



ENVIRONMENTAL
PROTECTION

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January 14, 1997

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

SUBJECT: Quarterly Groundwater Monitoring and Sampling Report
Sears Store 1039
1911 Telegraph Avenue, Oakland, California
Fluor Daniel GTI Project 020200150

Dear Mr. Klettke:

On behalf of Sears, Roebuck and Co., Fluor Daniel GTI, Inc. presents the quarterly groundwater monitoring and sampling data collected on December 3, 1996, 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 groundwater 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 benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tert-butyl ether (MTBE), and total petroleum hydrocarbons (TPH) as gasoline (EPA Method 8020/8015M), and chlorinated hydrocarbons (EPA methods 8010). Additionally, wells MW-4 and MW-6 were analyzed for oil and grease. 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. The analytical results from groundwater samples collected in September were generally consistent with past results.

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

Sincerely,
Fluor Daniel GTI, Inc.

A handwritten signature in cursive script that reads "Mike Wray".

Michael J. Wray
Project Manager

Attachments

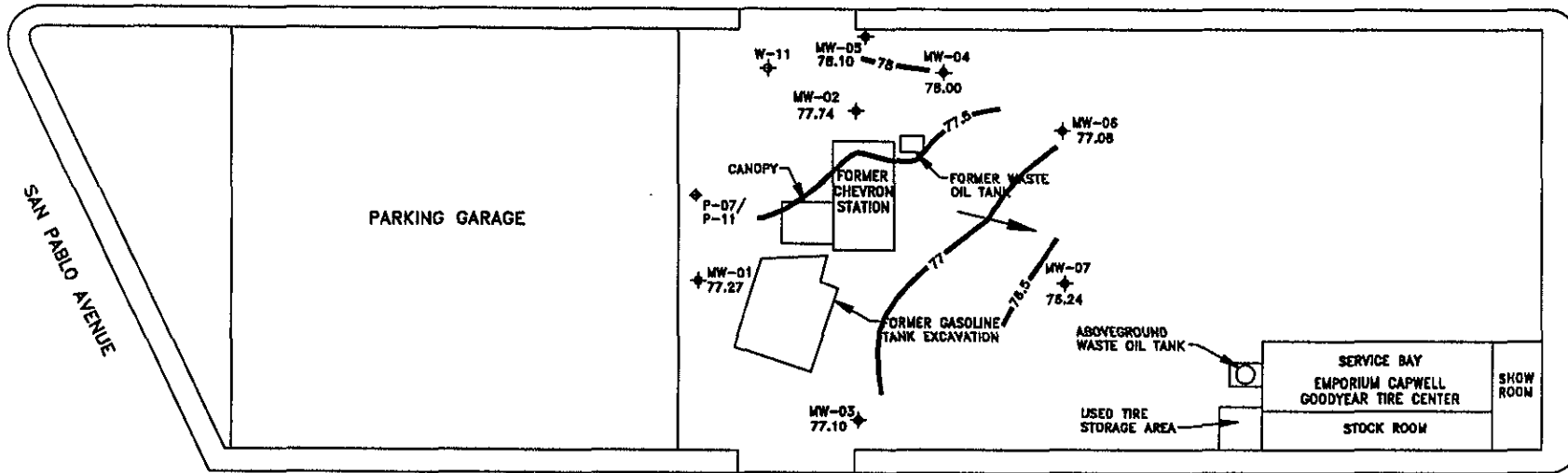
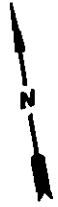
c: Scott M. DeMuth - Sears, Roebuck and Co.

ATTACHMENT 1

Figures

1. Potentiometric Surface Map (12/03/96)
2. Concentrations of Benzene, TPH-as-Gasoline and TPH-as-Motor Oil in Groundwater (12/03/96)

WILLIAMS STREET

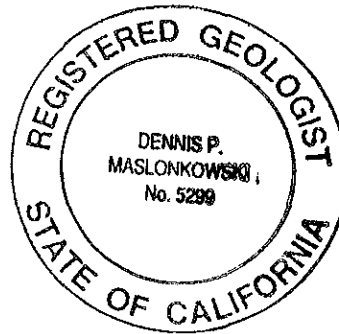



TELEGRAPH AVENUE

19th STREET

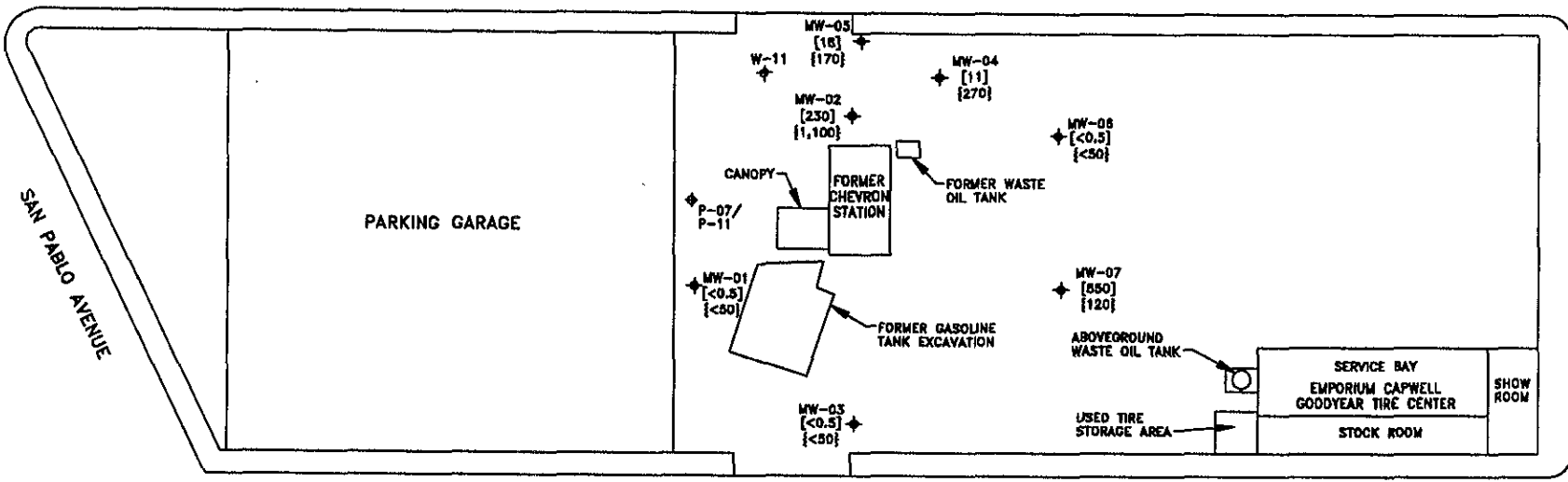
LEGEND

- ◆ MONITORING WELL
- ◆ SOIL PROBE
- () POTENTIOMETRIC SURFACE ELEVATION (RELATIVE)
- () POTENTIOMETRIC SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION



FLUOR DANIEL GTI 		0 FEET SCALE	
POTENTIOMETRIC SURFACE MAP (12/3/96)			
CLIENT: SEARS, ROEBUCK & CO.			
LOCATION: 1901-1911 TELEGRAPH AVENUE OAKLAND, CALIFORNIA			
ACAD FILE: PSM896		PROJECT NO.: 020200150	
REV: 1			
DES: BB	DET: SS	DATE: 12/30/86	FIGURE: 1
PM:		PE/RO:	

WILLIAMS STREET



SAN PABLO AVENUE

PARKING GARAGE

CANOPY
FORMER CHEVRON STATION

FORMER WASTE OIL TANK

FORMER GASOLINE TANK EXCAVATION

MW-07
[550]
[120]

ABOVEGROUND WASTE OIL TANK

USED TIRE STORAGE AREA

SERVICE BAY
EMPORIUM CAPWELL
GOODYEAR TIRE CENTER
STOCK ROOM

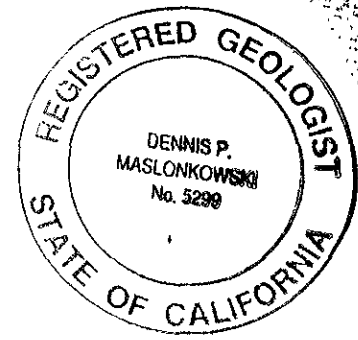
SHOW ROOM


TELEGRAPH AVENUE

19th STREET

LEGEND

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



FLUOR DANIEL DTI 		0 FEET 50 SCALE	
CONCENTRATIONS OF BENZENE & TPH-AS-GASOLINE IN GROUNDWATER (12/3/96)			
CLIENT:		SEARS, ROEBUCK & CO.	
LOCATION:		1901-1911 TELEGRAPH AVENUE OAKLAND, CALIFORNIA	
ACAD FILE:	BTPH696	PROJECT NO.:	020200150
REV.:	1	DES.:	BB
		DET.:	SS
		DATE:	12/30/96
		PM:	PE/RO:
			FIGURE: 2

ATTACHMENT 2

Tables

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

TABLE 1
Summary of Historical Groundwater Monitoring Data
 (All measurements are in feet; all elevations are in feet above *Relative Elevation)

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
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
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
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
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
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
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

Notes: "--" indicates no datum for the cell, including "product not detected"
 * = Relative elevation of 100 feet

TABLE 2
Summary of Historical Groundwater Sample 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
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	350	3.0	17	10	2100	29	55	1.9	55	--	<0.5
	12/03/96	40	230	2.4	7.8	7	1,100	20	86	7	<0.5	--	<0.5
MW-3	10/95	--	ND	ND	ND	ND	<50	ND	ND	--	--	--	ND
	01/96	--	ND	ND	ND	ND	<50	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	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	--	--	<0.5	<0.5
	12/03/96	<5	<0.5	<0.5	<0.5	<2	<50	<0.5	<0.5	<0.5	<0.5	--	2.3
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
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	22	1.0	<0.5	<2	160	<0.5	<0.5	--	--	--	<0.5
	12/03/96	6	18	0.6	<0.5	<0.5	170	<0.5	<0.5	<0.5	<0.5	--	<0.5
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
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	<50	850	<5	<5	30	120	4	75	<3	<3	<0.5	4

Source: AEN Environmental Laboratories 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
 ug/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 = Tetrachlorethane
 1,2 DCA = 1,2 Dichloroethane
 TCE = Trichloroethene
 MTBE = Methyl tert-Butyl ether
 cis 1,2 DCE = CIS-1,2-Dichloroethene
 1,1-DCE = 1,1 Dichloroethene



**SITE VISIT FORM
GROUNDWATER TECHNOLOGY, INC.**

Project: Sears/Oakland #2
Store #: 1058
Project Manager: Mike Wray

Technician: HECTOR MERINO
Schedule: 12/3/96
Job No. 020200150.030543

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	DTB	DTW	SAT. THICK	#GAL. BAILED
2" MW-1:	DTB <u>24.25</u>	DTW <u>17.07</u>	SAT. THICK _____	#GAL. BAILED _____
4" MW-2:	DTB <u>24.10</u>	DTW <u>16.20</u>	SAT. THICK _____	#GAL. BAILED _____
4" MW-3:	DTB <u>27.75</u>	DTW <u>18.57</u>	SAT. THICK _____	#GAL. BAILED _____
4" MW-4:	DTB <u>23.55</u>	DTW <u>13.99</u>	SAT. THICK _____	#GAL. BAILED _____
2" MW-5:	DTB <u>25.10</u>	DTW <u>13.99</u>	SAT. THICK _____	#GAL. BAILED _____
2" MW-6:	DTB <u>26.75</u>	DTW <u>15.07</u>	SAT. THICK _____	#GAL. BAILED _____
2" MW-7:	DTB <u>26.20</u>	DTW <u>17.12</u>	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 - #2 Telegraph
 Site Address: 1911 Telegraph Ave., Oakland
 Project Number: 020200150.030543

Date: 12/3/96
 Page 1 of 7
 Project Manager: Mike Wray

Well ID: MW-1
 Well Diameter: 2

DTW Measurements:
 Initial: 17.07 Calc Well Volume: 1.1 gal
 Recharge: 18.51 Well Volume: X3 4 gal
 DTB: 24.25

Purge Method
 Peristaltic _____
 Gear Drive _____
 Submersible X

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

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

Time	Temp <u>X</u> C F	Conductivity mS/cm	pH	Purge Volume Gallons	Turbidity	Comments
11:12	11.0	0.58	6.78	1	cloudy	Blown
11:13	15.2	0.46	6.78	2	↓	
11:14	17.2	0.54	6.70	3	↓	
11:15	17.4	0.54	6.68	4	↓	

Project Name: Sears - #2 Telegraph
 Site Address: 1911 Telegraph Ave., Oakland
 Project Number: 020200150.030543

Date: 12/3/96
 Page 3 of 7
 Project Manager: Mike Wray

Well ID: MW-7
 Well Diameter: 2

DTW Measurements:
 Initial: 17.12 Calc Well Volume: 1.9 gal
 Recharge: 18.90 Well Volume: X3 4 gal
 DTB: 26.20

Purge Method **Pump Depth** _____ ft. **Instruments Used**
 Peristaltic _____ Hand Bailed _____ YSI: X _____ Other: _____
 Gear Drive _____ Air Lift _____ Hydac: _____
 Submersible X _____ Other _____ Omega: _____

Time	Temp <u>X</u> $\frac{C}{F}$	Conductivity	pH	Purge Volume Gallons	Turbidity	Comments
11:44	21.3	1.49	6.40	1	cloudy	
11:45	21.4	1.78	6.56	2	↓	
11:46	21.6	1.73	6.64	3	↓	
11:47	22.0	1.81	6.68	4	↓	

Project Name: Sears - #2 Telegraph
 Site Address: 1911 Telegraph Ave., Oakland
 Project Number: 020200150.030543

Date: 12/3/96
 Page 4 of 7
 Project Manager: Mike Wray

Well ID: MW-6
 Well Diameter: 2

DTW Measurements: 15.07 Calc Well Volume: _____ gal
 Initial: _____
 Recharge: 16.89 Well Volume: _____ gal
 DTB: 26.75

Purge Method _____ **Pump Depth** _____ ft.
 Peristaltic _____ Hand Bailed _____
 Gear Drive _____ Air Lift _____
 Submersible X Other _____

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

Time	Temp <u>X</u> C F	Conductivity MTCM	pH	Purge Volume Gallons	Turbidity	Comments
11:56	21.5	1.50	6.71	1	Cloudy	Brown
11:57	21.9	1.56	6.67	2	↓	
11:58	22.1	1.64	6.64	3		
11:59	22.1	1.66	6.64	4		

Project Name: Sears - #2 Telegraph
 Site Address: 1911 Telegraph Ave., Oakland
 Project Number: 020200150.030543

Date: 12/3/96
 Page 6 of 7
 Project Manager: Mike Wray

Well ID: MW-5
 Well Diameter: 2"

DTW Measurements:
 Initial: 13.99 Calc Well Volume: 18 gal
 Recharge: 15.09 Well Volume: X3 5 gal
 DTB: 25.80

Purge Method _____ Pump Depth _____ ft.
 Peristaltic _____ Hand Bailed _____
 Gear Drive _____ Air Lift _____
 Submersible X Other _____

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

Time	Temp	Conductivity	pH	Purge Volume Gallons	Turbidity	Comments
	<u>X</u> C ____ F					
12:26	22.2	1.70	6.78	1	↓	cloudy odor
12:29	22.0	1.66	6.82	2		
12:30	22.1	1.65	6.86	3		
12:29	22.2	1.65	6.89	4		
12:30	22.3	1.65	6.90	5		

ATTACHMENT 4
Laboratory Reports
and Chain-of-Custody Record

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

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

ATTN: BRIDGET BAXTER
CLIENT PROJ. ID: 020200150030543

REPORT DATE: 12/21/96
DATE(S) SAMPLED: 12/03/96
DATE RECEIVED: 12/05/96
AEN WORK ORDER: 9612051

PROJECT SUMMARY:

On December 5, 1996, 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

FLUOR DANIEL GTI

SAMPLE ID: MW-1
 AEN LAB NO: 9612051-01
 AEN WORK ORDER: 9612051
 CLIENT PROJ. ID: 020200150030543

DATE SAMPLED: 12/03/96
 DATE RECEIVED: 12/05/96
 REPORT DATE: 12/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	12/11/96
Toluene	108-88-3	ND	0.5	ug/L	12/11/96
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/11/96
Xylenes, Total	1330-20-7	ND	2	ug/L	12/11/96
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	12/11/96
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	12/11/96
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	12/16/96
Bromoform	75-25-2	ND	0.5	ug/L	12/16/96
Bromomethane	74-83-9	ND	2	ug/L	12/16/96
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	12/16/96
Chlorobenzene	108-90-7	ND	0.5	ug/L	12/16/96
Chloroethane	75-00-3	ND	2	ug/L	12/16/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	12/16/96
Chloroform	67-66-3	ND	0.5	ug/L	12/16/96
Chloromethane	74-87-3	ND	2	ug/L	12/16/96
Dibromochloromethane	124-48-1	ND	0.5	ug/L	12/16/96
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	12/16/96
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	12/16/96
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	12/16/96
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	12/16/96
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	12/16/96
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	12/16/96
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	12/16/96
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	12/16/96
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	12/16/96
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	12/16/96
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	12/16/96
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	12/16/96
Methylene Chloride	75-09-2	ND	2	ug/L	12/16/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	12/16/96
Tetrachloroethene	127-18-4	ND	0.5	ug/L	12/16/96
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	12/16/96
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	12/16/96
Trichloroethene	79-01-6	ND	0.5	ug/L	12/16/96
Trichlorofluoromethane	75-69-4	ND	2	ug/L	12/16/96
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	12/16/96
Vinyl Chloride	75-01-4	ND	2	ug/L	12/16/96

FLUOR DANIEL GTI

SAMPLE ID: MW-1
AEN LAB NO: 9612051-01
AEN WORK ORDER: 9612051
CLIENT PROJ. ID: 020200150030543

DATE SAMPLED: 12/03/96
DATE RECEIVED: 12/05/96
REPORT DATE: 12/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
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ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

2

FLUOR DANIEL GTI

SAMPLE ID: MW-3
 AEN LAB NO: 9612051-02
 AEN WORK ORDER: 9612051
 CLIENT PROJ. ID: 020200150030543

DATE SAMPLED: 12/03/96
 DATE RECEIVED: 12/05/96
 REPORT DATE: 12/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs					
	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	12/11/96
Toluene	108-88-3	ND	0.5	ug/L	12/11/96
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/11/96
Xylenes, Total	1330-20-7	ND	2	ug/L	12/11/96
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	12/11/96
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	12/11/96
EPA 8010 - Water matrix					
	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	12/11/96
Bromoform	75-25-2	ND	0.5	ug/L	12/11/96
Bromomethane	74-83-9	ND	2	ug/L	12/11/96
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	12/11/96
Chlorobenzene	108-90-7	ND	0.5	ug/L	12/11/96
Chloroethane	75-00-3	ND	2	ug/L	12/11/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	12/11/96
Chloroform	67-66-3	ND	0.5	ug/L	12/11/96
Chloromethane	74-87-3	ND	2	ug/L	12/11/96
Dibromochloromethane	124-48-1	ND	0.5	ug/L	12/11/96
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	12/11/96
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	12/11/96
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	12/11/96
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	12/11/96
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	12/11/96
1,2-Dichloroethane	107-06-2	ND	0.5	ug/L	12/11/96
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	12/11/96
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	12/11/96
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	12/11/96
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	12/11/96
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	12/11/96
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	12/11/96
Methylene Chloride	75-09-2	ND	2	ug/L	12/11/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	12/11/96
Tetrachloroethene	127-18-4	2.3 *	0.5	ug/L	12/11/96
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	12/11/96
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	12/11/96
Trichloroethene	79-01-6	ND	0.5	ug/L	12/11/96
Trichlorofluoromethane	75-69-4	ND	2	ug/L	12/11/96
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	12/11/96
Vinyl Chloride	75-01-4	ND	2	ug/L	12/11/96

FLUOR DANIEL GTI

SAMPLE ID: MW-3
AEN LAB NO: 9612051-02
AEN WORK ORDER: 9612051
CLIENT PROJ. ID: 020200150030543

DATE SAMPLED: 12/03/96
DATE RECEIVED: 12/05/96
REPORT DATE: 12/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
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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: 9612051-03
 AEN WORK ORDER: 9612051
 CLIENT PROJ. ID: 020200150030543

DATE SAMPLED: 12/03/96
 DATE RECEIVED: 12/05/96
 REPORT DATE: 12/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs					
	EPA 8020				
Benzene	71-43-2	850 *	5 ug/L		12/13/96
Toluene	108-88-3	ND	5 ug/L		12/13/96
Ethylbenzene	100-41-4	ND	5 ug/L		12/13/96
Xylenes, Total	1330-20-7	30 *	20 ug/L		12/13/96
Purgeable HCs as Gasoline	5030/GCFID	1.2 *	0.5 mg/L		12/13/96
Methyl t-Butyl Ether	1634-04-4	ND	50 ug/L		12/13/96
EPA 8010 - Water matrix					
	EPA 8010				
Bromodichloromethane	75-27-4	ND	3 ug/L		12/11/96
Bromoform	75-25-2	ND	3 ug/L		12/11/96
Bromomethane	74-83-9	ND	10 ug/L		12/11/96
Carbon Tetrachloride	56-23-5	ND	3 ug/L		12/11/96
Chlorobenzene	108-90-7	ND	3 ug/L		12/11/96
Chloroethane	75-00-3	ND	10 ug/L		12/11/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	3 ug/L		12/11/96
Chloroform	67-66-3	ND	3 ug/L		12/11/96
Chloromethane	74-87-3	ND	10 ug/L		12/11/96
Dibromochloromethane	124-48-1	ND	3 ug/L		12/11/96
1,2-Dichlorobenzene	95-50-1	ND	3 ug/L		12/11/96
1,3-Dichlorobenzene	541-73-1	ND	3 ug/L		12/11/96
1,4-Dichlorobenzene	106-46-7	ND	3 ug/L		12/11/96
Dichlorodifluoromethane	75-71-8	ND	10 ug/L		12/11/96
1,1-Dichloroethane	75-34-3	ND	3 ug/L		12/11/96
1,2-Dichloroethane	107-06-2	75 *	3 ug/L		12/11/96
1,1-Dichloroethene	75-35-4	ND	3 ug/L		12/11/96
cis-1,2-Dichloroethene	156-59-2	ND	3 ug/L		12/11/96
trans-1,2-Dichloroethene	156-60-5	ND	3 ug/L		12/11/96
1,2-Dichloropropane	78-87-5	ND	3 ug/L		12/11/96
cis-1,3-Dichloropropene	10061-01-5	ND	3 ug/L		12/11/96
trans-1,3-Dichloropropene	10061-02-6	ND	3 ug/L		12/11/96
Methylene Chloride	75-09-2	ND	10 ug/L		12/11/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	3 ug/L		12/11/96
Tetrachloroethene	127-18-4	4 *	3 ug/L		12/11/96
1,1,1-Trichloroethane	71-55-6	ND	3 ug/L		12/11/96
1,1,2-Trichloroethane	79-00-5	ND	3 ug/L		12/11/96
Trichloroethene	79-01-6	4 *	3 ug/L		12/11/96
Trichlorofluoromethane	75-69-4	ND	10 ug/L		12/11/96
1,1,2Trichlorotrifluoroethane	76-13-1	ND	3 ug/L		12/11/96
Vinyl Chloride	75-01-4	ND	10 ug/L		12/11/96

FLUOR DANIEL GTI

SAMPLE ID: MW-7
AEN LAB NO: 9612051-03
AEN WORK ORDER: 9612051
CLIENT PROJ. ID: 020200150030543

DATE SAMPLED: 12/03/96
DATE RECEIVED: 12/05/96
REPORT DATE: 12/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
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RLs elevated for EPA 8010 due to high levels of non-target compounds; RLs 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

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FLUOR DANIEL GTI

SAMPLE ID: MW-6
 AEN LAB NO: 9612051-04
 AEN WORK ORDER: 9612051
 CLIENT PROJ. ID: 020200150030543

DATE SAMPLED: 12/03/96
 DATE RECEIVED: 12/05/96
 REPORT DATE: 12/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	ND	0.5	ug/L	12/16/96
Toluene	108-88-3	ND	0.5	ug/L	12/16/96
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/16/96
Xylenes, Total	1330-20-7	ND	2	ug/L	12/16/96
Purgeable HCs as Gasoline	5030/GCFID	ND	0.05	mg/L	12/16/96
Methyl t-Butyl Ether	1634-04-4	ND	5	ug/L	12/16/96
#Water Extrn for HCs		-		Extrn Date	12/10/96
Hydrocarbons (IR)	SM 5520F	ND	0.5	mg/L	12/11/96
Oil & Grease (IR)	SM 5520C	ND	0.5	mg/L	12/11/96
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5	ug/L	12/11/96
Bromoform	75-25-2	ND	0.5	ug/L	12/11/96
Bromomethane	74-83-9	ND	2	ug/L	12/11/96
Carbon Tetrachloride	56-23-5	ND	0.5	ug/L	12/11/96
Chlorobenzene	108-90-7	ND	0.5	ug/L	12/11/96
Chloroethane	75-00-3	ND	.2	ug/L	12/11/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5	ug/L	12/11/96
Chloroform	67-66-3	ND	0.5	ug/L	12/11/96
Chloromethane	74-87-3	ND	2	ug/L	12/11/96
Dibromochloromethane	124-48-1	ND	0.5	ug/L	12/11/96
1,2-Dichlorobenzene	95-50-1	ND	0.5	ug/L	12/11/96
1,3-Dichlorobenzene	541-73-1	ND	0.5	ug/L	12/11/96
1,4-Dichlorobenzene	106-46-7	ND	0.5	ug/L	12/11/96
Dichlorodifluoromethane	75-71-8	ND	2	ug/L	12/11/96
1,1-Dichloroethane	75-34-3	ND	0.5	ug/L	12/11/96
1,2-Dichloroethane	107-06-2	0.5 *	0.5	ug/L	12/11/96
1,1-Dichloroethene	75-35-4	ND	0.5	ug/L	12/11/96
cis-1,2-Dichloroethene	156-59-2	ND	0.5	ug/L	12/11/96
trans-1,2-Dichloroethene	156-60-5	ND	0.5	ug/L	12/11/96
1,2-Dichloropropane	78-87-5	ND	0.5	ug/L	12/11/96
cis-1,3-Dichloropropene	10061-01-5	ND	0.5	ug/L	12/11/96
trans-1,3-Dichloropropene	10061-02-6	ND	0.5	ug/L	12/11/96
Methylene Chloride	75-09-2	ND	2	ug/L	12/11/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5	ug/L	12/11/96
Tetrachloroethene	127-18-4	0.9 *	0.5	ug/L	12/11/96
1,1,1-Trichloroethane	71-55-6	ND	0.5	ug/L	12/11/96
1,1,2-Trichloroethane	79-00-5	ND	0.5	ug/L	12/11/96

FLUOR DANIEL GTI

SAMPLE ID: MW-6
AEN LAB NO: 9612051-04
AEN WORK ORDER: 9612051
CLIENT PROJ. ID: 020200150030543

DATE SAMPLED: 12/03/96
DATE RECEIVED: 12/05/96
REPORT DATE: 12/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Trichloroethene	79-01-6	0.6 *	0.5	ug/L	12/11/96
Trichlorofluoromethane	75-69-4	ND	2	ug/L	12/11/96
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5	ug/L	12/11/96
Vinyl Chloride	75-01-4	ND	2	ug/L	12/11/96

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: 9612051-05
 AEN WORK ORDER: 9612051
 CLIENT PROJ. ID: 020200150030543

DATE SAMPLED: 12/03/96
 DATE RECEIVED: 12/05/96
 REPORT DATE: 12/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs	EPA 8020				
Benzene	71-43-2	11 *	0.5 ug/L		12/11/96
Toluene	108-88-3	ND	0.5 ug/L		12/11/96
Ethylbenzene	100-41-4	ND	0.5 ug/L		12/11/96
Xylenes, Total	1330-20-7	ND	2 ug/L	-	12/11/96
Purgeable HCs as Gasoline	5030/GCFID	0.27 *	0.05 mg/L		12/11/96
Methyl t-Butyl Ether	1634-04-4	15 *	5 ug/L		12/11/96
#Water Extrn for HCs		-	Extrn Date		12/10/96
Hydrocarbons (IR)	SM 5520F	ND	0.5 mg/L		12/11/96
Oil & Grease (IR)	SM 5520C	ND	0.5 mg/L		12/11/96
EPA 8010 - Water matrix	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5 ug/L		12/11/96
Bromoform	75-25-2	ND	0.5 ug/L		12/11/96
Bromomethane	74-83-9	ND	2 ug/L		12/11/96
Carbon Tetrachloride	56-23-5	ND	0.5 ug/L		12/11/96
Chlorobenzene	108-90-7	ND	0.5 ug/L		12/11/96
Chloroethane	75-00-3	ND	2 ug/L		12/11/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5 ug/L		12/11/96
Chloroform	67-66-3	ND	0.5 ug/L		12/11/96
Chloromethane	74-87-3	ND	2 ug/L		12/11/96
Dibromochloromethane	124-48-1	ND	0.5 ug/L		12/11/96
1,2-Dichlorobenzene	95-50-1	ND	0.5 ug/L		12/11/96
1,3-Dichlorobenzene	541-73-1	ND	0.5 ug/L		12/11/96
1,4-Dichlorobenzene	106-46-7	ND	0.5 ug/L		12/11/96
Dichlorodifluoromethane	75-71-8	ND	2 ug/L		12/11/96
1,1-Dichloroethane	75-34-3	ND	0.5 ug/L		12/11/96
1,2-Dichloroethane	107-06-2	0.9 *	0.5 ug/L		12/11/96
1,1-Dichloroethene	75-35-4	ND	0.5 ug/L		12/11/96
cis-1,2-Dichloroethene	156-59-2	ND	0.5 ug/L		12/11/96
trans-1,2-Dichloroethene	156-60-5	ND	0.5 ug/L		12/11/96
1,2-Dichloropropane	78-87-5	ND	0.5 ug/L		12/11/96
cis-1,3-Dichloropropene	10061-01-5	ND	0.5 ug/L		12/11/96
trans-1,3-Dichloropropene	10061-02-6	ND	0.5 ug/L		12/11/96
Methylene Chloride	75-09-2	ND	2 ug/L		12/11/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5 ug/L		12/11/96
Tetrachloroethene	127-18-4	ND	0.5 ug/L		12/11/96
1,1,1-Trichloroethane	71-55-6	ND	0.5 ug/L		12/11/96
1,1,2-Trichloroethane	79-00-5	ND	0.5 ug/L		12/11/96

FLUOR DANIEL GTI

SAMPLE ID: MW-4
AEN LAB NO: 9612051-05
AEN WORK ORDER: 9612051
CLIENT PROJ. ID: 020200150030543

DATE SAMPLED: 12/03/96
DATE RECEIVED: 12/05/96
REPORT DATE: 12/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
Trichloroethene	79-01-6	ND	0.5 ug/L		12/11/96
Trichlorofluoromethane	75-69-4	ND	2 ug/L		12/11/96
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5 ug/L		12/11/96
Vinyl Chloride	75-01-4	ND	2 ug/L		12/11/96

MTBE included in gasoline result. =

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: 9612051-06
 AEN WORK ORDER: 9612051
 CLIENT PROJ. ID: 020200150030543

DATE SAMPLED: 12/03/96
 DATE RECEIVED: 12/05/96
 REPORT DATE: 12/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs					
	EPA 8020				
Benzene	71-43-2	18 *	0.5 ug/L		12/11/96
Toluene	108-88-3	0.6 *	0.5 ug/L		12/11/96
Ethylbenzene	100-41-4	ND	0.5 ug/L		12/11/96
Xylenes, Total	1330-20-7	ND	2 ug/L		12/11/96
Purgeable HCs as Gasoline	5030/GCFID	0.17 *	0.05 mg/L		12/11/96
Methyl t-Butyl Ether	1634-04-4	6 *	5 ug/L		12/11/96
EPA 8010 - Water matrix					
	EPA 8010				
Bromodichloromethane	75-27-4	ND	0.5 ug/L		12/11/96
Bromoform	75-25-2	ND	0.5 ug/L		12/11/96
Bromomethane	74-83-9	ND	2 ug/L		12/11/96
Carbon Tetrachloride	56-23-5	ND	0.5 ug/L		12/11/96
Chlorobenzene	108-90-7	ND	0.5 ug/L		12/11/96
Chloroethane	75-00-3	ND	2 ug/L		12/11/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	0.5 ug/L		12/11/96
Chloroform	67-66-3	ND	0.5 ug/L		12/11/96
Chloromethane	74-87-3	ND	2 ug/L		12/11/96
Dibromochloromethane	124-48-1	ND	0.5 ug/L		12/11/96
1,2-Dichlorobenzene	95-50-1	ND	0.5 ug/L		12/11/96
1,3-Dichlorobenzene	541-73-1	ND	0.5 ug/L		12/11/96
1,4-Dichlorobenzene	106-46-7	ND	0.5 ug/L		12/11/96
Dichlorodifluoromethane	75-71-8	ND	2 ug/L		12/11/96
1,1-Dichloroethane	75-34-3	ND	0.5 ug/L		12/11/96
1,2-Dichloroethane	107-06-2	ND	0.5 ug/L		12/11/96
1,1-Dichloroethene	75-35-4	ND	0.5 ug/L		12/11/96
cis-1,2-Dichloroethene	156-59-2	ND	0.5 ug/L		12/11/96
trans-1,2-Dichloroethene	156-60-5	ND	0.5 ug/L		12/11/96
1,2-Dichloropropane	78-87-5	ND	0.5 ug/L		12/11/96
cis-1,3-Dichloropropene	10061-01-5	ND	0.5 ug/L		12/11/96
trans-1,3-Dichloropropene	10061-02-6	ND	0.5 ug/L		12/11/96
Methylene Chloride	75-09-2	ND	2 ug/L		12/11/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.5 ug/L		12/11/96
Tetrachloroethene	127-18-4	ND	0.5 ug/L		12/11/96
1,1,1-Trichloroethane	71-55-6	ND	0.5 ug/L		12/11/96
1,1,2-Trichloroethane	79-00-5	ND	0.5 ug/L		12/11/96
Trichloroethene	79-01-6	ND	0.5 ug/L		12/11/96
Trichlorofluoromethane	75-69-4	ND	2 ug/L		12/11/96
1,1,2Trichlorotrifluoroethane	76-13-1	ND	0.5 ug/L		12/11/96
Vinyl Chloride	75-01-4	ND	2 ug/L		12/11/96

FLUOR DANIEL GTI

SAMPLE ID: MW-5
AEN LAB NO: 9612051-06
AEN WORK ORDER: 9612051
CLIENT PROJ. ID: 020200150030543

DATE SAMPLED: 12/03/96
DATE RECEIVED: 12/05/96
REPORT DATE: 12/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
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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: 9612051-07
 AEN WORK ORDER: 9612051
 CLIENT PROJ. ID: 020200150030543

DATE SAMPLED: 12/03/96
 DATE RECEIVED: 12/05/96
 REPORT DATE: 12/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
BTEX & Gasoline HCs					
	EPA 8020				
Benzene	71-43-2	230 *	0.5 ug/L		12/11/96
Toluene	108-88-3	2.4 *	0.5 ug/L		12/11/96
Ethylbenzene	100-41-4	7.8 *	0.5 ug/L		12/11/96
Xylenes, Total	1330-20-7	7 *	2 ug/L	=	12/11/96
Purgeable HCs as Gasoline	5030/GCFID	1.1 *	0.05 mg/L		12/11/96
Methyl t-Butyl Ether	1634-04-4	40 *	5 ug/L		12/11/96
EPA 8010 - Water matrix					
	EPA 8010				
Bromodichloromethane	75-27-4	ND	5 ug/L		12/11/96
Bromoform	75-25-2	ND	5 ug/L		12/11/96
Bromomethane	74-83-9	ND	20 ug/L		12/11/96
Carbon Tetrachloride	56-23-5	ND	5 ug/L		12/11/96
Chlorobenzene	108-90-7	ND	5 ug/L		12/11/96
Chloroethane	75-00-3	ND	20 ug/L		12/11/96
2-Chloroethyl Vinyl Ether	110-75-8	ND	5 ug/L		12/11/96
Chloroform	67-66-3	ND	5 ug/L		12/11/96
Chloromethane	74-87-3	ND	20 ug/L		12/11/96
Dibromochloromethane	124-48-1	ND	5 ug/L		12/11/96
1,2-Dichlorobenzene	95-50-1	ND	5 ug/L		12/11/96
1,3-Dichlorobenzene	541-73-1	ND	5 ug/L		12/11/96
1,4-Dichlorobenzene	106-46-7	ND	5 ug/L		12/11/96
Dichlorodifluoromethane	75-71-8	ND	20 ug/L		12/11/96
1,1-Dichloroethane	75-34-3	ND	5 ug/L		12/11/96
1,2-Dichloroethane	107-06-2	86 *	5 ug/L		12/11/96
1,1-Dichloroethene	75-35-4	ND	5 ug/L		12/11/96
cis-1,2-Dichloroethene	156-59-2	7 *	5 ug/L		12/11/96
trans-1,2-Dichloroethene	156-60-5	ND	5 ug/L		12/11/96
1,2-Dichloropropane	78-87-5	ND	5 ug/L		12/11/96
cis-1,3-Dichloropropene	10061-01-5	ND	5 ug/L		12/11/96
trans-1,3-Dichloropropene	10061-02-6	ND	5 ug/L		12/11/96
Methylene Chloride	75-09-2	ND	20 ug/L		12/11/96
1,1,2,2-Tetrachloroethane	79-34-5	ND	5 ug/L		12/11/96
Tetrachloroethene	127-18-4	ND	5 ug/L		12/11/96
1,1,1-Trichloroethane	71-55-6	ND	5 ug/L		12/11/96
1,1,2-Trichloroethane	79-00-5	ND	5 ug/L		12/11/96
Trichloroethene	79-01-6	20 *	5 ug/L		12/11/96
Trichlorofluoromethane	75-69-4	ND	20 ug/L		12/11/96
1,1,2-Trichlorotrifluoroethane	76-13-1	ND	5 ug/L		12/11/96
Vinyl Chloride	75-01-4	ND	20 ug/L		12/11/96

FLUOR DANIEL GTI

SAMPLE ID: MW-2
AEN LAB NO: 9612051-07
AEN WORK ORDER: 9612051
CLIENT PROJ. ID: 020200150030543

DATE SAMPLED: 12/03/96
DATE RECEIVED: 12/05/96
REPORT DATE: 12/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
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RLs elevated for EPA 8010 due to high levels of non-target compounds. Sample run dilute.
MTBE included in gasoline result.

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

FLUOR DANIEL GTI

SAMPLE ID: DUP
 AEN LAB NO: 9612051-08
 AEN WORK ORDER: 9612051
 CLIENT PROJ. ID: 020200150030543

DATE SAMPLED: 12/03/96
 DATE RECEIVED: 12/05/96
 REPORT DATE: 12/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8020 for BTEX	EPA 8020				
Benzene	71-43-2	16 *	0.5	ug/L	12/11/96
Toluene	108-88-3	ND	0.5	ug/L	12/11/96
Ethylbenzene	100-41-4	ND	0.5	ug/L	12/11/96
Xylenes, Total	1330-20-7	ND	2	ug/L =	12/11/96
Methyl t-Butyl Ether	1634-04-4	12 *	5	ug/L	12/11/96

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

FLUOR DANIEL GTI

SAMPLE ID: TBLB
AEN LAB NO: 9612051-09
AEN WORK ORDER: 9612051
CLIENT PROJ. ID: 020200150030543

DATE SAMPLED: 12/03/96
DATE RECEIVED: 12/05/96
REPORT DATE: 12/21/96

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
EPA 8020 for BTEX	EPA 8020				
Benzene	71-43-2	ND	0.5 ug/L		12/11/96
Toluene	108-88-3	ND	0.5 ug/L		12/11/96
Ethylbenzene	100-41-4	ND	0.5 ug/L		12/11/96
Xylenes, Total	1330-20-7	ND	2 ug/L	*	12/11/96
Methyl t-Butyl Ether	1634-04-4	ND	5 ug/L		12/11/96

ND = Not detected at or above the reporting limit

* = Value at or above reporting limit

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9612051

CLIENT PROJECT ID: 020200150030543

Quality Control and Project 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: SM 5520

AEN JOB NO: 9612051
DATE EXTRACTED: 12/10/96
DATE ANALYZED: 12/11/96
SAMPLE SPIKED: LCS
INSTRUMENT: IR
MATRIX: WATER

Laboratory Control Sample

Analyte	Spike Added (mg/L)	Percent Recovery	QC Limits =
			Percent Recovery
Oil	6.91	90	73-112

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

QUALITY CONTROL DATA

METHOD: EPA 8010

AEN JOB NO: 9612051
 INSTRUMENT: G, I
 MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery	
			Bromochloro-methane	1-Bromo-3-chloro-propane
12/16/96	MW-1	01	92	93
12/11/96	MW-3	02	106	107
12/11/96	MW-7	03	104	106
12/11/96	MW-6	04	109	98
12/11/96	MW-4	05	95	93
12/11/96	MW-5	06	91	98
12/11/96	MW-2	07	90	94
QC Limits:			70-130	70-130

DATE ANALYZED: 12/10/96
 SAMPLE SPIKED: 9612017-04
 INSTRUMENT: G

Matrix Spike Recovery Summary

Analyte	Spike Added (ug/L)	Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
1,1-Dichloroethene	50	78	6	37-156	20
Trichloroethene	50	91	2	54-122	20
Chlorobenzene	50	92	7	54-141	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: 9612051
 INSTRUMENT: H
 MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery	
			Fluorobenzene	
12/11/96	MW-1	01	99	
12/11/96	MW-3	02	98	
12/13/96	MW-7	03	111	
12/16/96	MW-6	04	98	
12/11/96	MW-4	05	98	
12/11/96	MW-5	06	90	
12/11/96	MW-2	07	97	
12/11/96	DUP	08	91	
12/11/96	TBLB	09	103	
QC Limits:			70-130	

DATE ANALYZED: 12/10/96
 SAMPLE SPIKED: LCS
 INSTRUMENT: H

Laboratory Control Sample Recovery

Analyte	Spike Added (ug/L)	Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
Benzene	26.0	101	3	60-120	20
Toluene	83.1	116	10	60-120	20
Hydrocarbons as Gasoline	500	94	<1	60-120	20

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

*** END OF REPORT ***

Reporting information:

1. Client: FLOR DANIEL GUTI
 Address: 757 ARVON DR SUITE D
MORTINEZ, CA. 94553
 Contact: BRIDGET BAXTER
 Alt. Contact: MIKE WRAY

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

AEN

RISC

REQUEST FOR ANALYSIS / CHAIN OF CUSTODY

9612051

Lab Job Number: _____
 Lab Destination: _____
 Date Samples Shipped: _____
 Lab Contact: _____
 Date Results Required: _____
 Date Report Required: _____
 Client Phone No.: _____
 Client FAX No.: _____

Address Report To:
 2. #1

Send Invoice To:
 3. #1

Send Report To: (1) or 2 (Circle one)

Client P.O. No.: _____ Client Project I.D. No.: 02021050.030543

Sample Team Member (s) HECTOR MERMIC

Lab Number	Client Sample Identification	Air Volume	Date/Time Collected	Sample Type*	Pres.	No. of Cont.	Type of Cont.	ANALYSIS					Comments / Hazards	
								CHLORIDE	BTEX	TDALC	PIEN	OTHER		
01A-6	MW-1		13:00/12	7	Helonone	7	40ml	X	X					
02A-6	MW-3		13:10	7	Helonone	7	40ml	X	X					
03A-6	MW-1		13:14	7	Helonone	7	40ml	X	X					
04A-1	MW-6		13:18	7	Helonone H2SO4	9	40ml	X	X	X				0.6 ml added NOT
05A-1	MW-4		13:22	7	Helonone H2SO4	9	40ml	X	X	X				1.0 ml added - run
06A-6	MW-5		13:26	3	Helonone	7	40ml	X	X					55% ROCK per history
07A-6	MW-2		13:31	7	Helonone	7	40ml	X	X					
07AB	DUP		13:33	7	Hel	2	40ml			X				
07A	TR.LB		— / 96	7	Hel	1	40ml			X				

Relinquished by: (Signature) <u>[Signature]</u>	DATE <u>12-5-96</u> TIME <u>9:03 AM</u>	Received by: (Signature) <u>[Signature]</u>	DATE <u>12-5-96</u> TIME <u>9:03 AM</u>
Relinquished by: (Signature) <u>[Signature]</u>	DATE <u>12-5-96</u> TIME <u>9:17 AM</u>	Received by: (Signature) <u>[Signature]</u>	DATE <u>12-5-96</u> TIME <u>6:17</u>
Relinquished by: (Signature) _____	DATE _____ TIME _____	Received by: (Signature) _____	DATE _____ TIME _____
Method of Shipment _____		Lab Comments _____	

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