

File No. 12-99-702-SI

10374

Alameda County

OCT 15 2004

Environmental Health

**QUARTERLY GROUNDWATER MONITORING  
AND SAMPLING FOR THE PROPERTY  
LOCATED AT 15595 WASHINGTON AVENUE  
SAN LORENZO, CALIFORNIA  
JANUARY 26, 2004**

**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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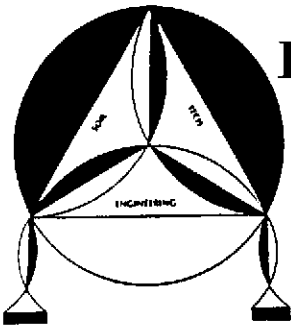
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January 26, 2004

File No. 12-99-702-SI

**Mr. Mehdi Mohammadian**

Cal Gas

15595 Washington Avenue

San Lorenzo, California 94580

**SUBJECT: QUARTERLY 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 quarterly groundwater monitoring and sampling conducted by Enviro Soil Tech Consultants (ESTC), on January 17, 2004, 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 groundwaters 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.

File No. 12-99-702-SI

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

Sincerely,



FRANK HAMEDI-FARD  
GENERAL MANAGER

*ENVIRO SOIL TECH CONSULTANTS*



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, Callaris who had operated the gasoline service station owned the site.

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

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



In 1986, Groundwater Technology (GWT) conducted soil and groundwater investigation at the site 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, Toxichem Management Systems, Inc. (TMS) conducted an additional subsurface investigation, 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 are 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 scopes 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); Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX); Methyl Tertiary Butyl Ether (MTBE) and other 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 January 17, 2004, 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 was detected in monitoring wells MW-1 through MW-4 during field inspection. Sewerage odor was noted in monitoring well MW-5. The shallow groundwater table depths ranged from 7.14 feet (well MW-2) to 9.30 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 southwesterly direction as of January 17, 2004 (Figure 2).

**ANALYTICAL RESULTS:**

Groundwater samples from monitoring wells MW-1 to MW-5 were analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg) per EPA method 8015 MOD; BTEX; MTBE and other hydrocarbons fuel oxygenates compounds per EPA Method 8260B.

Groundwater samples from the monitoring wells detected levels of TPHg ranging from 180 micrograms per liter ( $\mu\text{g/L}$ ) (MW-4) to the maximum of 11000  $\mu\text{g/L}$  (MW-3) and MTBE ranging from 65  $\mu\text{g/L}$  (MW-4) to maximum of 23000  $\mu\text{g/L}$  (MW-3). All five monitoring wells detected BTEX below laboratory detection limit in the water samples. Only monitoring well MW-2 detected other hydrocarbons fuel oxygenated constituents below laboratory detection in the water samples.

The groundwater analytical results are summarized in Table 1. Copy of the analytical results and chain-of-custody documentation are attached in Appendix "E".

#### **SUMMARY:**

All five monitoring wells detected TPHg and MTBE in the water samples. All five monitoring wells detected BTEX and other hydrocarbons fuel oxygenated constituents below laboratory detection limit in the water samples.

#### **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.

File No. 12-99-702-SI

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

**TABLES**

**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
3/25/02	23.05 Resurveyed			7.84*	15.21	Light rainbow sheen No odor	770	ND<830	ND<830	ND<830	ND<830	20000

**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
7/02/02	MW-1 (23.05)	15	10	8.96*	14.14	No sheen or odor	550	ND<500	ND<500	ND<500	ND<500	13000
10/05/02				9.58*	13.47	No sheen or odor	880•	ND<250	ND<250	ND<250	ND<250	3800
1/17/03				7.72*	15.33	No sheen or odor	8200a	ND<500	ND<500	ND<500	ND<500	11000
4/17/03				8.48*	14.57	No sheen or odor	390	ND<2.5	ND<2.5	ND<2.5	ND<2.5	1400
7/24/03				9.20*	13.85	No sheen or odor	490•	ND<100	ND<100	ND<100	ND<100	590
10/22/03				9.88*	13.17	No sheen or odor	430c	ND<50	ND<50	ND<50	ND<50	540
1/17/04				8.18*	14.87	No sheen or odor	420d	ND<25	ND<25	ND<25	ND<25	340
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				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



**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
2/22/01	MW-2 (21.94)	15	10	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
3/25/02	(21.94) Resurveyed			6.86*	15.08	No sheen or odor	ND<50	ND<830	ND<830	ND<830	ND<830	25000
7/02/02				7.96*	13.98	No sheen or odor	ND<50	ND<170	ND<170	ND<170	ND<170	6000
10/05/02				8.54*	13.40	No sheen or odor	820*	ND<250	ND<250	ND<250	ND<250	3400
1/17/03				6.76*	15.18	No sheen or odor	7000a	ND<500	ND<500	ND<500	ND<500	6800
4/17/03				7.38*	14.56	No sheen or odor	ND <500	ND<5	ND<5	ND<5	ND<5	3100
7/24/03				8.14*	13.80	No sheen or odor	720a	ND<5	ND<5	ND<5	ND<5	1400
10/22/03				8.82*	13.12	No sheen or odor	420c	ND<50	ND<50	ND<50	ND<50	580
1/17/04				7.14*	14.80	No sheen or odor	860c	ND<100	ND<100	ND<100	ND<100	1800
8/08/96	MW-3 (N/A)	16	10	N/A	N/A	N/A	NA	ND<50	ND<50	NA	ND<50	NA
11/12/92				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

**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
4/06/99	MW-3 (22.74)	16	10	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	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
3/25/02	22.56 Resurveyed			7.62*	14.94	No sheen or odor	ND<50	ND <2500	ND <2500	ND <2500	ND <2500	62000
7/02/02				7.78*	14.78	No sheen or odor	73Z	ND <2000	ND <2000	ND <2000	ND <2000	67000
10/05/02				9.38*	13.18	No sheen or odor	25000•	ND <2500	ND <2500	ND <2500	ND <2500	55000
1/17/03				7.46*	15.10	No sheen or odor	32000 <sup>a</sup>	ND <2500	ND <2500	ND <2500	ND <2500	49000
4/17/03				8.22*	14.34	No sheen or odor	ND <10000	ND<100	ND<100	ND<100	ND<100	38000
7/24/03				9.02*	13.54	No sheen or odor	16000 <sup>a</sup>	ND <2500	ND <2500	ND <2500	ND <2500	31000

**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
10/22/03	MW-3 (22.56)	16	10	9.66*	12.90	No sheen or odor	17000c	ND <2500	ND <2500	ND <2500	ND <2500	29000
1/17/04				7.92*	14.64	No sheen or odor	11000d	ND <2000	ND <2000	ND <2000	ND <2000	23000
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	N<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
3/25/02	(23.40) Resurveyed			8.28	15.12	No sheen or odor	150	ND<5	ND<5	ND<5	ND<5	14
7/02/02				9.36	14.04	No sheen or odor	120	ND<5	ND<5	ND<5	ND<5	ND<5
10/05/02				10.12	13.28	No sheen or odor	110	ND<5	ND<5	ND<5	ND<5	53
1/17/03				8.10	15.30	No sheen or odor	86c	ND<5	ND<5	ND<5	ND<5	23
4/17/03				8.88	14.52	No sheen or odor	110	3	2.8	1.1	2.84	89
7/24/03				9.74	13.66	No sheen or odor	130●	ND<5	ND<5	ND<5	ND<5	71
10/22/03				10.40	13.00	No sheen or odor	130b	ND<5	ND<5	ND<5	ND<5	81
1/17/04				8.72	14.68	No sheen or odor	180d	ND<5	ND<5	ND<5	ND<5	65

**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-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				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
5/29/01	23.86 Resurveyed			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
3/25/02	23.86 Resurveyed			9.08	14.78	No sheen or odor	4000	170	ND<83	ND<83	ND<83	2200
7/02/02				10.02	13.84	No sheen or odor	6100	ND<130	ND<130	ND<130	ND<130	2600
10/05/02				10.72	13.14	No sheen or odor	5500	110	ND<100	ND<100	ND<100	2500
1/17/03				8.76	15.10	No sheen or odor	3900 <sup>a</sup>	ND<100	ND<100	ND<100	ND<100	2000
4/17/03				9.58	14.28	No sheen or odor	7500	110	ND<10	61	ND<10	3500
7/24/03				10.36	13.50	No sheen or odor	7000 <sup>a</sup>	ND<250	ND<250	ND<250	ND<250	3300
10/22/03				11.02	12.84	No sheen Sewerage odor	7100	ND<500	ND<500	ND<500	ND<500	6100

**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
1/17/04	MW-5 (23.86) feet MSL	19	N/A	9.30	14.56	No sheen Sewerage odor	7100n	ND<500	ND<500	ND<500	ND<500	4200

**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)

\* Well screens are submerged

- TPH as gasoline reported value due to high concentrations of MTBE which are present in the TPH as gasoline quantitation range
- a Report TPH as gasoline value is the result of high concentrations of discrete peak (MTBE) within the TPH as gasoline quantitation range
- c Report TPH as gasoline value contains the result of high concentrations of MTBE within the TPH as gasoline quantitation range
- n Report TPH as gasoline value contains the result of high concentrations of MTBE within the TPH as gasoline quantitation range  
High surrogate recovery for 4-BFB due to matrix interference. See TFT results.
- b TPH as gasoline value is the result of high concentrations of MTBE and high boiling point hydrocarbon mixture within the TPH as gasoline quantitation range
- d TPH as gasoline value contains high concentration of MTBE and a typical gasoline patter within the TPH as gasoline quantitation range

**BTEX** - Benzene, Toluene, Ethylbenzene, Total Xylenes

**Perf.** - Perforation

**GW Elev.** - Groundwater Elevation

**NA** - Not Analyzed

† Well screens are not submerged

**Z** - Sample exhibits unknown single peak or peaks

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

Date	Well No.	Hydrocarbons Fuel Oxygenates	Concentration (µg/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
3/25/02		Methyl tert-butyl Ether	20000
7/02/02		Methyl tert-butyl Ether	13000
10/05/02		Methyl tert-butyl Ether	3800
1/17/03		Methyl tert-butyl Ether tert-Butanol	11000 2200
4/17/03		Methyl-t-butyl Ether n-Propylbenzene	1400 3.1
7/24/03		Methyl tert-butyl Ether	590
10/22/03		Methyl tert-butyl Ether	540
1/17/04		Methyl tert-butyl Ether	340
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
3/25/02		Methyl tert-butyl Ether	25000
7/02/02		Methyl tert-butyl Ether	6000
10/05/02		Methyl tert-butyl Ether	3400
1/17/03		Methyl tert-butyl Ether tert-Butanol	6800 1100
4/17/03		Methyl-tert-butyl Ether	3100
7/24/03		Methyl tert-butyl Ether	1400
10/22/03		Methyl tert-butyl Ether	580

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

Date	Well No.	Hydrocarbons Fuel Oxygenates	Concentration (µg/L)
1/17/04	MW-2	Methyl tert-butyl Ether tert-Butanol (TBA)	1800 250
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	200000
5/29/01		Methyl tert-butyl Ether	78000
8/22/01		Methyl tert-butyl Ether	98000
12/06/01		Methyl tert-butyl Ether	94000
3/25/02		Methyl tert-butyl Ether	6200
7/02/02		Methyl tert-butyl Ether	67000
10/05/02		Methyl tert-butyl Ether Methylene Chloride	55000 7000
1/17/03		Methyl tert-butyl Ether	49000
4/17/03		Methyl-tert-butyl Ether	38000
7/24/03		Methyl tert-butyl Ether	31000
10/22/03		Methyl tert-butyl Ether	29000
1/17/04		Methyl tert-butyl Ether	23000
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
8/22/01		Methyl tert-butyl Ether	28
12/06/01		Methyl tert-butyl Ether	25
3/25/02		Methyl tert-butyl Ether	14
7/02/02		None Detected	<5
10/05/02		Methyl tert-butyl Ether	53
1/17/03		Methyl tert-butyl Ether	23

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

Date	Well No.	Hydrocarbons Fuel Oxygenates	Concentration (µg/L)
4/17/03	MW-4	Methyl-t-butyl Ether	89
		Benzene	3
		Toluene	2.8
		Ethylbenzene	1.1
		p,m-Xylenes	2
		o-Xylene	0.84
		Naphthalene	0.81
7/24/03		Methyl t-butyl Ether	71
		tert-Butanol (TBA)	11
10/22/03		Methyl tert-butyl Ether	81
1/17/04		Methyl tert-butyl Ether	65
5/24/00	MW-5	Benzene	180
		Ethylbenzene	140
		Isopopylbenzene	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
		Isopopylbenzene	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

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

Date	Well No.	Hydrocarbons Fuel Oxygenates	Concentration (µg/L)
2/22/01	MW-5	Benzene	100
		Ethylbenzene	94
		Methyl tert-butyl Ether	700
		n-Propylbenzene	160
		Naphthalene	90
5/29/01		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
3/25/02		Methyl tert-butyl Ether	2200
		Benzene	170
		Propylbenzene	180
7/02/02		Methyl tert-butyl Ether	2600
		Propylbenzene	240
10/05/02		Benzene	110
		Methyl tert-butyl Ether	2500
		n-Propylbenzene	230
		Naphthalene	120
1/17/03		Methyl tert-butyl Ether	2000
		n-Propylbenzene	140
		tert-Butanol	310

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

Date	Well No.	Hydrocarbons Fuel Oxygenates	Concentration (µg/L)
4/17/03	MW-5	Methyl-t-butyl Ether Benzene Ethylbenzene Isopropylbenzene n-Propylbenzene sec-Butylbenzene Naphthalene	3500 110 61 71 270 21 140
7/24/03		Methyl t-butyl Ether n-Propylbenzene tert-Butanol (TBA)	3300 400 520
10/22/03		Methyl tert-butyl Ether	6100
1/17/04		Methyl tert-butyl Ether	4200

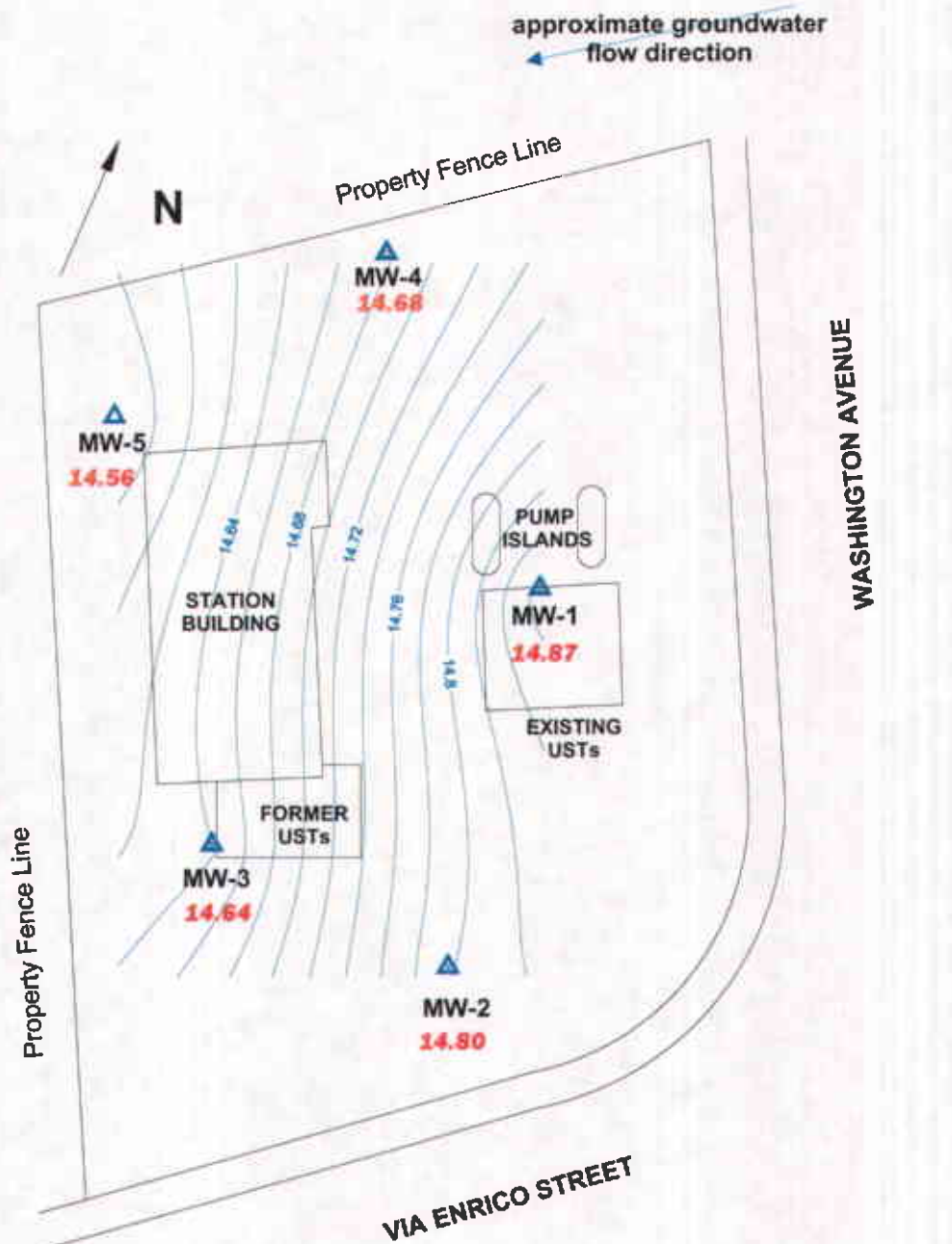
**A P P E N D I X "B"**

**FIGURES**



**ENVIRO SOIL TECH CONSULTANTS**

Figure 1



▲ Monitoring Well

approximate scale in feet

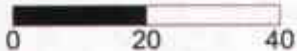
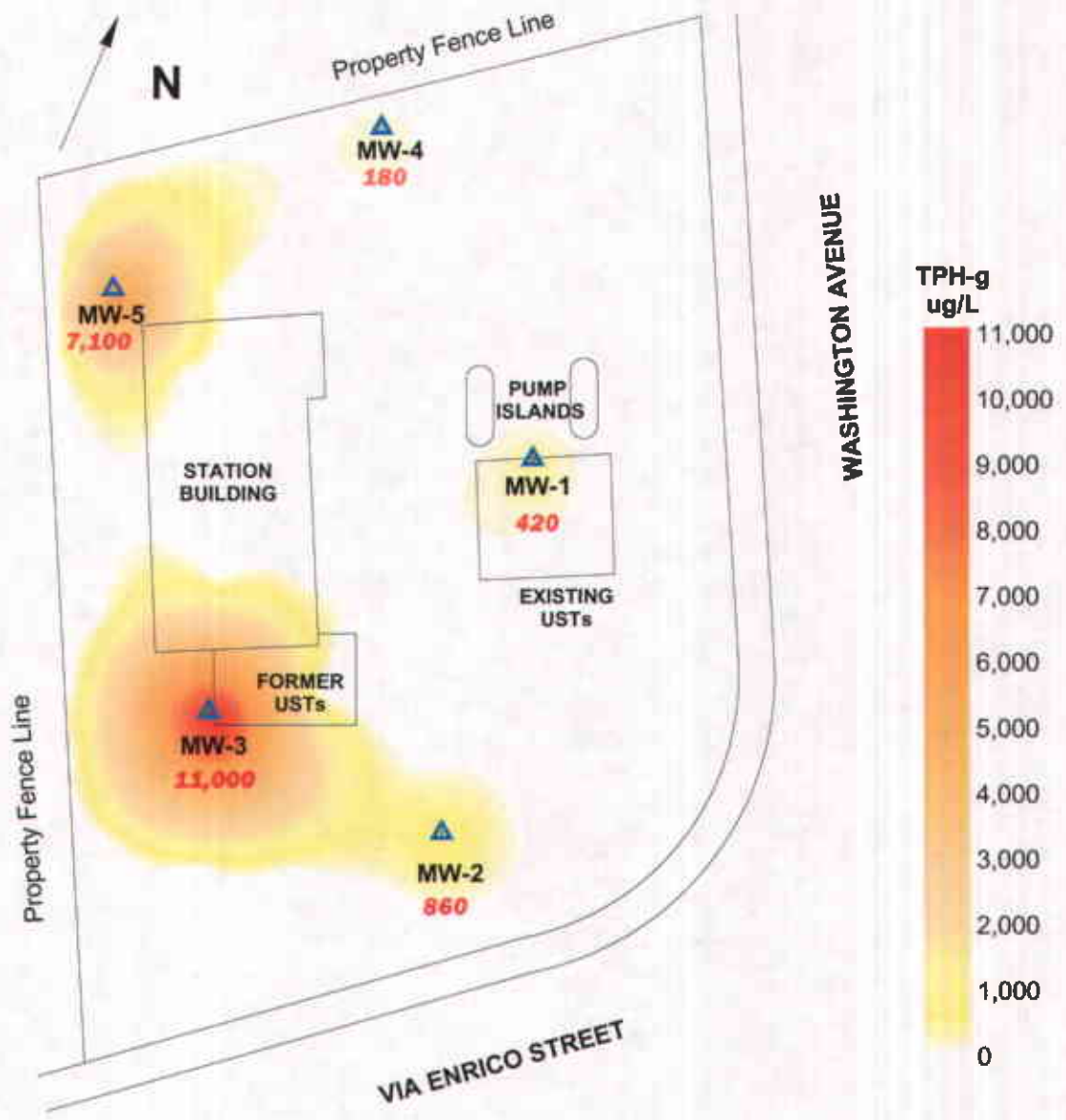


Figure 2: Groundwater elevation contour map.  
January 17, 2004.



▲ Monitoring Well

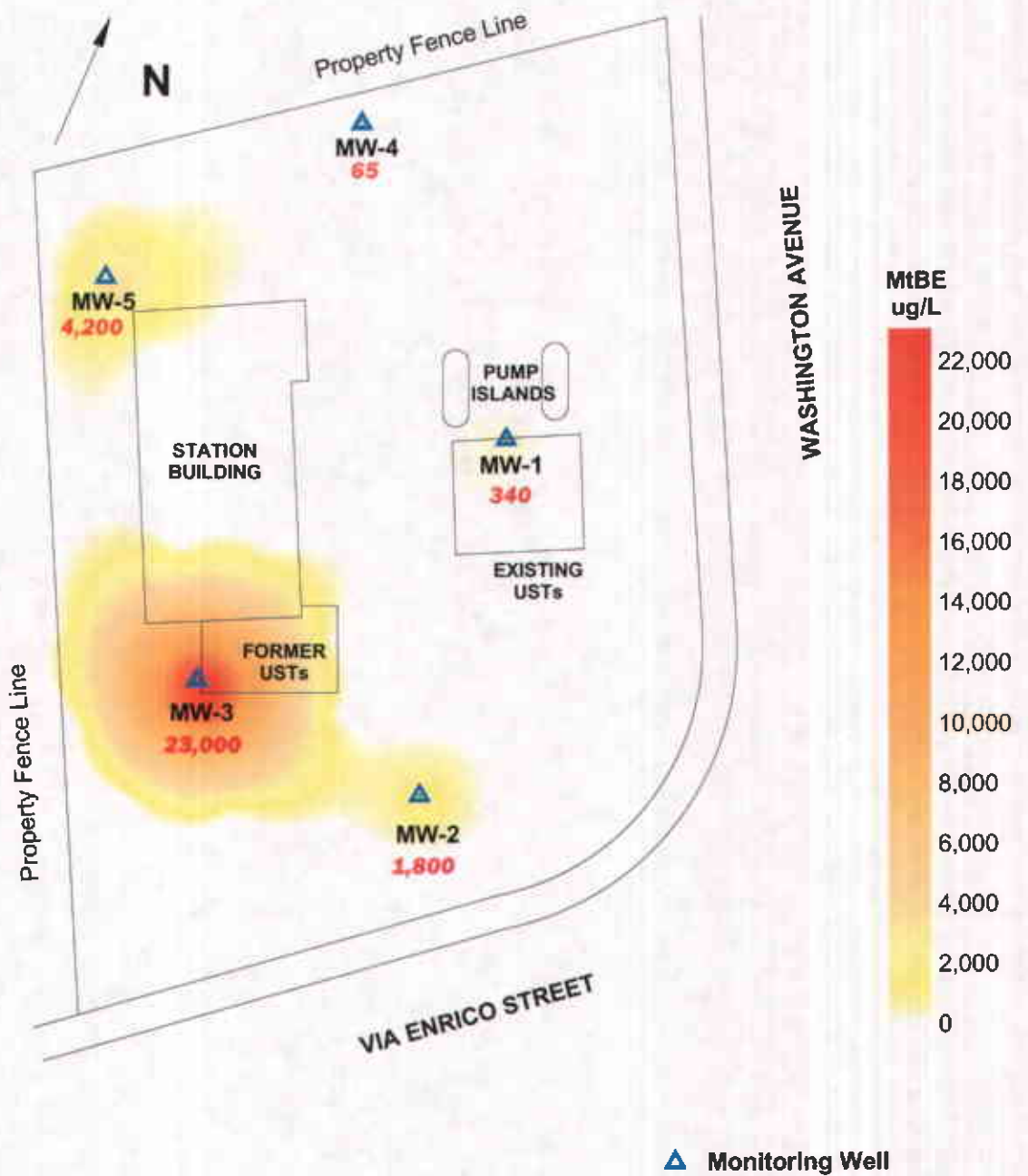
approximate scale in feet  
0 20 40

Figure 3: Contour map of TPH-g concentrations in the groundwater. January 17, 2004.



Figure 4: Map of Benzene concentrations in the groundwater.  
January 17, 2004.





approximate scale in feet



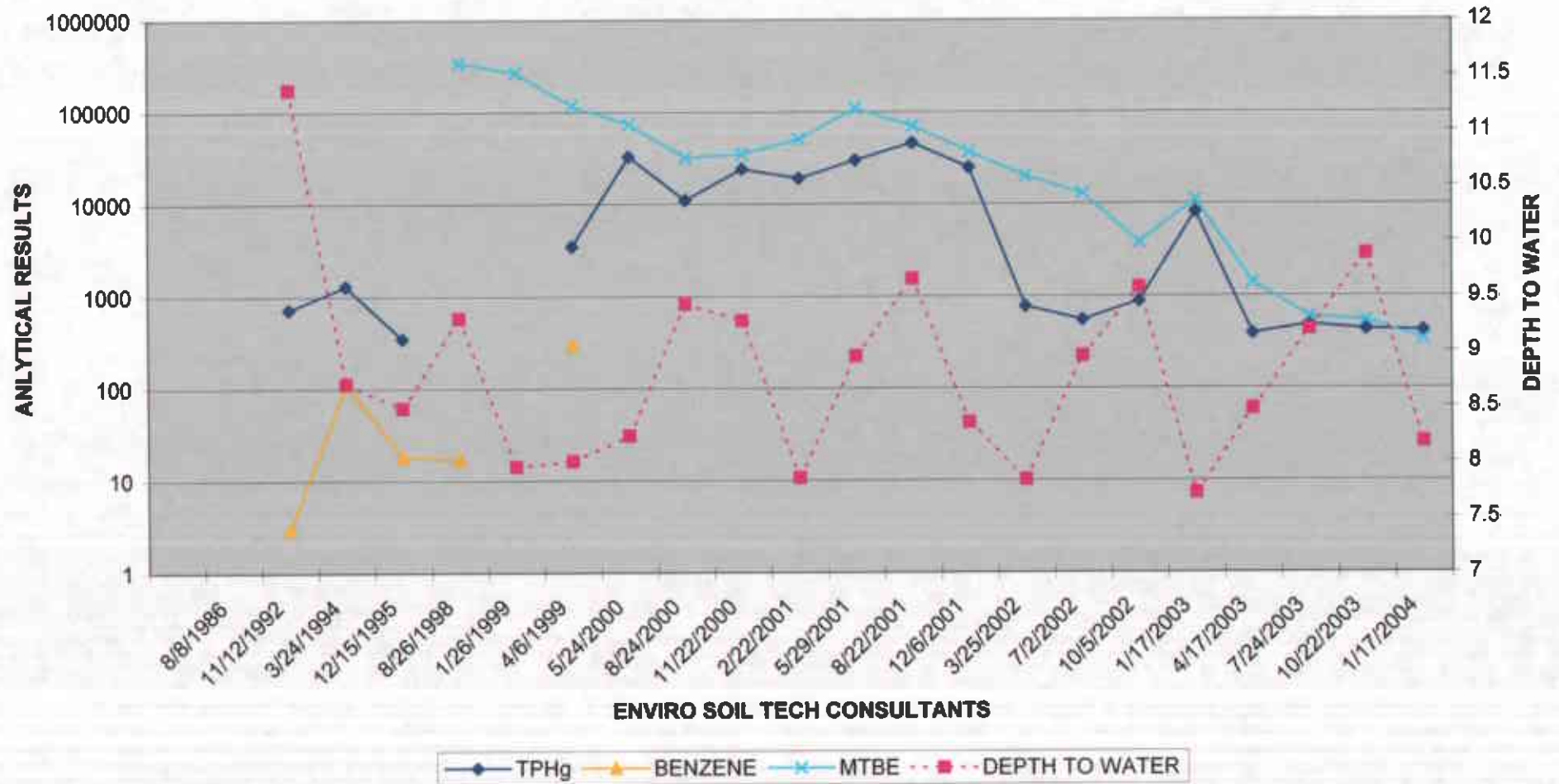
Figure 5: Contour map of MtBE concentrations in the groundwater. January 17, 2004.



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

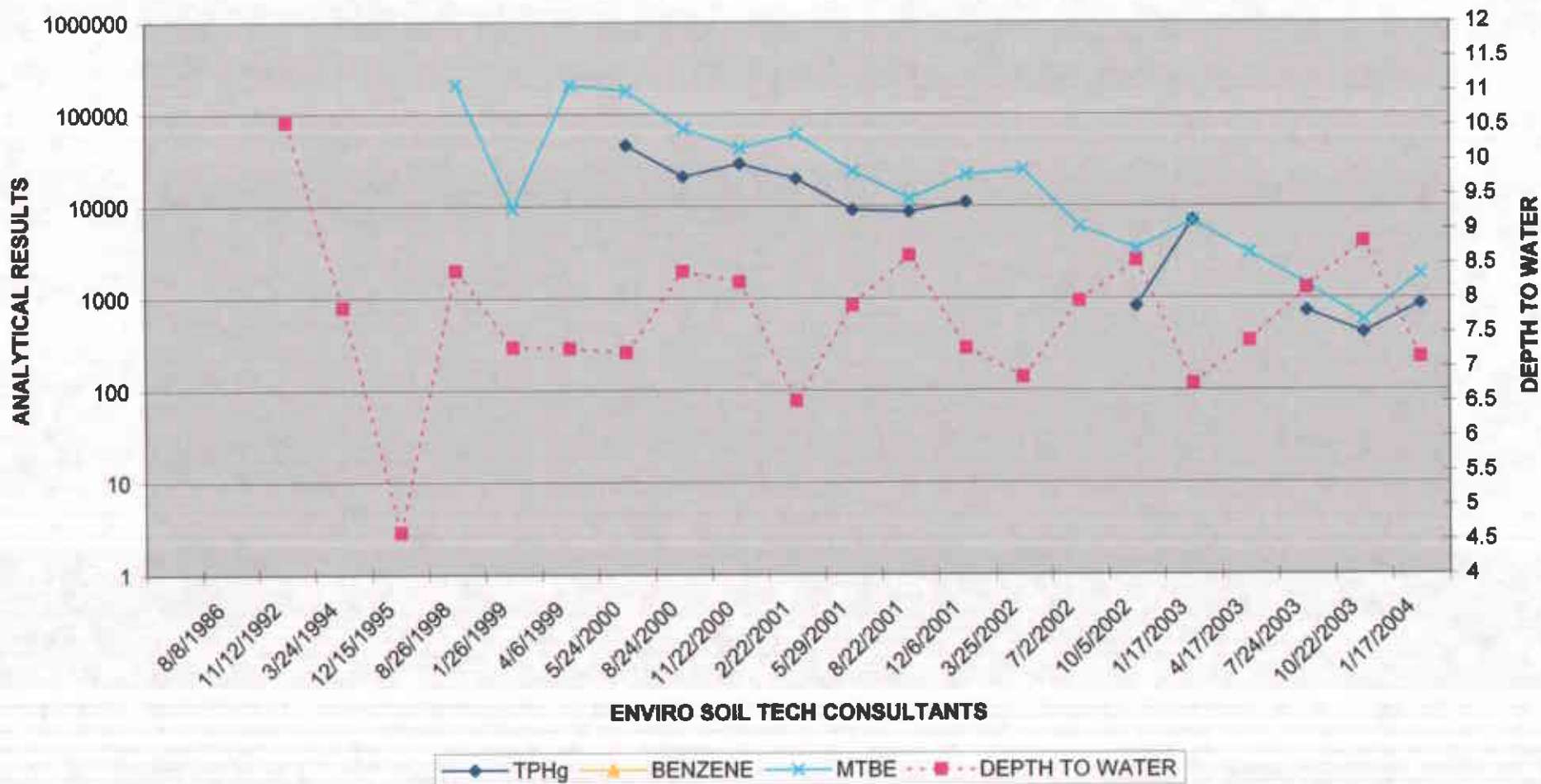
**GRAPHS**

File No.: 12-99-702-SI  
 TPHg, BENZENE & MTBE FOR MW-1 (µg/L)  
 AND DEPTH TO WATER MEASUREMENT (Feet)

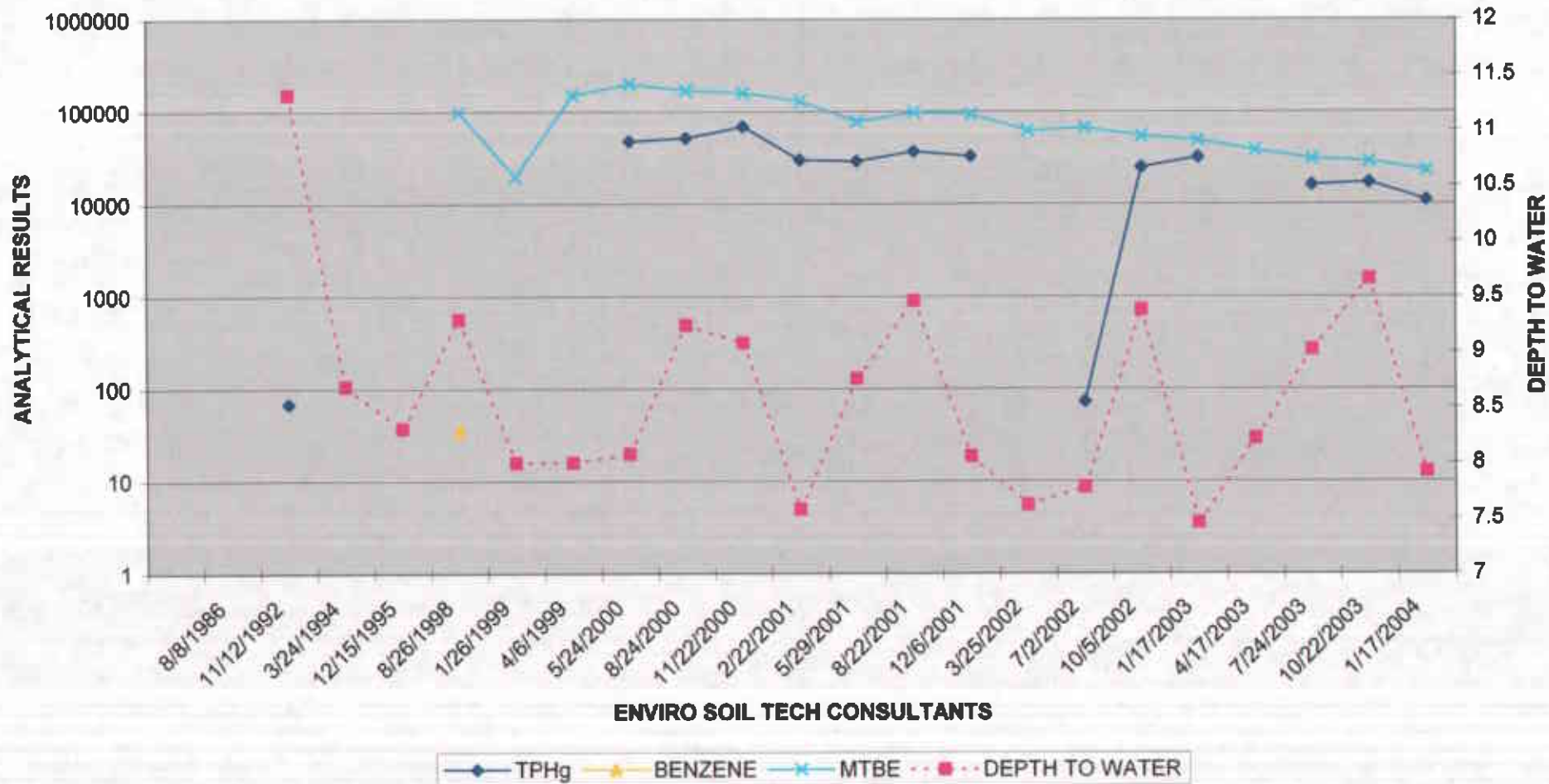


ENVIRO SOIL TECH CONSULTANTS

File No.: 12-99-702-SI  
**TPHg, BENZENE & MTBE RESULTS FOR MW-2 ( $\mu\text{g/L}$ )  
 AND DEPTH TO WATER MEASUREMENT (Feet)**

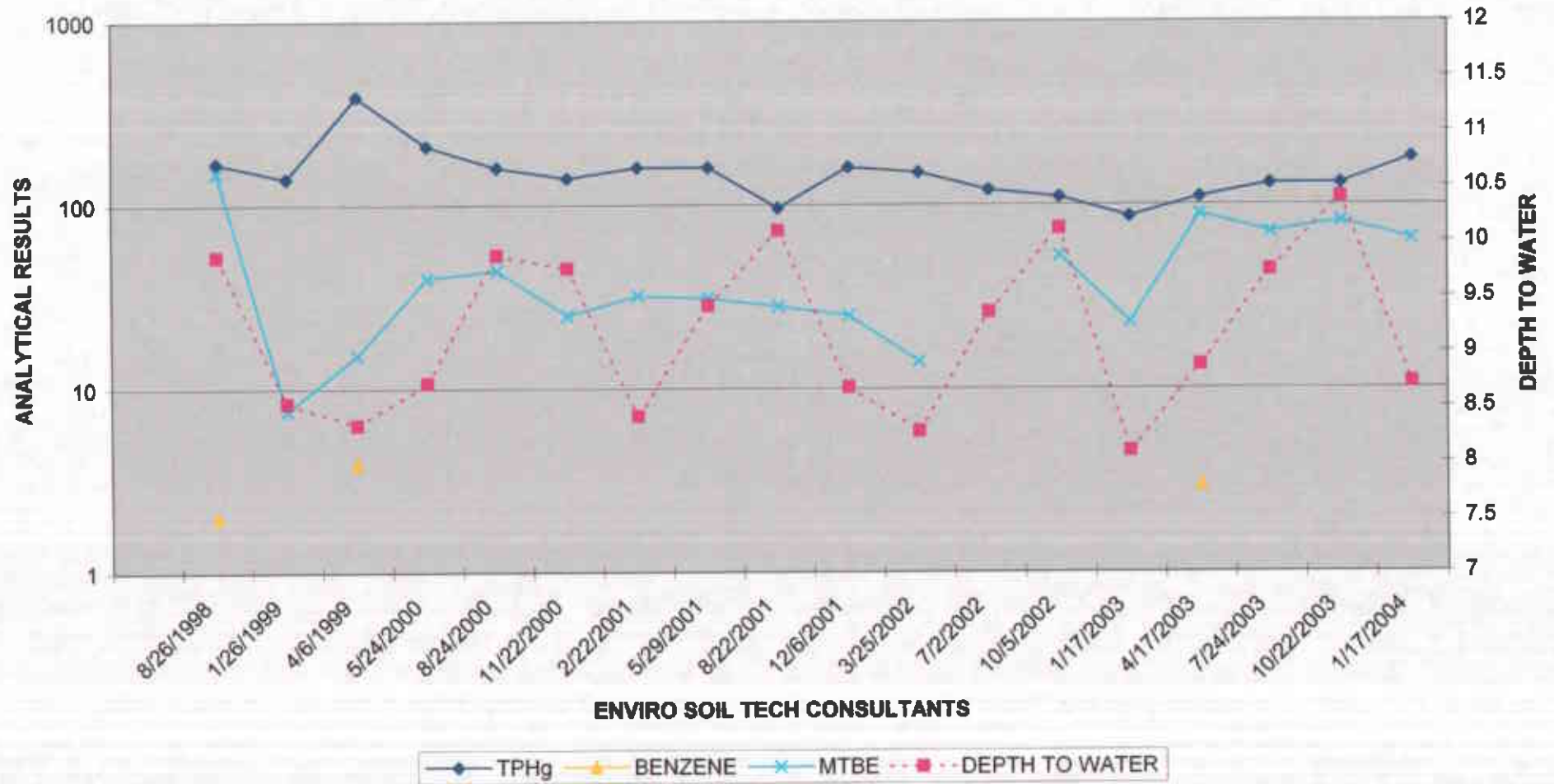


File No.: 12-99-702-SI  
**TPHg, BENZENE & MTBE RESULTS FOR MW-3 ( $\mu\text{g/L}$ )  
 AND DEPTH TO WATER MEASUREMENT (Feet)**



ENVIRO SOIL TECH CONSULTANTS

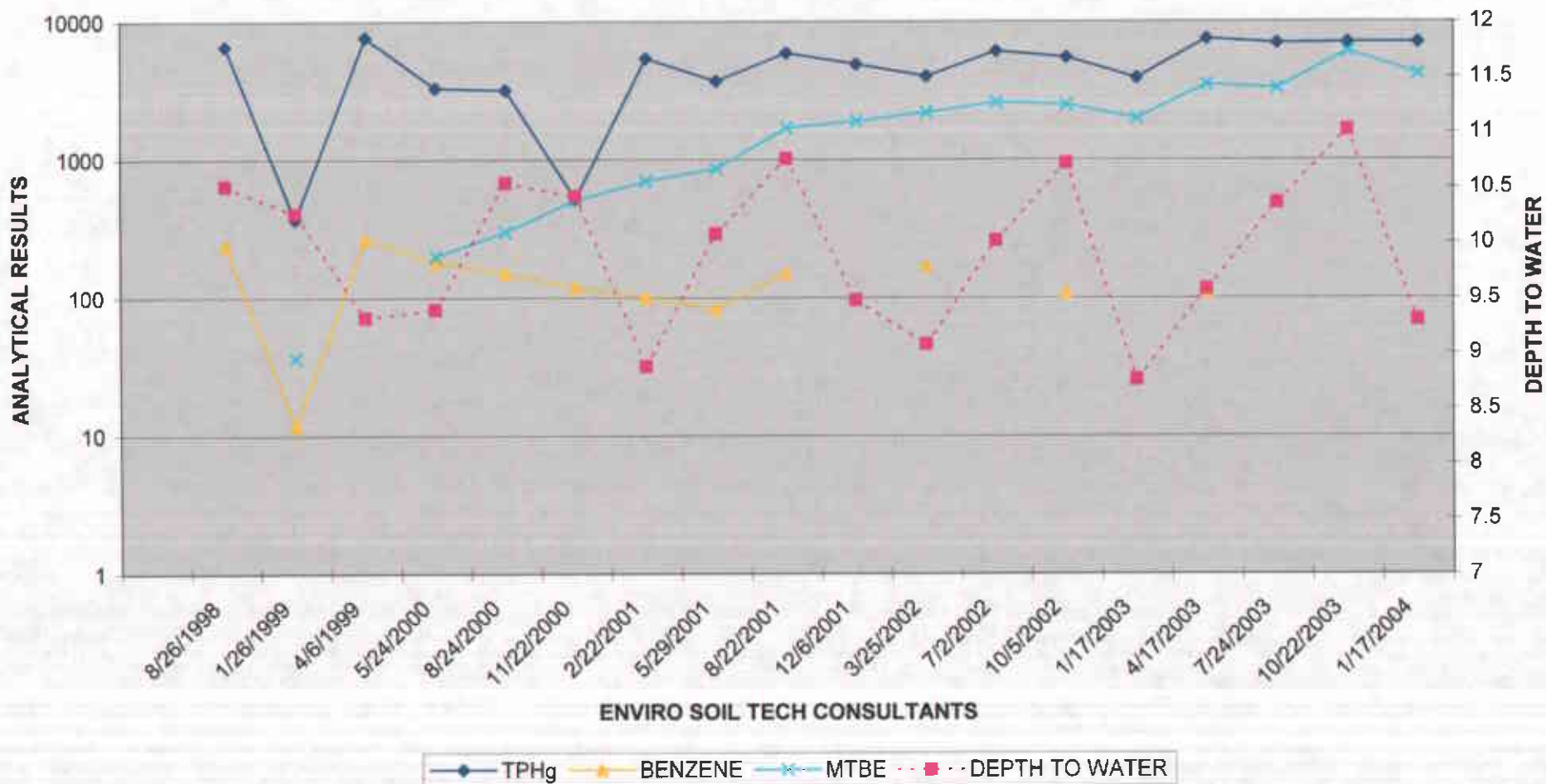
File No.: 12-99-702-SI  
**TPHg, BENZENE & MTBE RESULTS FOR MW-4 (µg/L)  
 AND DEPTH TO WATER MEASUREMENT (Feet)**



ENVIRO SOIL TECH CONSULTANTS



File No.: 12-99-702-SI  
 TPHg, BENZENE & MTBE RESULTS FOR MW-5 (µg/L)  
 AND DEPTH TO WATER MEASUREMENT (Feet)



ENVIRO SOIL TECH CONSULTANTS

File No. 12-99-702-SI

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

**STANDARD OPERATION PROCEDURE**

**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"**  
**LABORATORY REPORT**

**ENVIRO SOIL TECH CONSULTANTS**

# Entech Analytical Labs, Inc.

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

January 23, 2004

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

**Order:** 37460  
**Project Name:** 15595 Washington Ave  
**Project Number:** 12-99-702-SI  
**Project Notes:**

**Date Collected:** 1/17/2004  
**Date Received:** 1/20/2004  
**P.O. Number:** 12-99-702-SI

On January 20, 2004, 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	EDF Deliverables	EDF
	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,



Patti Sandrock  
QA/QC Manager







# Entech Analytical Labs, Inc.

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

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

Date: 1/22/04  
Date Received: 1/20/04  
Project Name: 15595 Washington Ave  
Project Number: 12-99-702-SI  
P.O. Number: 12-99-702-SI  
Sampled By: Client

## Certified Analytical Report

Order ID: 37460

Lab Sample ID: 37460-004

Client Sample ID: MW-4

Sample Time: 11:04 AM

Sample Date: 1/17/04

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	180	x	1	50	50	µg/L	N/A	1/21/04	WGC43046	EPA 8015 MOD (Purgeable)
							Surrogate	Surrogate Recovery		Control Limits (%)
							4-Bromofluorobenzene	99.1		65 - 135

Comment: TPH as Gasoline value contains high concentration of MTBE and atypical gasoline pattern within the TPH as Gasoline quantitation range .

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

      
Analyst

      
Date

      
Supervisor

      
Date



# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Frank Hamedi

Date: 1/23/04

Date Received: 1/20/04

Project Name: 15595 Washington Ave

Project Number: 12-99-702-SI

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

Sampled By: Client

## Certified Analytical Report

Order ID: 37460

Lab Sample ID: 37460-001

Client Sample ID: MW-1

Sample Time: 12:03 PM

Sample Date: 1/17/04

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1,2-Tetrachloroethane	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
1,1,1-Trichloroethane	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
1,1,2-Trichloroethane	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
1,1-Dichloroethane	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
1,1-Dichloroethene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
1,1-Dichloropropene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
1,2,3-Trichlorobenzene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
1,2,3-Trichloropropane	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
1,2,4-Trichlorobenzene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
1,2,4-Trimethylbenzene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dibromo-3-Chloropropane	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dibromoethane (EDB)	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dichlorobenzene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dichloroethane	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dichloropropane	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
1,3,5-Trimethylbenzene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
1,3-Dichlorobenzene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
1,3-Dichloropropane	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
1,4-Dichlorobenzene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
1,4-Dioxane	ND		5	50	250	µg/L	1/22/04	WMS110475	EPA 8260B
2,2-Dichloropropane	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
2-Butanone (MEK)	ND		5	20	100	µg/L	1/22/04	WMS110475	EPA 8260B
2-Chloroethyl-vinyl Ether	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
2-Chlorotoluene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
2-Hexanone	ND		5	20	100	µg/L	1/22/04	WMS110475	EPA 8260B
4-Chlorotoluene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
4-Methyl-2-Pentanone(MIBK)	ND		5	20	100	µg/L	1/22/04	WMS110475	EPA 8260B
Acetone	ND		5	100	500	µg/L	1/22/04	WMS110475	EPA 8260B
Acrylonitrile	ND		5	20	100	µg/L	1/22/04	WMS110475	EPA 8260B
Benzene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Bromobenzene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Bromochloromethane	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Bromodichloromethane	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Bromoform	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Bromomethane	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Carbon Disulfide	ND		5	15	75	µg/L	1/22/04	WMS110475	EPA 8260B
Carbon Tetrachloride	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Chlorobenzene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Chloroethane	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Chloroform	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Chloromethane	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
cis-1,2-Dichloroethene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
cis-1,3-Dichloropropene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit



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Phone: (408) 588-0200

Fax: (408) 588-0201

Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Frank Hamedi

Date: 1/23/04

Date Received: 1/20/04

Project Name: 15595 Washington Ave

Project Number: 12-99-702-SI

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

Sampled By: Client

## Certified Analytical Report

Order ID: 37460

Lab Sample ID: 37460-001

Client Sample ID: MW-1

Sample Time: 12:03 PM

Sample Date: 1/17/04

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Dibromochloromethane	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Dibromomethane	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Dichlorodifluoromethane	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Diisopropyl Ether	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Ethyl Benzene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Freon 113	ND		5	10	50	µg/L	1/22/04	WMS110475	EPA 8260B
Hexachlorobutadiene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Isopropanol	ND		5	40	200	µg/L	1/22/04	WMS110475	EPA 8260B
Isopropylbenzene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Methyl-t-butyl Ether	340		5	1	5	µg/L	1/22/04	WMS110475	EPA 8260B
Methylene Chloride	ND		5	20	100	µg/L	1/22/04	WMS110475	EPA 8260B
n-Butylbenzene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
n-Propylbenzene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Naphthalene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
p-Isopropyltoluene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
sec-Butylbenzene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Styrene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
tert-Amyl Methyl Ether	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
tert-Butanol (TBA)	ND		5	10	50	µg/L	1/22/04	WMS110475	EPA 8260B
tert-Butyl Ethyl Ether	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
tert-Butylbenzene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Tetrachloroethene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Tetrahydrofuran	ND		5	20	100	µg/L	1/22/04	WMS110475	EPA 8260B
Toluene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
trans-1,2-Dichloroethene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
trans-1,3-Dichloropropene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Trichloroethene	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Trichlorofluoromethane	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Vinyl Chloride	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B
Xylenes, Total	ND		5	5	25	µg/L	1/22/04	WMS110475	EPA 8260B

### Surrogate

### Surrogate Recovery

### Control Limits (%)

4-Bromofluorobenzene

104.0

68 - 118

Dibromofluoromethane

119.0

57 - 156

Toluene-d8

111.0

77 - 150

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

Analyzed by: [Signature]

Reviewed by: [Signature]

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Frank Hamedi

Date: 1/23/04

Date Received: 1/20/04

Project Name: 15595 Washington Ave

Project Number: 12-99-702-SI

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

Sampled By: Client

## Certified Analytical Report

Order ID: 37460

Lab Sample ID: 37460-002

Client Sample ID: MW-2

Sample Time: 1:06 PM

Sample Date: 1/17/04

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1,2-Tetrachloroethane	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
1,1,1-Trichloroethane	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
1,1,2-Trichloroethane	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
1,1-Dichloroethane	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
1,1-Dichloroethene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
1,1-Dichloropropene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
1,2,3-Trichlorobenzene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
1,2,3-Trichloropropane	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
1,2,4-Trichlorobenzene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
1,2,4-Trimethylbenzene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dibromo-3-Chloropropane	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dibromoethane (EDB)	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dichlorobenzene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dichloroethane	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dichloropropane	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
1,3,5-Trimethylbenzene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
1,3-Dichlorobenzene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
1,3-Dichloropropane	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
1,4-Dichlorobenzene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
1,4-Dioxane	ND		20	50	1000	µg/L	1/22/04	WMS110475	EPA 8260B
2,2-Dichloropropane	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
2-Butanone (MEK)	ND		20	20	400	µg/L	1/22/04	WMS110475	EPA 8260B
2-Chloroethyl-vinyl Ether	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
2-Chlorotoluene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
2-Hexanone	ND		20	20	400	µg/L	1/22/04	WMS110475	EPA 8260B
4-Chlorotoluene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
4-Methyl-2-Pentanone(MIBK)	ND		20	20	400	µg/L	1/22/04	WMS110475	EPA 8260B
Acetone	ND		20	100	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Acrylonitrile	ND		20	20	400	µg/L	1/22/04	WMS110475	EPA 8260B
Benzene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Bromobenzene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Bromochloromethane	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Bromodichloromethane	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Bromoform	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Bromomethane	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Carbon Disulfide	ND		20	15	300	µg/L	1/22/04	WMS110475	EPA 8260B
Carbon Tetrachloride	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Chlorobenzene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Chloroethane	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Chloroform	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Chloromethane	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
cis-1,2-Dichloroethene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
cis-1,3-Dichloropropene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Frank Hamedi

Date: 1/23/04

Date Received: 1/20/04

Project Name: 15595 Washington Ave

Project Number: 12-99-702-SI

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

Sampled By: Client

## Certified Analytical Report

Order ID: 37460

Lab Sample ID: 37460-002

Client Sample ID: MW-2

Sample Time: 1:06 PM

Sample Date: 1/17/04

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Dibromochloromethane	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Dibromomethane	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Dichlorodifluoromethane	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Diisopropyl Ether	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Ethyl Benzene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Freon 113	ND		20	10	200	µg/L	1/22/04	WMS110475	EPA 8260B
Hexachlorobutadiene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Isopropanol	ND		20	40	800	µg/L	1/22/04	WMS110475	EPA 8260B
Isopropylbenzene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Methyl-t-butyl Ether	1800		20	1	20	µg/L	1/22/04	WMS110475	EPA 8260B
Methylene Chloride	ND		20	20	400	µg/L	1/22/04	WMS110475	EPA 8260B
n-Butylbenzene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
n-Propylbenzene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Naphthalene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
p-Isopropyltoluene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
sec-Butylbenzene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Styrene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
tert-Amyl Methyl Ether	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
tert-Butanol (TBA)	250		20	10	200	µg/L	1/22/04	WMS110475	EPA 8260B
tert-Butyl Ethyl Ether	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
tert-Butylbenzene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Tetrachloroethene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Tetrahydrofuran	ND		20	20	400	µg/L	1/22/04	WMS110475	EPA 8260B
Toluene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
trans-1,2-Dichloroethene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
trans-1,3-Dichloropropene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Trichloroethene	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Trichlorofluoromethane	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Vinyl Chloride	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B
Xylenes, Total	ND		20	5	100	µg/L	1/22/04	WMS110475	EPA 8260B

### Surrogate

### Surrogate Recovery

### Control Limits (%)

4-Bromofluorobenzene

94.4

68 - 118

Dibromofluoromethane

149.0

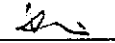
57 - 156

Toluene-d8

113.0

77 - 150

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

Analyzed by: 

Reviewed by: 

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Frank Hamedi

Date: 1/23/04

Date Received: 1/20/04

Project Name: 15595 Washington Ave

Project Number: 12-99-702-SI

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

Sampled By: Client

## Certified Analytical Report

Order ID: 37460

Lab Sample ID: 37460-003

Client Sample ID: MW-3

Sample Time: 2:01 PM

Sample Date: 1/17/04

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1,2-Tetrachloroethane	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
1,1,1-Trichloroethane	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
1,1,2-Trichloroethane	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
1,1-Dichloroethane	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
1,1-Dichloroethene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
1,1-Dichloropropene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
1,2,3-Trichlorobenzene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
1,2,3-Trichloropropane	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
1,2,4-Trichlorobenzene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
1,2,4-Trimethylbenzene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dibromo-3-Chloropropane	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dibromoethane (EDB)	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dichlorobenzene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dichloroethane	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dichloropropane	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
1,3,5-Trimethylbenzene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
1,3-Dichlorobenzene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
1,3-Dichloropropane	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
1,4-Dichlorobenzene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
1,4-Dioxane	ND		400	50	20000	µg/L	1/22/04	WMS110475	EPA 8260B
2,2-Dichloropropane	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
2-Butanone (MEK)	ND		400	20	8000	µg/L	1/22/04	WMS110475	EPA 8260B
2-Chloroethyl-vinyl Ether	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
2-Chlorotoluene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
2-Hexanone	ND		400	20	8000	µg/L	1/22/04	WMS110475	EPA 8260B
4-Chlorotoluene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
4-Methyl-2-Pentanone(MIBK)	ND		400	20	8000	µg/L	1/22/04	WMS110475	EPA 8260B
Acetone	ND		400	100	40000	µg/L	1/22/04	WMS110475	EPA 8260B
Acrylonitrile	ND		400	20	8000	µg/L	1/22/04	WMS110475	EPA 8260B
Benzene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Bromobenzene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Bromochloromethane	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Bromodichloromethane	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Bromoform	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Bromomethane	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Carbon Disulfide	ND		400	15	6000	µg/L	1/22/04	WMS110475	EPA 8260B
Carbon Tetrachloride	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Chlorobenzene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Chloroethane	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Chloroform	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Chloromethane	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
cis-1,2-Dichloroethene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
cis-1,3-Dichloropropene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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Attn: Frank Hamedi

Date: 1/23/04

Date Received: 1/20/04

Project Name: 15595 Washington Ave

Project Number: 12-99-702-SI

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

Sampled By: Client

## Certified Analytical Report

Order ID: 37460

Lab Sample ID: 37460-003

Client Sample ID: MW-3

Sample Time: 2:01 PM

Sample Date: 1/17/04

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Dibromochloromethane	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Dibromomethane	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Dichlorodifluoromethane	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Diisopropyl Ether	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Ethyl Benzene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Freon 113	ND		400	10	4000	µg/L	1/22/04	WMS110475	EPA 8260B
Hexachlorobutadiene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Isopropanol	ND		400	40	16000	µg/L	1/22/04	WMS110475	EPA 8260B
Isopropylbenzene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Methyl-1-butyl Ether	23000		400	1	400	µg/L	1/22/04	WMS110475	EPA 8260B
Methylene Chloride	ND		400	20	8000	µg/L	1/22/04	WMS110475	EPA 8260B
n-Butylbenzene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
n-Propylbenzene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Naphthalene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
p-Isopropyltoluene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
sec-Butylbenzene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Styrene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
tert-Amyl Methyl Ether	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
tert-Butanol (TBA)	ND		400	10	4000	µg/L	1/22/04	WMS110475	EPA 8260B
tert-Butyl Ethyl Ether	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
tert-Butylbenzene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Tetrachloroethene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Tetrahydrofuran	ND		400	20	8000	µg/L	1/22/04	WMS110475	EPA 8260B
Toluene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
trans-1,2-Dichloroethene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
trans-1,3-Dichloropropene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Trichloroethene	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Trichlorofluoromethane	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Vinyl Chloride	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Xylenes, Total	ND		400	5	2000	µg/L	1/22/04	WMS110475	EPA 8260B

### Surrogate

### Surrogate Recovery

### Control Limits (%)

4-Bromofluorobenzene

93.5

68 - 118

Dibromofluoromethane

150.0

57 - 156

Toluene-d8

113.0

77 - 150

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

Analyzed by: [Signature]

Reviewed by: [Signature]

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Frank Hamedi

Date: 1/23/04

Date Received: 1/20/04

Project Name: 15595 Washington Ave

Project Number: 12-99-702-SI

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

Sampled By: Client

## Certified Analytical Report

Order ID: 37460

Lab Sample ID: 37460-004

Client Sample ID: MW-4

Sample Time: 11:04 AM

Sample Date: 1/17/04

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	1/22/04	WMS110475	EPA 8260B
1,1,1-Trichloroethane	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
1,1,2-Trichloroethane	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
1,1-Dichloroethane	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
1,1-Dichloroethene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
1,1-Dichloropropene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
1,2,3-Trichlorobenzene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
1,2,3-Trichloropropane	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
1,2,4-Trichlorobenzene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
1,2,4-Trimethylbenzene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dibromo-3-Chloropropane	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dibromoethane (EDB)	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dichlorobenzene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dichloroethane	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dichloropropane	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
1,3,5-Trimethylbenzene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
1,3-Dichlorobenzene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
1,3-Dichloropropane	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
1,4-Dichlorobenzene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
1,4-Dioxane	ND		1	50	50	µg/L	1/22/04	WMS110475	EPA 8260B
2,2-Dichloropropane	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
2-Butanone (MEK)	ND		1	20	20	µg/L	1/22/04	WMS110475	EPA 8260B
2-Chloroethyl-vinyl Ether	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
2-Chlorotoluene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
2-Hexanone	ND		1	20	20	µg/L	1/22/04	WMS110475	EPA 8260B
4-Chlorotoluene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
4-Methyl-2-Pentanone(MIBK)	ND		1	20	20	µg/L	1/22/04	WMS110475	EPA 8260B
Acetone	ND		1	100	100	µg/L	1/22/04	WMS110475	EPA 8260B
Acrylonitrile	ND		1	20	20	µg/L	1/22/04	WMS110475	EPA 8260B
Benzene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Bromobenzene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Bromochloromethane	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Bromodichloromethane	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Bromoform	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Bromomethane	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Carbon Disulfide	ND		1	15	15	µg/L	1/22/04	WMS110475	EPA 8260B
Carbon Tetrachloride	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Chlorobenzene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Chloroethane	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Chloroform	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Chloromethane	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
cis-1,2-Dichloroethene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
cis-1,3-Dichloropropene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

# Entech Analytical Labs, Inc.

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

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

Date: 1/23/04  
Date Received: 1/20/04  
Project Name: 15595 Washington Ave  
Project Number: 12-99-702-SI  
P.O. Number: 12-99-702-SI  
Sampled By: Client

## Certified Analytical Report

Order ID: 37460

Lab Sample ID: 37460-004

Client Sample ID: MW-4

Sample Time: 11:04 AM

Sample Date: 1/17/04

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Dibromochloromethane	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Dibromomethane	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Dichlorodifluoromethane	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Diisopropyl Ether	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Ethyl Benzene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Freon 113	ND		1	10	10	µg/L	1/22/04	WMS110475	EPA 8260B
Hexachlorobutadiene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Isopropanol	ND		1	40	40	µg/L	1/22/04	WMS110475	EPA 8260B
Isopropylbenzene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Methyl-t-butyl Ether	65		1	1	1	µg/L	1/22/04	WMS110475	EPA 8260B
Methylene Chloride	ND		1	20	20	µg/L	1/22/04	WMS110475	EPA 8260B
n-Butylbenzene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
n-Propylbenzene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Naphthalene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
p-Isopropyltoluene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
sec-Butylbenzene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Styrene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
tert-Amyl Methyl Ether	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
tert-Butanol (TBA)	ND		1	10	10	µg/L	1/22/04	WMS110475	EPA 8260B
tert-Butyl Ethyl Ether	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
tert-Butylbenzene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Tetrachloroethene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Tetrahydrofuran	ND		1	20	20	µg/L	1/22/04	WMS110475	EPA 8260B
Toluene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
trans-1,2-Dichloroethene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
trans-1,3-Dichloropropene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Trichloroethene	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Trichlorofluoromethane	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Vinyl Chloride	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B
Xylenes, Total	ND		1	5	5	µg/L	1/22/04	WMS110475	EPA 8260B

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	106.0	68 - 118
Dibromofluoromethane	116.0	57 - 156
Toluene-d8	106.0	77 - 150

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

Analyzed by: [Signature]

Reviewed by: [Signature]

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Frank Hamedi

Date: 1/23/04

Date Received: 1/20/04

Project Name: 15595 Washington Ave

Project Number: 12-99-702-SI

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

Sampled By: Client

## Certified Analytical Report

Order ID: 37460

Lab Sample ID: 37460-005

Client Sample ID: MW-5

Sample Time: 10:05 AM

Sample Date: 1/17/04

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1,1,1,2-Tetrachloroethane	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
1,1,1-Trichloroethane	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
1,1,2,2-Tetrachloroethane	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
1,1,2-Trichloroethane	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
1,1-Dichloroethane	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
1,1-Dichloroethene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
1,1-Dichloropropene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
1,2,3-Trichlorobenzene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
1,2,3-Trichloropropane	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
1,2,4-Trichlorobenzene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
1,2,4-Trimethylbenzene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dibromo-3-Chloropropane	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dibromoethane (EDB)	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dichlorobenzene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dichloroethane	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
1,2-Dichloropropane	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
1,3,5-Trimethylbenzene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
1,3-Dichlorobenzene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
1,3-Dichloropropane	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
1,4-Dichlorobenzene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
1,4-Dioxane	ND		100	50	5000	µg/L	1/22/04	WMS110475	EPA 8260B
2,2-Dichloropropane	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
2-Butanone (MEK)	ND		100	20	2000	µg/L	1/22/04	WMS110475	EPA 8260B
2-Chloroethyl-vinyl Ether	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
2-Chlorotoluene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
2-Hexanone	ND		100	20	2000	µg/L	1/22/04	WMS110475	EPA 8260B
4-Chlorotoluene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
4-Methyl-2-Pentanone(MIBK)	ND		100	20	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Acetone	ND		100	100	10000	µg/L	1/22/04	WMS110475	EPA 8260B
Acrylonitrile	ND		100	20	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Benzene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Bromobenzene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Bromochloromethane	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Bromodichloromethane	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Bromoform	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Bromomethane	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Carbon Disulfide	ND		100	15	1500	µg/L	1/22/04	WMS110475	EPA 8260B
Carbon Tetrachloride	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Chlorobenzene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Chloroethane	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Chloroform	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Chloromethane	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
cis-1,2-Dichloroethene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
cis-1,3-Dichloropropene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit



# Entech Analytical Labs, Inc.

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Enviro Soil Tech Consultants

131 Tully Road

San Jose, CA 95111

Attn: Frank Hamedi

Date: 1/23/04

Date Received: 1/20/04

Project Name: 15595 Washington Ave

Project Number: 12-99-702-SI

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

Sampled By: Client

## Certified Analytical Report

Order ID: 37460

Lab Sample ID: 37460-005

Client Sample ID: MW-5

Sample Time: 10:05 AM

Sample Date: 1/17/04

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Dibromochloromethane	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Dibromomethane	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Dichlorodifluoromethane	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Diisopropyl Ether	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Ethyl Benzene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Freon 113	ND		100	10	1000	µg/L	1/22/04	WMS110475	EPA 8260B
Hexachlorobutadiene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Isopropanol	ND		100	40	4000	µg/L	1/22/04	WMS110475	EPA 8260B
Isopropylbenzene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Methyl-t-butyl Ether	4200		100	1	100	µg/L	1/22/04	WMS110475	EPA 8260B
Methylene Chloride	ND		100	20	2000	µg/L	1/22/04	WMS110475	EPA 8260B
n-Butylbenzene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
n-Propylbenzene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Naphthalene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
p-isopropyltoluene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
sec-Butylbenzene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Styrene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
tert-Amyl Methyl Ether	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
tert-Butanol (TBA)	ND		100	10	1000	µg/L	1/22/04	WMS110475	EPA 8260B
tert-Butyl Ethyl Ether	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
tert-Butylbenzene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Tetrachloroethene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Tetrahydrofuran	ND		100	20	2000	µg/L	1/22/04	WMS110475	EPA 8260B
Toluene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
trans-1,2-Dichloroethene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
trans-1,3-Dichloropropene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Trichloroethene	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Trichlorofluoromethane	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Vinyl Chloride	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B
Xylenes, Total	ND		100	5	500	µg/L	1/22/04	WMS110475	EPA 8260B

### Surrogate

### Surrogate Recovery

### Control Limits (%)

4-Bromofluorobenzene

99.5

68 - 118

Dibromofluoromethane

106.0

57 - 156

Toluene-d8

116.0

77 - 150

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

Analyzed by: [Signature]

Reviewed by: [Signature]

Date: 01/23/04

## Certified Analytical Report

**Lab Sample ID: Method Blank**
**Matrix: Liquid**

Test	Parameter	Result	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
EPA 8260B	1,1,1,2-Tetrachloroethane	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	1,1,1-Trichloroethane	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	1,1,2,2-Tetrachloroethane	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	1,1,2-Trichloroethane	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	1,1-Dichloroethane	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	1,1-Dichloroethene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	1,1-Dichloropropene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	1,2,3-Trichlorobenzene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	1,2,3-Trichloropropane	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	1,2,4-Trichlorobenzene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	1,2,4-Trimethylbenzene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	1,2-Dibromo-3-Chloropropane	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	1,2-Dibromoethane (EDB)	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	1,2-Dichlorobenzene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	1,2-Dichloroethane	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	1,2-Dichloropropane	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	1,3,5-Trimethylbenzene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	1,3-Dichlorobenzene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	1,3-Dichloropropane	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	1,4-Dichlorobenzene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	1,4-Dioxane	ND	1	50	50	µg/L	1/22/2004	WMS110475	EPA 8260B
	2,2-Dichloropropane	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	2-Butanone (MEK)	ND	1	20	20	µg/L	1/22/2004	WMS110475	EPA 8260B
	2-Chloroethyl-vinyl Ether	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	2-Chlorotoluene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	2-Hexanone	ND	1	20	20	µg/L	1/22/2004	WMS110475	EPA 8260B
	4-Chlorotoluene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	4-Methyl-2-Pentanone(MIBK)	ND	1	20	20	µg/L	1/22/2004	WMS110475	EPA 8260B
	Acetone	ND	1	100	100	µg/L	1/22/2004	WMS110475	EPA 8260B
	Acrylonitrile	ND	1	20	20	µg/L	1/22/2004	WMS110475	EPA 8260B
	Benzene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	Bromobenzene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	Bromochloromethane	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
Bromodichloromethane	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B	
Bromoform	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B	
Bromomethane	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B	
Carbon Disulfide	ND	1	15	15	µg/L	1/22/2004	WMS110475	EPA 8260B	
Carbon Tetrachloride	ND	1	5	5	µg/L	1/22/2004	WMS110475	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)



Patti Sandrock, QA/QC Manager

Date: 01/23/04

## Certified Analytical Report

**Lab Sample ID: Method Blank**
**Matrix: Liquid**

Test	Parameter	Result	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
EPA 8260B	Chlorobenzene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	Chloroethane	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	Chloroform	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	Chloromethane	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	cis-1,2-Dichloroethene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	cis-1,3-Dichloropropene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	Dibromochloromethane	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	Dibromomethane	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	Dichlorodifluoromethane	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	Diisopropyl Ether	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	Ethyl Benzene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	Freon 113	ND	1	10	10	µg/L	1/22/2004	WMS110475	EPA 8260B
	Hexachlorobutadiene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	Isopropanol	ND	1	40	40	µg/L	1/22/2004	WMS110475	EPA 8260B
	Isopropylbenzene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	Methyl-t-butyl Ether	ND	1	1	1	µg/L	1/22/2004	WMS110475	EPA 8260B
	Methylene Chloride	ND	1	20	20	µg/L	1/22/2004	WMS110475	EPA 8260B
	n-Butylbenzene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	n-Propylbenzene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	Naphthalene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	p-Isopropyltoluene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	sec-Butylbenzene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	Styrene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	tert-Amyl Methyl Ether	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	tert-Butanol (TBA)	ND	1	10	10	µg/L	1/22/2004	WMS110475	EPA 8260B
	tert-Butyl Ethyl Ether	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	tert-Butylbenzene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	Tetrachloroethene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	Tetrahydrofuran	ND	1	20	20	µg/L	1/22/2004	WMS110475	EPA 8260B
	Toluene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	trans-1,2-Dichloroethene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	trans-1,3-Dichloropropene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	Trichloroethene	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
	Trichlorofluoromethane	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B
Vinyl Chloride	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B	
Xylenes, Total	ND	1	5	5	µg/L	1/22/2004	WMS110475	EPA 8260B	

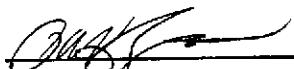
DF = Dilution Factor

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

  
 Patti Sandrock, QA/QC Manager

Page 2 of 3

Date: 01/23/04

## Certified Analytical Report

Lab Sample ID: Method Blank

Matrix: Liquid

Test	Parameter	Result	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
	Surrogate	Surrogate Recovery		Control Limits (%)					
	4-Bromofluorobenzene	104.0		68	- 118				
	Dibromofluoromethane	117.0		57	- 156				
	Toluene-d8	117.0		77	- 150				

DF = Dilution Factor

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PQL = Practical Quantitation Limit

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

  
Patti Sandrock, QA/QC Manager

## Quality Control Results Summary

QC Batch #: WMS110475  
 Matrix: Liquid

Units:  $\mu\text{g/L}$   
 Date Analyzed: 1/22/2004

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		14.8	LCS	74.0			60.0 - 132.0
Benzene	EPA 8260B	ND		20		23.3	LCS	116.5			77.0 - 154.0
Chlorobenzene	EPA 8260B	ND		20		18.4	LCS	92.0			66.0 - 141.0
Methyl-t-butyl Ether	EPA 8260B	ND		20		15.7	LCS	78.5			58.0 - 127.0
Toluene	EPA 8260B	ND		20		19.2	LCS	96.0			47.0 - 137.0
Trichloroethene	EPA 8260B	ND		20		19.2	LCS	96.0			57.0 - 159.0
<b>Surrogate Recovery Summary</b>											
<b>Surrogate</b>		<b>Surrogate Recovery</b>			<b>Control Limits (%)</b>						
4-Bromofluorobenzene		97.4			68 - 118						
Dibromofluoromethane		69.2			57 - 156						
Toluene-d8		92.2			77 - 150						
<b>Test: EPA 8260B</b>											
1,1-Dichloroethene	EPA 8260B	ND		20		16.9	LCSD	84.5	13.25	25.00	60.0 - 132.0
Benzene	EPA 8260B	ND		20		26.4	LCSD	132.0	12.47	25.00	77.0 - 154.0
Chlorobenzene	EPA 8260B	ND		20		20.1	LCSD	100.5	8.83	25.00	66.0 - 141.0
Methyl-t-butyl Ether	EPA 8260B	ND		20		16.9	LCSD	84.5	7.36	25.00	58.0 - 127.0
Toluene	EPA 8260B	ND		20		21.2	LCSD	106.0	9.90	25.00	47.0 - 137.0
Trichloroethene	EPA 8260B	ND		20		21.4	LCSD	107.0	10.84	25.00	57.0 - 159.0
<b>Surrogate Recovery Summary</b>											
<b>Surrogate</b>		<b>Surrogate Recovery</b>			<b>Control Limits (%)</b>						
4-Bromofluorobenzene		96.0			68 - 118						
Dibromofluoromethane		71.1			57 - 156						
Toluene-d8		88.9			77 - 150						

Date: 01/22/04

### Certified Analytical Report

Lab Sample ID: Method Blank

Matrix: Liquid

Test	Parameter	Result	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
TPH as Gasoline	TPH as Gasoline	ND	1	50	50	µg/L	1/21/2004	WGC43046	EPA 8015 MOD. (Purgeable)
<b>Surrogate</b>		<b>Surrogate Recovery</b>		<b>Control Limits (%)</b>					
4-Bromofluorobenzene		94.6		65 - 135					


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DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

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

  
Patti Sandrock, QA/QC Manager

## Quality Control Results Summary

QC Batch #: WGC43046  
 Matrix: Liquid

Units:  $\mu\text{g/L}$   
 Date Analyzed: 1/21/2004

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		250		260.8	LCS	104.3			65.0 - 135.0
	<b>Surrogate</b>			<b>Surrogate Recovery</b>			<b>Control Limits (%)</b>				
	4-Bromofluorobenzene			87.6			65 - 135				
<b>Test: TPH as Gasoline</b>											
TPH as Gasoline	EPA 8015 M	ND		250		263.	LCSD	105.2	0.84	25.00	65.0 - 135.0
	<b>Surrogate</b>			<b>Surrogate Recovery</b>			<b>Control Limits (%)</b>				
	4-Bromofluorobenzene			88.8			65 - 135				

CHAIN OF CUSTODY RECORD

PROJ. NO. 12-99-702-SI		NAME 15595 Washington Ave, San Lorenzo			CON-TAINER	ANALYSES REQUESTED TPH EPA 8260B	REMARKS
SAMPLERS: (Signature) Michael Manly							
NO.	DATE	TIME	SOIL	WATER	LOCATION		
1	1/7/04	12 <sup>03</sup>		✓	MW-1	6	✓ ✓ 3M60-001
2		13 <sup>06</sup>		✓	MW-2	6	✓ ✓ 002
3		14 <sup>01</sup>		✓	MW-3	6	✓ ✓ 003
4		11 <sup>04</sup>		✓	MW-4	6	✓ ✓ 004
5	✓	10 <sup>05</sup>		✓	MW-5	6	✓ ✓ 005
Relinquished by: (Signature) Michael Manly		Date / Time 1-20-04 5:05		Received by: (Signature) Ballo		Relinquished by: (Signature)	
Relinquished by: (Signature) Ballo		Date / Time 1-20-04 5:40		Received by: (Signature) Shadeed		Relinquished by: (Signature)	
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time	
						Remarks Please send lab report to Frank Wamede.	



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