

File No. 12-99-702-SI

**FOURTH QUARTER GROUNDWATER  
MONITORING AND SAMPLING  
FOR THE PROPERTY  
LOCATED AT 15595 WASHINGTON AVENUE  
SAN LORENZO, CALIFORNIA  
DECEMBER 27, 2001**

**PREPARED FOR:  
MR. MEHDI MOHAMMADIAN  
CAL GAS  
15595 WASHINGTON AVENUE  
SAN LORENZO, CALIFORNIA 94580**

**BY:  
ENVIRO SOIL TECH CONSULTANTS  
131 TULLY ROAD  
SAN JOSE, CALIFORNIA 95111**

**ENVIRO SOIL TECH CONSULTANTS**

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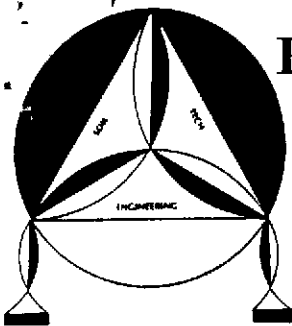
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December 27, 2001

File No. 12-99-702-SI

**Mr. Mehdi Mohammadian**

Cal Gas

15595 Washington Avenue

San Lorenzo, California 94580

**SUBJECT: FOURTH QUARTER GROUNDWATER  
MONITORING AND SAMPLING  
FOR THE PROPERTY**

Located at 15595 Washington Avenue, in  
San Lorenzo, California

Dear Mr. Mohammadian:

This report presents the results of fourth quarter groundwater monitoring and sampling conducted by Enviro Soil Tech Consultants (ESTC), on December 6, 2001, at the subject site (Figure 1).

The five monitoring wells (MW-1 through MW-5) located on-site were monitored for presence of floating products and/or distinctive odor, and groundwater were collected from these wells for laboratory analyses.

This quarterly groundwater monitoring and sampling of the on-site monitoring wells was conducted in accordance with the request and authorization of Mr. Mehdi Mohammadian and at the request of Mr. Scott O. Seery with Alameda County Health Care Services Agency-Environmental Health Services (ACHCSA-EHS) in letter dated May 19, 1999.

If you have any questions or require additional information, please feel free to contact our office at (408) 297-1500.

Sincerely,

*ENVIRO SOIL TECH CONSULTANTS*

  
FRANK HAMEDI-FARD  
GENERAL MANAGER

  
LAWRENCE KOO, P. E.  
C. E. #34928

**PURPOSE:**

The purpose of quarterly groundwater monitoring and sampling investigation was to define the direction of groundwater flow and the extent of hydrocarbons contamination in the groundwater at the site.

**SITE DESCRIPTION:**

The site is located on the northwest corner of Washington Avenue and Via Enrico Street, in San Lorenzo, California (Figure 1), and is currently being used as a service station. The site contained one single story building, underground storage tanks located at the center portion of the property and south of the pump islands. The subject property is located in an area of commercial and residential development.

**BACKGROUND:**

From 1974 to 1983, the site was owned by Callaris who had operated the gasoline service station.

From 1983 to 1986, Texaco owned the site, and during this time, the site was not in operation. Texaco removed the existing USTs in 1986, and subsurface contamination was detected in the fuel tank excavation.

In 1986, the site was purchased by Bertram Kubo, who installed three new 10,000 gallon fuel tanks at a new location and reopened as a retail service station.

In 1990, the property was sold to the current owner, Mr. Mehdi Mohammadian, who operates the site as Shell retail service station.



In 1986, soil and groundwater investigation was conducted at the site by Groundwater Technology (GWT) by installing three on-site monitoring wells (MW-1 to MW-3). Hydrocarbon impact to shallow groundwater was detected in these wells. The detail of GWT's subsurface investigation is described in a report dated October 1986.

In July 1998, an additional subsurface investigation was conducted by Toxichem Management Systems, Inc. (TMS), by installing two additional on-site wells (MW-4 and MW-5). TMS's findings showed presence of petroleum hydrocarbons in all wells. The details of this additional assessment is described in their report dated October 16, 1998. Quarterly monitoring of the five on-site wells has been conducted since August 1998. TPHg, BTEX and MTBE were detected in all the monitoring wells.

Per the request and authorization of Mr. Mehdi Mohammadian and under the directive of Mr. Scott O. Seery with ACHCSA-EHS in letters dated May 9, 1999; November 8, 1999 and November 10, 1999, ESTC submitted a proposed work plan for assessment of off-site gasoline plume using of so-called "rapid assessment" tools such as Geoprobe. The details of this work plan is described in ESTC's report entitled "Proposed Work Plan for Preliminary Off-Site Soil & Groundwater Assessment for the Property...", dated February 11, 2000.

On April 18, 2000, ESTC conducted soil and groundwater assessment off-site gasoline plume. Based on the off-site investigation, upto date, ESTC have been conducting quarterly monitoring and sampling of groundwater from the on-site monitoring wells.

**SCOPE OF PRESENT WORK:**

The scope of present work are as follow:

- Monitor wells MW-1 to MW-5 for presence of any sheen and/or odor and measure the depth-to-water table.
- Purge the monitoring wells prior to sampling.
- Sample monitoring wells MW-1 to MW-5.
- Submit water samples to a state-certified laboratory for chemical analyses of Total Petroleum Hydrocarbons as gasoline (TPHg) and hydrocarbons fuel oxygenates compounds per EPA Method 8260B.
- Review results and prepare a report of the investigation.

**FIELD ACTIVITIES:**

The five on-site monitoring wells (MW-1 to MW-5) were monitored for floating products and/or distinctive odor, and the water samples were collected for laboratory analyses (Figure 2).

***GROUNDWATER MONITORING:***

On December 6, 2001, ESTC's staff monitored five monitoring wells (MW-1 to MW-5) for groundwater depth and presence of sheen and/or odor. No sheen or odor were detected in monitoring wells MW-1 through MW-4 during field inspection. Rainbow

sheen and light petroleum odor were detected in monitoring well MW-5. The shallow groundwater table depths ranged from 7.28 feet (well MW-2) to 9.48 feet (well MW-5) below ground surface. Table 1 summarizes the depth to groundwater measurements and the field observations made.

#### *GROUNDWATER SAMPLING:*

Following the monitoring of the groundwater, in order to assure the samples were representative of surrounding groundwater, approximately four to five well volumes of water was purged from each well using a bailer before the sample was collected. A stainless steel bailer was used for sample collection. Water sampling equipment was decontaminated before and after each well sampling using Tri-sodium Phosphate (TSP) and water wash, followed by double rinsing. Groundwater samples were collected in 40 milliliter glass vials sealed with Teflon-lined screw caps, labeled and placed in a cold ice chest. Groundwater samples were submitted to Entech Analytical Labs, a state-certified laboratory, with proper chain-of-custody for analyses. The sampling was conducted in accordance with ESTC's Standard Operation Procedures (Appendix "D") and ACHCSA-EHS guidelines.

#### **GROUNDWATER FLOW:**

Water elevation data were used to determine groundwater flow direction. Table 1 summarizes the groundwater elevations. The groundwater flow direction beneath the site was in a westerly direction as of December 6, 2001 (Figure 2).

**RECOMMENDATION:**

ESTC recommends the continuation of quarterly monitoring and sampling of the five on-site wells. A copy of this report will be forward to Alameda County Health Care Services Agency-Environmental Health Services (ACHCSA-EHS) and Regional Water Quality Control Board (RWQCB).

**LIMITATIONS:**

This report and the associated work have been provided in accordance with the general principles and practices currently employed in the environmental consulting profession. The contents of this report reflect the conditions of the site at this particular time. The findings of this report are based on:

- 1) The observations of field personnel.
- 2) The results of laboratory analyses performed by a state-certified laboratory.

It is possible that variations in the soil and groundwater could exist beyond the points explored in this investigation. Also, changes in groundwater conditions of a property can occur with the passage of time due to variations in rainfall, temperature, regional water usage and other natural processes or the works of man on this property or adjacent property.

The services that ESTC provided have been in accordance with generally accepted environmental professional practices for the nature and conditions of work completed in the same or similar localities at the time the work was performed. The contents of this report reflect the conditions of the subject site at this particular time. No other warranties, expressed or implied as to the professional advice provided are made.

**A P P E N D I X "A"**

**ENVIRO SOIL TECH CONSULTANTS**

**TABLE 1**  
**GROUNDWATER MONITORING DATA (feet)**  
**AND ANALYTICAL RESULTS (µg/L)**

Date	Well No./ Elevation	Depth of Well	Depth of Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE
8/08/86	MW-1 (N/A)	15	10	N/A	N/A	N/A	N/A	ND<500	ND<500	NA	82	NA
11/12/92				11.37	N/A	N/A	720	3	0.5	1	1	NA
3/24/94	22.93 (feet MSL)			8.71	14.22	Odor	1300	110	ND<0.5	19	ND<0.5	NA
12/15/95				8.49	14.44	No sheen Weakly petroleum odor	350	18	2.9	3.5	2.8	NA
8/26/98	22.96 Resurveyed			9.30	13.66	N/A	ND <500	17	ND<5	ND<5	ND<5	340000
1/26/99				7.96	15.00	N/A	ND <50000	ND<500	ND<500	ND<500	ND<500	269000
4/06/99				8.01	14.95	N/A	3500	296	ND<10	43	18.6	117000
5/24/00	23.05 Resurveyed			8.24	14.81	No sheen or odor	33000	ND <5000	ND <5000	ND <5000	ND <5000	74000
8/24/00				9.43	13.62	No sheen or odor	11000	ND <2000	ND <2000	ND <2000	ND <2000	32000
11/22/00				9.28	13.77	Light rainbow sheen No odor	24000	ND <2500	ND <2500	ND <2500	ND <2500	35000
2/22/01				7.86	15.19	No sheen or odor	19000	ND <5000	ND <5000	ND <5000	ND <5000	51000
5/29/01				8.96	14.09	No sheen or odor	30000	ND <5000	ND <5000	ND <5000	ND <5000	110000
8/22/01				9.66	13.39	No sheen or odor	46000	ND <2500	ND <2500	ND <2500	ND <2500	70000
12/06/01				8.36	14.69	No sheen or odor	25000	ND <2500	ND <2500	ND <2500	ND <2500	37000

**TABLE 1 CONT'D**  
**GROUNDWATER MONITORING DATA (feet)**  
**AND ANALYTICAL RESULTS (µg/L)**

Date	Well No./ Elevation	Depth of Well	Depth of Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE
8/08/96	MW-2 (N/A)	15	10	N/A	N/A	N/A	NA	ND<50	ND<50	NA	ND<50	NA
11/12/92		15	10	10.55	N/A	N/A	ND<10	ND<0.3	ND<0.3	ND<0.3	ND<0.5	NA
3/24/94	22.09 (feet MSL)			7.87	14.22	N/A	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	N/A
12/15/95				4.62	17.47	No sheen or odor	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA
2/28/98	22.07 Resurveyed			8.40	13.67	N/A	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	210000
1/26/99				7.29	14.78	N/A	ND <2000	ND<20	ND<20	ND<20	ND<20	9450
4/06/99				7.28	14.79	N/A	ND <1000	ND<10	ND<10	ND<10	ND<10	209000
5/24/00	21.94 Resurveyed			7.22	14.72	No sheen or odor	46000	ND <12500	ND <12500	ND <12500	ND <12500	180000
8/24/00				8.39	13.55	No sheen or odor	21000	ND <2500	ND <2500	ND <2500	ND <2500	70000
11/22/00				8.24	13.70	No sheen or odor	29000	ND <2500	ND <2500	ND <2500	ND <2500	43000
2/22/01				6.52	15.42	No sheen or odor	20000	ND <5000	ND <5000	ND <5000	ND <5000	61000
5/29/01				7.90	14.04	No sheen or odor	9100	ND <1000	ND <1000	ND <1000	ND <1000	24000
8/22/01				8.62	13.32	No sheen or odor	8700	ND<500	ND<500	ND<500	ND<500	12000
12/06/01				7.28	14.66	No sheen or odor	11000	ND <1250	ND <1250	ND <1250	ND <1250	22000
8/08/86	MW-3 (N/A)	16	10	N/A	N/A	N/A	NA	ND<50	ND<50	NA	ND<50	NA

**TABLE 1 CONT'D**  
**GROUNDWATER MONITORING DATA (feet)**  
**AND ANALYTICAL RESULTS (µg/L)**

Date	Well No./ Elevation	Depth of Well	Depth of Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE
11/12/92	MW-3 (N/A)	16	10	11.32	N/A	N/A	69	ND<0.3	ND<0.3	ND<0.3	ND<0.3	NA
3/24/94	22.73 (feet MSL)			8.69	14.04	N/A	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA
12/15/95				8.31	14.42	No sheen or odor	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA
8/26/98	22.74 Resurveyed			9.29	13.45	N/A	ND <500	36	ND<5	ND<5	ND<5	99000
12/16/99				8.00	14.74	N/A	ND <500	ND<50	ND<50	ND<50	ND<50	19800
4/06/99				8.00	14.74	N/A	ND <1000	ND<10	ND<10	ND<10	ND<10	151000
5/24/00	22.56 Resurveyed			8.08	14.47	No sheen or odor	48000	ND <12500	ND <12500	ND <12500	ND <12500	200000
8/24/00				9.24	13.32	No sheen or odor	52000	ND <5000	ND <5000	ND <5000	ND <5000	170000
11/22/00				9.08	13.48	No sheen or odor	69000	ND <10000	ND <10000	ND <10000	ND <10000	160000
2/22/01				7.58	14.98	No sheen or odor	30000	ND <5000	ND <5000	ND <5000	ND <5000	130000
5/29/01				8.76	13.80	No sheen or odor	29000	ND <2500	ND <2500	ND <2500	ND <2500	78000
8/22/01				9.46	13.10	No sheen or odor	37000	ND <5000	ND <5000	ND <5000	ND <5000	98000
12/06/01				8.06	14.50	No sheen or odor	33000	ND <5000	ND <5000	ND <5000	ND <5000	94000



**TABLE 1 CONT'D**  
**GROUNDWATER MONITORING DATA (feet)**  
**AND ANALYTICAL RESULTS (µg/L)**

Date	Well No./ Elevation	Depth of Well	Depth of Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE
8/26/98	MW-4 (23.51) feet MSL	19	N/A	9.87	13.64	N/A	170	2	0.74	1.3	1	150
1/26/99				8.54	14.97	N/A	140	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.6
4/06/99				8.34	15.17	N/A	390	3.94	ND<0.5	1.52	0.808	15.2
5/24/00	23.40 Resurveyed			8.72	14.68	No sheen or odor	210	ND<5	ND<5	ND<5	ND<5	40
8/24/00				9.88	13.52	No Sheen or odor	160	ND<5	7.4	ND<5	ND<5	44
11/22/00				9.76	13.64	No sheen or odor	140	ND<5	ND<5	ND<5	ND<5	25
2/22/01				8.42	14.98	No sheen or odor	160	ND<5	ND<5	ND<5	ND<5	32
5/29/01				9.42	13.98	No sheen or odor	160	ND<5	ND<5	ND<5	ND<5	31
8/22/01				10.10	13.30	No sheen or odor	96	ND<5	ND<5	ND<5	ND<5	28
12/06/01				8.68	14.72	No sheen or odor	160	ND<5	ND<5	ND<5	ND<5	25
8/26/98	MW-5 (23.85) feet MSL	19	N/A	10.51	13.34	N/A	6600	240	ND<50	380	84	ND<250
1/26/99				10.26	13.59	N/A	371	11.7	ND<0.5	3.22	ND<0.5	36.4
4/06/99				9.32	14.53	N/A	7680	266	ND<10	280	ND<10	ND<10
5/24/00	23.86 Resurveyed			9.39	14.47	Rainbow sheen No odor	3300	180	ND<25	140	ND<25	200
8/24/00				10.54	13.32	Light rainbow sheen No odor	3200	150	ND<10	91	ND<10	300
11/22/00				10.42	13.44	No sheen Light sewerage odor	520	120	ND<25	46	ND<25	510
2/22/01				8.88	14.98	No sheen or odor	5400	100	ND<50	94	ND<50	700

**TABLE 1 CONT'D  
GROUNDWATER MONITORING DATA (feet)  
AND ANALYTICAL RESULTS (µg/L)**

Date	Well No./ Elevation	Depth of Well	Depth of Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	B	T	E	X	MTBE
5/29/01	MW-5 (23.86) feet MSL	19	N/A	10.08	13.78	Rainbow sheen No odor	3700	83	ND<50	58	ND<50	860
8/22/01				10.76	13.10	Light rainbow sheen No odor	5900	150	ND<10	ND<10	ND<10	1700
12/06/01				9.48	14.38	Rainbow sheen Light petroleum odor	4900	ND<50	ND<50	ND<50	ND<50	1900

**TPHg** - Total Petroleum Hydrocarbons as gasoline  
**MTBE** - Methyl Tertiary Butyl Ether  
**MSL** - Mean Sea Level  
**N/A** - Not Applicable  
**ND** - Not Detected (Below Laboratory Detection Limit)

**BTEX** - Benzene, Toluene, Ethylbenzene, Total Xylenes  
**Perf.** - Perforation  
**GW Elev.** - Groundwater Elevation  
**NA** - Not Analyzed

**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS FOR**  
**HYDROCARBONS FUEL OXYGENATES (EPA 8260B)**

Date	Well No.	Hydrocarbons Fuel Oxygenates	Concentration ( $\mu\text{g/L}$ )
5/24/00	MW-1	Methyl tert-butyl Ether	74000
8/24/00		Methyl tert-butyl Ether	32000
11/22/00		Methyl tert-butyl Ether	35000
2/22/01		Methyl tert-butyl Ether	51000
5/29/01		Methyl tert-butyl Ether	110000
8/22/01		Methyl tert-butyl Ether tert-Butanol	70000 11000
12/06/01		Methyl tert-butyl Ether	37000
5/24/00	MW-2	Methyl tert-butyl Ether	180000
8/24/00		Methyl tert-butyl Ether	70000
11/22/00		Methyl tert-butyl Ether	43000
2/22/01		Methyl tert-butyl Ether	61000
5/29/01		Methyl tert-butyl Ether	24000
8/22/01		Methyl tert-butyl Ether	12000
12/06/01		Methyl tert-butyl Ether	22000
5/24/00	MW-3	Methyl tert-butyl Ether	200000
8/24/00		Methyl tert-butyl Ether	170000
11/22/00		Methyl tert-butyl Ether	160000
2/22/01		Methyl tert-butyl Ether	130000
5/29/01		Methyl tert-butyl Ether	78000
8/22/01		Methyl tert-butyl Ether	98000
12/06/01		Methyl tert-butyl Ether	94000
5/24/00	MW-4	Methyl tert-butyl Ether	40
8/24/00		Methyl tert-butyl Ether Toluene	44 7.4
11/22/00		Methyl tert-butyl Ether	25
2/22/01		Methyl tert-butyl Ether	32
5/29/01		Methyl tert-butyl Ether	31

**TABLE 2 CONT'D**  
**GROUNDWATER ANALYTICAL RESULTS FOR**  
**HYDROCARBONS FUEL OXYGENATES (EPA 8260B)**

Date	Well No.	Hydrocarbons Fuel Oxygenates	Concentration (µg/L)
8/22/01	MW-4	Methyl tert-butyl Ether	28
12/06/01		Methyl tert-butyl Ether	25
5/24/00	MW-5	Benzene	180
		Ethylbenzene	140
		Isopropylbenzene	55
		Methyl tert-butyl Ether	200
		n-Butylbenzene	42
		n-Propylbenzene	200
		Naphthalene	120
8/24/00		1,2,4-Trimethylbenzene	15
		Benzene	150
		Ethylbenzene	91
		Isopropylbenzene	38
		Methyl tert-butyl Ether	300
		n-Butylbenzene	29
		n-Propylbenzene	140
		Naphthalene	87
		p-Isopropyltoluene	28
		sec-Butylbenzene	12
11/22/00		Benzene	120
		Ethylbenzene	46
		Isopropylbenzene	31
		Methyl tert-butyl Ether	510
		n-Propylbenzene	100
		Naphthalene	37
2/22/01		Benzene	100
		Ethylbenzene	94
		Methyl tert-butyl Ether	700
		n-Propylbenzene	160
		Naphthalene	90

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**TABLE 2 CONT'D  
GROUNDWATER ANALYTICAL RESULTS FOR  
HYDROCARBONS FUEL OXYGENATES (EPA 8260B)**

<b>Date</b>	<b>Well No.</b>	<b>Hydrocarbons Fuel Oxygenates</b>	<b>Concentration (µg/L)</b>
5/29/01	MW-5	Benzene	83
		Ethylbenzene	58
		Methyl tert-butyl Ether	860
		n-Propylbenzene	130
		Naphthalene	64
8/22/01		Benzene	150
		Methyl tert-butyl Ether	1700
		n-Propylbenzene	230
		Naphthalene	140
12/06/01		Methyl tert-butyl Ether	1900

**A P P E N D I X "B"**

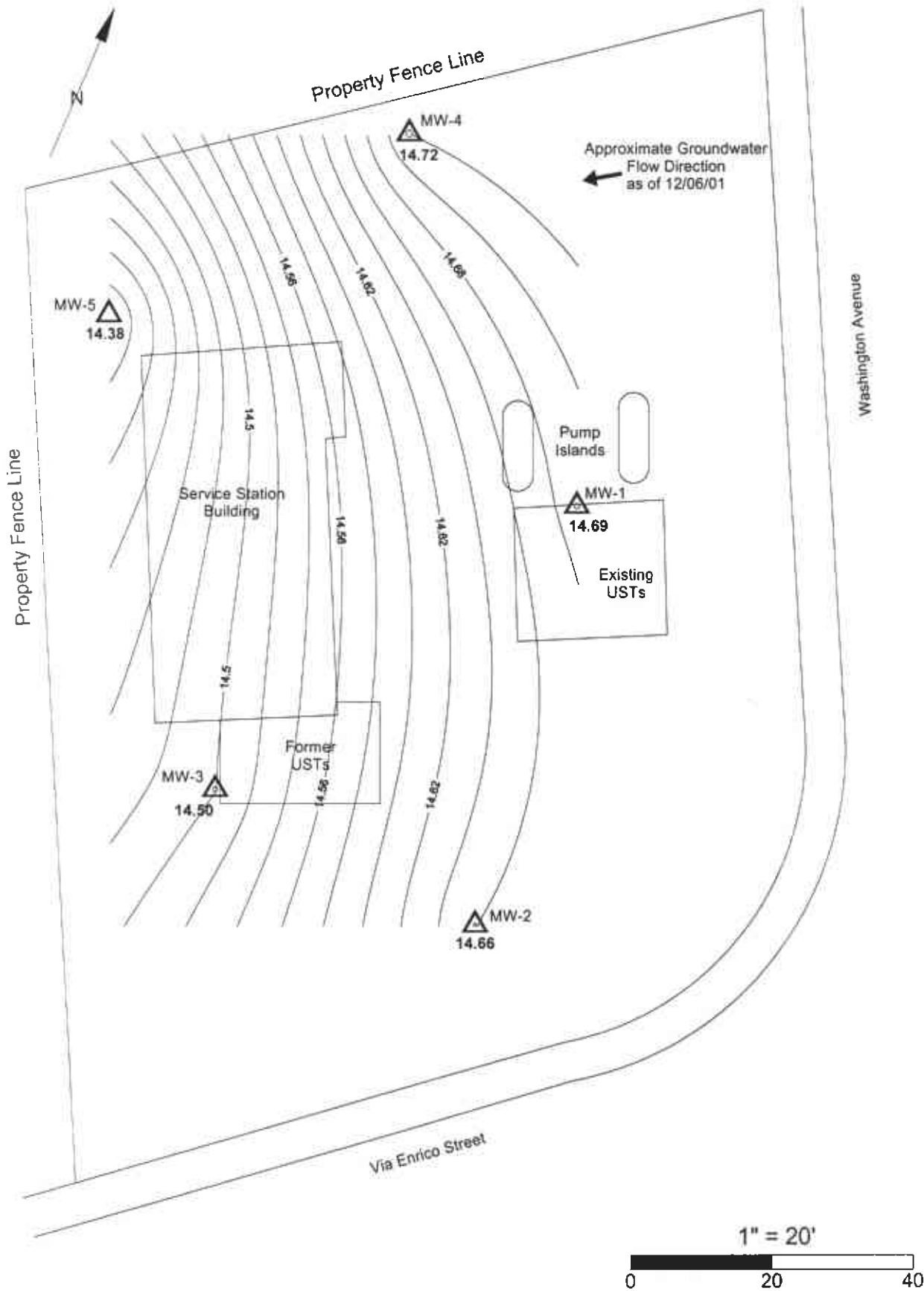
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San Jose/Oakland [CA]  
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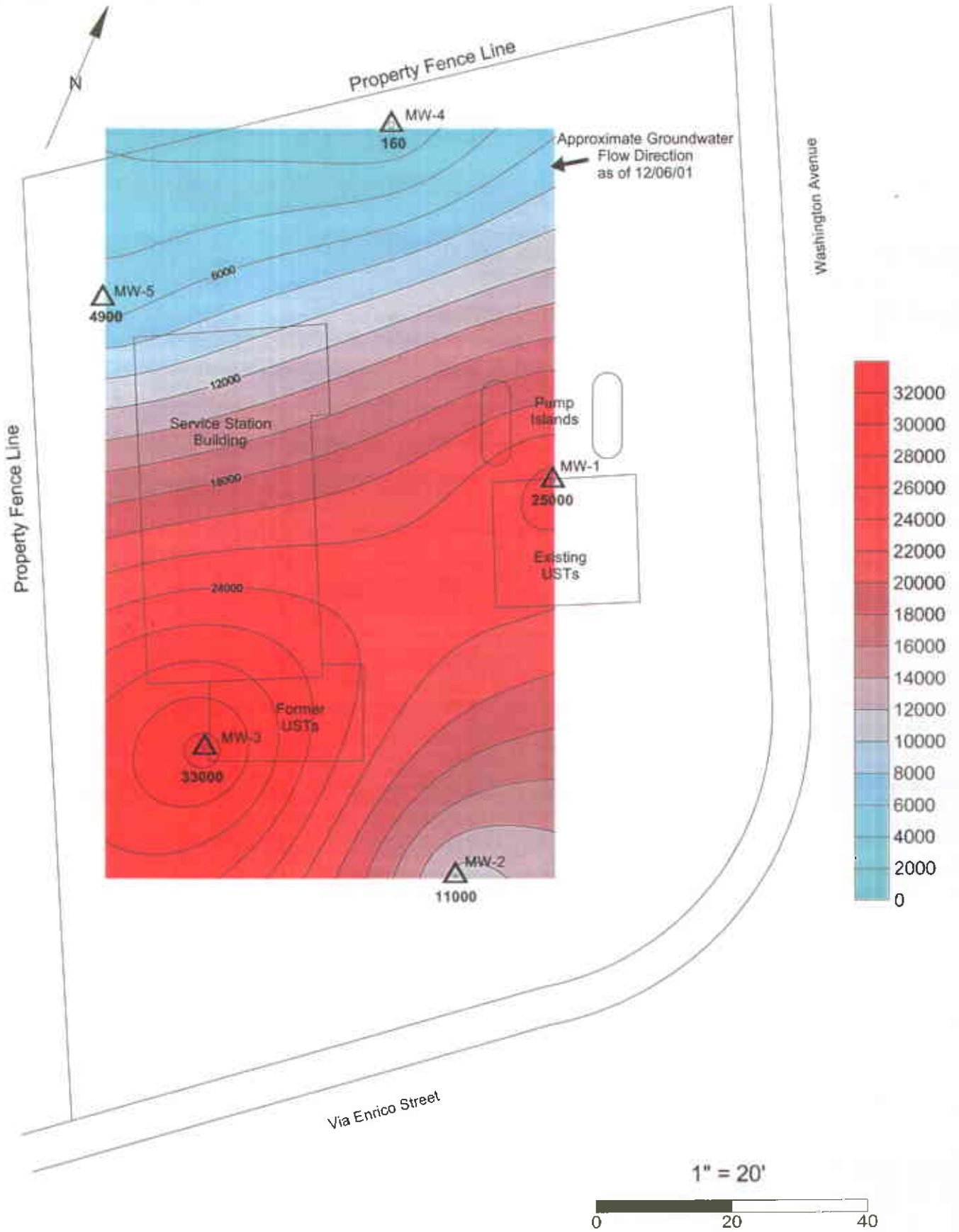
Figure 1



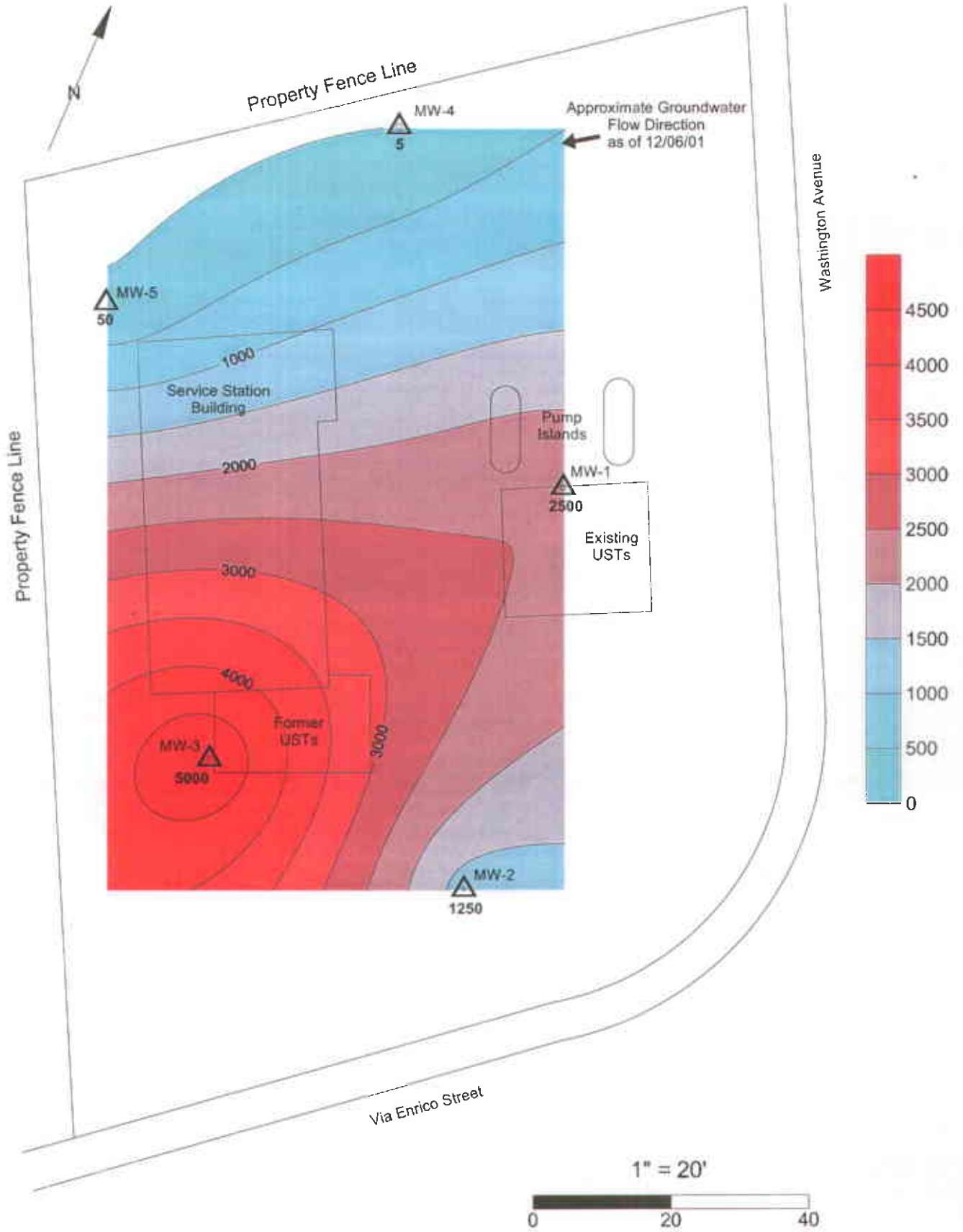
Groundwater elevation contour map.

Figure 2





TPHg concentration contour map in groundwater.

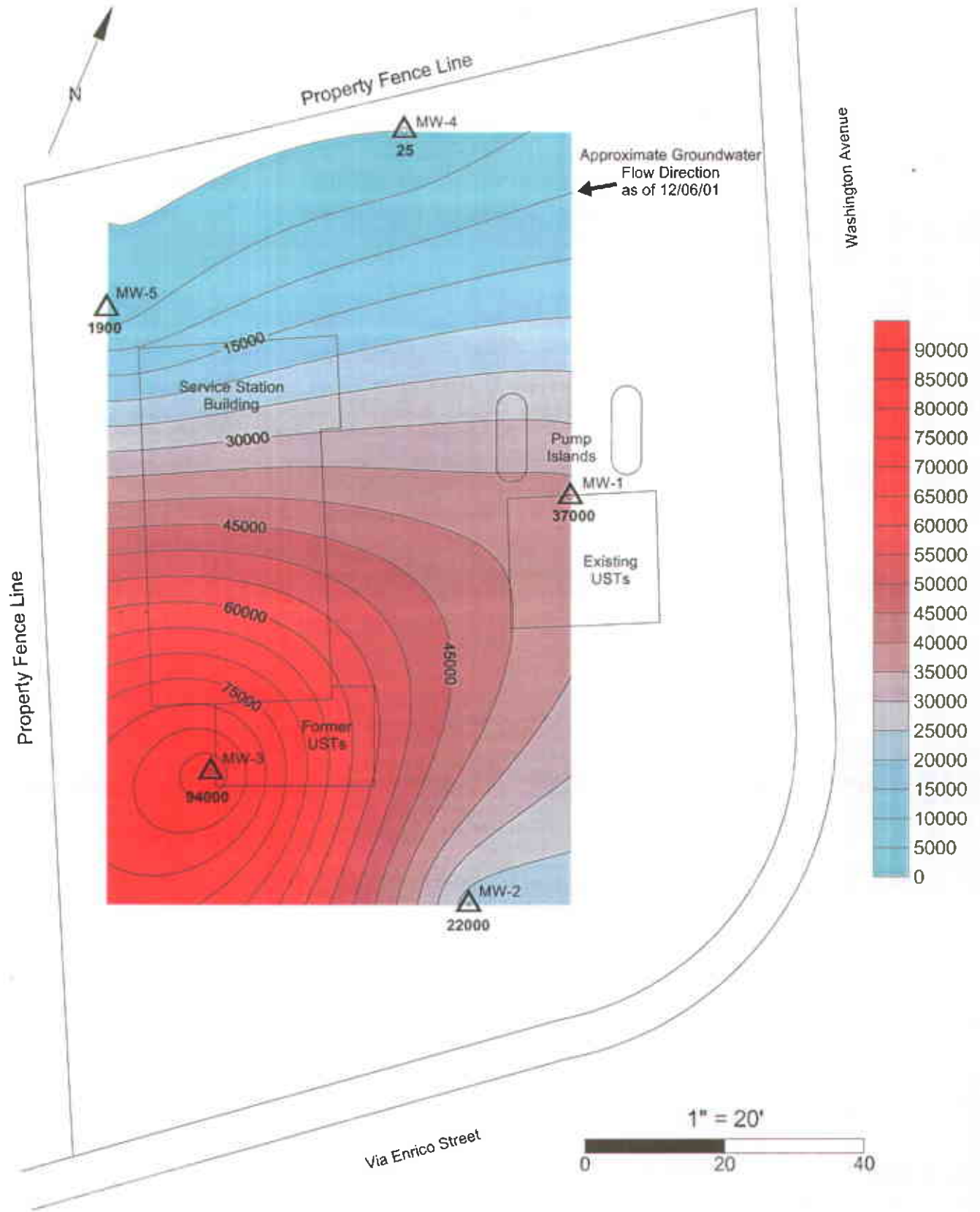


Benzene concentration contour map in groundwater.

Figure 4

ENVIRO SOIL TECH CONSULTANTS

12/27/01



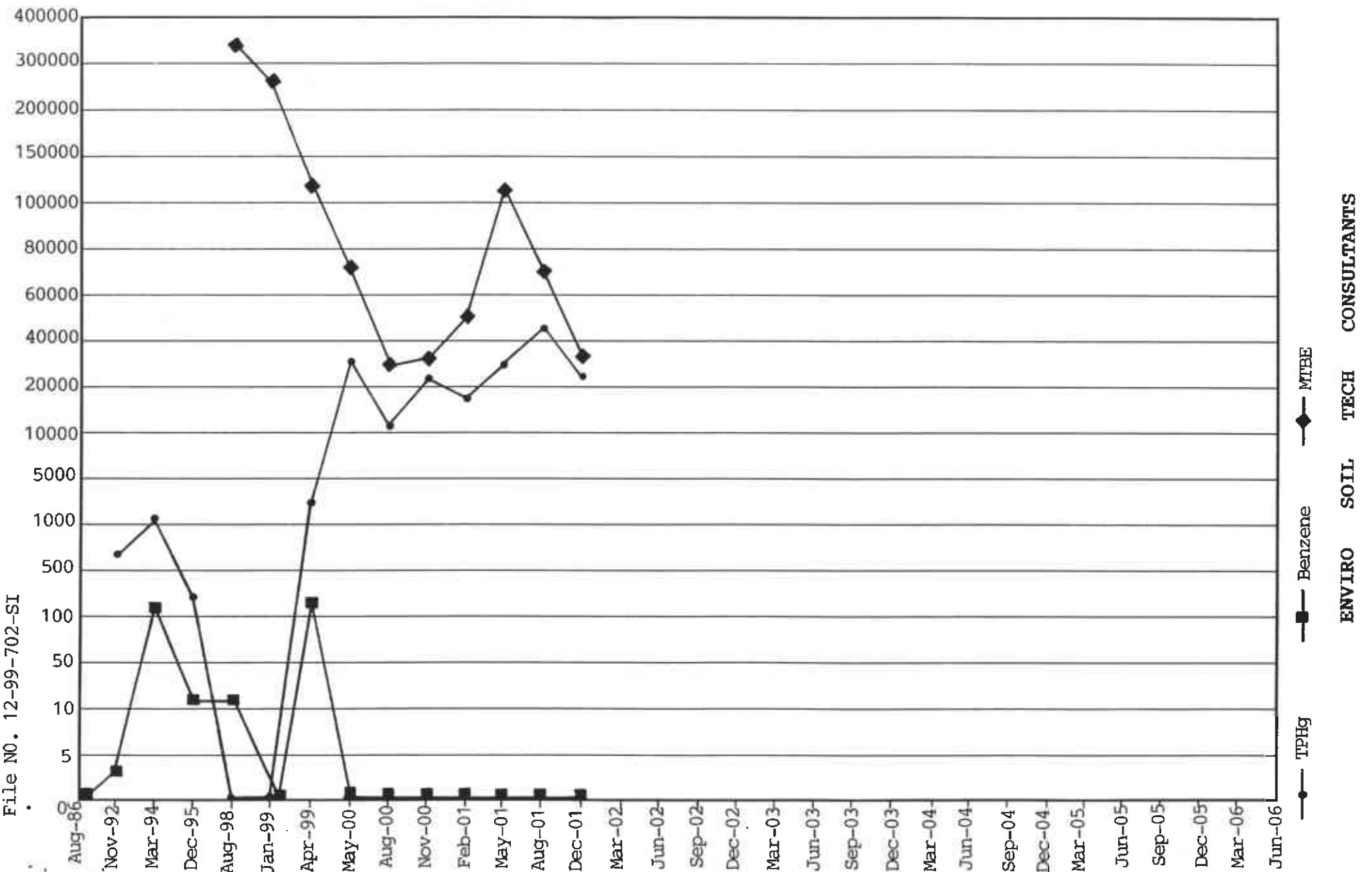
MTBE concentration contour map in groundwater.

File No. 12-99-702-SI

**A P P E N D I X "C"**

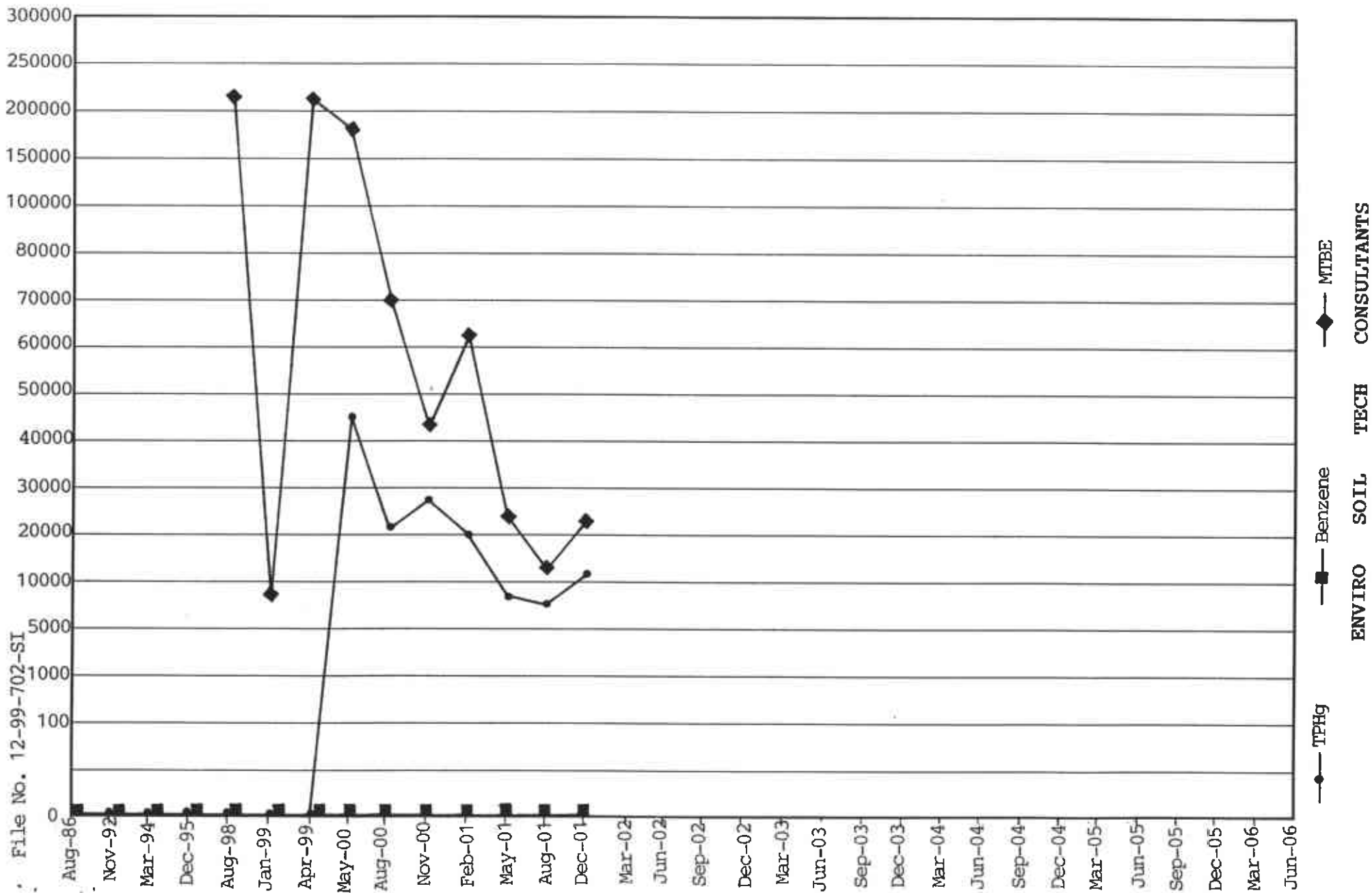
**ENVIRO SOIL TECH CONSULTANTS**

TPHg, BENZENE & MTBE RESULTS FOR MW-1  
IN MICROGRAM PER LITER (µg/L)



ENVIRO SOIL TECH CONSULTANTS

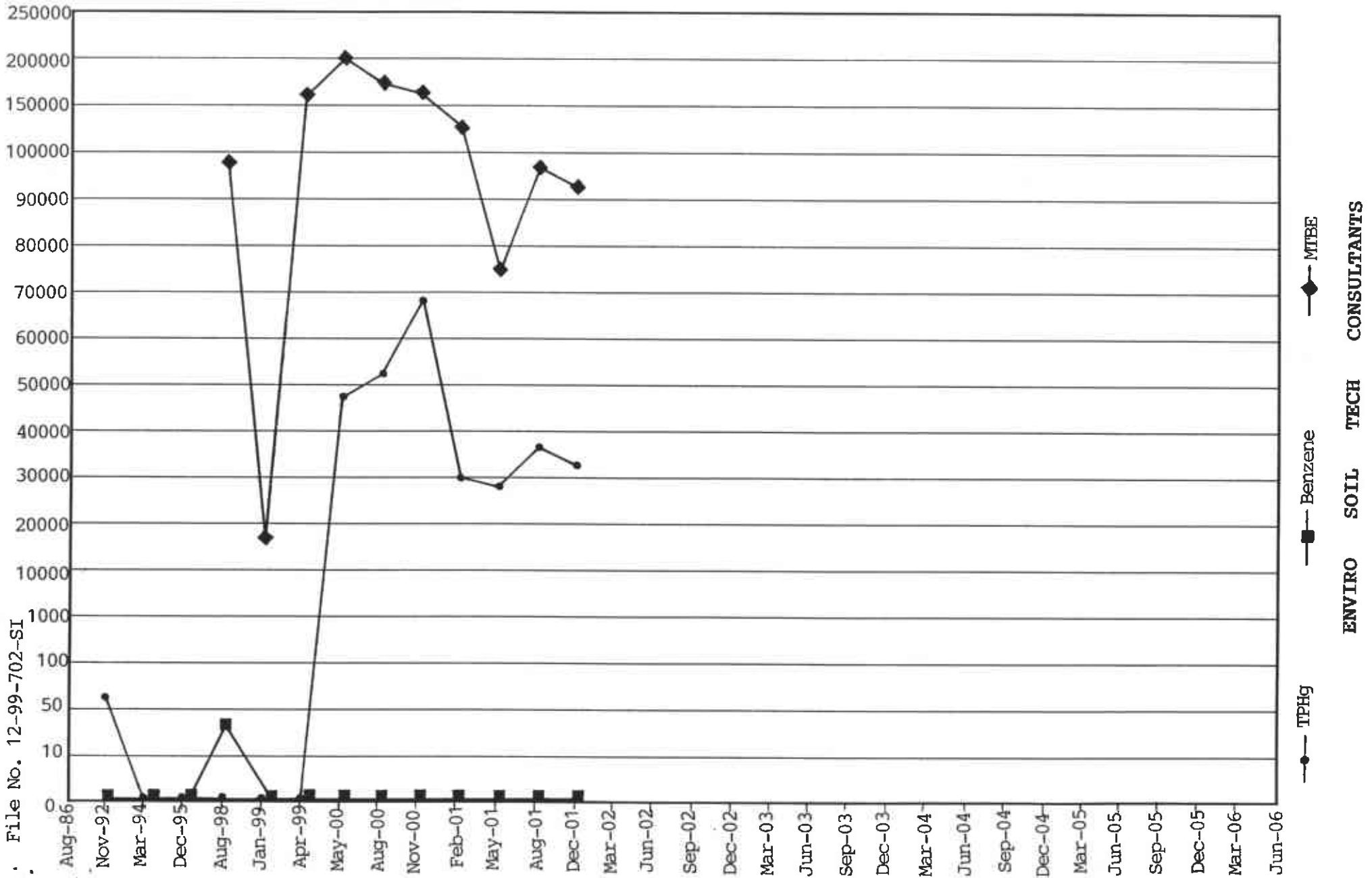
TPHg, BENZENE & MTBE RESULTS FOR MW-2  
IN MICROGRAM PER LITER (µg/L)



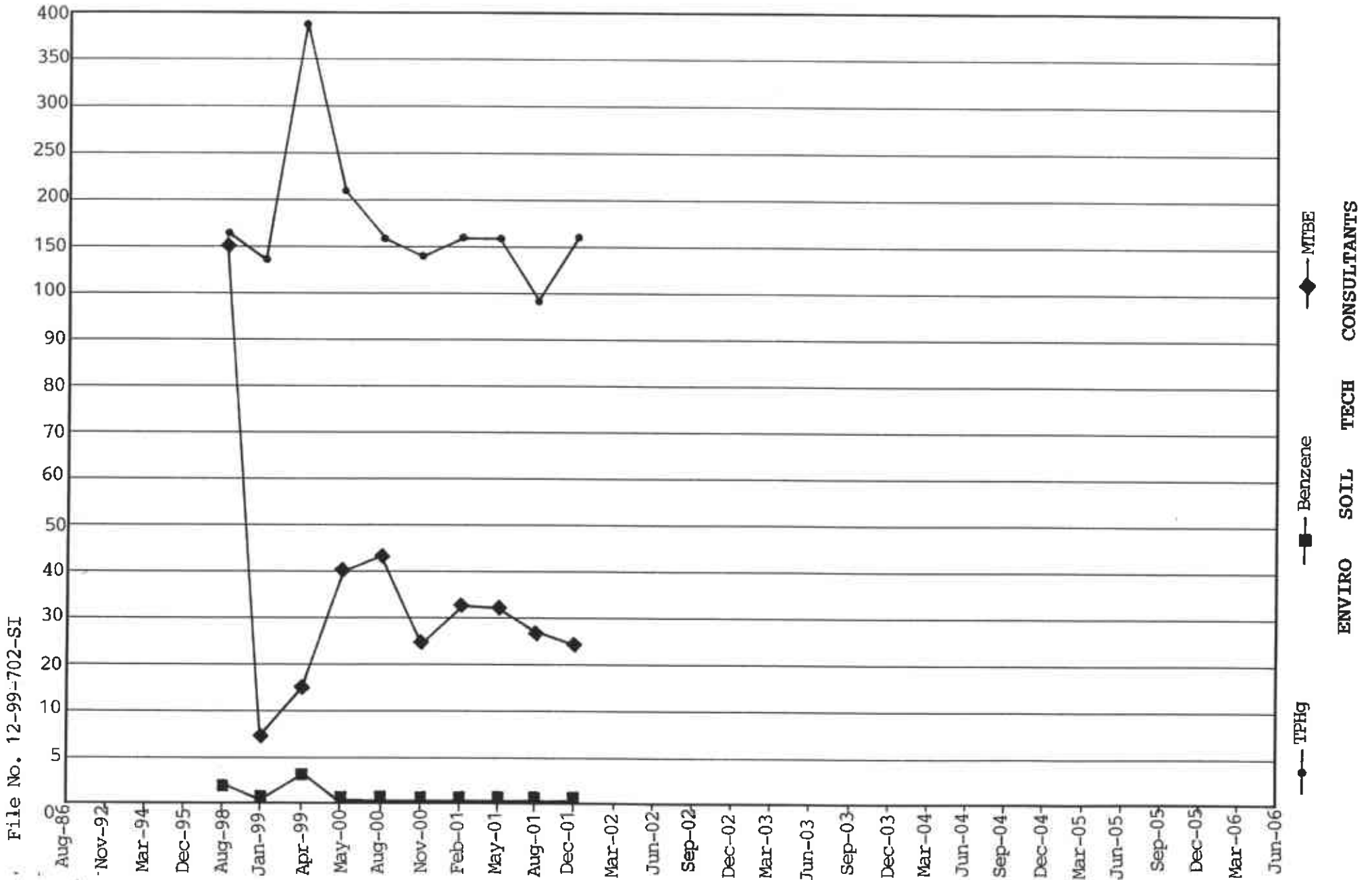
File No. 12-99-702-SI

ENVIRO SOIL TECH CONSULTANTS

TPHg, BENZENE & MTBE RESULTS FOR MW-3  
IN MICROGRAM PER LITER (µg/L)

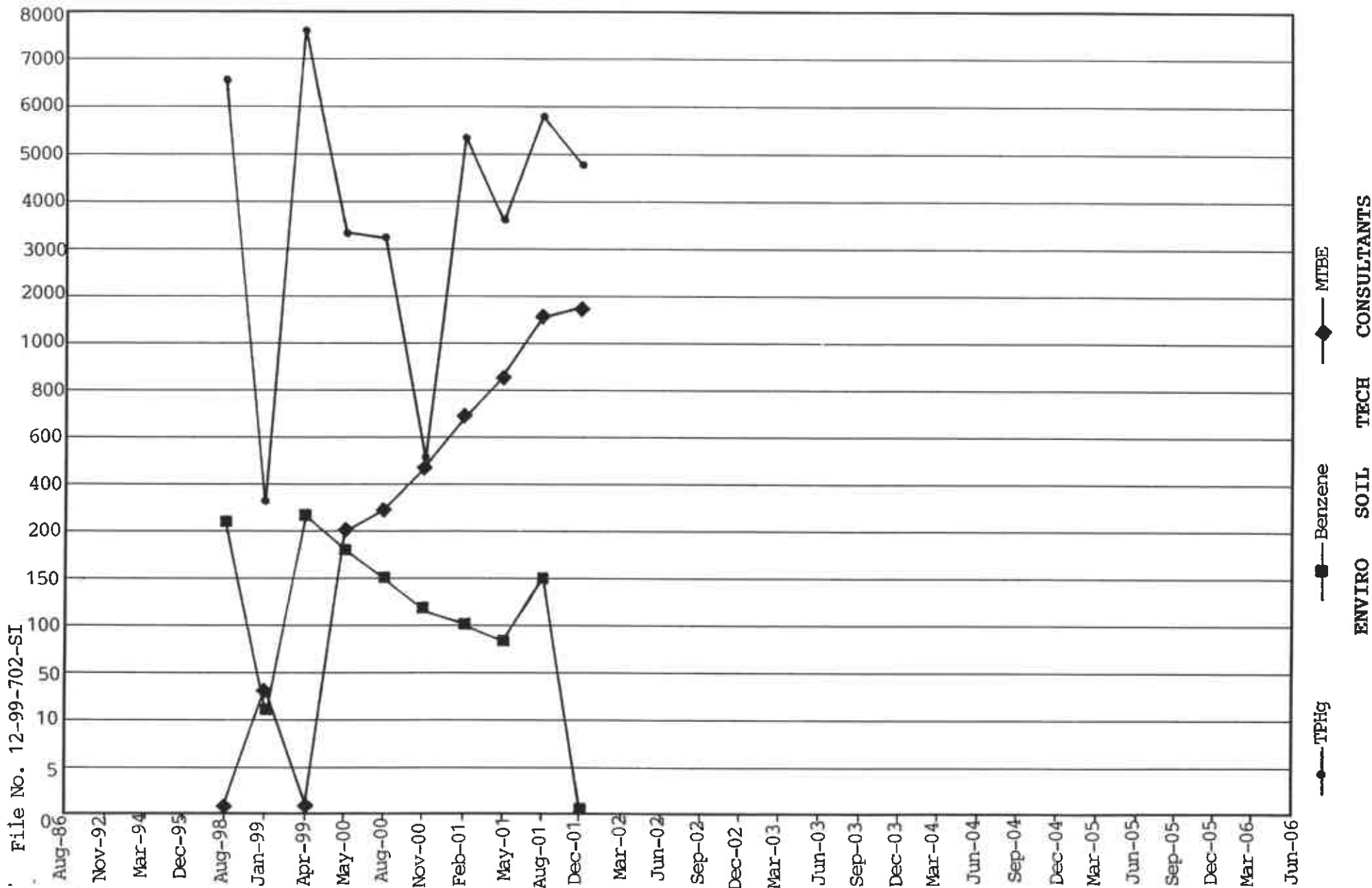


TPHg, BENZENE & MTBE RESULTS FOR MW-4  
 IN MICROGRAM PER LITER (µg/L)

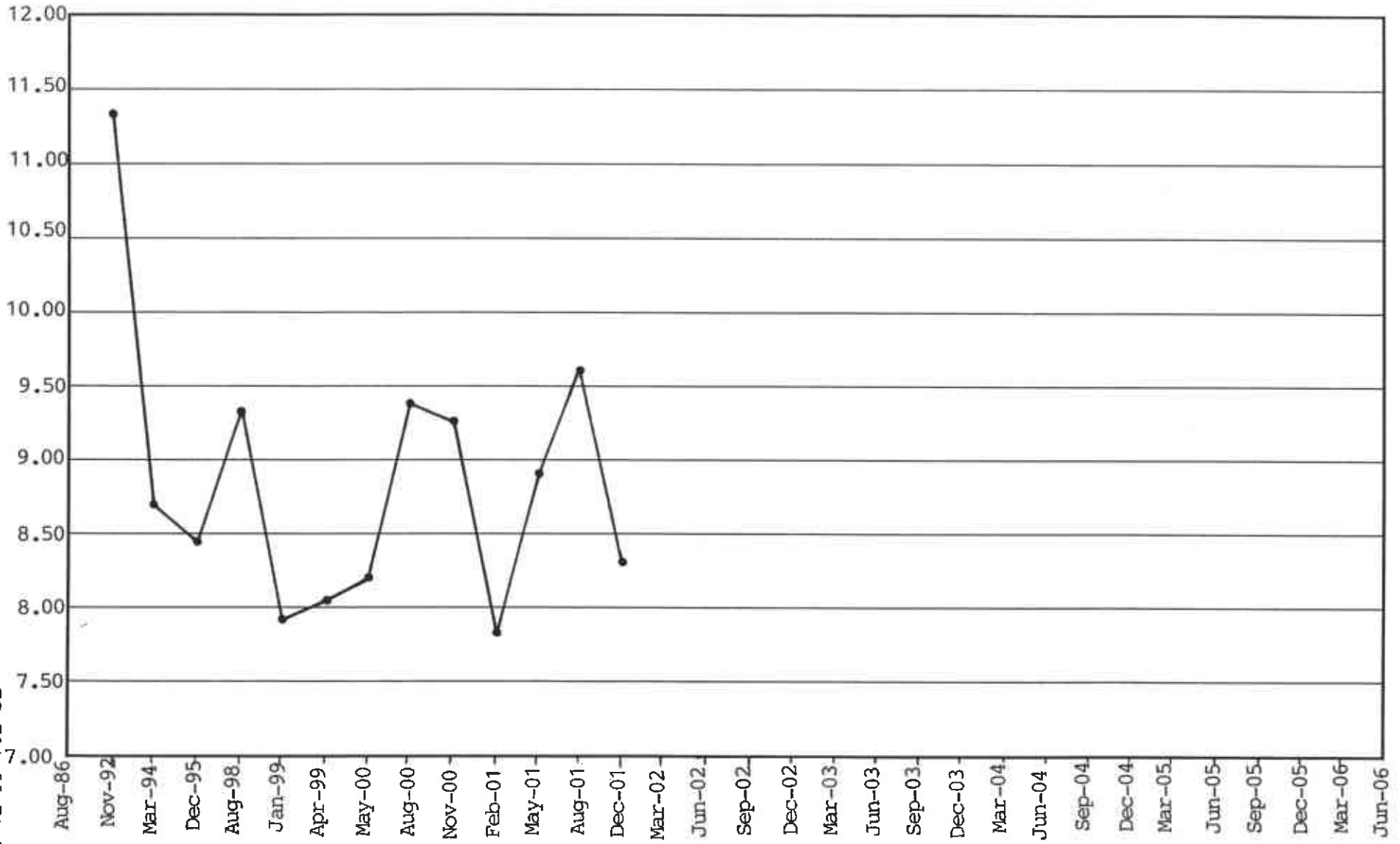




TPHg, BENZENE & MTBE RESULTS FOR MW-5  
IN MICROGRAM PER LITER (µg/L)



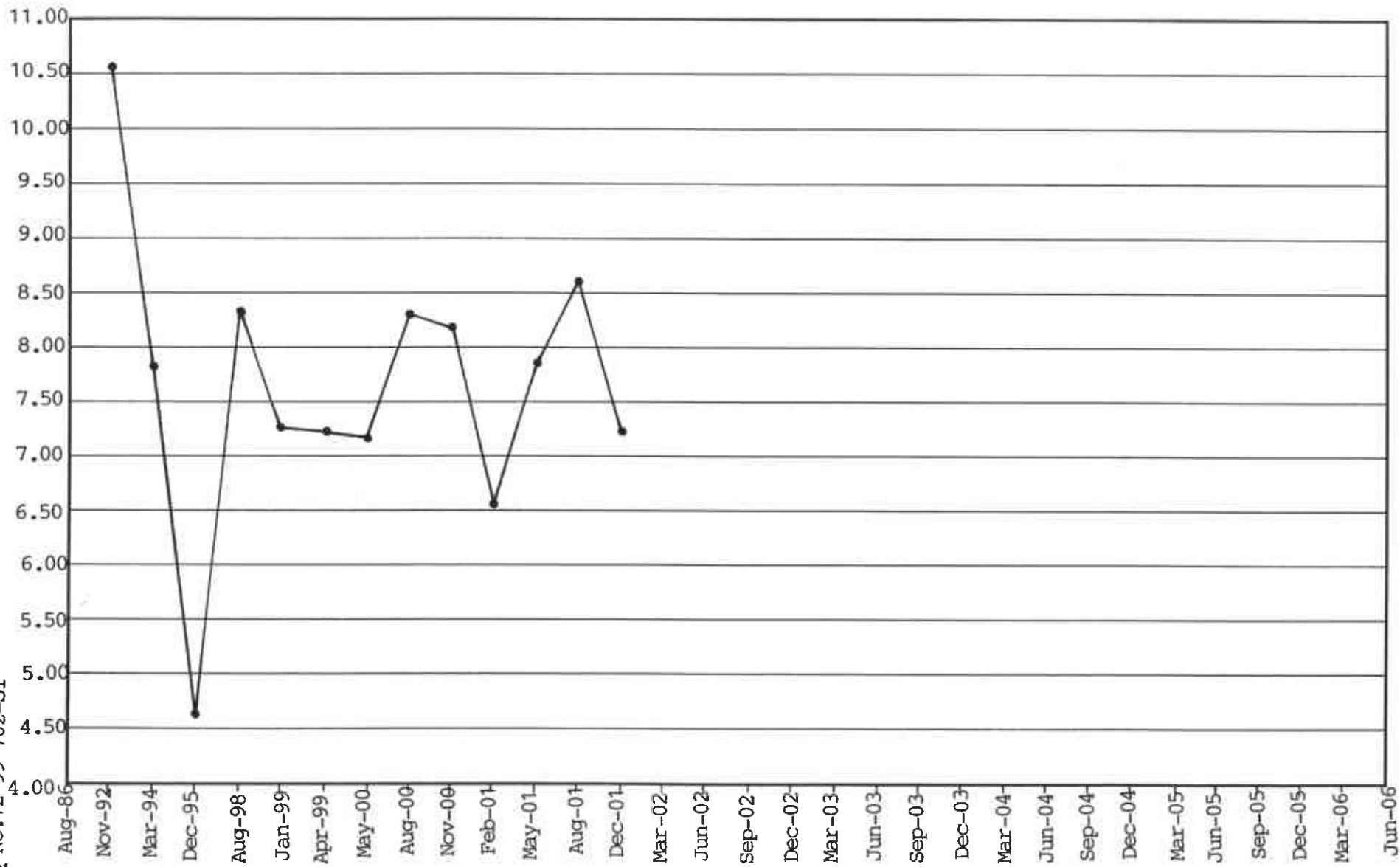
# DEPTH TO WATER MEASUREMENT FOR MW-1 IN FEET



File No. 12-99-702-SI

ENVIRO SOIL TECH CONSULTANTS

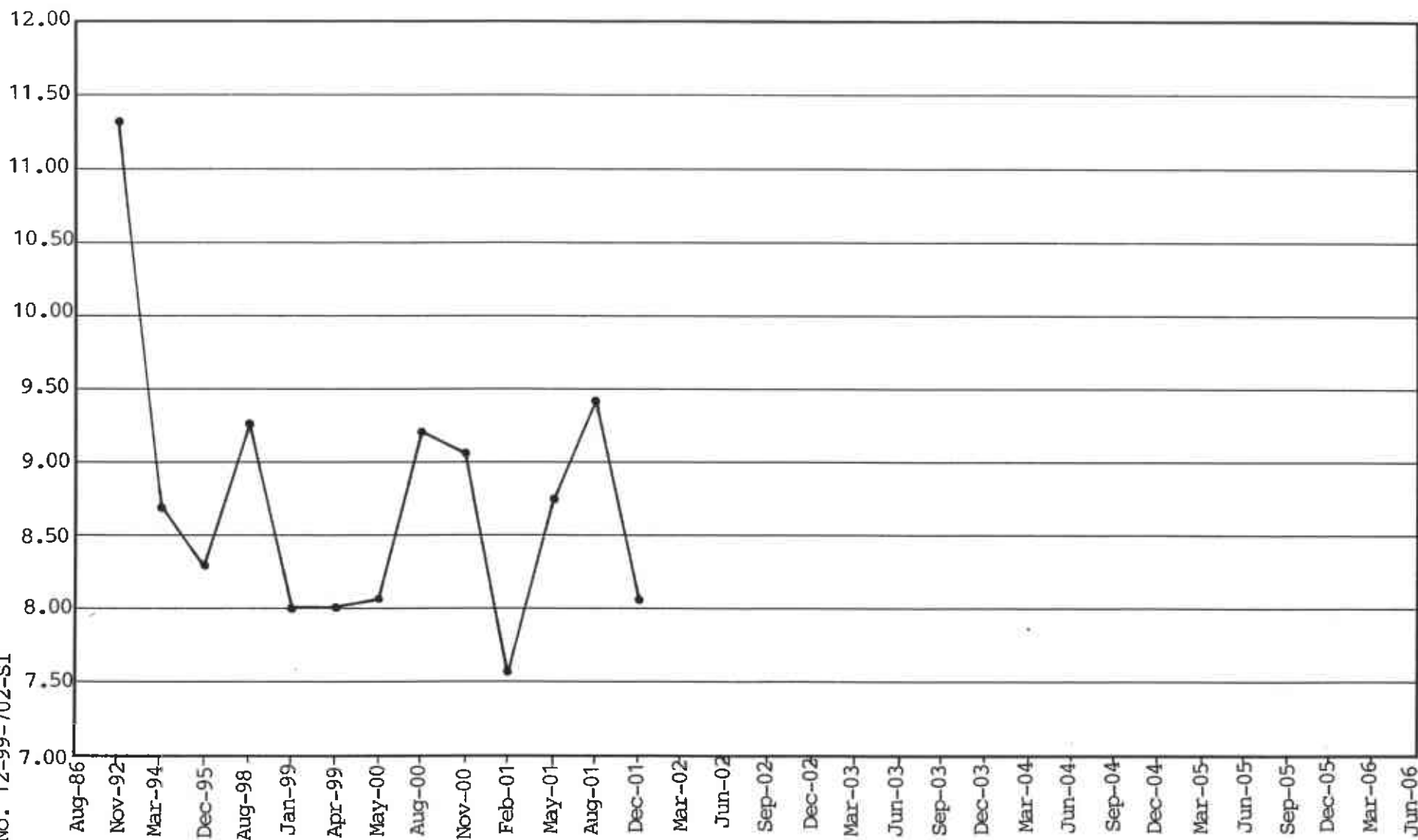
DEPTH TO WATER MEASUREMENT  
FOR MW-2 IN FEET



File No.12-99-702-SI

ENVIRO SOIL TECH CONSULTANTS

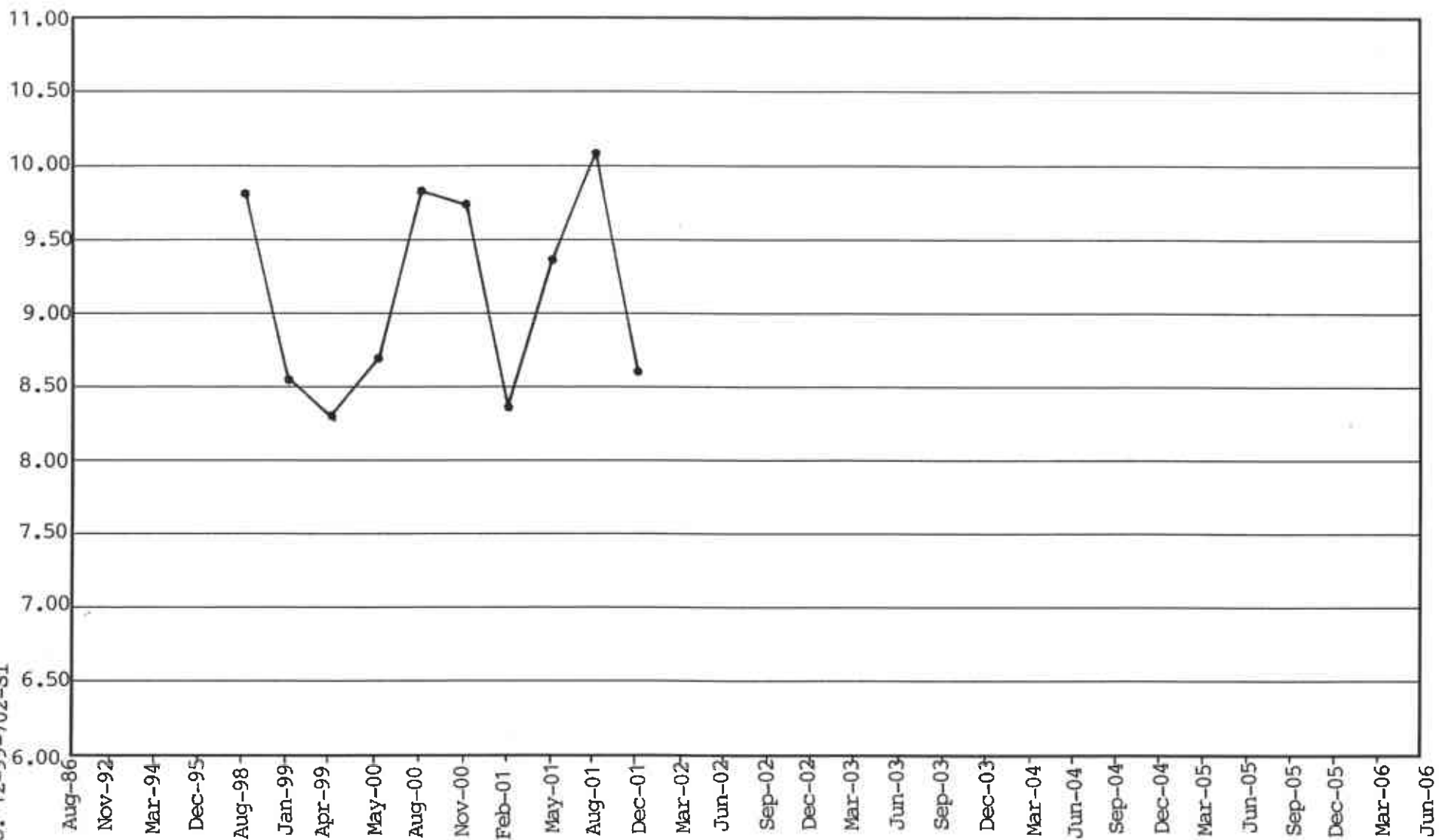
# DEPTH TO WATER MEASUREMENT FOR MW-3 IN FEET



File No. 12-99-702-SI

ENVIRO SOIL TECH CONSULTANTS

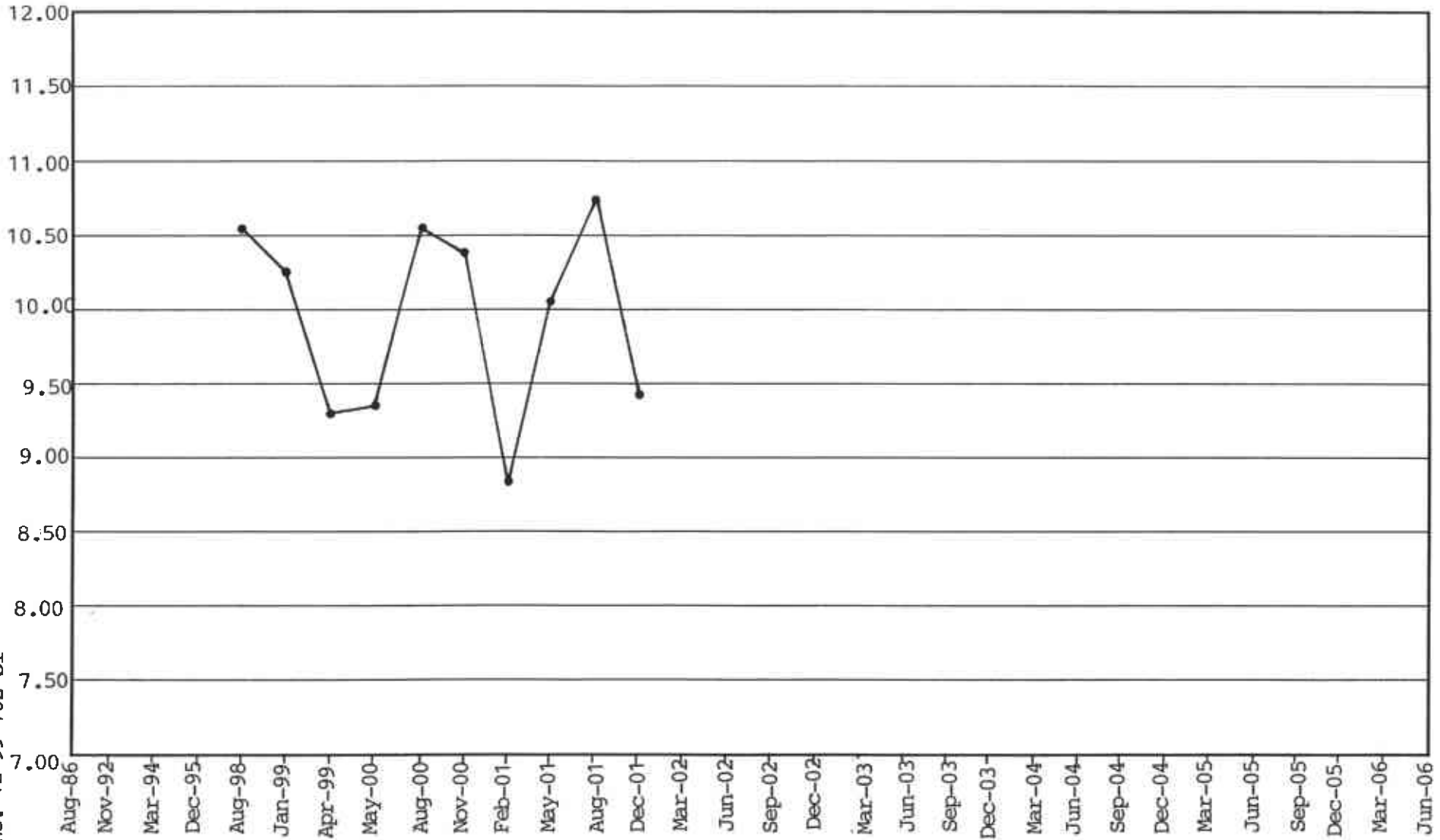
### DEPTH TO WATER MEASUREMENT FOR MW-4 IN FEET



File No. 12-99-702-SI

ENVIRO SOIL TECH CONSULTANTS

DEPTH TO WATER MEASUREMENT  
FOR MW-5 IN FEET



ENVIRO SOIL TECH CONSULTANTS

File No. 12-99-702-SI

**A P P E N D I X "D"**

**ENVIRO SOIL TECH CONSULTANTS**

## **GROUNDWATER SAMPLING**

Prior to collection of groundwater samples, all of the sampling equipment (i.e. bailer, cables, bladder pump, discharge lines and etc.) was cleaned by pumping TSP water solution followed by distilled water.

Prior to purging, the well "Water Sampling Field Survey Forms" were filled out (depth to water and total depth of water column were measured and recorded). The well was then bailed or pumped to remove four to ten well volumes or until the discharged water temperature, conductivity and pH stabilized. "Stabilized" is defined as three consecutive readings within 15% of one another.

The groundwater sample was collected when the water level in the well recovered to 80% of its static level.

Forty milliliter (ml.), glass volatile organic analysis (VOA) vials with Teflon septa were used as sample containers. The groundwater sample was decanted into each VOA vial in such a manner that there was a meniscus at the top. The cap was quickly placed over the top of the vial and securely tightened. The VOA vial was then inverted and tapped to see if air bubbles were present. If none were present, the sample was labeled and refrigerated for delivery under chain-of-custody to the laboratory. The label information would include a sample identification number, job identification number, date, time, type of analysis requested, and the sampler's name.



File No. 12-99-702-SI

**A P P E N D I X "E"**

**ENVIRO SOIL TECH CONSULTANTS**

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

December 20, 2001

Frank Hamedi  
Enviro Soil Tech Consultants  
131 Tully Road  
San Jose, CA 95111

**Order:** 28112

**Date Collected:** 12/06/01

**Project Name:** 15595 Washington Ave

**Date Received:** 12/10/01

**Project Number:** 12-99-702-SI

**P.O. Number:** 12-99-702-SI

**Project Notes:**

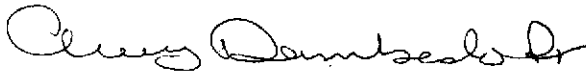
On December 10, 2001, samples were received under documented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>	<u>Test</u>	<u>Method</u>
Liquid	EPA 8260B	EPA 8260B
	TPH as Gasoline	EPA 8015 MOD. (Purgeable)

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-588-0200.

Sincerely,



Michelle L. Anderson  
Laboratory Director

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Enviro Soil Tech Consultants  
131 Tully Road  
San Jose, CA 95111  
Attn: Frank Hamedi

Date: 12/20/01  
Date Received: 12/10/01  
Project Name: 15595 Washington Ave  
Project Number: 12-99-702-SI  
P.O. Number: 12-99-702-SI  
Sampled By: Richard Munley

## Certified Analytical Report


Order ID: 28112	Lab Sample ID: 28112-001	Client Sample ID: MW-1								
Sample Time: 12:30 PM	Sample Date: 12/06/01	Matrix: Liquid								
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	25000		200	50	10000	µg/L	N/A	12/14/01	WGC42257	EPA 8015 MOD. (Purgeable)
				Surrogate aaa-Trifluorotoluene				Surrogate Recovery 101		Control Limits (%) 65 - 135

Order ID: 28112	Lab Sample ID: 28112-002	Client Sample ID: MW-2								
Sample Time: 1:32 PM	Sample Date: 12/06/01	Matrix: Liquid								
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	11000	x	100	50	5000	µg/L	N/A	12/12/01	WGC22255	EPA 8015 MOD. (Purgeable)
				Surrogate aaa-Trifluorotoluene				Surrogate Recovery 101		Control Limits (%) 65 - 135

Order ID: 28112	Lab Sample ID: 28112-003	Client Sample ID: MW-3								
Sample Time: 2:27 PM	Sample Date: 12/06/01	Matrix: Liquid								
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	33000	x	100	50	5000	µg/L	N/A	12/12/01	WGC22255	EPA 8015 MOD. (Purgeable)
				Surrogate aaa-Trifluorotoluene				Surrogate Recovery 109		Control Limits (%) 65 - 135

DF = Dilution Factor      ND = Not Detected      DLR = Detection Limit Reported      PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

  
Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

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Enviro Soil Tech Consultants  
131 Tully Road  
San Jose, CA 95111  
Attn: Frank Hamedi

Date: 12/20/01  
Date Received: 12/10/01  
Project Name: 15595 Washington Ave  
Project Number: 12-99-702-SI  
P.O. Number: 12-99-702-SI  
Sampled By: Richard Munley

## Certified Analytical Report

Order ID: 28112

Lab Sample ID: 28112-004

Client Sample ID: MW-4

Sample Time: 11:21 AM

Sample Date: 12/06/01

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	160	x	1	50	50	µg/L	N/A	12/12/01	WGC22255	EPA 8015 MOD. (Purgeable)
				<b>Surrogate</b> aaa-Trifluorotoluene				<b>Surrogate Recovery</b> 93		<b>Control Limits (%)</b> 65 - 135

Order ID: 28112

Lab Sample ID: 28112-005

Client Sample ID: MW-5

Sample Time: 10:00 AM

Sample Date: 12/06/01

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	4900		10	50	500	µg/L	N/A	12/12/01	WGC22255	EPA 8015 MOD. (Purgeable)
				<b>Surrogate</b> aaa-Trifluorotoluene				<b>Surrogate Recovery</b> 112		<b>Control Limits (%)</b> 65 - 135

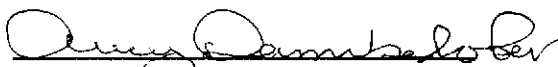
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PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)



Michelle L. Anderson, Laboratory Director

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Date: 12/20/01  
Date Received: 12/10/01  
Project Name: 15595 Washington Ave  
Project Number: 12-99-702-SI  
P.O. Number: 12-99-702-SI  
Sampled By: Richard Munley

## Certified Analytical Report

Order ID: 28112

Lab Sample ID: 28112-001

Client Sample ID: MW-1

Sample Time: 12:30 PM

Sample Date: 12/06/01

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1,2-Tetrachloroethane	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
1,1,1-Trichloroethane	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
1,1,2-Trichloroethane	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
1,1-Dichloroethane	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
1,1-Dichloroethene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
1,1-Dichloropropene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
1,2,3-Trichlorobenzene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
1,2,3-Trichloropropane	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
1,2,4-Trichlorobenzene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
1,2,4-Trimethylbenzene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
1,2-Dibromo-3-Chloropropane	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
1,2-Dibromoethane (EDB)	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
1,2-Dichlorobenzene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
1,2-Dichloroethane	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
1,2-Dichloropropane	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
1,3,5-Trimethylbenzene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
1,3-Dichlorobenzene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
1,3-Dichloropropane	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
1,4-Dichlorobenzene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
2,2-Dichloropropane	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
2-Butanone (MEK)	ND		500	20	10000	µg/L	12/19/01	WMS11323	EPA 8260B
2-Chloroethyl-vinyl Ether	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
2-Chlorotoluene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
2-Hexanone	ND		500	20	10000	µg/L	12/19/01	WMS11323	EPA 8260B
4-Chlorotoluene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
4-Methyl-2-Pentanone(MIBK)	ND		500	20	10000	µg/L	12/19/01	WMS11323	EPA 8260B
Acetone	ND		500	100	50000	µg/L	12/19/01	WMS11323	EPA 8260B
Benzene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Bromobenzene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Bromochloromethane	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Bromodichloromethane	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Bromoform	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B

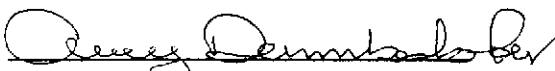
DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)



Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

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Enviro Soil Tech Consultants  
131 Tully Road  
San Jose, CA 95111  
Attn: Frank Hamedi

Date: 12/20/01  
Date Received: 12/10/01  
Project Name: 15595 Washington Ave  
Project Number: 12-99-702-SI  
P.O. Number: 12-99-702-SI  
Sampled By: Richard Munley

## Certified Analytical Report

Order ID: 28112

Lab Sample ID: 28112-001

Client Sample ID: MW-1

Sample Time: 12:30 PM

Sample Date: 12/06/01

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Bromomethane	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Carbon Disulfide	ND		500	15	7500	µg/L	12/19/01	WMS11323	EPA 8260B
Carbon Tetrachloride	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Chlorobenzene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Chloroethane	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Chloroform	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Chloromethane	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
cis-1,2-Dichloroethene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
cis-1,3-Dichloropropene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Dibromochloromethane	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Dibromomethane	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Dichlorodifluoromethane	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Diisopropyl Ether	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Ethyl Benzene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Hexachlorobutadiene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Isopropylbenzene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Methyl-1-butyl Ether	37000		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Methylene Chloride	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
n-Butylbenzene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
n-Propylbenzene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Naphthalene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
p-Isopropyltoluene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
sec-Butylbenzene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Styrene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
tert-Amyl Methyl Ether	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
tert-Butanol	ND		500	20	10000	µg/L	12/19/01	WMS11323	EPA 8260B
tert-Butyl Ethyl Ether	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
tert-Butylbenzene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Tetrachloroethene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Toluene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
trans-1,2-Dichloroethene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
trans-1,3-Dichloropropene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Trichloroethene	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B

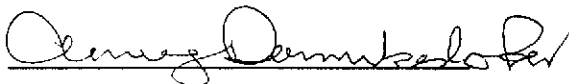
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ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)



Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

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Enviro Soil Tech Consultants  
131 Tully Road  
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Attn: Frank Hamedi

Date: 12/20/01  
Date Received: 12/10/01  
Project Name: 15595 Washington Ave  
Project Number: 12-99-702-SI  
P.O. Number: 12-99-702-SI  
Sampled By: Richard Munley

## Certified Analytical Report

Order ID: 28112

Lab Sample ID: 28112-001

Client Sample ID: MW-1

Sample Time: 12:30 PM

Sample Date: 12/06/01

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Trichlorofluoromethane	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Vinyl Chloride	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
Xylenes, Total	ND		500	5	2500	µg/L	12/19/01	WMS11323	EPA 8260B
	Surrogate			Surrogate Recovery			Control Limits (%)		
	4-Bromofluorobenzene			98			65 - 135		
	Dibromofluoromethane			132			57 - 139		
	Toluene-d8			122			65 - 135		

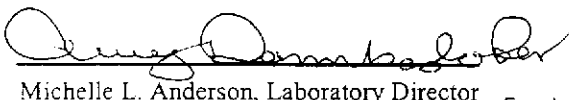
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Date: 12/20/01  
Date Received: 12/10/01  
Project Name: 15595 Washington Ave  
Project Number: 12-99-702-SI  
P.O. Number: 12-99-702-SI  
Sampled By: Richard Munley

## Certified Analytical Report

Order ID: 28112

Lab Sample ID: 28112-002

Client Sample ID: MW-2

Sample Time: 1:32 PM

Sample Date: 12/06/01

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1,2-Tetrachloroethane	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
1,1,1-Trichloroethane	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
1,1,2-Trichloroethane	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
1,1-Dichloroethane	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
1,1-Dichloroethene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
1,1-Dichloropropene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
1,2,3-Trichlorobenzene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
1,2,3-Trichloropropane	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
1,2,4-Trichlorobenzene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
1,2,4-Trimethylbenzene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
1,2-Dibromo-3-Chloropropane	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
1,2-Dibromoethane (EDB)	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
1,2-Dichlorobenzene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
1,2-Dichloroethane	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
1,2-Dichloropropane	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
1,3,5-Trimethylbenzene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
1,3-Dichlorobenzene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
1,3-Dichloropropane	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
1,4-Dichlorobenzene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
2,2-Dichloropropane	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
2-Butanone (MEK)	ND		250	20	5000	µg/L	12/19/01	WMS11323	EPA 8260B
2-Chloroethyl-vinyl Ether	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
2-Chlorotoluene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
2-Hexanone	ND		250	20	5000	µg/L	12/19/01	WMS11323	EPA 8260B
4-Chlorotoluene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
4-Methyl-2-Pentanone(MIBK)	ND		250	20	5000	µg/L	12/19/01	WMS11323	EPA 8260B
Acetone	ND		250	100	25000	µg/L	12/19/01	WMS11323	EPA 8260B
Benzene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Bromobenzene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Bromochloromethane	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Bromodichloromethane	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Bromoform	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B

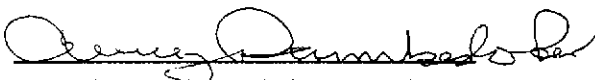
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ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)



Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983



# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Enviro Soil Tech Consultants  
131 Tully Road  
San Jose, CA 95111  
Attn: Frank Hamedi

Date: 12/20/01  
Date Received: 12/10/01  
Project Name: 15595 Washington Ave  
Project Number: 12-99-702-SI  
P.O. Number: 12-99-702-SI  
Sampled By: Richard Munley

## Certified Analytical Report

Order ID: 28112

Lab Sample ID: 28112-002

Client Sample ID: MW-2

Sample Time: 1:32 PM

Sample Date: 12/06/01

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Bromomethane	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Carbon Disulfide	ND		250	15	3750	µg/L	12/19/01	WMS11323	EPA 8260B
Carbon Tetrachloride	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Chlorobenzene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Chloroethane	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Chloroform	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Chloromethane	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
cis-1,2-Dichloroethene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
cis-1,3-Dichloropropene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Dibromochloromethane	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Dibromomethane	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Dichlorodifluoromethane	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Diisopropyl Ether	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Ethyl Benzene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Hexachlorobutadiene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Isopropylbenzene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Methyl-t-butyl Ether	22000		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Methylene Chloride	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
n-Butylbenzene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
n-Propylbenzene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Naphthalene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
p-Isopropyltoluene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
sec-Butylbenzene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Styrene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
tert-Amyl Methyl Ether	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
tert-Butanol	ND		250	20	5000	µg/L	12/19/01	WMS11323	EPA 8260B
tert-Butyl Ethyl Ether	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
tert-Butylbenzene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Tetrachloroethene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Toluene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
trans-1,2-Dichloroethene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
trans-1,3-Dichloropropene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Trichloroethene	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B

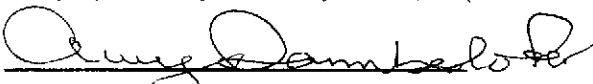
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Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)



Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Enviro Soil Tech Consultants  
131 Tully Road  
San Jose, CA 95111  
Attn: Frank Hamedi

Date: 12/20/01  
Date Received: 12/10/01  
Project Name: 15595 Washington Ave  
Project Number: 12-99-702-SI  
P.O. Number: 12-99-702-SI  
Sampled By: Richard Munley

## Certified Analytical Report

Order ID: 28112

Lab Sample ID: 28112-002

Client Sample ID: MW-2

Sample Time: 1:32 PM

Sample Date: 12/06/01

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Trichlorofluoromethane	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Vinyl Chloride	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
Xylenes, Total	ND		250	5	1250	µg/L	12/19/01	WMS11323	EPA 8260B
		<b>Surrogate</b>		<b>Surrogate Recovery</b>		<b>Control Limits (%)</b>			
		4-Bromofluorobenzene		93		65 - 135			
		Dibromofluoromethane		129		57 - 139			
		Toluene-d8		129		65 - 135			

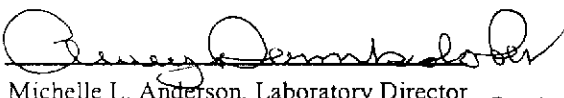
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Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Frank Hamedi

Date: 12/20/01

Date Received: 12/10/01

Project Name: 15595 Washington Ave

Project Number: 12-99-702-SI

P.O. Number: 12-99-702-SI

Sampled By: Richard Munley

## Certified Analytical Report

Order ID: 28112

Lab Sample ID: 28112-003

Client Sample ID: MW-3

Sample Time: 2:27 PM

Sample Date: 12/06/01

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1,2-Tetrachloroethane	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
1,1,1-Trichloroethane	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
1,1,2-Trichloroethane	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
1,1-Dichloroethane	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
1,1-Dichloroethene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
1,1-Dichloropropene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2,3-Trichlorobenzene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2,3-Trichloropropane	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2,4-Trichlorobenzene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2,4-Trimethylbenzene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2-Dibromo-3-Chloropropane	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2-Dibromoethane (EDB)	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2-Dichlorobenzene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2-Dichloroethane	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2-Dichloropropane	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
1,3,5-Trimethylbenzene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
1,3-Dichlorobenzene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
1,3-Dichloropropane	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
1,4-Dichlorobenzene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
2,2-Dichloropropane	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
2-Butanone (MEK)	ND		1000	20	20000	µg/L	12/18/01	WMS11315B	EPA 8260B
2-Chloroethyl-vinyl Ether	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
2-Chlorotoluene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
2-Hexanone	ND		1000	20	20000	µg/L	12/18/01	WMS11315B	EPA 8260B
4-Chlorotoluene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
4-Methyl-2-Pentanone(MIBK)	ND		1000	20	20000	µg/L	12/18/01	WMS11315B	EPA 8260B
Acetone	ND		1000	100	100000	µg/L	12/18/01	WMS11315B	EPA 8260B
Benzene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Bromobenzene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Bromochloromethane	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Bromodichloromethane	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Bromoform	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B

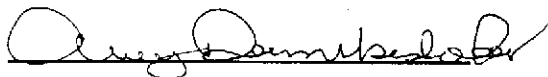
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Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)



Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

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Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Frank Hamedi

Date: 12/20/01

Date Received: 12/10/01

Project Name: 15595 Washington Ave

Project Number: 12-99-702-SI

P.O. Number: 12-99-702-SI

Sampled By: Richard Munley

## Certified Analytical Report

Order ID: 28112

Lab Sample ID: 28112-003

Client Sample ID: MW-3

Sample Time: 2:27 PM

Sample Date: 12/06/01

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Bromomethane	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Carbon Disulfide	ND		1000	15	15000	µg/L	12/18/01	WMS11315B	EPA 8260B
Carbon Tetrachloride	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Chlorobenzene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Chloroethane	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Chloroform	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Chloromethane	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
cis-1,2-Dichloroethene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
cis-1,3-Dichloropropene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Dibromochloromethane	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Dibromomethane	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Dichlorodifluoromethane	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Diisopropyl Ether	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Ethyl Benzene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Hexachlorobutadiene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Isopropylbenzene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Methyl-t-butyl Ether	94000		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Methylene Chloride	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
n-Butylbenzene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
n-Propylbenzene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Naphthalene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
p-Isopropyltoluene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
sec-Butylbenzene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Styrene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
tert-Amyl Methyl Ether	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
tert-Butanol	ND		1000	20	20000	µg/L	12/18/01	WMS11315B	EPA 8260B
tert-Butyl Ethyl Ether	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
tert-Butylbenzene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Tetrachloroethene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Toluene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
trans-1,2-Dichloroethene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
trans-1,3-Dichloropropene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Trichloroethene	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B

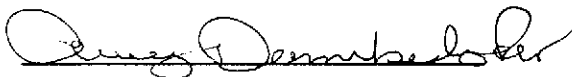
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Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)



Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

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Enviro Soil Tech Consultants  
131 Tully Road  
San Jose, CA 95111  
Attn: Frank Hamedi

Date: 12/20/01  
Date Received: 12/10/01  
Project Name: 15595 Washington Ave  
Project Number: 12-99-702-SI  
P.O. Number: 12-99-702-SI  
Sampled By: Richard Munley

## Certified Analytical Report

Order ID: 28112

Lab Sample ID: 28112-003

Client Sample ID: MW-3

Sample Time: 2:27 PM

Sample Date: 12/06/01

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Trichlorofluoromethane	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Vinyl Chloride	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
Xylenes, Total	ND		1000	5	5000	µg/L	12/18/01	WMS11315B	EPA 8260B
	<b>Surrogate</b>			<b>Surrogate Recovery</b>			<b>Control Limits (%)</b>		
	4-Bromofluorobenzene			99			65 - 135		
	Dibromofluoromethane			127			57 - 139		
	Toluene-d8			123			65 - 135		

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131 Tully Road  
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Attn: Frank Hamedi

Date: 12/20/01  
Date Received: 12/10/01  
Project Name: 15595 Washington Ave  
Project Number: 12-99-702-SI  
P.O. Number: 12-99-702-SI  
Sampled By: Richard Munley

## Certified Analytical Report

Order ID: 28112

Lab Sample ID: 28112-004

Client Sample ID: MW-4

Sample Time: 11:21 AM

Sample Date: 12/06/01

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1,2-Tetrachloroethane	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
1,1,1-Trichloroethane	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
1,1,2-Trichloroethane	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
1,1-Dichloroethane	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
1,1-Dichloroethene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
1,1-Dichloropropene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2,3-Trichlorobenzene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2,3-Trichloropropane	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2,4-Trichlorobenzene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2,4-Trimethylbenzene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2-Dibromo-3-Chloropropane	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2-Dibromoethane (EDB)	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2-Dichlorobenzene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2-Dichloroethane	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2-Dichloropropane	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
1,3,5-Trimethylbenzene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
1,3-Dichlorobenzene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
1,3-Dichloropropane	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
1,4-Dichlorobenzene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
2,2-Dichloropropane	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
2-Butanone (MEK)	ND		1	20	20	µg/L	12/18/01	WMS11315B	EPA 8260B
2-Chloroethyl-vinyl Ether	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
2-Chlorotoluene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
2-Hexanone	ND		1	20	20	µg/L	12/18/01	WMS11315B	EPA 8260B
4-Chlorotoluene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
4-Methyl-2-Pentanone(MIBK)	ND		1	20	20	µg/L	12/18/01	WMS11315B	EPA 8260B
Acetone	ND		1	100	100	µg/L	12/18/01	WMS11315B	EPA 8260B
Benzene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Bromobenzene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Bromochloromethane	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Bromodichloromethane	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Bromoform	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B

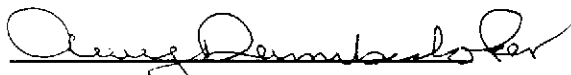
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ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)



Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Enviro Soil Tech Consultants  
131 Tully Road  
San Jose, CA 95111  
Attn: Frank Hamedi

Date: 12/20/01  
Date Received: 12/10/01  
Project Name: 15595 Washington Ave  
Project Number: 12-99-702-SI  
P.O. Number: 12-99-702-SI  
Sampled By: Richard Munley

## Certified Analytical Report

Order ID: 28112

Lab Sample ID: 28112-004

Client Sample ID: MW-4

Sample Time: 11:21 AM

Sample Date: 12/06/01

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Bromomethane	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Carbon Disulfide	ND		1	15	15	µg/L	12/18/01	WMS11315B	EPA 8260B
Carbon Tetrachloride	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Chlorobenzene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Chloroethane	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Chloroform	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Chloromethane	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
cis-1,2-Dichloroethene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
cis-1,3-Dichloropropene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Dibromochloromethane	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Dibromomethane	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Dichlorodifluoromethane	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Diisopropyl Ether	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Ethyl Benzene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Hexachlorobutadiene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Isopropylbenzene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Methyl-t-butyl Ether	25		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Methylene Chloride	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
n-Butylbenzene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
n-Propylbenzene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Naphthalene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
p-Isopropyltoluene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
sec-Butylbenzene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Styrene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
tert-Amyl Methyl Ether	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
tert-Butanol	ND		1	20	20	µg/L	12/18/01	WMS11315B	EPA 8260B
tert-Butyl Ethyl Ether	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
tert-Butylbenzene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Tetrachloroethene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Toluene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
trans-1,2-Dichloroethene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
trans-1,3-Dichloropropene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Trichloroethene	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B

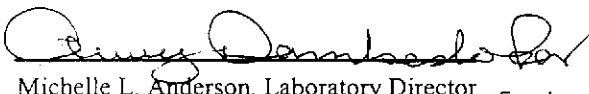
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Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)



Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

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3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

Enviro Soil Tech Consultants  
131 Tully Road  
San Jose, CA 95111  
Attn: Frank Hamedi

Date: 12/20/01  
Date Received: 12/10/01  
Project Name: 15595 Washington Ave  
Project Number: 12-99-702-SI  
P.O. Number: 12-99-702-SI  
Sampled By: Richard Munley

## Certified Analytical Report

Order ID: 28112

Lab Sample ID: 28112-004

Client Sample ID: MW-4

Sample Time: 11:21 AM

Sample Date: 12/06/01

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Trichlorofluoromethane	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Vinyl Chloride	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
Xylenes, Total	ND		1	5	5	µg/L	12/18/01	WMS11315B	EPA 8260B
<b>Surrogate</b>				<b>Surrogate Recovery</b>		<b>Control Limits (%)</b>			
4-Bromofluorobenzene				102		65 - 135			
Dibromofluoromethane				122		57 - 139			
Toluene-d8				124		65 - 135			

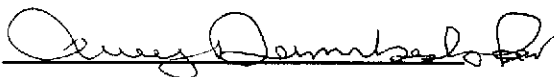
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Enviro Soil Tech Consultants  
131 Tully Road  
San Jose, CA 95111  
Attn: Frank Hamedi

Date: 12/20/01  
Date Received: 12/10/01  
Project Name: 15595 Washington Ave  
Project Number: 12-99-702-SI  
P.O. Number: 12-99-702-SI  
Sampled By: Richard Munley

## Certified Analytical Report

Order ID: 28112

Lab Sample ID: 28112-005

Client Sample ID: MW-5

Sample Time: 10:00 AM

Sample Date: 12/06/01

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1,2-Tetrachloroethane	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
1,1,1-Trichloroethane	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
1,1,2-Trichloroethane	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
1,1-Dichloroethane	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
1,1-Dichloroethene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
1,1-Dichloropropene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2,3-Trichlorobenzene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2,3-Trichloropropane	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2,4-Trichlorobenzene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2,4-Trimethylbenzene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2-Dibromo-3-Chloropropane	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2-Dibromoethane (EDB)	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2-Dichlorobenzene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2-Dichloroethane	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
1,2-Dichloropropane	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
1,3,5-Trimethylbenzene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
1,3-Dichlorobenzene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
1,3-Dichloropropane	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
1,4-Dichlorobenzene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
2,2-Dichloropropane	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
2-Butanone (MEK)	ND		10	20	200	µg/L	12/18/01	WMS11315B	EPA 8260B
2-Chloroethyl-vinyl Ether	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
2-Chlorotoluene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
2-Hexanone	ND		10	20	200	µg/L	12/18/01	WMS11315B	EPA 8260B
4-Chlorotoluene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
4-Methyl-2-Pentanone(MIBK)	ND		10	20	200	µg/L	12/18/01	WMS11315B	EPA 8260B
Acetone	ND		10	100	1000	µg/L	12/18/01	WMS11315B	EPA 8260B
Benzene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Bromobenzene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Bromochloromethane	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Bromodichloromethane	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Bromoform	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B

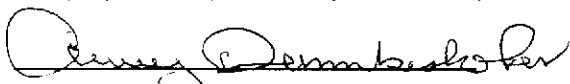
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Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)



Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

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Enviro Soil Tech Consultants  
131 Tully Road  
San Jose, CA 95111  
Attn: Frank Hamedi

Date: 12/20/01  
Date Received: 12/10/01  
Project Name: 15595 Washington Ave  
Project Number: 12-99-702-SI  
P.O. Number: 12-99-702-SI  
Sampled By: Richard Munley

## Certified Analytical Report

Order ID: 28112

Lab Sample ID: 28112-005

Client Sample ID: MW-5

Sample Time: 10:00 AM

Sample Date: 12/06/01

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Bromomethane	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Carbon Disulfide	ND		10	15	150	µg/L	12/18/01	WMS11315B	EPA 8260B
Carbon Tetrachloride	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Chlorobenzene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Chloroethane	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Chloroform	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Chloromethane	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
cis-1,2-Dichloroethene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
cis-1,3-Dichloropropene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Dibromochloromethane	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Dibromomethane	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Dichlorodifluoromethane	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Diisopropyl Ether	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Ethyl Benzene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Hexachlorobutadiene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Isopropylbenzene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Methyl-t-butyl Ether	1900		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Methylene Chloride	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
n-Butylbenzene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
n-Propylbenzene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Naphthalene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
p-Isopropyltoluene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
sec-Butylbenzene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Styrene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
tert-Amyl Methyl Ether	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
tert-Butanol	ND		10	20	200	µg/L	12/18/01	WMS11315B	EPA 8260B
tert-Butyl Ethyl Ether	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
tert-Butylbenzene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Tetrachloroethene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Toluene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
trans-1,2-Dichloroethene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
trans-1,3-Dichloropropene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Trichloroethene	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B

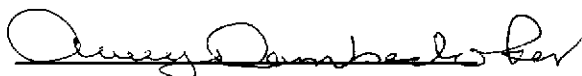
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Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

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Enviro Soil Tech Consultants  
131 Tully Road  
San Jose, CA 95111  
Attn: Frank Hamedi

Date: 12/20/01  
Date Received: 12/10/01  
Project Name: 15595 Washington Ave  
Project Number: 12-99-702-SI  
P.O. Number: 12-99-702-SI  
Sampled By: Richard Munley

## Certified Analytical Report

Order ID: 28112

Lab Sample ID: 28112-005

Client Sample ID: MW-5

Sample Time: 10:00 AM

Sample Date: 12/06/01

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Trichlorofluoromethane	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Vinyl Chloride	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Xylenes, Total	ND		10	5	50	µg/L	12/18/01	WMS11315B	EPA 8260B
Surrogate			Surrogate Recovery			Control Limits (%)			
4-Bromofluorobenzene			103			65 - 135			
Dibromofluoromethane			115			57 - 139			
Toluene-d8			124			65 - 135			

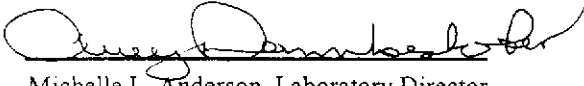
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Michelle L. Anderson, Laboratory Director

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## STANDARD LAB QUALIFIERS (FLAGS)

All Entech lab reports now reference standard lab qualifiers. These qualifiers are noted in the adjacent column to the analytical result and are adapted from the U.S. EPA CLP program. The current qualifier list is as follows:

Qualifier (Flag)	Description
U	Compound was analyzed for but not detected
J	Estimated value for tentatively identified compounds or if result is below PQL but above MDL
N	Presumptive evidence of a compound (for Tentatively Identified Compounds)
B	Analyte is found in the associated Method Blank
E	Compounds whose concentrations exceed the upper level of the calibration range
D	Multiple dilutions reported for analysis; discrepancies between analytes may be due to dilution
X	Results within quantitation range; chromatographic pattern not typical of fuel

# Entech Analytical Labs, Inc.

3334 Victor Court • Santa Clara, CA 95054 • (408) 588-0200 • Fax (408) 588-0201

## Quality Control Results Summary

QC Batch #: WGC42257  
Matrix: Liquid

Units: µg/L  
Date Analyzed: 12/14/01

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
<b>Test: TPH as Gasoline</b>											
TPH as Gasoline	EPA 8015 M	ND		561		510	LCS	90.9			59.2 - 111.9
<b>Surrogate</b>			<b>Surrogate Recovery</b>			<b>Control Limits (%)</b>					
	aaa-Trifluorotoluene			99		65 - 135					
<b>Test: BTEX</b>											
Benzene	EPA 8020	ND		6.2		7.5	LCS	121.0			65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		7.8		7.9	LCS	101.3			65.0 - 135.0
Toluene	EPA 8020	ND		35.8		36	LCS	100.6			65.0 - 135.0
Xylenes, total	EPA 8020	ND		43		40	LCS	93.0			65.0 - 135.0
<b>Surrogate</b>			<b>Surrogate Recovery</b>			<b>Control Limits (%)</b>					
	aaa-Trifluorotoluene			102		65 - 135					
<b>Test: MTBE by EPA 8020</b>											
Methyl-t-butyl Ether	EPA 8020	ND		52.8		62	LCS	117.4			65.0 - 135.0
<b>Surrogate</b>			<b>Surrogate Recovery</b>			<b>Control Limits (%)</b>					
	aaa-Trifluorotoluene			102		65 - 135					
<b>Test: TPH as Gasoline</b>											
TPH as Gasoline	EPA 8015 M	ND		561		540	LCSD	96.3	5.71	25.00	59.2 - 111.9
<b>Surrogate</b>			<b>Surrogate Recovery</b>			<b>Control Limits (%)</b>					
	aaa-Trifluorotoluene			98		65 - 135					
<b>Test: BTEX</b>											
Benzene	EPA 8020	ND		6.2		6.9	LCSD	111.3	8.33	25.00	65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		7.8		8.3	LCSD	106.4	4.94	25.00	65.0 - 135.0
Toluene	EPA 8020	ND		35.8		36	LCSD	100.6	0.00	25.00	65.0 - 135.0
Xylenes, total	EPA 8020	ND		43		41	LCSD	95.3	2.47	25.00	65.0 - 135.0
<b>Surrogate</b>			<b>Surrogate Recovery</b>			<b>Control Limits (%)</b>					
	aaa-Trifluorotoluene			108		65 - 135					
<b>Test: MTBE by EPA 8020</b>											
Methyl-t-butyl Ether	EPA 8020	ND		52.8		63	LCSD	119.3	1.60	25.00	65.0 - 135.0
<b>Surrogate</b>			<b>Surrogate Recovery</b>			<b>Control Limits (%)</b>					
	aaa-Trifluorotoluene			108		65 - 135					

# Entech Analytical Labs, Inc.

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## Quality Control Results Summary

QC Batch #: WGC22255  
Matrix: Liquid

Units:  $\mu\text{g/L}$   
Date Analyzed: 12/12/01

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
<b>Test: TPH as Gasoline</b>											
TPH as Gasoline	EPA 8015 M	ND		561		462.4	LCS	82.4			65.0 - 135.0
Surrogate		Surrogate Recovery		Control Limits (%)							
aaa-Trifluorotoluene		99		65 - 135							
<b>Test: BTEX</b>											
Benzene	EPA 8020	ND		6.2		6.91	LCS	111.5			65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		7.8		8.16	LCS	104.6			65.0 - 135.0
Toluene	EPA 8020	ND		35.8		37	LCS	103.4			65.0 - 135.0
Xylenes, total	EPA 8020	ND		43		43.7	LCS	101.6			65.0 - 135.0
Surrogate		Surrogate Recovery		Control Limits (%)							
aaa-Trifluorotoluene		99		65 - 135							
<b>Test: TPH as Gasoline</b>											
TPH as Gasoline	EPA 8015 M	ND		561		471.1	LCSD	84.0	1.86	25.00	65.0 - 135.0
Surrogate		Surrogate Recovery		Control Limits (%)							
aaa-Trifluorotoluene		100		65 - 135							
<b>Test: BTEX</b>											
Benzene	EPA 8020	ND		6.2		6.36	LCSD	102.6	8.29	25.00	65.0 - 135.0
Ethyl Benzene	EPA 8020	ND		7.8		7.7	LCSD	98.7	5.80	25.00	65.0 - 135.0
Toluene	EPA 8020	ND		35.8		37.9	LCSD	105.9	2.40	25.00	65.0 - 135.0
Xylenes, total	EPA 8020	ND		43		42.9	LCSD	99.8	1.85	25.00	65.0 - 135.0
Surrogate		Surrogate Recovery		Control Limits (%)							
aaa-Trifluorotoluene		100		65 - 135							

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## Quality Control Results Summary

QC Batch #: WMS11323  
Matrix: Liquid

Units: µg/L  
Date Analyzed: 12/19/01

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
<b>Test: EPA 8260B</b>											
1,1-Dichloroethene	EPA 8260B	ND		20		17.3	LCS	86.5			65.0 - 135.0
Benzene	EPA 8260B	ND		20		20.7	LCS	103.5			65.0 - 135.0
Chlorobenzene	EPA 8260B	ND		20		19.7	LCS	98.5			65.0 - 135.0
Methyl-t-butyl Ether	EPA 8260B	ND		20		18.2	LCS	91.0			56.0 - 135.0
Toluene	EPA 8260B	ND		20		19.7	LCS	98.5			65.0 - 135.0
Trichloroethene	EPA 8260B	ND		20		19	LCS	95.0			65.0 - 135.0
<b>Surrogate</b>			<b>Surrogate Recovery</b>			<b>Control Limits (%)</b>					
	4-Bromofluorobenzene			114		65 - 135					
	Dibromofluoromethane			111		57 - 139					
	Toluene-d8			120		65 - 135					
<b>Test: EPA 8260B</b>											
1,1-Dichloroethene	EPA 8260B	ND		20		18.9	LCSD	94.5	8.84	25.00	65.0 - 135.0
Benzene	EPA 8260B	ND		20		20.9	LCSD	104.5	0.96	25.00	65.0 - 135.0
Chlorobenzene	EPA 8260B	ND		20		19.7	LCSD	98.5	0.00	25.00	65.0 - 135.0
Methyl-t-butyl Ether	EPA 8260B	ND		20		19.5	LCSD	97.5	6.90	25.00	56.0 - 135.0
Toluene	EPA 8260B	ND		20		20	LCSD	100.0	1.51	25.00	65.0 - 135.0
Trichloroethene	EPA 8260B	ND		20		19.5	LCSD	97.5	2.60	25.00	65.0 - 135.0
<b>Surrogate</b>			<b>Surrogate Recovery</b>			<b>Control Limits (%)</b>					
	4-Bromofluorobenzene			113		65 - 135					
	Dibromofluoromethane			116		57 - 139					
	Toluene-d8			119		65 - 135					

# Entech Analytical Labs, Inc.

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## Quality Control Results Summary

QC Batch #: WMS11315B  
Matrix: Liquid

Units: µg/L  
Date Analyzed: 12/18/01

Parameter	Method	Blank Result	Spike Sample ID	Spike Amount	Sample Result	Spike Result	QC Type	% Recovery	RPD	RPD Limits	Recovery Limits
<b>Test: EPA 8260B</b>											
1,1-Dichloroethene	EPA 8260B	ND		20		19.6	LCS	98.0			65.0 - 135.0
Benzene	EPA 8260B	ND		20		21.5	LCS	107.5			65.0 - 135.0
Chlorobenzene	EPA 8260B	ND		20		20.6	LCS	103.0			65.0 - 135.0
Methyl-t-butyl Ether	EPA 8260B	ND		20		21.7	LCS	108.5			56.0 - 135.0
Toluene	EPA 8260B	ND		20		20.3	LCS	101.5			65.0 - 135.0
Trichloroethene	EPA 8260B	ND		20		20.2	LCS	101.0			65.0 - 135.0
<b>Surrogate</b>		<b>Surrogate Recovery</b>		<b>Control Limits (%)</b>							
4-Bromofluorobenzene		112		65 - 135							
Dibromofluoromethane		116		57 - 139							
Toluene-d8		118		65 - 135							
<b>Test: EPA 8260B</b>											
1,1-Dichloroethene	EPA 8260B	ND		20		18.5	LCSD	92.5	5.77	25.00	65.0 - 135.0
Benzene	EPA 8260B	ND		20		22.3	LCSD	111.5	3.65	25.00	65.0 - 135.0
Chlorobenzene	EPA 8260B	ND		20		22	LCSD	110.0	6.57	25.00	65.0 - 135.0
Methyl-t-butyl Ether	EPA 8260B	ND		20		21.8	LCSD	109.0	0.46	25.00	56.0 - 135.0
Toluene	EPA 8260B	ND		20		21.3	LCSD	106.5	4.81	25.00	65.0 - 135.0
Trichloroethene	EPA 8260B	ND		20		20.5	LCSD	102.5	1.47	25.00	65.0 - 135.0
<b>Surrogate</b>		<b>Surrogate Recovery</b>		<b>Control Limits (%)</b>							
4-Bromofluorobenzene		112		65 - 135							
Dibromofluoromethane		119		57 - 139							
Toluene-d8		119		65 - 135							



PROJ. NO. 12-99-702-51 NAME 15595 Washington Ave., San Lorenzo

SAMPLERS: (Signature) *Richard Manley*

CONTAINER

ANALYSES REQUESTED  
 TPHg  
 EPA 8260B

REMARKS

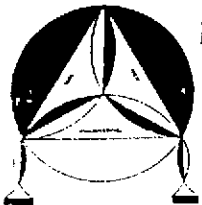
NO.	DATE	TIME	SOIL	WATER	LOCATION	CONTAINER	ANALYSES REQUESTED	REMARKS
1	12/10/01	12:30		✓	MW-1	6	✓✓	28112-001 Please also report MTBE
2	1	13:32		✓	MW-2	6	✓✓	002 TAME, ETBE and TBA
3	1	14:27		✓	MW-3	6	✓✓	003 in EPA 8260 B.
4	1	11:21		✓	MW-4	6	✓✓	004
5	1	10:00		✓	MW-5	6	✓✓	005

01 DEC 10 16:59

Relinquished by: (Signature) *Richard Manley* Date / Time 12/10/01 4:30pm Received by: (Signature) *[Signature]*

Relinquished by: (Signature) *[Signature]* Date / Time 12/10/01 5:00pm Received by: (Signature) *Audrey K...*

Relinquished by: (Signature) Date / Time Received for Laboratory by: (Signature) Date / Time Remarks Please send the analytical report to Frank Hamed



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