMS	DRUM ID (A,B,C) OR (1,2,3)	LID TYPE (OPEN OR BUNG)	LABEL TYPE: HAZARDOUS, NON- HAZARDOUS, UNCLASSIFIED	DRUM DESCRIPTION: COLOR, CONDITION, MARKINGS
GASOLINE			O or B	H/N/U	
GASOLINE/WATER MIXTURE	~		O or B	H/N/U	
GASOLINE IMPACTED PURGE WATER	3	E.F.G	(O) or B	HINNU	RAK + WHIJE
GASOLINE TANK BOTTOMS/SLUDGE			O or B	H/N/U	1
GASOLINE IMPACTED DEBRIS			O or B	H/N/U	
GASOLINE IMPACTED SOIL	.4	ABLD	6) or B	H /(N)/ U	BLACK! WHITE
FUEL OIL (INC. DIESEL & HEATING OIL)			O or B	H-/ N / U	
FUEL OILWATER 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 OILWATER MIXTURE			O or B	H / N / U	
USED OIL IMPACTED PURGE WATER			OorB	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!

	,	DOUBABAED BAATES	IA. INVENTORY FOR		
	ımber <u>103</u>		IAL INVENTORY FOR City/State 1911		Page 2
Store Nu	imber 100			TRETUTI	PHAVE
IT Corpo	ration Represent	ative HAR.	∾	<u></u>	
THERE	SHOULD NEVER B	E 2 DRUMS WITH THE SAMI	E DRUM ID PRESENT AT A SITE	E AT THE SAI	ME TIME
DRUM ID	ACCUMU- LATION START DATE	CONTENTS (as on label) VOLUME (If mixed waste)	SOURCE (be specific) MVB A Examply ATER WELK	SLUDGE PRESENT Y/N	VOLUME (gallon)
A	11-2-99	Soil CUTTINGS	Soil CUTTINGS		\$5
B	11-2-99	1			55
C	11:399				55
\mathcal{D}	11:399	b	<i>y</i>		55
#		DECONWATER	mw8,9	TES	30
	11-5-99	PULLENATER	Allweus	10	30
G	11-5-99	Punemater	AUWENS	NO	30
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		- 1			
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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!