FLUOR DANIEL GTI

July 15, 1997

1630

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

SUBJECT: Quarterly Groundwater Monitoring and Sampling Report
Sears Store 1039
1911 Telegraph Avenue, Oakland, California
Fluor Daniel GTI Project 020200282

Dear Mr. Klettke:

On behalf of Sears, Roebuck & Co., Fluor Daniel GTI, Inc. presents the quarterly groundwater monitoring and sampling data collected on June 10, 1997, from the site referenced above. The seven groundwater monitoring wells were gauged to determine depth to groundwater and to check for the presence of separate-phase petroleum hydrocarbons. Separate-phase hydrocarbons were not detected in the monitoring wells. A potentiometric surface map is presented in attachment 1, figure 1. A summary of monitoring data is presented in attachment 2, table 1.

After measuring depth to water, the monitoring wells were purged and sampled. Groundwater monitoring and sample collection protocol, and field data sheets are presented in attachment 3. The groundwater samples were analyzed for dissolved benzene, toluene, ethylbenzene and total xylenes (BTEX), methyl tert-butyl ether (MTBE), and total petroleum hydrocarbons (TPH)-as-gasoline by EPA methods 8020/modified 8015, and chlorinated hydrocarbons by EPA method 8010. Additionally, wells MW-4 and MW-6 were analyzed for total oil and grease (SM5520 C&F). A summary of the groundwater analytical results is presented in table 2. A distribution map of dissolved benzene and TPH-as-gasoline concentrations is presented in figure 2. Laboratory reports and chain-of-custody records are included in attachment 4.

0282QMSR.797

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

Sincerely,
Fluor Daniel GTI, Inc.

Eileen Brennan
West Zone Project Manager

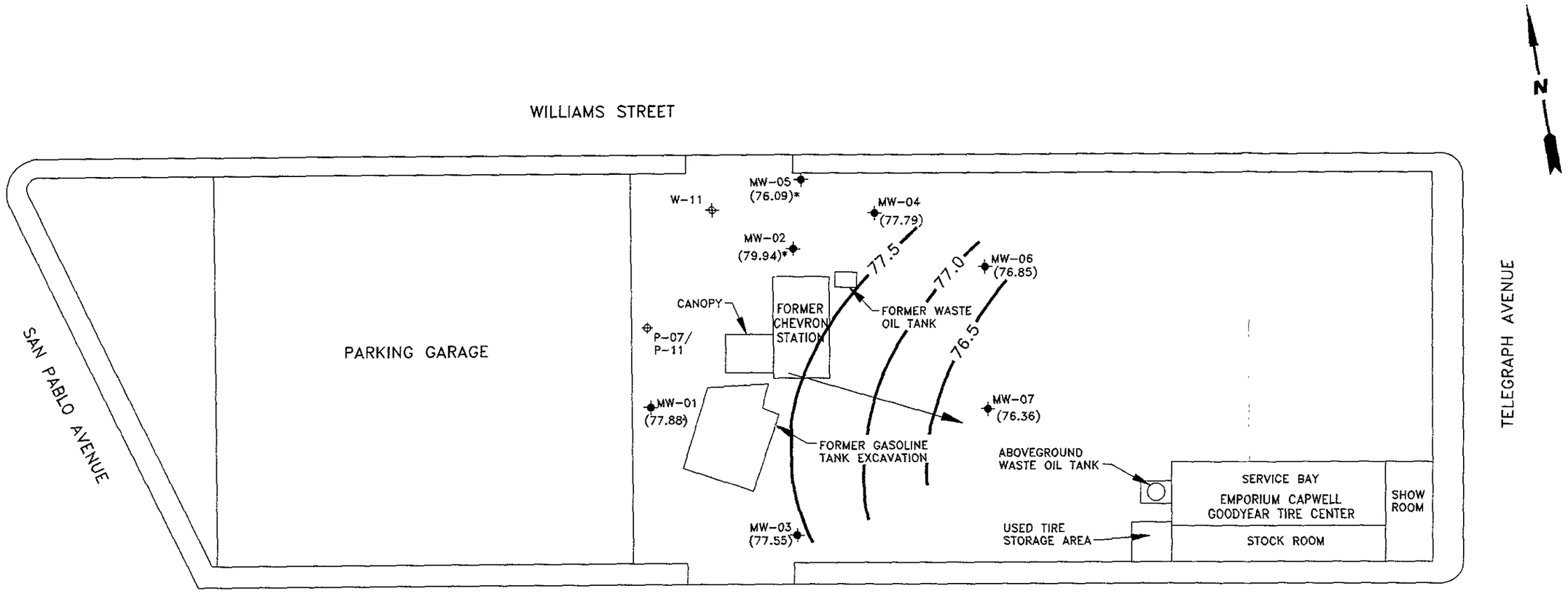
Attachments

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

ATTACHMENT 1

Figures

1. Potentiometric Surface Map (6/10/97)
2. Concentrations of Benzene and TPH-as-Gasoline in Groundwater (6/10/97)



LEGEND

- MONITORING WELL
- SOIL PROBE
- ( ) POTENTIOMETRIC SURFACE ELEVATION (RELATIVE)
- POTENTIOMETRIC SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION
- * ANOMALOUS DATA

NOTES:

CONTOURS REPRESENT APPROXIMATE ELEVATIONS ABOVE SEA LEVEL.

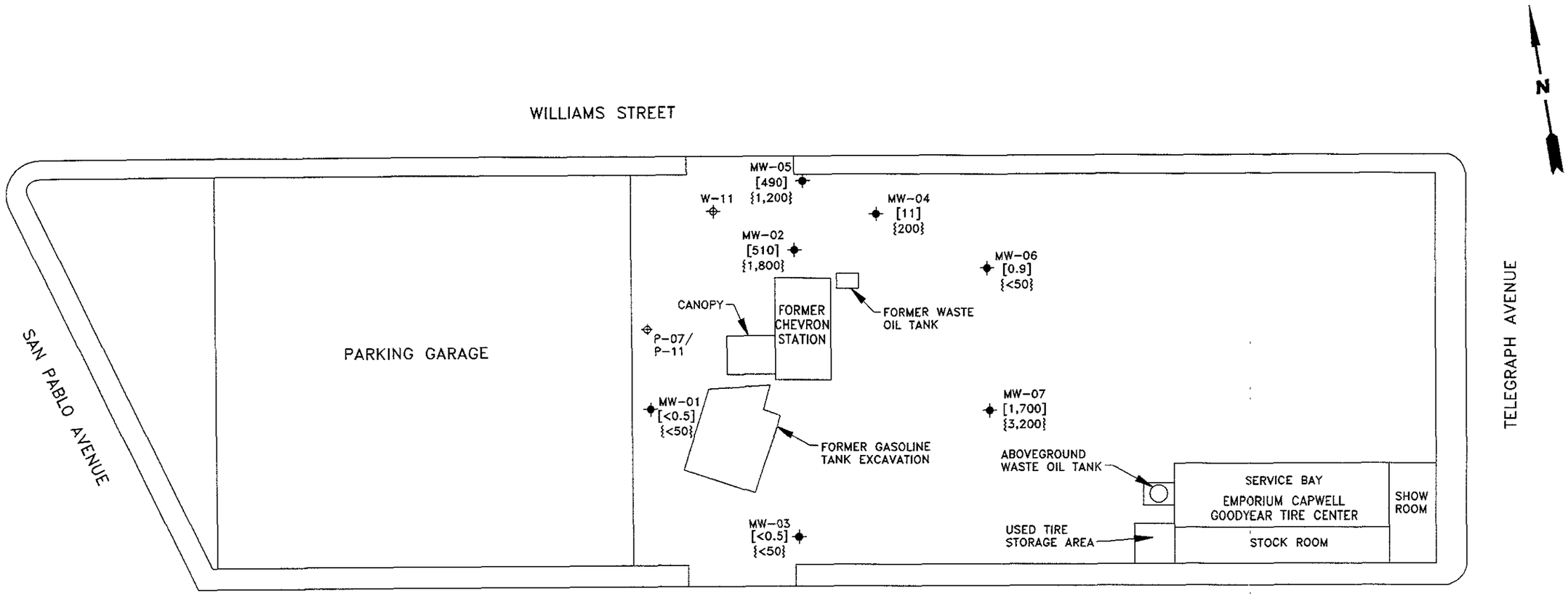
REGISTERED GEOLOGIST
EDVARDAS (ED) K. SIMONIS
No. 4422
STATE OF CALIFORNIA

FLUOR DANIEL GTI

0 FEET 50
SCALE

POTENTIOMETRIC SURFACE MAP (6/10/97)

CLIENT:	SEARS, ROEBUCK & CO. SITE NO. 1039
LOCATION:	1901–1911 TELEGRAPH AVENUE OAKLAND, CALIFORNIA
ACAD FILE: PSM61097	PROJECT NO.: 020200282
REV.: 1	
DES.: BPM / DET.: ML	DATE: 7/3/97
PM:	PE/RG: EDS
FIGURE: 1	



LEGEND

- ✦ MONITORING WELL
- ⌖ SOIL PROBE
- [ ] BENZENE CONCENTRATION [ug/l]
- { } TPH-AS-GASOLINE CONCENTRATIONS (ug/l)

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

FLUOR DANIEL GTI

0 FEET 50
SCALE

CONCENTRATIONS OF BENZENE & TPH-AS-GASOLINE IN GROUNDWATER (6/10/97)

CLIENT:	SEARS, ROEBUCK & CO. SITE NO. 1039
LOCATION:	1901-1911 TELEGRAPH AVENUE OAKLAND, CALIFORNIA
ACAD FILE: TPH61097	PROJECT NO.: 020200282
REV.: 1	
DES.: BPM / DET.: ML / DATE: 7/3/97	FIGURE: 2
PM:	PE/RG: EKS

ATTACHMENT 2

Tables

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

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

Sears Store 1039
1911 Telegraph Avenue, Oakland, California

Well ID	Casing Elev.	Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elev.
MW-1	94.34	06/12/96	16.21	--	--	78.13
		09/05/96	16.89	--	--	77.45
		12/03/96	17.07	--	--	77.27
		02/27/97	15.55	--	--	78.79
		06/10/97	16.46	--	--	77.88
MW-2	93.94	06/12/96	16.01	--	--	77.93
		09/05/96	16.66	--	--	77.28
		12/03/96	16.20	--	--	77.74
		02/27/97	14.46	--	--	79.48
		06/10/97	14.00	--	--	79.94
MW-3	95.67	06/12/96	17.56	--	--	78.10
		09/05/96	18.32	--	--	77.35
		12/03/96	18.57	--	--	77.10
		02/27/97	17.43	--	--	78.24
		06/10/97	18.12	--	--	77.55
MW-4	91.99	06/12/96	14.21	--	--	77.78
		09/05/96	14.83	--	--	77.16
		12/03/96	13.99	--	--	78.00
		02/27/97	12.44	--	--	79.55
		06/10/97	14.20	--	--	77.79
MW-5	92.09	06/12/96	14.13	--	--	77.96
		09/05/96	14.77	--	--	77.32
		12/03/96	13.99	--	--	78.10
		02/27/97	12.08	--	--	80.01
		06/10/97	16.00	--	--	76.09
MW-6	92.15	06/12/96	14.99	--	--	77.16
		09/05/96	15.50	--	--	76.65
		12/03/96	15.07	--	--	77.08
		02/27/97	14.14	--	--	78.01
		06/10/97	15.30	--	--	76.85
MW-7	93.36	06/12/96	16.56	--	--	76.80
		09/05/96	17.10	--	--	76.26
		12/03/96	17.12	--	--	76.24
		02/27/97	16.20	--	--	77.16
		06/10/97	17.00	--	--	76.36

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

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

Sears Store 1039
1911 Telegraph Avenue, Oakland, California

Well ID	Date Sampled	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH as Gasoline	TCE	1,2-DCA	CIS 1,2 DCE	1,1 DCE	OIL/ GREASE	PCE
MW-1	10/95	--	ND	ND	ND	ND	<50	ND	ND	--	--	--	9.9
	01/96	--	ND	ND	ND	ND	<50	14	ND	--	--	--	9.9
	06/12/96	--	<0.5	1.4	<0.5	<2	<50	<0.5	<0.5	--	--	--	12
	09/05/96	<5.0	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	--	--	--	12
	12/03/96	<5.0	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5
	02/27/97	<5.0	<0.5	<0.5	<0.5	<2	<50	1.3	<0.5	<0.5	<0.5	--	31
	06/10/97	<5.0	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	<0.5	--	19
MW-2	10/95	--	1200	5.4	41	5.9	2900	40	280	--	--	--	ND
	01/96	--	1100	11	100	6.9	780	38	270	--	--	--	ND
	06/12/96	--	890	7	56	10	3600	40	160	--	--	--	<3
	09/05/96	<5.0	350	3.0	17	10	2100	29	55	1.9	55	--	<0.5
	12/03/96	40	230	2.4	7.8	7	1100	20	86	7	<0.5	--	<0.5
	02/27/97	12	210	2.2	6.0	3	1000	25	43	<0.5	<0.5	--	0.8
	06/10/97	<30	510	3	6.0	<10	1800	19	47	4.9	<0.5	--	1.0
MW-3	10/95	--	ND	ND	ND	ND	<50	ND	ND	--	--	--	ND
	01/96	--	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
	06/12/96	--	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	--	--	<0.5	<0.5
	09/05/96	<5.0	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	--	--	<0.5	<0.5
	12/03/96	<5.0	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	<0.5	--	2.3
	02/27/97	<5.0	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	<0.5	--	6.3
	06/10/97	<5.0	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	<0.5	--	5.9
MW-4	10/95	--	4.1	ND	ND	ND	<50	ND	ND	--	--	--	ND
	01/96	--	5.8	ND	ND	ND	<50	ND	ND	--	--	--	ND
	06/12/96	--	11	<0.5	<0.5	<2	320	<0.5	<0.5	--	--	<0.5	<0.5
	09/05/96	--	5.6	<0.5	<0.5	<2	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	12/03/96	15	11	<0.5	<0.5	<2	270	<0.5	0.9	<0.5	<0.5	<0.5	<0.5
	02/27/97	<5.0	3.1	<0.5	<0.5	<2	190	<0.5	<0.5	<0.5	<0.5	<500	<0.5
	06/10/97	<5.0	11	<0.5	<0.5	<2	200	<0.5	<0.5	<0.5	<0.5	--	<0.5
MW-5	10/95	--	86	ND	ND	ND	260	ND	ND	--	--	--	ND
	01/96	--	160	3.6	ND	ND	180	ND	ND	--	--	--	ND
	06/12/96	--	54	1.1	<0.5	<2	260	<0.5	<0.5	--	--	--	<0.5
	09/05/96	<5.0	22	1.0	<0.5	<2	160	<0.5	<0.5	--	--	--	<0.5
	12/03/96	6	18	0.6	<0.5	<2	170	<0.5	<0.5	<0.5	<0.5	--	<0.5
	02/27/97	<5	74	2.0	<0.5	<2	230	<0.5	<0.5	<0.5	<0.5	--	<0.5
	06/10/97	<30	490	19	<3.0	<10	1200	<0.5	<0.5	<0.5	<0.5	--	<0.5

FLUOR DANIEL GTI

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

Sears Store 1039
1911 Telegraph Avenue, Oakland, California

Well ID	Date Sampled	MTBE	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPH as Gasoline	TCE	1,2-DCA	CIS 1,2 DCE	1,1 DCE	OIL/ GREASE	PCE
MW-6	10/95	--	ND	ND	ND	ND	<50	11	33	--	--	--	6.2
	01/96	--	ND	ND	ND	ND	<50	12	5.3	--	--	--	7.2
	06/12/96	--	<0.5	<0.5	<0.5	<2	<50	5.0	7.9	--	--	<0.5	3.6
	09/05/96	<5	0.8	<0.5	<0.5	<2	<50	5.2	7.5	--	--	<0.5	5.4
	12/03/96	<5	<0.5	<0.5	<0.5	<2	<50	0.6	0.5	<0.5	<0.5	<0.5	0.9
	02/27/97	<5	<0.5	<0.5	<0.5	<2	<50	0.5	<0.5	<0.5	<0.5	<500	1.3
	06/10/97	<5	0.9	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	<0.5	--	1.0
MW-7	10/95	--	ND	ND	ND	ND	<50	3.5	8.3	--	--	--	5.3
	01/96	--	ND	ND	ND	ND	<50	4.8	5.7	--	--	--	9.3
	06/12/96	--	0.6	<0.5	<0.5	<2	<50	3.4	2.9	--	--	--	6.1
	09/05/96	<5	1.2	<0.5	<0.5	<2	<50	4.2	5.9	--	--	--	8.3
	12/03/96	<5	850	<5	<5	30	120	4.0	75	<3	<3	<0.5	4
	02/27/97	<30	1500	3	23	<10	2500	4.0	65	<0.5	<0.5	--	2.2
	06/10/97	<50	1700	<5.0	59	<20.0	3200	4.2	85	<0.5	<0.5	--	2.2

Source: AEN Environmental Laboratory for results dated 9/20/96

Notes: "--" indicates no datum for the cell, including "not analyzed for this constituent".
Values beginning with "<" indicate the compound was not detected above the laboratory reporting limits.
Historical data before June 1996 as reported by previous consultants

µg/L	=	Micrograms per liter
TPH	=	Total petroleum hydrocarbons
ND	=	Non-detectable (detection limits for each metal is listed in laboratory reports included in attachment 4)
PCE	=	Tetrachloroethene
1,2 DCA	=	1,2 Dichloroethane
TCE	=	Tricloroethene
MTBE	=	Methyl tert-Butyl ether
cis 1,2 DCE	=	CIS-1,2-Dichloroethene
1,1-DCE	=	1,1 Dichloroethene

ATTACHMENT 3

Groundwater Monitoring and Sample Collection Protocol and Field Data Sheets

GROUNDWATER TECHNOLOGY GROUNDWATER MONITORING AND SAMPLE COLLECTION PROTOCOL

Groundwater Monitoring

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

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

(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 sampled and the parameters have stabilized. If the well is low yielding, it may be purged dry and sampled before 3 casing volumes are purged. The wells are then allowed to recharge to approximately 80 percent of the initial water level before a sample is collected.

Groundwater samples are collected from each well using a new, prepackaged disposable bailer and string. The water sample is decanted from the bailer into laboratory-provided containers (appropriate for the analyses required) so that there is no headspace in the containers. Samples collected for benzene, toluene, ethylbenzene, xylene, and total petroleum hydrocarbons (TPH)-as-gasoline analyses are collected in 40-milliliter vials fitted with Teflon® septum lids. Samples are preserved with hydrochloric acid (HCL) to a pH of less than 2. Dissolved metals samples are filtered through a 0.45-micron paper filter in the field and preserved as required before submitting to the laboratory for analyses. All samples are labeled immediately upon collection and logged on the chain-of-custody record. Sample label and chain-of-custody recorded information includes the project name and number, sample identification, date and time of collection, analyses requested, and the sampler's name. Sample bottles are placed in plastic bags (to protect the bottles and labels) and on ice (frozen water) in an insulated cooler and are shipped under chain-of-custody protocol to the laboratory.

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

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

SITE VISIT FORM
Fluor Daniel GTI - Martinez, California

Project: 20200282.00 Technician: Hector Nerio
Site: SEARS/1039/Oakland, CA Scheduled: 6/23/97
Project Mgr: ~~Eileen Brennan~~ Site Mgr: M. Chamberlain

PREPARATORY COMMENTS

Visit Date: 6/16/97 9/23/97 Arrival Time: 9:30 Departure Time: 14:00

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

Called PM? Y/N Time: _____ Who: _____ Topic: _____

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

COC: Complete with store #, site address & proj office address? (Y)/N

Job # and task #

GROUNDWATER SAMPLING - Task Nr: 030543 [Quarterly]

NOTIFY: ~~Richard Cole~~ Jennie Pinacci 48 hrs. in advance (510) 444-7662. (He will insure that wells are not covered). Call 6-6-97 @ 8:51 jrllng

Notify Dale Klettke 72 hrs. in advance (510) 567-6880. DONE: Left Message @ 8:47 6/6/97

SITE ADDRESS: 1911 Telegraph Avenue, Oakland, CA

cc: Elieen Brennan, Mike Chamberlain

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.

1. Monitor and sample seven (7) wells in the following order: MW-1, MW-3, MW-7, MW-6, MW-4, MW-5 and MW-2. USE DISPOSABLE BAILERS.

2. Purge each well of 3 well volumes or until dry. Record pH, temp conductivity data. -

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 (AEN) for no cost.

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

SITE VISIT FORM
Fluor Daniel GTI - Martinez, California

Project: **20200282.00** Technician:
Site: **SEARS/1039/Oakland, CA** Scheduled: **6/23/97**
Project Mgr: **Eileen Brennan** Site Mgr: **M. Chamberlain**

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

5. Submit samples to AEN lab in Pleasant Hill. ph. # (510) 930-9090, to be analyzed for BTEX/MTBE/TPH-G (EPA Method 8020/8015M), and chlorinated hydrocarbons (EPA method 8010). Wells MW-4 and MW-6 additionally analyze for Oil and Grease (C/F).

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

Hours Estimated	8.00	Hours Used	

FINAL CHECKS

SITE SECURITY: well/covers/gates... secure? (Y)/N-If No, Explain

WASTE COMPLIANCE: # of Drums w/: Water 2, Soil ___, Empty ___, Other ___

DRUMS labeled? NA/Y/N Gen. Date: 6/10/97 Label Type: NON CLASS

SOIL pile? Y/N size: X cu.yds. SITE LEFT CLEAN? (Y)/N

TECHNICIAN'S COMMENTS

MONITORED AND SAMPLED ALL WELLS
GENERATED TWO DRUMS, LOCATED IN GARAGE.
AREA BY OLD GOODYEAR GARAGE WAS FENCED OFF
POSSIBLE FUTURE WORK TO BE DONE, SEE MAP.

Total Hours Estimated	8.00	Total Hours Used	
Travel Time Estimated	1.00	Travel Time Used	

Hector Meira
Technician

SITE VISIT FORM
GROUNDWATER TECHNOLOGY, INC.

Project: Sears/1039/Oakland
Store #: 1039, 1911 Telegraph Ave.
Project Manager: Eileen Brennan

Technician: Hector Merino
Schedule:
Job No. 020200282.030543

WELL WATER SAMPLING - TASK Nr: 030504 [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 16.46	SAT. THICK___	#GAL. BAILED_____
MW-2:	DTB_24.10	DTW 14.00	SAT. THICK___	#GAL. BAILED_____
MW-3:	DTB_27.75	DTW 18.12	SAT. THICK___	#GAL. BAILED_____
MW-4:	DTB_23.55	DTW 14.20	SAT. THICK___	#GAL. BAILED_____
MW-5:	DTB_25.10	DTW 16.00	SAT. THICK___	#GAL. BAILED_____
MW-6:	DTB_26.75	DTW 15.30	SAT. THICK___	#GAL. BAILED_____
MW-7:	DTB_26.20	DTW 17.00	SAT. THICK___	#GAL. BAILED_____

NOTES: _____

HOURS ESTIMATED: HOURS USED:

FINAL CHECKS

Are Wells Locked? YES NO Why Not?

Are Manholes Bolted Down? YES NO Why Not?

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 020200282.030543

Date: 6/10/97
Page 1 **of** _____
Project Manager: Eileen Brennan

Well ID: MW-1
Well Diameter: 2

DTW Measurements:
Initial: 16.46 Calc Well Volume: 1.2 gal
Recharge: _____ Well Volume x 3 3.8 gal
DTB: 24.25

Purge Method
Peristaltic _____
Gear Drive _____
Submersible X

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

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

Time	Temp ~~C~~ F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
10:18	18.6	0.47	6.51	1	CLOUDY	BROWN
10:19	19.5	0.42	6.19	2	↓	↓
10:20	19.8	0.48	6.15	3		
10:21	19.8	0.48	6.14	4	↓	↓

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 020200282.030543

Date: 6/10/97
Page 2 **of** _____
Project Manager: Eileen Brennan

Well ID: MW-3
Well Diameter: 4

DTW Measurements:
Initial: 18.12
Recharge: _____
DTB: 27.75

Calc Well Volume: 6.2 gal
Well Volume: X3 19 gal

Purge Method
Peristaltic _____
Gear Drive _____
Submersible X

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

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

Time	Temp X C / F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
10:30	20.3	0.55	6.08	5	CLOUDY	
10:33	20.5	0.57	6.10	10	CLEAR	
10:36	20.6	0.57	6.09	15	↓	
10:40	20.7	0.60	6.12	20	↓	

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 020200282.030543

Date: 6/10/97
Page 3 **of** _____
Project Manager: Eileen Brennan

Well ID: MW-7
Well Diameter: 2

DTW Measurements:
Initial: 17.00 Calc Well Volume: 1.4 gal
Recharge: _____ Well Volume x 3 4.4 gal
DTB: 26.20

Purge Method
Peristaltic_____
Gear Drive_____
Submersible X

Pump Depth_____ft.
Hand Bailed_____
Air Lift_____
Other_____

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

Time	Temp ___C ___F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
10:56	20.7	1.04	6.37	1	CLOUDY	BROWN
10:57	20.6	0.98	6.48	2	↓	
10:58	20.5	0.99	6.48	3		
10:59	20.6	0.98	6.49	4		
11:00	20.5	0.97	6.50	5	↓	DRY @ 5 gallons

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 020200282.030543

Date: 6/10/97
Page 4 **of** _____
Project Manager: Eileen Brennan

Well ID: MW-6
Well Diameter: 2

DTW Measurements:
Initial: 15.30 Calc Well Volume: 1.8 gal
Recharge: _____ Well Volume x3 5.5 gal
DTB: 26.75

Purge Method
Peristaltic _____
Gear Drive _____
Submersible X

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

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

Time	Temp ° C / F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
11:12	20.3	0.96	6.59	1	cloudy	
11:13	20.4	0.97	6.60	2	↓	
11:14	20.5	0.98	6.58	3		
11:15	20.5	0.93	6.61	4		
11:16	20.4	0.99	6.59	5		

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 020200282.030543

Date: 6/10/97
Page 5 **of** _____
Project Manager: Eileen Brennan

Well ID: MW-4
Well Diameter: 4

DTW Measurements:
Initial: 14.20 Calc Well Volume: 5.8 gal
Recharge: _____ Well Volume: X3 17 gal
DTB: 23.55

Purge Method
Peristaltic _____
Gear Drive _____
Submersible X

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

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

Time	Temp X C / F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
11:29	20.7	0.80	6.56	5	CLEAR	ODOR
11:33	21.0	0.83	6.52	10	↓	↓
11:37	20.9	0.85	6.55	15	↓	DRY @ 15 GALLONS
				17		

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 020200282.030543

Date: 6/6/97
Page 6 **of** _____
Project Manager: Eileen Brennan

Well ID: MW-5
Well Diameter: 8

DTW Measurements:
Initial: 16.00 Calc Well Volume: 1.4 gal
Recharge: _____ Well Volume x 3 5 gal
DTB: 25.10

Purge Method
Peristaltic_____
Gear Drive_____
Submersible ✓

Pump Depth_____ft.
Hand Bailed_____
Air Lift_____
Other_____

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

Time	Temp ✓ C / F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
11:50	20.9	1.49	6.79	1	CLOUDY	GREY
11:51	20.9	1.51	6.81	2	↓	↓
11:52	20.9	1.53	6.82	3	↓	DRY @ 3 GALLONS
1				4		
				5		

Project Name: Sears/1039/Oakland
Site Address: 1911 Telegraph Ave., Oakland
Project Number: 020200282.030543

Date: 6/10/97
Page 7 **of** _____
Project Manager: Eileen Brennan

Well ID: MW-2
Well Diameter: 4

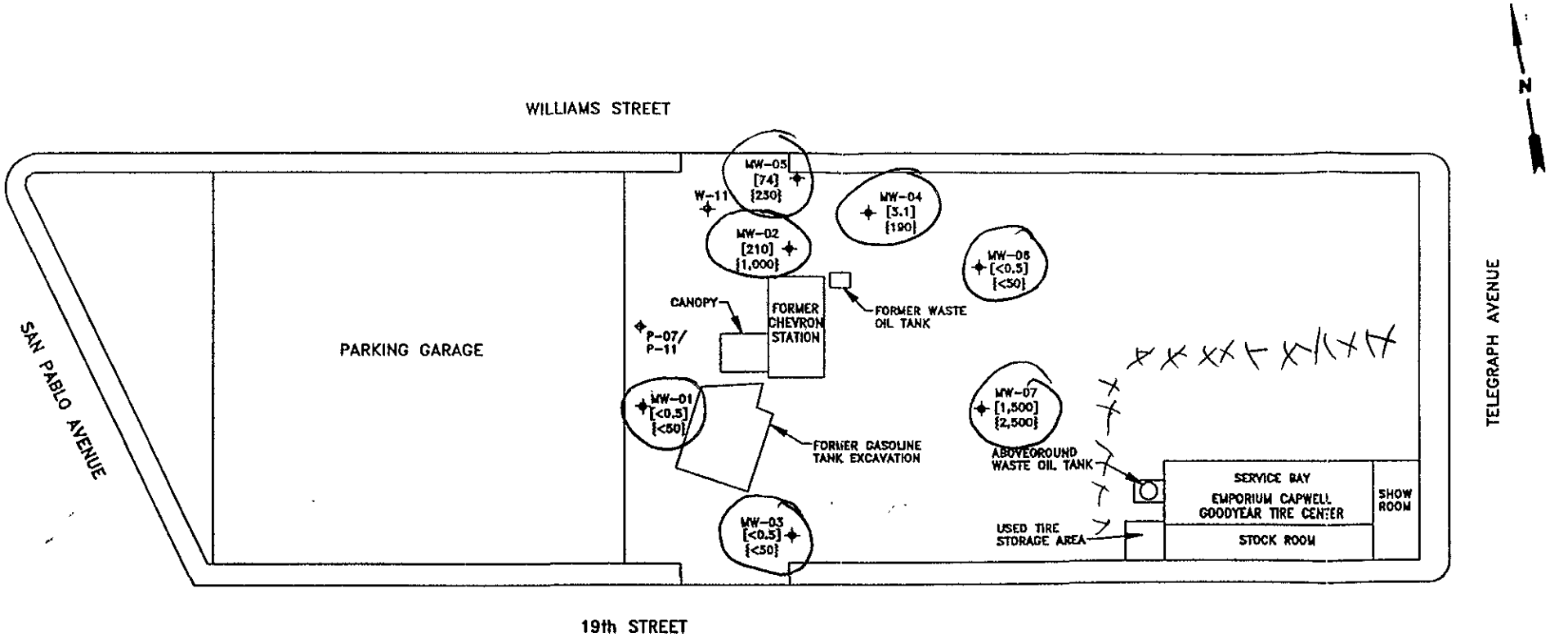
DTW Measurements:
Initial: 14.00 Calc Well Volume: 6.5 gal
Recharge: _____ Well Volume X3 19.7 gal
DTB: 24.10

Purge Method
Peristaltic_____
Gear Drive_____
Submersible X

Pump Depth_____ft.
Hand Bailed_____
Air Lift_____
Other_____

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

Time	Temp X C / F	Conductivity (mmhos/cm)	pH	Purge Volume Gallons	Turbidity	Comments
12:09	20.5	1.27	6.49	5	CLOUDY	
12:12	20.5	1.20	6.46	10	↓	
12:15	20.5	1.16	6.47	15	↓	DRY @ 15 GALLONS
				20		



LEGEND

- ✦ MONITORING WELL
- ✦ SOIL PROBE
- [ ] BENZENE CONCENTRATION [ug/l]
- { } TPH-AS-GASOLINE CONCENTRATIONS (ug/l)

REGISTERED GEOLOGIST
DENNIS P. MASLONKOWSKI
No. 5299
STATE OF CALIFORNIA

FLUOR DANIEL GTI

0 FEET SCALE

CONCENTRATIONS OF BENZENE & TPH-AS-GASOLIN IN GROUNDWATER (2/27/97

CLIENT: SEARS, ROEBUCK & CO.

LOCATION: 1901-1911 TELEGRAPH AVENU OAKLAND, CALIFORNIA

ACAD FILE: BTPH696

PROJECT NO.: 020200150

REV.: 1

DES.: BB | DFT.: SS | DATE: 3/28/97

PM: | PE/RG:

SEARS DRUM INVENTORY FORM

Completion Date: 6/10/97

Sears Store Number 1039 City/State OAKLAND CA.

Accumulation Start Date 6/10/97

FDGTI Representative HECTOR MERINO

Drum Storage Location GARAGE

CONTENTS	# OF DRUMS	*DRUM ID (A,B,C...)	LID TYPE: (OPEN OR BUNG)	**LABEL TYPE: HAZARD NON-HAZ UNCLASS	DRUM DESCRIPTION: COLOR CONDITION MARKINGS
FLUIDS					
WASHWATER RINSATE (GAS)	4	A,B,C,D	OPEN	NON CLASS	WHITE, LID BLACK DRUM, GOOD CONDITION
WASHWATER RINSATE (OIL)					
MOTOR OIL/WATER MIXTURES					
MOTOR OIL					
USED OIL/WATER MIXTURES					
USED OIL					
HEATING OIL/DIESEL FUEL AND WATER MIXTURES					
HEATING OIL/DIESEL FUEL					
GASOLINE/WATER MIXTURES					
GASOLINE					
HYDRAULIC OIL/WATER MIXTURES					
HYDRAULIC OIL					
SLUDGES					
MOTOR OIL SLUDGE/TANK BOTTOMS					
USED OIL SLUDGE/TANK BOTTOMS					
HEATING OIL/DIESEL FUEL SLUDGE/TANK BOTTOMS					
GASOLINE SLUDGE/TANK BOTTOMS					
HYDRAULIC OIL SLUDGE/TANK BOTTOMS					
OTHER--if soil, complete Page 2 of 3					
DESCRIPTION (NO SORBENT PADS or PPE IN DRUMS):					

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

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

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

SEARS SOIL INVENTORY FORM

Completion Date: 6/10/97

Store Number 1039 City/State OAKLAND CA.

Accumulation Start Date 6/10/97

FDGTI Representative HECTOR MERINO

Soil Storage Location

SOIL CONTAMINANTS	# OF DRUMS*	CUBIC YARDS	DIMENSIONS OF PILE
VIRGIN PETROLEUM OIL (motor, heating, diesel)	0		
HYDRAULIC OIL			
USED OIL			
GASOLINE			

*** IF DRUMS ARE GENERATED, COMPLETE PAGE 3 OF 3**

SEARS DRUM INVENTORY FORM

Completion Date: 6/10/97

Store Number 1039 City/State OAKLAND CA.

FDGTI Representative [illegible]

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

DRUM ID	ACCUMULATION START DATE	CONTENTS (as on label) VOLUME (if mixed waste)	SOURCE (be specific)	SLUDGE PRESENT Y/N	VOLUME (gallon)
A	2/27/97	PURGE H_2O	MONITOR WELLS	N	55
B	2/27/97	PURGE H_2O	MONITOR WELLS	N	~~20~~
C	6/10/97	PURGE H_2O	MONITOR WELLS	N	55
D	6/10/97	PURGE H_2O	MONITOR WELLS	NO	20
E					
F					
G					
H					
I					
J					
K					
L					
M					
N					
O					
P					
Q					
R					
S					
T					
U					
V					
W					
X					
Y					
Z					

EXAMPLE

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

American Environmental Network

AEN

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

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

Reporting Information:

1. Client: FLUOR DANIEL (GTI)
   Address: 757 ARNOLD DR. SUITE D
   MARTINEZ CA.
   Contact: EILEEN BREMAN
   Alt. Contact: MIKE CHAMBERLAIN

Address Report To:

2. SAME AS #1

Send Invoice To:

3. SAME AS 1+2

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

Send Report To: 1 or 2 (Circle one)

Client P.O. No.:

Client Project I.D. No.: 020200282.03054310

Sample Team Member (s) HECTOR MERINO

Lab Number	Client Sample Identification	Air Volume	Date/Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	(8010) CHLORINATED HYDROCARBONS	BTEX/TPH GAS/MTBE	TOTAL OIL GREASE	BTEX 8020							Comments / Hazards
	MW-1		6/10/97 12:30	7	ICE/NONE	7		X	X									
	MW-3		12:40			7		X	X									
	MW-7		12:50			7		X	X									
	MW-6		13:00			9		X	X	X								
	MW-4		13:10			9		X	X	X								
	MW-5		13:20			7		X	X									
	MW-2		13:30			7		X	X									
	MW2DUP		13:33			1					X							
	TBLB					1					X							

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
[signature]	6/11/97	1350	[signature]	6/11/97	1350

Method of Shipment

Lab Comments

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

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

ATTACHMENT 4

Laboratory Reports and Chain-of-Custody Record

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

RECEIVED JUN 24 1997

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

REPORT DATE: 06/21/97
DATE(S) SAMPLED: 06/10/97
DATE RECEIVED: 06/11/97
AEN WORK ORDER: 9706147

ATTN: EILEEEN BRENNAN
CLIENT PROJ. ID: 020200282030543
Srs 1039 Oakland CA

PROJECT SUMMARY:

On June 11, 1997, this laboratory received 9 water sample(s).

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

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

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

Larry Klein
Laboratory Director

VENDOR #
CUSTOMER Sears 1039
DEPT. OR JOB # 020200282
ACCOUNT # 4201
TASK # 030543
AMOUNT
APPROVAL
(IF REQUIRED)

FLUOR DANIEL GTI

SAMPLE ID: MW-1
AEN LAB NO: 9706147-01
AEN WORK ORDER: 9706147
CLIENT PROJ. ID: 020200282030543

DATE SAMPLED: 06/10/97
DATE RECEIVED: 06/11/97
REPORT DATE: 06/21/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	ND	0.5	ug/L	06/18/97
Toluene	108-88-3	ND	0.5	ug/L	06/18/97
Ethylbenzene	100-41-4	ND	0.5	ug/L	06/18/97
Xylenes, Total	1330-20-7	ND	2	ug/L	06/18/97
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	06/18/97
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	06/18/97
EPA 8010 - Water matrix	**EPA 8010**				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	06/14/97
Bromoform	75-25-2	ND	0.5	ug/L	06/14/97
Bromomethane	74-83-9	ND	2	ug/L	06/14/97
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	06/14/97
Chlorobenzene	108-90-7	ND	0.5	ug/L	06/14/97
Chloroethane	75-00-3	ND	2	ug/L	06/14/97
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	06/14/97
Chloroform	67-66-3	ND	0.5	ug/L	06/14/97
Chloromethane	74-87-3	ND	2	ug/L	06/14/97
Dibromochloromethane	124-48-1	ND	0.5	ug/L	06/14/97
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	06/14/97
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	06/14/97
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	06/14/97
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	06/14/97
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	06/14/97
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	06/14/97
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	06/14/97
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	06/14/97
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	06/14/97
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	06/14/97
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	06/14/97
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	06/14/97
Methylene Chloride	75-09-2	ND	2	ug/L	06/14/97
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	06/14/97
Tetrachloroethene	127-18-4	19 *	0.5	ug/L	06/14/97
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	06/14/97
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	06/14/97
Trichloroethene	79-01-6	ND	0.5	ug/L	06/14/97
Trichlorofluoromethane	75-69-4	ND	2	ug/L	06/14/97
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	06/14/97
Vinyl Chloride	75-01-4	ND	2	ug/L	06/14/97

FLUOR DANIEL GTI

SAMPLE ID: MW-1
AEN LAB NO: 9706147-01
AEN WORK ORDER: 9706147
CLIENT PROJ. ID: 020200282030543

DATE SAMPLED: 06/10/97
DATE RECEIVED: 06/11/97
REPORT DATE: 06/21/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED

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

FLUOR DANIEL GTI

SAMPLE ID: MW-3
AEN LAB NO: 9706147-02
AEN WORK ORDER: 9706147
CLIENT PROJ. ID: 020200282030543

DATE SAMPLED: 06/10/97
DATE RECEIVED: 06/11/97
REPORT DATE: 06/21/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	ND	0.5	ug/L	06/19/97
Toluene	108-88-3	ND	0.5	ug/L	06/19/97
Ethylbenzene	100-41-4	ND	0.5	ug/L	06/19/97
Xylenes, Total	1330-20-7	ND	2	ug/L	06/19/97
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	06/19/97
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	06/19/97
EPA 8010 - Water matrix	**EPA 8010**				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	06/14/97
Bromoform	75-25-2	ND	0.5	ug/L	06/14/97
Bromomethane	74-83-9	ND	2	ug/L	06/14/97
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	06/14/97
Chlorobenzene	108-90-7	ND	0.5	ug/L	06/14/97
Chloroethane	75-00-3	ND	2	ug/L	06/14/97
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	06/14/97
Chloroform	67-66-3	ND	0.5	ug/L	06/14/97
Chloromethane	74-87-3	ND	2	ug/L	06/14/97
Dibromochloromethane	124-48-1	ND	0.5	ug/L	06/14/97
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	06/14/97
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	06/14/97
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	06/14/97
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	06/14/97
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	06/14/97
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	06/14/97
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	06/14/97
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	06/14/97
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	06/14/97
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	06/14/97
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	06/14/97
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	06/14/97
Methylene Chloride	75-09-2	ND	2	ug/L	06/14/97
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	06/14/97
Tetrachloroethene	127-18-4	5.9 *	0.5	ug/L	06/14/97
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	06/14/97
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	06/14/97
Trichloroethene	79-01-6	ND	0.5	ug/L	06/14/97
Trichlorofluoromethane	75-69-4	ND	2	ug/L	06/14/97
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	06/14/97
Vinyl Chloride	75-01-4	ND	2	ug/L	06/14/97

FLUOR DANIEL GTI

SAMPLE ID: MW-3
AEN LAB NO: 9706147-02
AEN WORK ORDER: 9706147
CLIENT PROJ. ID: 020200282030543

DATE SAMPLED: 06/10/97
DATE RECEIVED: 06/11/97
REPORT DATE: 06/21/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED

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

FLUOR DANIEL GTI

SAMPLE ID: MW-7
AEN LAB NO: 9706147-03
AEN WORK ORDER: 9706147
CLIENT PROJ. ID: 020200282030543

DATE SAMPLED: 06/10/97
DATE RECEIVED: 06/11/97
REPORT DATE: 06/21/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	1,700 *	5	ug/L	06/18/97
Toluene	108-88-3	ND	5	ug/L	06/18/97
Ethylbenzene	100-41-4	59 *	5	ug/L	06/18/97
Xylenes, Total	1330-20-7	ND	20	ug/L	06/18/97
Purgeable HCs as Gasoline	5030/GCFID	3.2 *	0.5	mg/L	06/18/97
Methyl t-Butyl Ether	1634-04-4	ND	50	ug/L	06/18/97
EPA 8010 - Water matrix	**EPA 8010**				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	06/14/97
Bromoform	75-25-2	ND	0.5	ug/L	06/14/97
Bromomethane	74-83-9	ND	2	ug/L	06/14/97
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	06/14/97
Chlorobenzene	108-90-7	ND	0.5	ug/L	06/14/97
Chloroethane	75-00-3	ND	2	ug/L	06/14/97
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	06/14/97
Chloroform	67-66-3	ND	0.5	ug/L	06/14/97
Chloromethane	74-87-3	ND	2	ug/L	06/14/97
Dibromochloromethane	124-48-1	ND	0.5	ug/L	06/14/97
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	06/14/97
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	06/14/97
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	06/14/97
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	06/14/97
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	06/14/97
1,2-Dichloroethane	107-06-2	85 *	0.5	ug/L	06/14/97
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	06/14/97
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	06/14/97
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	06/14/97
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	06/14/97
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	06/14/97
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	06/14/97
Methylene Chloride	75-09-2	ND	2	ug/L	06/14/97
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	06/14/97
Tetrachloroethene	127-18-4	2.2 *	0.5	ug/L	06/14/97
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	06/14/97
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	06/14/97
Trichloroethene	79-01-6	4.2 *	0.5	ug/L	06/14/97
Trichlorofluoromethane	75-69-4	ND	2	ug/L	06/14/97
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	06/14/97
Vinyl Chloride	75-01-4	ND	2	ug/L	06/14/97

FLUOR DANIEL GTI

SAMPLE ID: MW-7
AEN LAB NO: 9706147-03
AEN WORK ORDER: 9706147
CLIENT PROJ. ID: 020200282030543

DATE SAMPLED: 06/10/97
DATE RECEIVED: 06/11/97
REPORT DATE: 06/21/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED

Reporting limits elevated for gas/BTEX/MTBE due to high levels of target compounds. Sample run dilute.

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

FLUOR DANIEL GTI

SAMPLE ID: MW-6
AEN LAB NO: 9706147-04
AEN WORK ORDER: 9706147
CLIENT PROJ. ID: 020200282030543

DATE SAMPLED: 06/10/97
DATE RECEIVED: 06/11/97
REPORT DATE: 06/21/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	0.9 *	0.5	ug/L	06/18/97
Toluene	108-88-3	ND	0.5	ug/L	06/18/97
Ethylbenzene	100-41-4	ND	0.5	ug/L	06/18/97
Xylenes, Total	1330-20-7	ND	2	ug/L	06/18/97
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	06/18/97
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	06/18/97
#Water Extrn for HCs		-		Extrn Date	06/16/97
Hydrocarbons (IR)	SM 5520F	ND	0.5	mg/L	06/16/97
Oil & Grease (IR)	SM 5520C	ND	0.5	mg/L	06/16/97
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	06/14/97
Bromoform	75-25-2	ND	0.5	ug/L	06/14/97
Bromomethane	74-83-9	ND	2	ug/L	06/14/97
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	06/14/97
Chlorobenzene	108-90-7	ND	0.5	ug/L	06/14/97
Chloroethane	75-00-3	ND	2	ug/L	06/14/97
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	06/14/97
Chloroform	67-66-3	ND	0.5	ug/L	06/14/97
Chloromethane	74-87-3	ND	2	ug/L	06/14/97
Dibromochloromethane	124-48-1	ND	0.5	ug/L	06/14/97
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	06/14/97
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	06/14/97
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	06/14/97
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	06/14/97
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	06/14/97
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	06/14/97
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	06/14/97
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	06/14/97
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	06/14/97
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	06/14/97
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	06/14/97
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	06/14/97
Methylene Chloride	75-09-2	ND	2	ug/L	06/14/97
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	06/14/97
Tetrachloroethene	127-18-4	1.0 *	0.5	ug/L	06/14/97
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	06/14/97
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	06/14/97

FLUOR DANIEL GTI

SAMPLE ID: MW-6
AEN LAB NO: 9706147-04
AEN WORK ORDER: 9706147
CLIENT PROJ. ID: 020200282030543

DATE SAMPLED: 06/10/97
DATE RECEIVED: 06/11/97
REPORT DATE: 06/21/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Trichloroethene	79-01-6	ND	0.5	ug/L	06/14/97
Trichlorofluoromethane	75-69-4	ND	2	ug/L	06/14/97
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	06/14/97
Vinyl Chloride	75-01-4	ND	2	ug/L	06/14/97

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

FLUOR DANIEL GTI

SAMPLE ID: MW-4
AEN LAB NO: 9706147-05
AEN WORK ORDER: 9706147
CLIENT PROJ. ID: 020200282030543

DATE SAMPLED: 06/10/97
DATE RECEIVED: 06/11/97
REPORT DATE: 06/21/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	11 *	0.5	ug/L	06/18/97
Toluene	108-88-3	ND	0.5	ug/L	06/18/97
Ethylbenzene	100-41-4	ND	0.5	ug/L	06/18/97
Xylenes, Total	1330-20-7	ND	2	ug/L	06/18/97
Purgeable HCs as Gasoline	5030/GCFID	0.2 *	0.05	mg/L	06/18/97
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	06/18/97
#Water Extrn for HCs		-		Extrn Date	06/16/97
Hydrocarbons (IR)	SM 5520F	ND	0.5	mg/L	06/16/97
Oil & Grease (IR)	SM 5520C	ND	0.5	mg/L	06/16/97
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	06/14/97
Bromoform	75-25-2	ND	0.5	ug/L	06/14/97
Bromomethane	74-83-9	ND	2	ug/L	06/14/97
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	06/14/97
Chlorobenzene	108-90-7	ND	0.5	ug/L	06/14/97
Chloroethane	75-00-3	ND	2	ug/L	06/14/97
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	06/14/97
Chloroform	67-66-3	ND	0.5	ug/L	06/14/97
Chloromethane	74-87-3	ND	2	ug/L	06/14/97
Dibromochloromethane	124-48-1	ND	0.5	ug/L	06/14/97
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	06/14/97
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	06/14/97
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	06/14/97
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	06/14/97
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	06/14/97
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	06/14/97
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	06/14/97
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	06/14/97
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	06/14/97
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	06/14/97
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	06/14/97
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	06/14/97
Methylene Chloride	75-09-2	ND	2	ug/L	06/14/97
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	06/14/97
Tetrachloroethene	127-18-4	ND	0.5	ug/L	06/14/97
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	06/14/97
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	06/14/97

FLUOR DANIEL GTI

SAMPLE ID: MW-4
AEN LAB NO: 9706147-05
AEN WORK ORDER: 9706147
CLIENT PROJ. ID: 020200282030543

DATE SAMPLED: 06/10/97
DATE RECEIVED: 06/11/97
REPORT DATE: 06/21/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Trichloroethene	79-01-6	ND	0.5	ug/L	06/14/97
Trichlorofluoromethane	75-69-4	ND	2	ug/L	06/14/97
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	06/14/97
Vinyl Chloride	75-01-4	ND	2	ug/L	06/14/97

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

FLUOR DANIEL GTI

SAMPLE ID: MW-5
AEN LAB NO: 9706147-06
AEN WORK ORDER: 9706147
CLIENT PROJ. ID: 020200282030543

DATE SAMPLED: 06/10/97
DATE RECEIVED: 06/11/97
REPORT DATE: 06/21/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	490 *	3	ug/L	06/18/97
Toluene	108-88-3	19 *	3	ug/L	06/18/97
Ethylbenzene	100-41-4	ND	3	ug/L	06/18/97
Xylenes, Total	1330-20-7	ND	10	ug/L	06/18/97
Purgeable HCs as Gasoline	5030/GCFID	1.2 *	0.3	mg/L	06/18/97
Methyl t-Butyl Ether	1634-04-4	ND	30	ug/L	06/18/97
EPA 8010 - Water matrix	**EPA 8010**				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	06/14/97
Bromoform	75-25-2	ND	0.5	ug/L	06/14/97
Bromomethane	74-83-9	ND	2	ug/L	06/14/97
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	06/14/97
Chlorobenzene	108-90-7	ND	0.5	ug/L	06/14/97
Chloroethane	75-00-3	ND	2	ug/L	06/14/97
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	06/14/97
Chloroform	67-66-3	ND	0.5	ug/L	06/14/97
Chloromethane	74-87-3	ND	2	ug/L	06/14/97
Dibromochloromethane	124-48-1	ND	0.5	ug/L	06/14/97
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	06/14/97
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	06/14/97
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	06/14/97
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	06/14/97
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	06/14/97
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	06/14/97
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	06/14/97
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	06/14/97
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	06/14/97
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	06/14/97
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	06/14/97
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	06/14/97
Methylene Chloride	75-09-2	ND	2	ug/L	06/14/97
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	06/14/97
Tetrachloroethene	127-18-4	ND	0.5	ug/L	06/14/97
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	06/14/97
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	06/14/97
Trichloroethene	79-01-6	ND	0.5	ug/L	06/14/97
Trichlorofluoromethane	75-69-4	ND	2	ug/L	06/14/97
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	06/14/97
Vinyl Chloride	75-01-4	ND	2	ug/L	06/14/97

FLUOR DANIEL GTI

SAMPLE ID: MW-5
AEN LAB NO: 9706147-06
AEN WORK ORDER: 9706147
CLIENT PROJ. ID: 020200282030543

DATE SAMPLED: 06/10/97
DATE RECEIVED: 06/11/97
REPORT DATE: 06/21/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED

Reporting limits elevated for gas/BTEX/MTBE due to high levels of target compounds. Sample run dilute.

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

FLUOR DANIEL GTI

SAMPLE ID: MW-2
AEN LAB NO: 9706147-07
AEN WORK ORDER: 9706147
CLIENT PROJ. ID: 020200282030543

DATE SAMPLED: 06/10/97
DATE RECEIVED: 06/11/97
REPORT DATE: 06/21/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	**EPA 8020**				
Benzene	71-43-2	510 *	3	ug/L	06/18/97
Toluene	108-88-3	3 *	3	ug/L	06/18/97
Ethylbenzene	100-41-4	6 *	3	ug/L	06/18/97
Xylenes, Total	1330-20-7	ND	10	ug/L	06/18/97
Purgeable HCs as Gasoline	5030/GCFID	1.8 *	0.3	mg/L	06/18/97
Methyl t-Butyl Ether	1634-04-4	ND	30	ug/L	06/18/97
EPA 8010 - Water matrix	**EPA 8010**				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	06/14/97
Bromoform	75-25-2	ND	0.5	ug/L	06/14/97
Bromomethane	74-83-9	ND	2	ug/L	06/14/97
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	06/14/97
Chlorobenzene	108-90-7	ND	0.5	ug/L	06/14/97
Chloroethane	75-00-3	ND	2	ug/L	06/14/97
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	06/14/97
Chloroform	67-66-3	ND	0.5	ug/L	06/14/97
Chloromethane	74-87-3	ND	2	ug/L	06/14/97
Dibromochloromethane	124-48-1	ND	0.5	ug/L	06/14/97
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	06/14/97
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	06/14/97
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	06/14/97
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	06/14/97
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	06/14/97
1,2-Dichloroethane	107-06-2	47 *	0.5	ug/L	06/14/97
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	06/14/97
cis-1,2-Dichloroethene	156-59-2	4.9 *	0.5	ug/L	06/14/97
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	06/14/97
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	06/14/97
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	06/14/97
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	06/14/97
Methylene Chloride	75-09-2	ND	2	ug/L	06/14/97
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	06/14/97
Tetrachloroethene	127-18-4	1.0 *	0.5	ug/L	06/14/97
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	06/14/97
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	06/14/97
Trichloroethene	79-01-6	19 *	0.5	ug/L	06/14/97
Trichlorofluoromethane	75-69-4	ND	2	ug/L	06/14/97
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	06/14/97
Vinyl Chloride	75-01-4	ND	2	ug/L	06/14/97

FLUOR DANIEL GTI

SAMPLE ID: MW-2
AEN LAB NO: 9706147-07
AEN WORK ORDER: 9706147
CLIENT PROJ. ID: 020200282030543

DATE SAMPLED: 06/10/97
DATE RECEIVED: 06/11/97
REPORT DATE: 06/21/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED

Reporting limits elevated for gas/BTEX/MTBE due to high levels of target compounds. Sample run dilute.

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

FLUOR DANIEL GTI

SAMPLE ID: MW2 DUP
AEN LAB NO: 9706147-08
AEN WORK ORDER: 9706147
CLIENT PROJ. ID: 020200282030543

DATE SAMPLED: 06/10/97
DATE RECEIVED: 06/11/97
REPORT DATE: 06/21/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8020 for BTEX	**EPA 8020**				
Benzene	71-43-2	520 *	3	ug/L	06/18/97
Toluene	108-88-3	3 *	3	ug/L	06/18/97
Ethylbenzene	100-41-4	7 *	3	ug/L	06/18/97
Xylenes, Total	1330-20-7	ND	10	ug/L	06/18/97
Methyl t-Butyl Ether	1634-04-4	ND	30	ug/L	06/18/97

Reporting limits elevated due to high levels of target compounds. Sample run dilute.

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

FLUOR DANIEL GTI

SAMPLE ID: TBLB
AEN LAB NO: 9706147-09
AEN WORK ORDER: 9706147
CLIENT PROJ. ID: 020200282030543

DATE SAMPLED:
DATE RECEIVED: 06/11/97
REPORT DATE: 06/21/97

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8020 for BTEX	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	06/18/97
Toluene	108-88-3	ND	0.5	ug/L	06/18/97
Ethylbenzene	100-41-4	ND	0.5	ug/L	06/18/97
Xylenes, Total	1330-20-7	ND	2	ug/L	06/18/97
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	06/18/97

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

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9706147

CLIENT PROJECT ID: 020200282030543

Quality Control Summary

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

Definitions

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

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

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

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

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

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

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

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 8010

AEN JOB NO: 9706147
INSTRUMENT: I
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery: Bromochloromethane	Percent Recovery: 1-Bromo-3-chloropropane
06/14/97	MW-1	01	95	102
06/14/97	MW-3	02	95	105
06/14/97	MW-7	03	93	100
06/14/97	MW-6	04	97	104
06/14/97	MW-4	05	92	92
06/14/97	MW-5	06	90	100
06/14/97	MW-2	07	97	99
QC Limits:			70-130	70-130

DATE ANALYZED: 06/11/97
SAMPLE SPIKED: LCS
INSTRUMENT: I

Laboratory Control Sample Recovery

Analyte	Spike Added (ug/L)	Percent Recovery	RPD	QC Limits: Percent Recovery	QC Limits: RPD
1,1-Dichloroethene	20	96	3	78-122	20
Trichloroethene	20	115	6	80-128	20
Chlorobenzene	20	95	1	66-120	20

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

QUALITY CONTROL DATA

METHOD: EPA 8020, 5030 GCFID

AEN JOB NO: 9706147
INSTRUMENT: E
MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery Fluorobenzene
06/18/97	MW-1	01	102
06/19/97	MW-3	02	102
06/18/97	MW-7	03	98
06/18/97	MW-6	04	102
06/18/97	MW-4	05	101
06/18/97	MW-5	06	107
06/18/97	MW-2	07	104
06/18/97	MW2 DUP	08	105
06/18/97	TBLB	09	102
QC Limits:			70-130

DATE ANALYZED: 06/18/97
SAMPLE SPIKED: LCS
INSTRUMENT: E

Laboratory Control Sample Recovery

Analyte	Spike Added (ug/L)	Percent Recovery	RPD	QC Limits Percent Recovery	QC Limits RPD
Benzene	18.5	108	7	85-117	20
Toluene	64.7	106	3	84-120	20
Hydrocarbons as Gasoline	500	105	1	85-115	20

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

QUALITY CONTROL DATA

METHOD: SM 5520

AEN JOB NO: 9706147
DATE EXTRACTED: 06/16/97
DATE ANALYZED: 06/16/97
SAMPLE SPIKED: LCS
INSTRUMENT: IR
MATRIX: WATER

Laboratory Control Sample

Analyte	Spike Added (mg/L)	Percent Recovery	QC Limits Percent Recovery
Oil	7.50	98	73-112

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

*** END OF REPORT ***

Reporting Information:

1. Client: FLUOR DANIEL GTI
Address: 757 ARNOLD DR. SUITE D MARTINEZ CA
Contact: EILEEN BREMAN
Alt. Contact: MIKE CHAMBERLAIN

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

AEN

R352 RISE

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REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

Lab Job Number: 9706147
Lab Destination:
Date Samples Shipped:
Lab Contact:
Date Results Required:
Date Report Required:
Client Phone No.: (510) 370-3990
Client FAX No.: (510) 370-3991

Address Report To:
2. SAME AS #1

Send Invoice To:
3. SAME AS 1+2

Send Report To: 1 or 2 (Circle one)

Client P.O. No.:

Client Project I.D. No.: 020200282.0305431

Sample Team Member (s) HECTOR MERINO

ANALYSIS: CHLORINATED HYDROCARBONS (8010); BTEX/TPH GAS/MTBE; TOTAL OIL GREASE; BTEX 8020

Lab Number	Client Sample Identification	Air Volume	Date/Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	CHLORINATED HYDROCARBONS (8010)	BTEX/TPH GAS/MTBE	TOTAL OIL GREASE	BTEX 8020	Comments / Hazards
01A-G	MW-1		6/10 12:30	7	HCl/NONE	7		X	X			
02A-G	MW-3		12:40			7		X	⊗			O&G = 5520CF
03A-G	MW-7		12:50			7		X	X			per Eileen Breman R. Byars
04A-I	MW-6		13:00			9		X	X	X		
05A-I	MW-4		13:10			9		X	X	X		
06A-G	MW-5		13:20			7		X	X			
07A-G	MW-2		13:30			7		X	X			
08A	MW2DUP		97 13:33			1					X	
09A	TBLB					1					X	

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
[signature]	6/11/97	1350	[signature]	6/11/97	1350
[signature]	6/11/97	1615	[signature]	6/11/97	19:00

Method of Shipment

Lab Comments

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

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