

**ED HEMMAT**  
**3840 SAN PABLO AVENUE**  
**EMERYVILLE, CA 94608**

**RECEIVED**

1:44 pm, Jun 05, 2008

Alameda County  
Environmental Health

June 2, 2008

**Ms. Donna Drogos**  
ACHCSA  
1131 Harbor Parkway, Suite 250  
Oakland, California 94502-6577


**SUBJECT: SECOND QUARTER OF 2008 GROUNDWATER  
MONITORING AND SAMPLING REPORT**  
5630 San Pablo Avenue, Oakland, CA

Dear Ms. Drogos:

Enclosed, please find a copy of the May 27, 2008 subject Second Quarter of 2008 Groundwater Monitoring and Sampling Report prepared by my consultant, Enviro Soil Tech Consultants.

I declare, under penalty of perjury, that the information and/or recommendations contained in this report are true and correct to the best of my knowledge.

Sincerely,

  
ED HEMMAT

**SECOND QUARTER OF 2008 GROUNDWATER  
MONITORING & SAMPLING  
FOR THE PROPERTY  
LOCATED AT 5630 SAN PABLO AVENUE  
OAKLAND, CALIFORNIA  
MAY 27, 2008**

**PREPARED FOR:  
MR. ED HEMMAT  
3840 SAN PABLO AVENUE  
EMERYVILLE, CALIFORNIA 94608**

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

**ENVIRO SOIL TECH CONSULTANTS**

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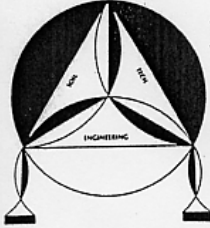
Groundwater Sampling	SOP1
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Accutest Laboratories Report and Chain-of-Custody



## ENVIRO SOIL TECH CONSULTANTS

Environmental & Geotechnical Consultants

131 TULLY ROAD, SAN JOSE, CALIFORNIA 95111

Tel: (408) 297-1500

Fax: (408) 292-2116

May 27, 2008

File No. 12-04-770-GI

**Mr. Ed Hemmat**  
3840 San Pablo Avenue  
Emeryville, California 94608

**SUBJECT: SECOND QUARTER OF 2008 GROUNDWATER  
MONITORING & SAMPLING FOR THE PROPERTY**  
Located at 5630 San Pablo Avenue, in  
Oakland, California


Dear Mr. Hemmat:

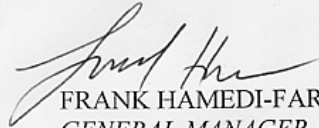
This report presents results from the second quarter 2008 groundwater monitoring and sampling event conducted by Enviro Soil Tech Consultants (ESTC) at the subject site (Figure 1). The depth to groundwater was measured in the five monitoring wells and water samples were collected for laboratory analysis on April 11, 2008.

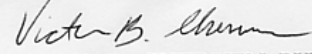
If you have any questions or require additional information, please feel free to contact our office at (408) 297-1500 or via email at [info@envirosoiltech.com](mailto:info@envirosoiltech.com).

Sincerely,

ENVIRO SOIL TECH CONSULTANTS

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

  
FRANK HAMEDI-FARD  
GENERAL MANAGER

  
VICTOR B. CHERVEN, PH.D.  
PROFESSIONAL GEOLOGIST #3475



## **SITE DESCRIPTION**

The site is located on the southeast corner of San Pablo Avenue and Aileen Street in Oakland, California (Figure 1), and is currently being used as a storage site. The site contains one single story building. Underground gasoline storage tanks have not been removed from the site, and are located beneath the sidewalk along San Pablo Avenue. The subject property is located in an area of commercial development.

## **SCOPE OF PRESENT WORK**

The scope of work included in the groundwater monitoring program includes:

- Measure water depths in wells STMW-1 to STMW-5 and note whether petroleum sheen and/or odor are present.
- Purge the monitoring wells of standing water.
- Collect water samples from each well.
- Submit samples to a state-certified laboratory for chemical analyses of Total Petroleum Hydrocarbons as gasoline and diesel (TPHg and TPHd); Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX); Methyl Tertiary Butyl Ether (MTBE) and other fuel oxygenates.
- Review results and prepare a report of the investigation.

## **FIELD ACTIVITIES**

On April 11, 2008, ESTC's staff monitored the five monitoring wells and collected water samples. Depth measurements and other observations were recorded on



the field monitoring sheet. After the depth to groundwater was measured, approximately four to five well volumes of water were bailed from each well in order to purge standing water from the casing and assure that water samples would be representative of surrounding groundwater. The purged water was stored on site in a plastic storage tank. The monitoring data are shown in Tables 1 and 2.

Water samples were collected after purging. A stainless steel bailer was used for sample collection. Water sampling equipment was decontaminated before and after each well was sampled using Tri-sodium Phosphate (TSP) and water wash, followed by double rinsing. The samples were preserved in 40-milliliter glass vials sealed with Teflon-lined screw caps, labeled and placed in a cold ice chest and then transported to Accutest Laboratories, a state-certified laboratory for analysis, with proper chain-of-custody. The sampling was conducted in accordance with ESTC's Standard Operation Procedures (Appendix "D") and ACHCSA-EHS guidelines.

## **DEPTH TO GROUNDWATER AND FLOW DIRECTION**

The depth to groundwater on April 11 ranged between 7 and 9 feet below grade, which is 1 to 1.5 feet deeper than in the first quarter of 2008. This change had no effect on the groundwater flow direction, which continues to be to the south (Figure 2). The hydraulic gradient of 0.042 is only slightly less than the 0.047 ft/ft that was calculated for the first quarter of 2007.

## **ANALYTICAL RESULTS**

The laboratory results are summarized in Table 2 (Appendix "A"), and the laboratory report is contained in Appendix "F". Data for all previous monitoring events are shown in Table 1.

The TPHg concentrations remained below the detection limit in STMW-1 and STMW-2 and returned to below this limit in STMW-3, after rising slightly above it in the first quarter. TPHd was also reported in this well in the first quarter (although the laboratory noted that the hydrocarbons were in the C9-C16 range and the chromatogram was not typical of diesel fuel), but was not detected this quarter. In STMW-4, the concentration jumped from 150 to 1200 µg/L (micrograms per liter), but in STMW-5 it dropped from 1,400 µg/L 240 µg/L. The opposite changes were observed in these two wells in the previous quarter (Table 1). The TPHd concentration was above the detection limit in STMW-4, but the laboratory noted that the chromatogram was more typical of mineral spirits than diesel. The TPHg concentration is contoured in Figure 3.

The concentration of volatile aromatic compounds decreased in all wells this quarter, and except for Xylene in STMW-4, the concentrations were below the detection limit. Benzene concentrations are mapped in Figure 4.

Methyl tertiary butyl ether (MTBE) has been detected at a very low concentration in the past in STMW-1, but the concentration has been declining and was below the detection limit this quarter. We noted previously that MTBE is present only in the vicinity of this well (Figure 5). It is apparent that MTBE is not a contaminant of concern at this site.

## **RECOMMENDATIONS**

In our report for the first quarter of 2008, we concluded that “Overall concentrations are low, and do not pose a serious risk to the environment or the public.” We therefore recommended reducing the monitoring frequency to semi-annual for the

remainder of 2008. To date, we have not received a response to this recommendation, and have continued with the quarterly monitoring program. The results for the second quarter substantiate our previous conclusions that the hydraulic gradient, groundwater flow direction, and hydrocarbon plume are stable. We therefore reiterate our recommendation to reduce the monitoring frequency. Unless the ACHCSA-EHS notifies us or the RP in writing to the contrary, we will implement that recommendation and will schedule the next monitoring event for the fourth quarter of 2008.

A copy of this report should be forwarded to ACHCSA-EHS and the Regional Water Quality Control Board for their review and comments.

## **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.

File No. 12-04-770-GI

May 26, 2008

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. 12-04-770-GI  
May 27, 2008

# **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 to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	TPHd	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs By 82060B
5/19/05a	STMW-1 (41.92)*	20	5-20	6.68K	35.24	No sheen or odor	220	ND <50b	11	18	3.1	20	ND <1	NA	NA	NA	Not Analyzed
4/06/06				4.16*	37.76	No sheen or odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	1.7	ND <0.5	ND <10	ND <0.5	None Detected<0.5
2/05/07				8.38K	33.54	No sheen or odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	5.4	ND <0.5	ND <10	ND <0.5	None Detected<0.5
10/15/07				6.44K	35.48	No sheen or odor	ND <50	ND <52	ND <0.5	ND <0.5	ND <0.5	ND <0.5	4.1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
1/18/08				5.50K	34.42	No sheen or odor	ND <50	ND <50	ND <0.5	0.64	ND <0.5	ND <0.5	2.7	ND <0.5	ND <10	ND <0.5	None Detected<0.5
4/11/08				6.90K	35.02	No sheen or odor	ND <50	ND <52	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
5/19/05a	STMW-2 (41.74)*	20	5.20	7.32K	34.42	No sheen or odor	170	ND <50b	11	18	3.5	21	ND <1	NA	NA	NA	Not Analyzed
4/06/06				4.36*	37.38	Rainbow sheen No odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
2/05/07				8.06K	33.68	No sheen or odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
10/15/07				7.23K	34.51	No sheen or odor	ND <50	ND <58	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
1/18/08				6.32K	35.42	No sheen or odor	ND <50	ND <50	ND <0.5	1	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
4/11/08				7.82K	33.92	Rainbow sheen No odor	ND <50	ND <50j	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
5/19/05a	STMW-3 (42.01)*	20	5-20	8.26K	33.75	No sheen or odor	470	ND <50b	13	18	4.9	22	ND <1	NA	NA	NA	Not Analyzed
4/06/06				6.02K	35.99	Rainbow sheen No odor	2200	ND <50c	ND <0.5	ND <0.5	ND <0.5	ND <0.5	1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
2/05/07				9.32K	32.69	No sheen or odor	ND <50	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
10/15/07				8.20K	33.81	No sheen or odor	ND <50	ND <55	ND <0.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
1/18/08h				7.70K	34.31	Rainbow sheen No odor	820f	390g	ND <2.5	ND <2.5	ND <2.5	ND <2.5	ND <5	ND <2.5	ND <50	ND <2.5	Isopropylbenzene 8.6

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

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	TPHd	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs By 82060B
4/11/08	STMW-3 (42.01)*	20	5-20	8.74K	33.27	Rainbow sheen No odor	ND <50	ND <48	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
5/19/05a	STMW-4 (42.48)*	20	5-20	8.10K	34.38	Rainbow sheen Light petroleum odor	2700	ND <500b	3.2	ND <1	1.6	5	ND <2	ND <1	ND <20	ND <1	Isopropylbenzene 36 n-Propylbenzene 30
4/06/06				6.32K	36.16	Rainbow sheen Petroleum odor	1800	ND <50c	1.5	1.4	1.1	3.5	ND <2	ND <1	ND <20	ND <1	Isopropylbenzene 41 n-Propylbenzene 23
2/05/07				9.24K	33.24	Rainbow sheen Petroleum odor	2500	ND <50d	5	ND <1	1.5	3.5	ND <2	ND <1	ND <20	ND <1	Isopropylbenzene 45 n-Propylbenzene 28
10/15/07				8.06K	34.42	No sheen or odor	510	ND <50e	1.5	0.53	0.54	1.3	ND <1	ND <0.5	ND <10	ND <0.5	Isopropylbenzene 19 n-Propylbenzene 9.5
1/18/08				7.64K	34.84	No sheen or odor	150f	57i	1.3	0.56	ND <0.5	0.58	ND <1	ND <0.5	ND <10	ND <0.5	Isopropylbenzene 2.6
4/11/08				8.78K	33.70	Rainbow sheen No odor	1200f	650k	ND <0.5	ND <0.5	ND <0.5	1.3	ND <1	ND <0.5	ND <10	ND <0.5	Isopropylbenzene 22 n-Propylbenzene 8.4
5/19/05a	STMW-5 (40.84)*	20	5-20	6.58K	34.26	Light rainbow sheen No odor	1500	ND <50b	16	ND <0.5	0.52	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	Isopropylbenzene 13
4/06/06				4.74*	36.10	Rainbow sheen No odor	640	ND <50c	15	ND <0.5	0.91	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	Isopropylbenzene 7.1
2/05/07				7.96K	32.88	No sheen or odor	600	ND <50d	4.5	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	Isopropylbenzene 8.4
10/15/07				6.72K	34.12	No sheen or odor	270	ND <50e	0.83	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
1/18/08h				5.52K	35.32	Rainbow sheen Petroleum odor	1400f	3300g	2.8	3.2	ND <2.5	4	ND <5	ND <2.5	ND <50	ND <2.5	Isopropylbenzene 44 n-Propylbenzene 27
4/11/08				7.06K	33.78	No sheen or odor	140f	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5

**TPHg** - Total Petroleum Hydrocarbons as gasoline  
**BTEX** - Benzene, Toluene, Ethylbenzene, Total Xylenes  
**PCE** - Tetrachloroethene

**TPHd** - Total Petroleum Hydrocarbons as diesel  
**MTBE** - Methyl Tertiary Butyl Ether  
**TBA** - tert-Butanol

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

**TCE** - Trichloroethene

**GW Elev.** - Groundwater Elevation

**NA** - Not Analyzed

\* Groundwater was surveyed based on California Coordinate System 1983, Zone 3. The benchmarks are NGVD 1929 Datum

★ Well screens are submerged

**VOCs** - Volatile Organic Compounds

**Perf.** - Perforation

**ND** - Not Detected (Below Laboratory Reporting Limit)

κ Well screens are not submerged

**a** Water samples for TPHg, BTEX and MTBE analyses were collected on May 23, 2005

**b** Higher boiling gasoline compounds in the diesel range

**c** Hydrocarbon (C8-C36) (C8-C18). No diesel pattern present

**d** Hydrocarbon (C9-C16). No diesel pattern present

**e** Higher boiling gasoline compounds (C9-C16). No diesel pattern

**f** A typical pattern

**g** Not a typical pattern (C9-C16)

**h** Sample was diluted due to high concentration of non-target compounds

**i** Not a typical pattern. Higher boiling gasoline compounds in the diesel range (C9-C16)

**j** Reporting limits raised due to insufficient sample volume (high level of sediment)

**k** Not a typical pattern. Pattern resembles Mineral Spirits (C10-C16)



**TABLE 2**  
**RECENT GROUNDWATER MONITORING DATA (feet)**  
**AND ANALYTICAL RESULTS (µg/L)**

Date	Well No./ Elevation	Depth of Well	Depth to Perf.	Depth to Water	GW Elev.	Well Observation	TPHg	TPHd	B	T	E	X	MTBE	PCE	TBA	TCE	Other VOCs By 82060B
4/11/08	STMW-1 (41.92)*	20	5-20	6.90κ	35.02	No sheen or odor	ND <50	ND <52	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
4/11/08	STMW-2 (41.74)*	20	5.20	7.82κ	33.92	Rainbow sheen No odor	ND <50	ND <50j	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
4/11/08	STMW-3 (42.01)*	20	5-20	8.74κ	33.27	Rainbow sheen No odor	ND <50	ND <48	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5
4/11/08	STMW-4 (42.48)*	20	5-20	8.78κ	33.70	Rainbow sheen No odor	1200f	650k	ND <0.5	ND <0.5	ND <0.5	1.3	ND <1	ND <0.5	ND <10	ND <0.5	Isopropylbenzene 22 n-Propylbenzene 8.4
4/11/08	STMW-5 (40.84)*	20	5-20	7.06κ	33.78	No sheen or odor	140f	ND <50	ND <0.5	ND <0.5	ND <0.5	ND <1	ND <1	ND <0.5	ND <10	ND <0.5	None Detected<0.5

**TPHg** - Total Petroleum Hydrocarbons as gasoline

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

**PCE** - Tetrachloroethene

**TCE** - Trichloroethene

**GW Elev.** - Groundwater Elevation

**ND** - Not Detected (Below Laboratory Reporting Limit)

\* Groundwater was surveyed based on California Coordinate System 1983, Zone 3. The benchmarks are NGVD 1929 Datum

★ Well screens are submerged

f A typical pattern

j Reporting limits raised due to insufficient sample volume (high level of sediment)

k Not a typical pattern. Pattern resembles Mineral Spirits (C10-C16)

**TPHd** - Total Petroleum Hydrocarbons as diesel

**MTBE** - Methyl Tertiary Butyl Ether

**TBA** - tert-Butanol

**VOCs** - Volatile Organic Compounds

**Perf.** - Perforation

κ Well screens are not submerged

**TABLE 3**  
**SUMMARY OF MONITORING WELLS DATA**  
**IN FEET**

Well No.	Well Diameter (inch)	Depth of Well	Depth of Perforation	Depth of Blank	Depth of Cement	Depth of Bentonite	Depth of Sand
STMW-1	2	20	5-20	0-5	0-3½	3½-4	4-20
STMW-2	2	20	5-20	0-5	0-3½	3½-4	4-20
STMW-3	2	20	5-20	0-5	0-3½	3½-4	4-20
STMW-4	2	20	5-20	0-5	0-3½	3½-4	4-20
STMW-5	2	20	5-20	0-5	0-3½	3½-4	4-20

File No. 12-04-770-GI  
May 27, 2008

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

### **FIGURES**

**ENVIRO SOIL TECH CONSULTANTS**



# ENVIRO SOIL TECH CONSULTANTS

Figure 1

Enviro Soil Tech  
Consultants

131 Tully Road  
San Jose, CA 95112

PROJECT

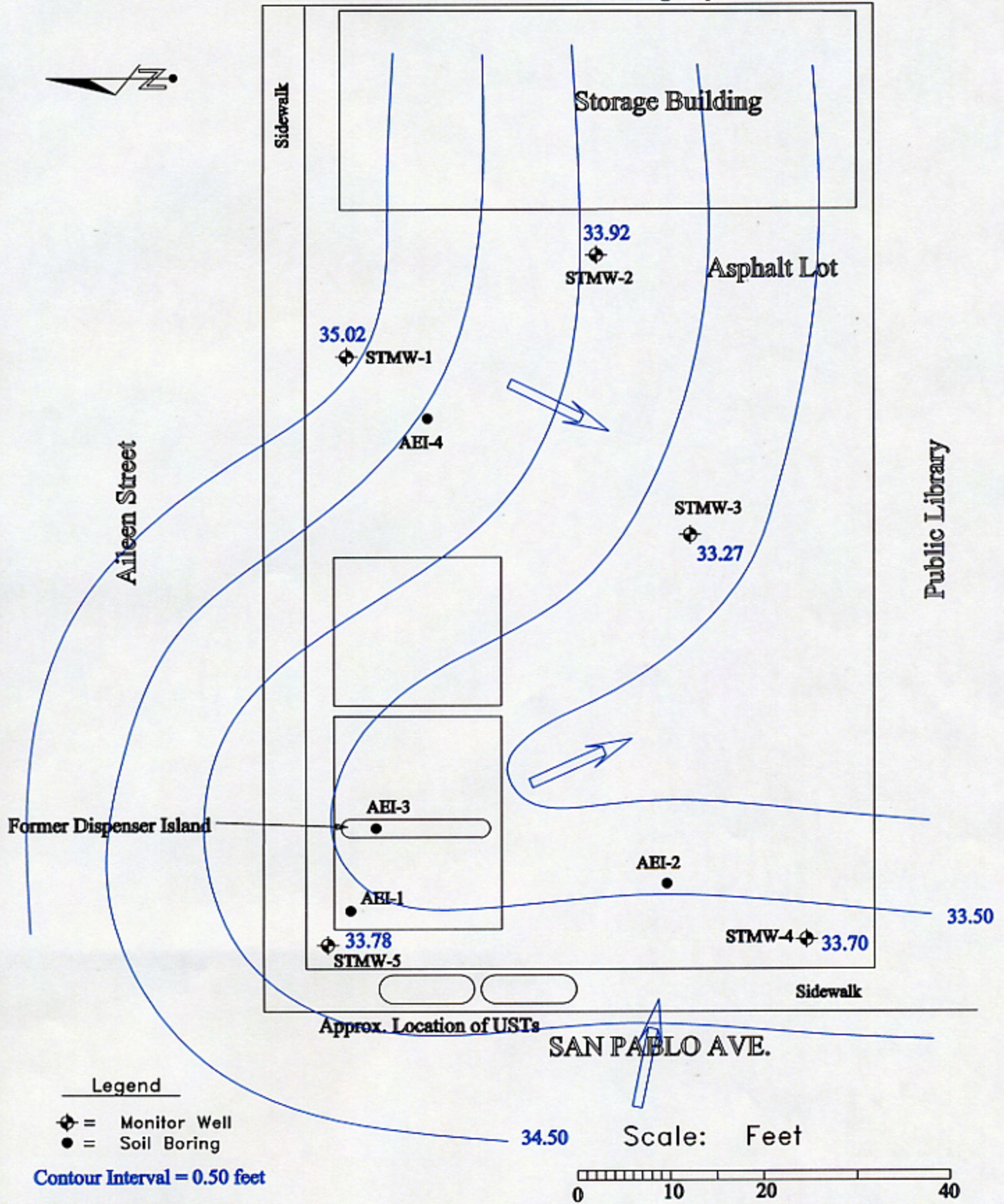
5630 San Pablo Avenue  
Oakland, California

PROJECT # 12-04-770-GI  
DATE: 5/16/2008

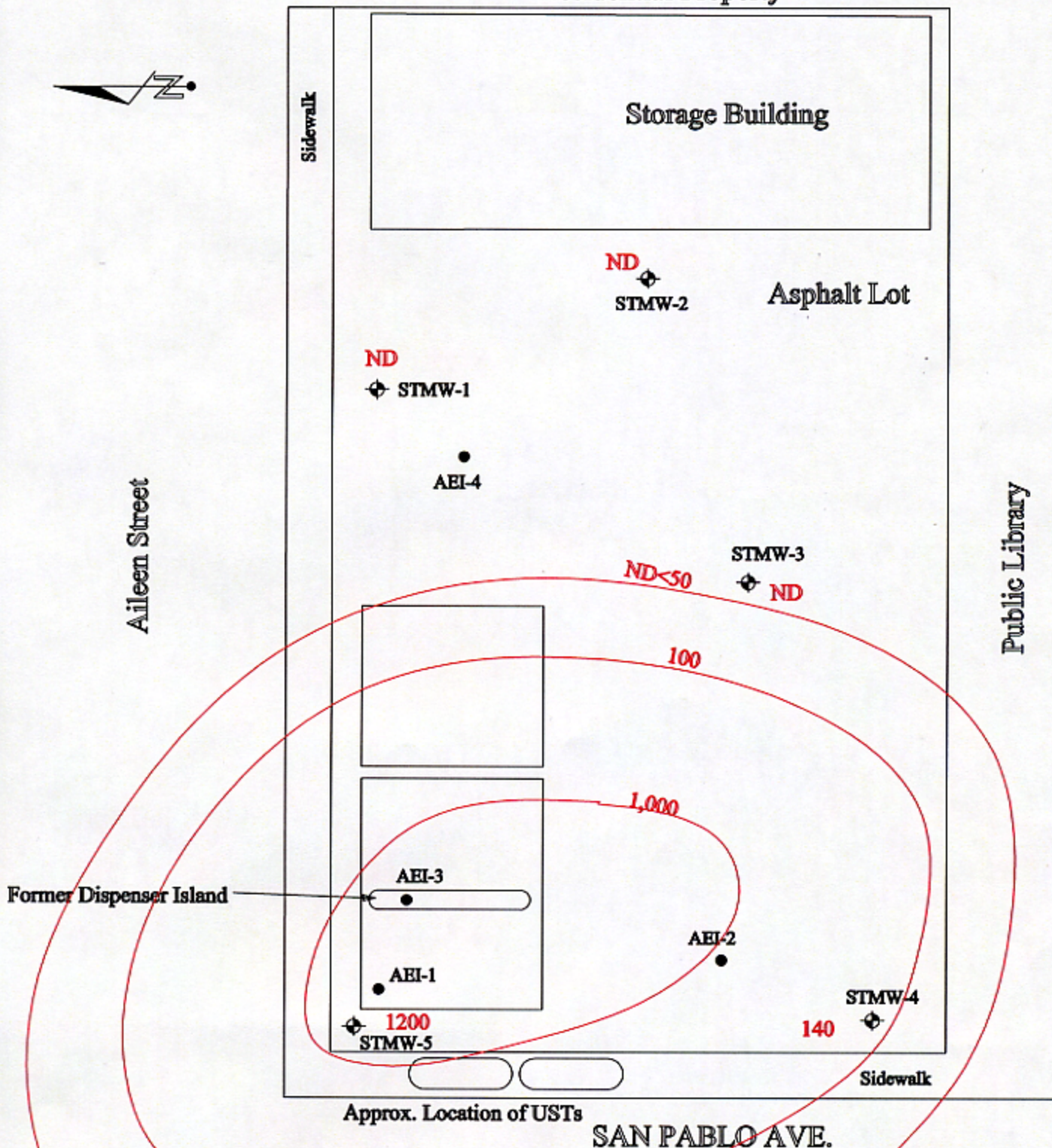
Figure 2

Groundwater Elevation  
April 11, 2008

Residential Property



Residential Property



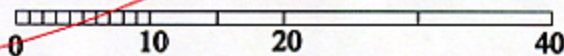
Former Dispenser Island

Legend

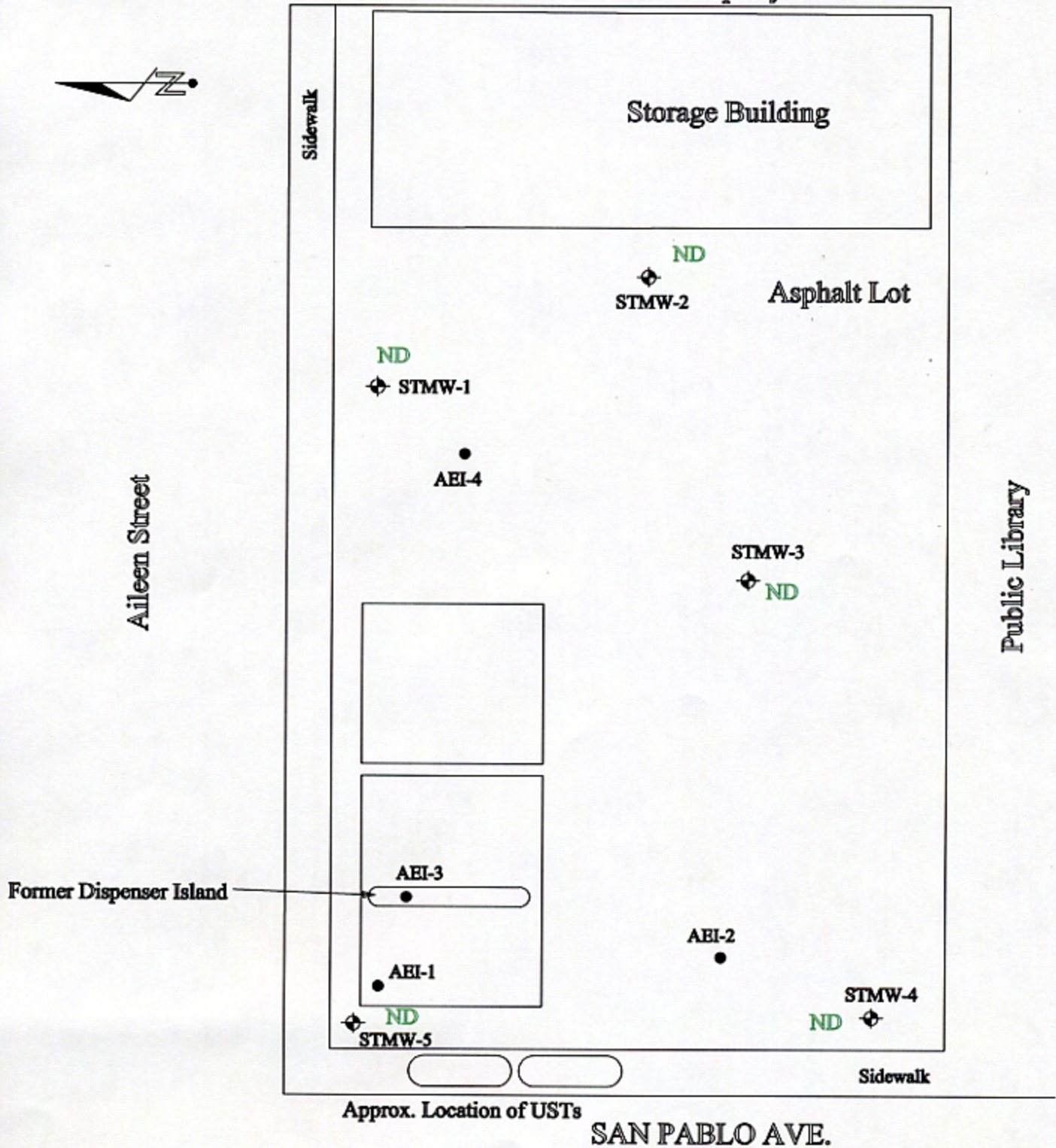
- ◆ = Monitor Well
- = Soil Boring

Contour Interval are Variable in ug/L

Scale: Feet



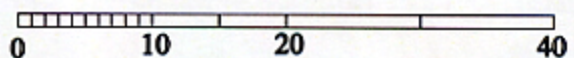
Residential Property



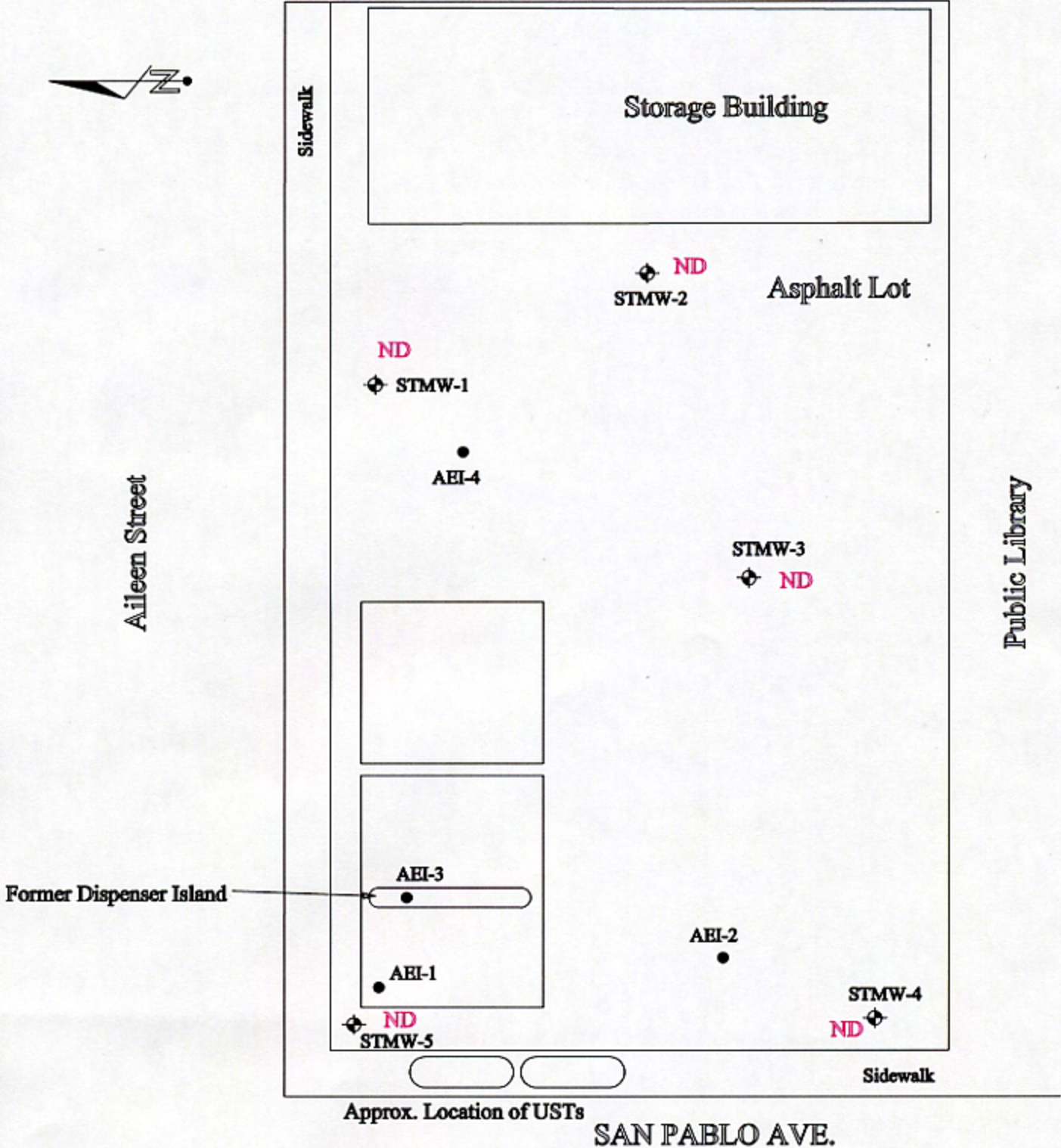
Legend

- ◆ = Monitor Well
- = Soil Boring

Scale: Feet



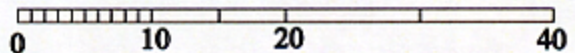
Residential Property



Legend

- ◆ = Monitor Well
- = Soil Boring

Scale: Feet





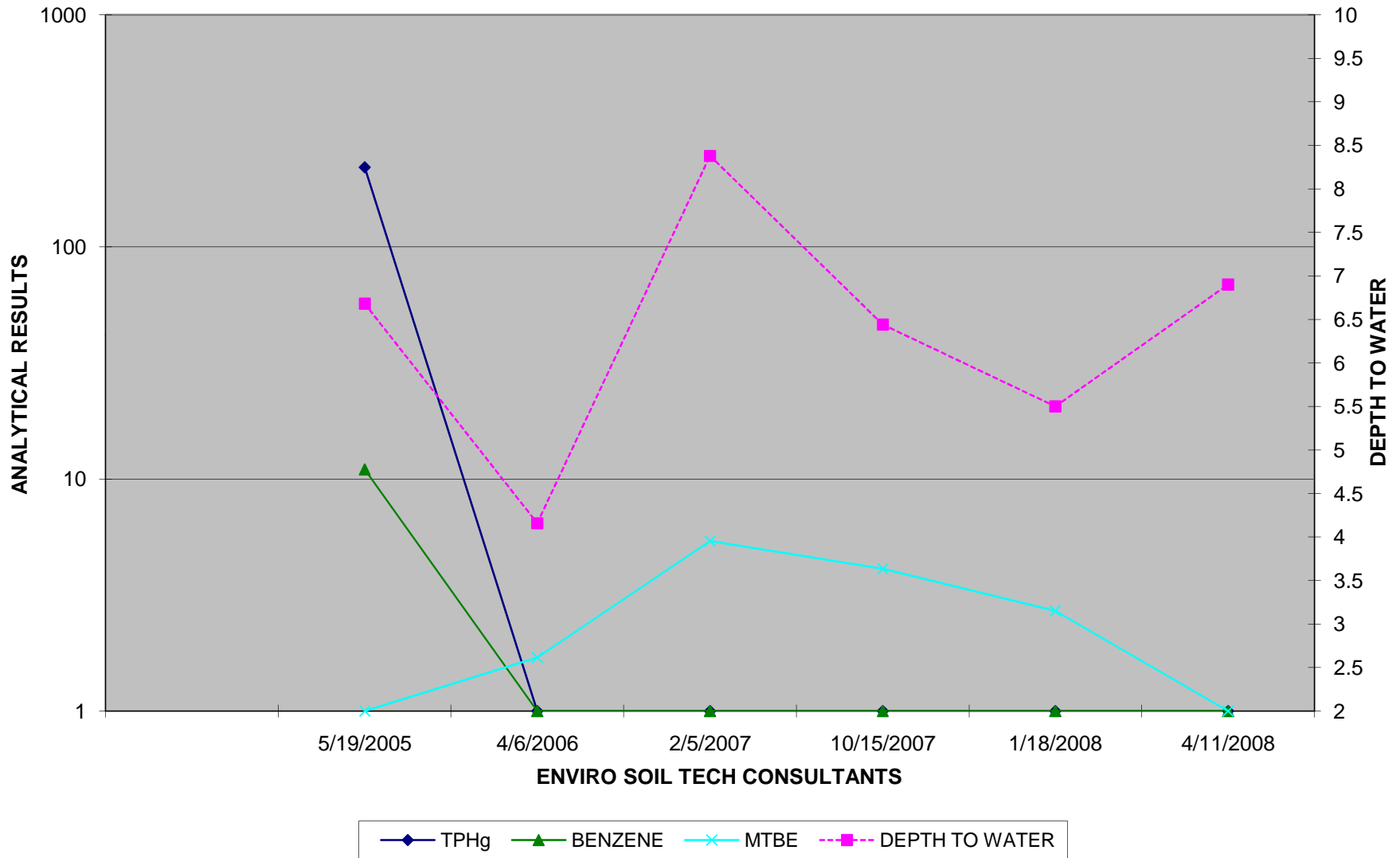
File No. 12-04-770-GI  
May 27, 2008

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

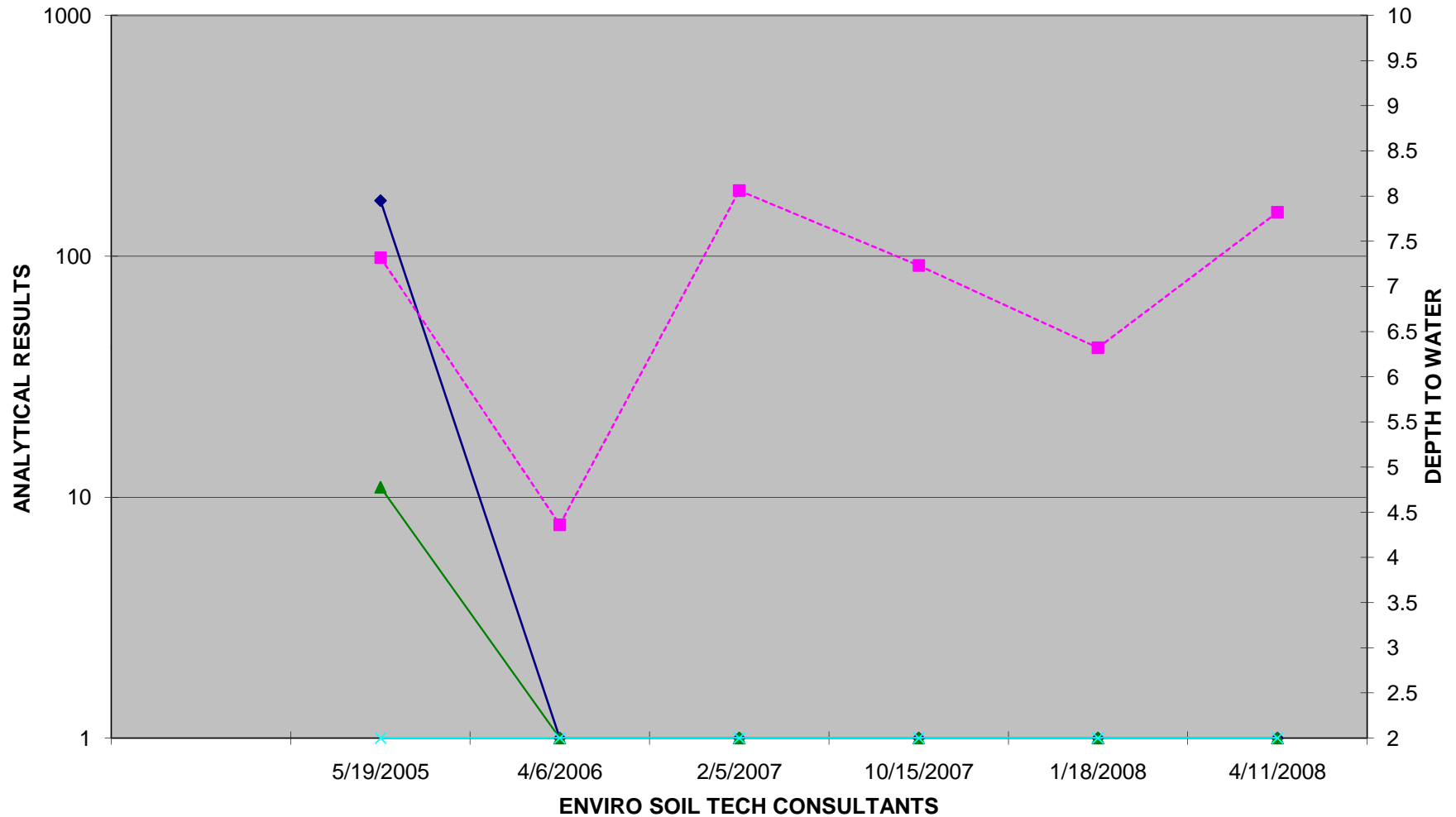
### **HYDROGRAPHS**

**ENVIRO SOIL TECH CONSULTANTS**

**File No.: 12-04-770-GI**  
**TPHg, BENZENE & MTBE RESULTS FOR STMW-1 ( $\mu\text{g/L}$ )**  
**AND DEPTH TO WATER MEASUREMENT (feet)**

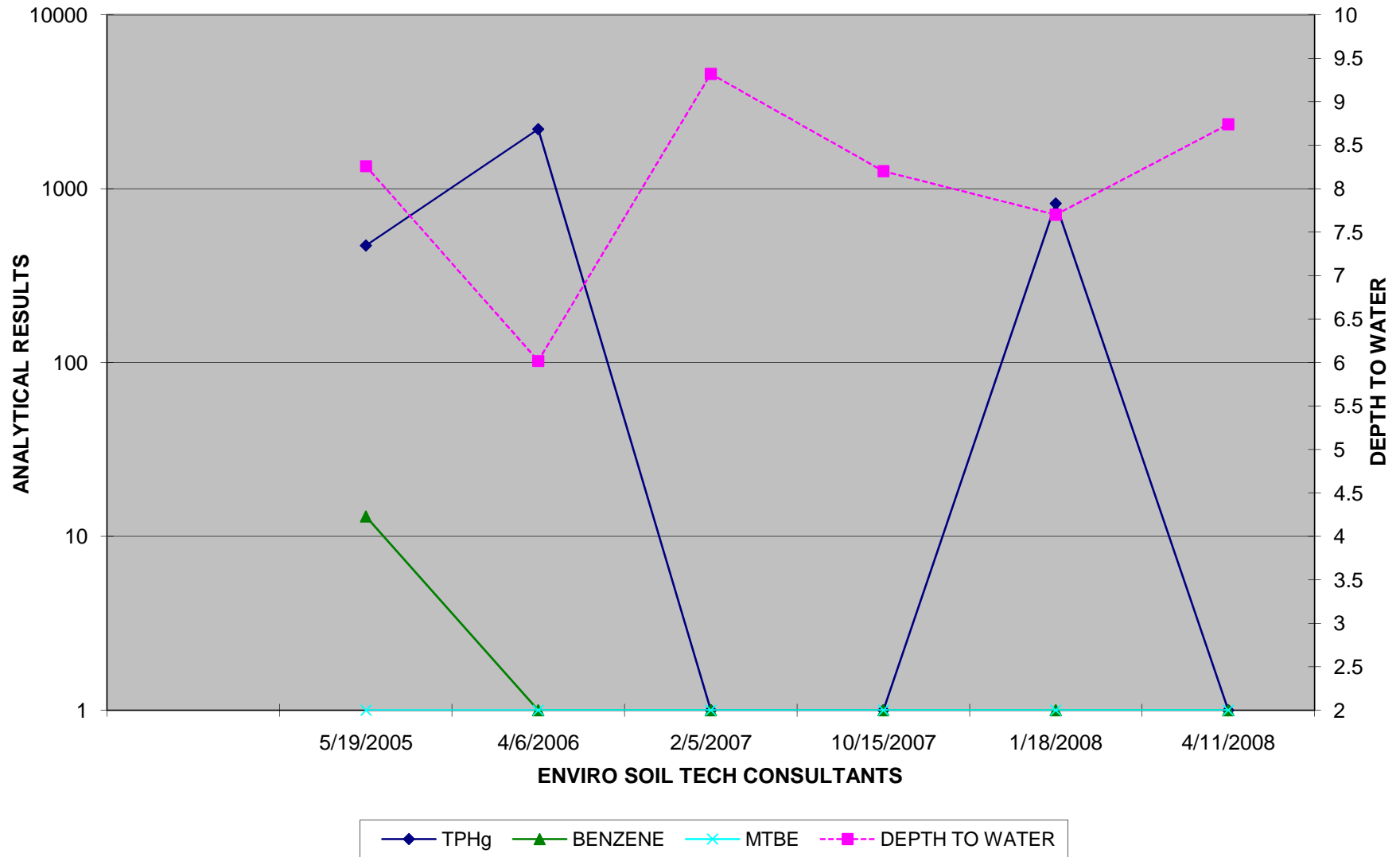


File No.: 12-04-770-GI  
TPHg, BENZENE & MTBE RESULTS FOR STMW-2 ( $\mu\text{g/L}$ )  
AND DEPTH TO WATER MEASUREMENT (feet)

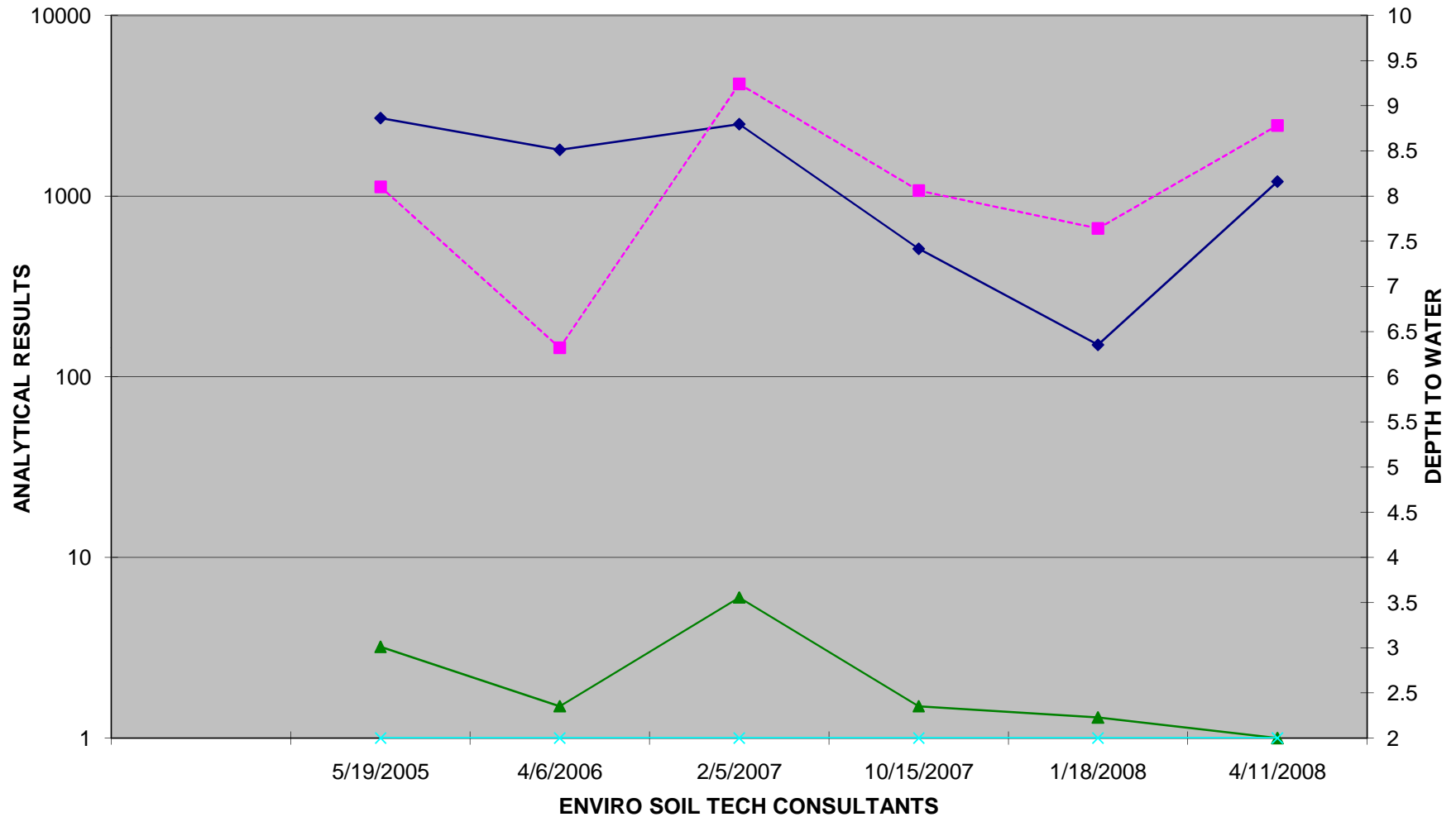


—◆— TPHg —▲— BENZENE —×— MTBE —■— DEPTH TO WATER

File No.: 12-04-770-GI  
TPHg, BENZENE & MTBE RESULTS FOR STMW-3 (µg/L)  
AND DEPTH TO WATER MEASUREMENT (feet)

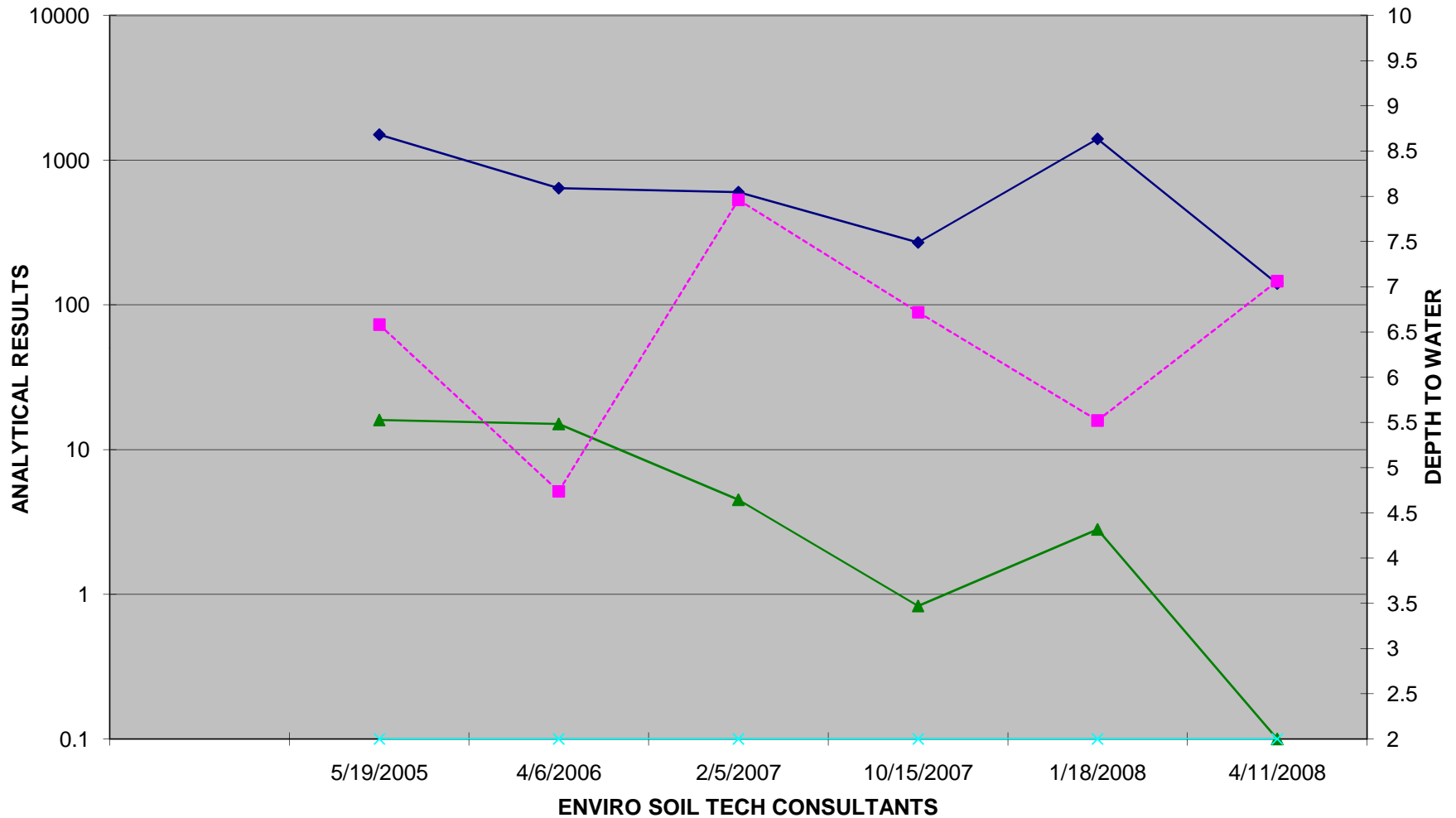


**File No.: 12-04-770-GI**  
**TPHg, BENZENE & MTBE RESULTS FOR STMW-4 ( $\mu\text{g/L}$ )**  
**AND DEPTH TO WATER MEASUREMENT (feet)**



◆ TPHg   
 ▲ BENZENE   
 × MTBE   
 ■ DEPTH TO WATER

**File No.: 12-04-770-GI**  
**TPHg, BENZENE & MTBE RESULTS FOR STMW-5 ( $\mu\text{g/L}$ )**  
**AND DEPTH TO WATER MEASUREMENT (feet)**



◆ TPHg   
 ▲ BENZENE   
 × MTBE   
 ■ DEPTH TO WATER

File No. 12-04-770-GI  
May 27, 2008

**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 and one liter amber glass bottles with Teflon septa were used as sample containers. The groundwater sample was decanted into each glass bottle and VOA vial in such a manner that there was a meniscus at the top. The cap was quickly placed over the top of the glass bottle and vial and securely tightened. The glass bottles and VOA vials were 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.

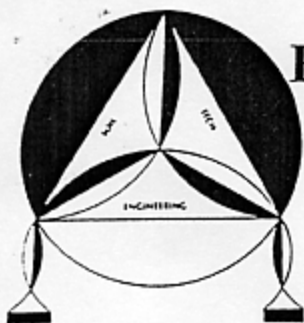


File No. 12-04-770-GI  
May 27, 2008

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

### **FIELD NOTES**

**ENVIRO SOIL TECH CONSULTANTS**



# ENVIRO SOIL TECH CONSULTANTS

Environmental & Geotechnical Consultants

131 TULLY ROAD, SAN JOSE, CALIFORNIA 95111

Tel: (408) 297-1500

Fax: (408) 292-2116

FILE NO.: 12-04-770-GI

DATE: 4-11-08

DEPTH TO WELL: 20 feet

DEPTH TO WATER: 6 ft .90

HEIGHT OF WATER COLUMN: \_\_\_\_\_

WELL NO.: STMW-1

SAMPLER: Hand made

1 WELL VOLUME: 2.1216

5 WELL VOLUME: 10.608

ACTUAL PURGED VOLUME: 10 1/2

CASING DIAMETER: ✓ 2" \_\_\_\_\_ 4"

\_\_\_\_\_ 4"

## CALCULATIONS:

2" - x 0.1632 x 13 = 2.1216 x 5 = 10.608

4" - 0.653 \_\_\_\_\_

PURGE METHOD: \_\_\_\_\_ BAILER ✓ DISPLACEMENT PUMP \_\_\_\_\_ OTHER

SAMPLE METHOD: ✓ BAILER \_\_\_\_\_ OTHER

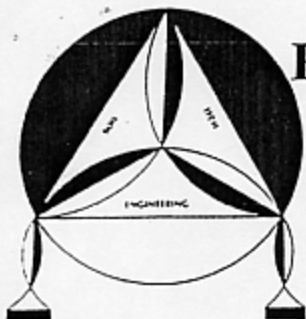
SHEEN: ✓ NO \_\_\_\_\_ YES, DESCRIBE: \_\_\_\_\_

ODOR: ✓ NO \_\_\_\_\_ YES, DESCRIBE: \_\_\_\_\_

## FIELD MEASUREMENTS

<u>TIME</u>	<u>VOLUME</u>	<u>pH</u>	<u>TEMP.</u>	<u>E.C.</u>
_____	<u>2 gAL</u>	<u>6.69</u>	<u>16.7</u>	<u>445</u>
_____	<u>4 gAL</u>	<u>6.48</u>	<u>16.8</u>	<u>459</u>
_____	<u>6 gAL</u>	<u>6.38</u>	<u>16.8</u>	<u>436</u>
_____	<u>8 gAL</u>	<u>6.18</u>	<u>16.8</u>	<u>417</u>
_____	<u>10 1/2 gAL</u>	<u>6.11</u>	<u>16.8</u>	<u>410</u>

7 ft .30



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131 TULLY ROAD, SAN JOSE, CALIFORNIA 95111

Tel: (408) 297-1500

Fax: (408) 292-2116

FILE NO.: 12-04-770-GI

DATE: 4-11-08

DEPTH TO WELL: 20 feet

DEPTH TO WATER: 9<sup>ft</sup>. 82

HEIGHT OF WATER COLUMN: \_\_\_\_\_

WELL NO.: STMW-2

SAMPLER: Perked Manly

1 WELL VOLUME: 1.9584

5 WELL VOLUME: 9.792

ACTUAL PURGED VOLUME: 10

CASING DIAMETER: ✓ \_\_\_\_\_ 2"

\_\_\_\_\_ 4"

## CALCULATIONS:

$$2'' - \times 0.1632 \times 12 = 1.9584 \times 5 = 9.792$$

4'' - 0.653 \_\_\_\_\_

PURGE METHOD: \_\_\_\_\_ BAILER ✓ \_\_\_\_\_ DISPLACEMENT PUMP \_\_\_\_\_ OTHER

SAMPLE METHOD: ✓ BAILER \_\_\_\_\_ OTHER

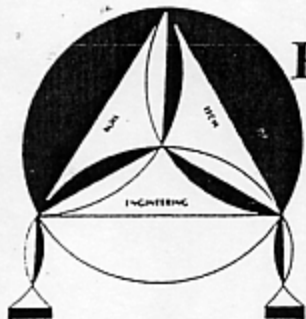
SHEEN: ✓ NO ✓ YES, DESCRIBE: RAINBOW

ODOR: \_\_\_\_\_ NO \_\_\_\_\_ YES, DESCRIBE: \_\_\_\_\_

## FIELD MEASUREMENTS

<u>TIME</u>	<u>VOLUME</u>	<u>pH</u>	<u>TEMP.</u>	<u>E.C.</u>
_____	<u>2 GAL</u>	<u>6.51</u>	<u>16.2</u>	<u>369</u>
_____	<u>4 GAL</u>	<u>6.36</u>	<u>16.3</u>	<u>360</u>
_____	<u>6 GAL</u>	<u>6.25</u>	<u>16.5</u>	<u>386</u>
_____	<u>8 GAL</u>	<u>6.09</u>	<u>16.6</u>	<u>383</u>
_____	<u>10 GAL</u>	<u>6.03</u>	<u>16.7</u>	<u>381</u>

8<sup>ft</sup>. 72



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Tel: (408) 297-1500

Fax: (408) 292-2116

FILE NO.: 12-04-770-GI

DATE: 4-11-08

DEPTH TO WELL: 20 feet

DEPTH TO WATER: 8' .74

HEIGHT OF WATER COLUMN: \_\_\_\_\_

WELL NO.: SI MW-3

SAMPLER: Depth meter

1 WELL VOLUME: 2.1216

5 WELL VOLUME: 10.608

ACTUAL PURGED VOLUME: 10 1/2

CASING DIAMETER:  2"

4"

## CALCULATIONS:

$$2'' - x 0.1632 \times 13 = 2.1216 \times 5 = 10.608$$

4'' - 0.653

PURGE METHOD:  BAILER  DISPLACEMENT PUMP  OTHER

SAMPLE METHOD:  BAILER  OTHER

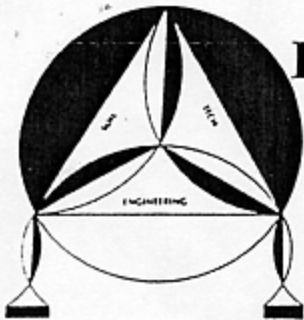
SHEEN:  NO  YES, DESCRIBE: RAINBOW

ODOR:  NO  YES, DESCRIBE: \_\_\_\_\_

## FIELD MEASUREMENTS

TIME	VOLUME	pH	TEMP.	E.C.
	2 GAL	6.44	15.6	393
	4 GAL	6.36	15.7	326
	6 GAL	6.17	15.9	349
	8 GAL	6.13	16.0	344
	10 1/2 GAL	6.03	16.2	339

9' .24



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Tel: (408) 297-1500

Fax: (408) 292-2116

FILE NO.: 12-04-770-GI

DATE: 4-11-08

DEPTH TO WELL: 20 feet

DEPTH TO WATER: 8<sup>ft</sup> .78

HEIGHT OF WATER COLUMN: \_\_\_\_\_

WELL NO.: STMW-4

SAMPLER: Submersible

1 WELL VOLUME: 1.7952

5 WELL VOLUME: 8.976

ACTUAL PURGED VOLUME: 9

CASING DIAMETER: ✓ 2"

4"

## CALCULATIONS:

$$2'' - \times 0.1632 \times 11 = 0.7952 \times 5 =$$

$$4'' - 0.653$$

PURGE METHOD: \_\_\_\_\_ BAILER ✓ DISPLACEMENT PUMP \_\_\_\_\_ OTHER

SAMPLE METHOD: ✓ BAILER \_\_\_\_\_ OTHER

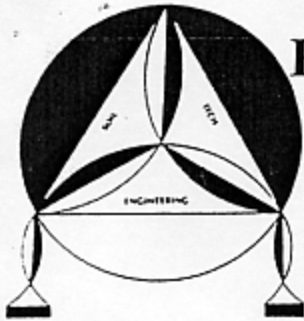
SHEEN: \_\_\_\_\_ NO ✓ YES, DESCRIBE: RAINBOW

ODOR: ✓ NO \_\_\_\_\_ YES, DESCRIBE: \_\_\_\_\_

## FIELD MEASUREMENTS

TIME	VOLUME	pH	TEMP.	E.C.
_____	1 GAL	6.24	15.6	450
_____	3 GAL	6.16	15.8	465
_____	5 GAL	6.12	15.8	460
_____	7 GAL	6.07	16.1	436
_____	9 GAL	6.04	15.9	430

9<sup>ft</sup> .48



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Tel: (408) 297-1500

Fax: (408) 292-2116

FILE NO.: 12-04-770-GI

DATE: 4-11-08

DEPTH TO WELL: 20 feet

DEPTH TO WATER: 7<sup>ft</sup> .06

HEIGHT OF WATER COLUMN: \_\_\_\_\_

WELL NO.: STMW-5

SAMPLER: Peristaltic

1 WELL VOLUME: 1.9584

5 WELL VOLUME: 9.792

ACTUAL PURGED VOLUME: 10

CASING DIAMETER: ✓ 2"

\_\_\_\_\_ 4"

## CALCULATIONS:

$$2'' - \times 0.1632 \times 12 = 1.9584 \times 5 = 9.792$$

4'' - 0.653 \_\_\_\_\_

PURGE METHOD: \_\_\_\_\_ BAILER  DISPLACEMENT PUMP \_\_\_\_\_ OTHER

SAMPLE METHOD:  BAILER \_\_\_\_\_ OTHER

SHEEN:  NO \_\_\_\_\_ YES, DESCRIBE: \_\_\_\_\_

ODOR:  NO \_\_\_\_\_ YES, DESCRIBE: \_\_\_\_\_

## FIELD MEASUREMENTS

TIME	VOLUME	pH	TEMP.	E.C.
_____	2 GAL	6.32	18.0	486
_____	4 GAL	6.18	17.9	461
_____	6 GAL	6.00	17.8	457
_____	8 GAL	5.97	17.7	458
_____	10 GAL	5.89	17.8	433

~~AT~~  
9.792

File No. 12-04-770-GI  
May 27, 2008

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

**LABORATORY REPORT**

**ENVIRO SOIL TECH CONSULTANTS**

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

**Lab Order Number: C0550**  
**Issued: 04/29/2008**

**Project Number: 12-04-770GI**  
**Project Location: 5630 San Pablo Ave., Oakland**

**Global ID: T06019784055**

## Certificate of Analysis - Final Report

On April 15, 2008, samples were received under chain of custody for analysis.  
Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test / Comments</u>
Liquid	Electronic Deliverables for Geotracker VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater TPH-Purgeable - GC : EPA 5030B / EPA 8015B TPH-Extractable: EPA 3510C / EPA 8015B(M)

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).  
Subcontracted work is the responsibility of the subcontract laboratory, this includes turn-around-time and data quality.  
If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



Laurie Glantz-Murphy  
Laboratory Director





Northern California

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

Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland  
GlobalID: T06019784055

## Certificate of Analysis - Data Report

Samples Received: 04/15/2008

Sample Collected by: Client

Lab #: C0550-001    Sample ID: STMW-1    Matrix: Liquid    Sample Date: 4/11/2008    10:42 AM

### TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.0	52	µg/L	4/17/2008	WDA080417	4/17/2008	WDA080417

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	84.2	50 - 150

Analyzed by: JHsiang

Reviewed by: mtran

### TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	50	µg/L	N/A	N/A	4/18/2008	WGC080417

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	110	65 - 135

Analyzed by: JAbidog

Reviewed by: MaiChiTu



Northern California

3334 Victor Court, Santa Clara, CA 95054

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Fax: (408) 588-0201

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 131 Tully Road  
 San Jose, CA 95111  
 Attn: Frank Hamedi

Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland  
 GlobalID: T06019784055

## Certificate of Analysis - Data Report

Samples Received: 04/15/2008

Sample Collected by: Client

Lab #: C0550-001    Sample ID: STMW-1    Matrix: Liquid    Sample Date: 4/11/2008    10:42 AM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1,1-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1,2-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2,3-Trichloropropane	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,3-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,3-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,4-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,4-Dioxane	ND		1.0	50	µg/L	N/A	N/A	4/16/2008	WM1080416
2,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
2-Butanone (MEK)	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
2-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
2-Hexanone	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
4-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
4-Methyl-2-Pentanone(MIBK)	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
Acetone	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
Acetonitrile	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromodichloromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromoform	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromomethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Carbon Disulfide	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Carbon Tetrachloride	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Chlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Chloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Chloroform	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Chloromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
cis-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

4/29/2008 10:29:56 AM - mfelix

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

Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland  
 GlobalID: T06019784055

## Certificate of Analysis - Data Report

Samples Received: 04/15/2008

Sample Collected by: Client

Lab #: C0550-001    Sample ID: STMW-1    Matrix: Liquid    Sample Date: 4/11/2008    10:42 AM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
cis-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Dibromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Dibromomethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Dichlorodifluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Diisopropyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Freon 113	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Hexachlorobutadiene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Iodomethane	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Isopropanol	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
Isopropylbenzene	ND		1.0	1.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Methylene Chloride	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
n-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
n-Propylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Naphthalene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
p-Isopropyltoluene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Pentachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
sec-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Styrene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
tert-Butanol (TBA)	ND		1.0	10	µg/L	N/A	N/A	4/16/2008	WM1080416
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
tert-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Tetrachloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Tetrahydrofuran	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
trans-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
trans-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
trans-1,4-Dichloro-2-butene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Trichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Trichlorofluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Vinyl Chloride	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Xylenes, Total	ND		1.0	1.0	µg/L	N/A	N/A	4/16/2008	WM1080416

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	94.2	60 - 130
Dibromofluoromethane	81.7	60 - 130
Toluene-d8	109	60 - 130

Analyzed by: XBian

Reviewed by: MaiChiTu



Northern California

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 San Jose, CA 95111  
 Attn: Frank Hamedi

Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland  
 GlobalID: T06019784055

## Certificate of Analysis - Data Report

Samples Received: 04/15/2008

Sample Collected by: Client

Lab #: C0550-002    Sample ID: STMW-2    Matrix: Liquid    Sample Date: 4/11/2008    11:10 AM

### TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.0	52	µg/L	4/17/2008	WDA080417	4/21/2008	WDA080417
Reporting limits raised due to insufficient sample volume (high level of sediment).									

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	82.8	50 - 150

Analyzed by: JHsiang  
 Reviewed by: mtran

### TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	50	µg/L	N/A	N/A	4/18/2008	WGC080417

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	109	65 - 135

Analyzed by: JAbidog  
 Reviewed by: MaiChiTu



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Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland  
 GlobalID: T06019784055

## Certificate of Analysis - Data Report

Samples Received: 04/15/2008

Sample Collected by: Client

Lab #: C0550-002    Sample ID: STMW-2    Matrix: Liquid    Sample Date: 4/11/2008    11:10 AM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1,1-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1,1,2,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1,2-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2,3-Trichloropropane	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,3-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,3-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,4-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,4-Dioxane	ND		1.0	50	µg/L	N/A	N/A	4/16/2008	WM1080416
2,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
2-Butanone (MEK)	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
2-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
2-Hexanone	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
4-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
4-Methyl-2-Pentanone(MIBK)	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
Acetone	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
Acetonitrile	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromodichloromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromoform	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromomethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Carbon Disulfide	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Carbon Tetrachloride	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Chlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Chloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Chloroform	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Chloromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
cis-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

4/29/2008 10:29:56 AM - mfelix



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Enviro Soil Tech Consultants  
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 Attn: Frank Hamedi

Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland  
 GlobalID: T06019784055

## Certificate of Analysis - Data Report

Samples Received: 04/15/2008

Sample Collected by: Client

Lab #: C0550-002    Sample ID: STMW-2    Matrix: Liquid    Sample Date: 4/11/2008    11:10 AM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
cis-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Dibromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Dibromomethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Dichlorodifluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Diisopropyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Freon 113	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Hexachlorobutadiene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Iodomethane	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Isopropanol	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
Isopropylbenzene	ND		1.0	1.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Methylene Chloride	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
n-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
n-Propylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Naphthalene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
p-Isopropyltoluene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Pentachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
sec-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Styrene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
tert-Butanol (TBA)	ND		1.0	10	µg/L	N/A	N/A	4/16/2008	WM1080416
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
tert-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Tetrachloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Tetrahydrofuran	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
trans-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
trans-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
trans-1,4-Dichloro-2-butene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Trichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Trichlorofluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Vinyl Chloride	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Xylenes, Total	ND		1.0	1.0	µg/L	N/A	N/A	4/16/2008	WM1080416

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	95.7	60 - 130
Dibromofluoromethane	82.2	60 - 130
Toluene-d8	111	60 - 130

Analyzed by: XBian

Reviewed by: MaiChiTu



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Attn: Frank Hamedi

Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland  
GlobalID: T06019784055

### Certificate of Analysis - Data Report

Samples Received: 04/15/2008

Sample Collected by: Client

Lab #: C0550-003    Sample ID: STMW-3    Matrix: Liquid    Sample Date: 4/11/2008    12:01 PM

#### TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		0.95	48	µg/L	4/17/2008	WDA080417	4/21/2008	WDA080417
<b>Surrogate</b>	<b>Surrogate Recovery</b>		<b>Control Limits (%)</b>					Analyzed by: JHsiang	
n-Hexacosane	97.8		50	- 150				Reviewed by: mtran	

#### TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	50	µg/L	N/A	N/A	4/18/2008	WGC080417
<b>Surrogate</b>	<b>Surrogate Recovery</b>		<b>Control Limits (%)</b>					Analyzed by: JAbidog	
4-Bromofluorobenzene	124		65	- 135				Reviewed by: MaiChiTu	

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

**Enviro Soil Tech Consultants**  
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**Attn: Frank Hamedi**

Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland  
 GlobalID: T06019784055

## Certificate of Analysis - Data Report

Samples Received: 04/15/2008

Sample Collected by: Client

**Lab # :** C0550-003    **Sample ID:** STMW-3    **Matrix:** Liquid    **Sample Date:** 4/11/2008    12:01 PM

**VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater**

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1,1-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1,2-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2,3-Trichloropropane	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,3-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,3-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,4-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,4-Dioxane	ND		1.0	50	µg/L	N/A	N/A	4/16/2008	WM1080416
2,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
2-Butanone (MEK)	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
2-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
2-Hexanone	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
4-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
4-Methyl-2-Pentanone(MIBK)	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
Acetone	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
Acetonitrile	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromodichloromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromoform	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromomethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Carbon Disulfide	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Carbon Tetrachloride	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Chlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Chloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Chloroform	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Chloromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
cis-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier



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

Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland  
 GlobalID: T06019784055

## Certificate of Analysis - Data Report

Samples Received: 04/15/2008

Sample Collected by: Client

Lab #: C0550-003    Sample ID: STMW-3    Matrix: Liquid    Sample Date: 4/11/2008    12:01 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
cis-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Dibromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Dibromomethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Dichlorodifluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Diisopropyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Freon 113	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Hexachlorobutadiene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Iodomethane	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Isopropanol	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
Isopropylbenzene	ND		1.0	1.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Methylene Chloride	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
n-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
n-Propylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Naphthalene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
p-Isopropyltoluene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Pentachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
sec-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Styrene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
tert-Butanol (TBA)	ND		1.0	10	µg/L	N/A	N/A	4/16/2008	WM1080416
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
tert-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Tetrachloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Tetrahydrofuran	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
trans-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
trans-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
trans-1,4-Dichloro-2-butene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Trichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Trichlorofluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Vinyl Chloride	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Xylenes, Total	ND		1.0	1.0	µg/L	N/A	N/A	4/16/2008	WM1080416

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	95.1	60 - 130
Dibromofluoromethane	83.7	60 - 130
Toluene-d8	111	60 - 130

Analyzed by: XBian

Reviewed by: MaiChiTu

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

Project Number: 12-04-770GI  
 Project Location: 5630 San Pablo Ave., Oakland  
 GlobalID: T06019784055

## Certificate of Analysis - Data Report

Samples Received: 04/15/2008  
 Sample Collected by: Client

Lab #: C0550-004 Sample ID: STMW-4 Matrix: Liquid Sample Date: 4/11/2008 12:57 PM

### TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	650		0.95	48	µg/L	4/17/2008	WDA080417	4/21/2008	WDA080417
Not a typical pattern. Pattern resembles Mineral Spirits (C10-C16).									

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by:
n-Hexacosane	84.8	50 - 150	JHsiang
			Reviewed by: mtran

### TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	1200		10	500	µg/L	N/A	N/A	4/23/2008	WGC080423
Atypical pattern.									

Surrogate	Surrogate Recovery	Control Limits (%)	Analyzed by:
4-Bromofluorobenzene	659 ***	65 - 135	JAbidog
			Reviewed by: MaiChiTu

\*\*\* Surrogate recovery outside QC limits due to matrix interference.

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Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland  
 GlobalID: T06019784055

## Certificate of Analysis - Data Report

Samples Received: 04/15/2008

Sample Collected by: Client

Lab #: C0550-004    Sample ID: STMW-4    Matrix: Liquid    Sample Date: 4/11/2008    12:57 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1,1-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1,2-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2,3-Trichloropropane	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,3-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,3-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,4-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,4-Dioxane	ND		1.0	50	µg/L	N/A	N/A	4/16/2008	WM1080416
2,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
2-Butanone (MEK)	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
2-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
2-Hexanone	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
4-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
4-Methyl-2-Pentanone(MIBK)	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
Acetone	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
Acetonitrile	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromodichloromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromoform	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromomethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Carbon Disulfide	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Carbon Tetrachloride	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Chlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Chloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Chloroform	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Chloromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
cis-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

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

Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland  
 GlobalID: T06019784055

## Certificate of Analysis - Data Report

Samples Received: 04/15/2008

Sample Collected by: Client

Lab #: C0550-004    Sample ID: STMW-4    Matrix: Liquid    Sample Date: 4/11/2008    12:57 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
cis-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Dibromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Dibromomethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Dichlorodifluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Diisopropyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Freon 113	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Hexachlorobutadiene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Iodomethane	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Isopropanol	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
Isopropylbenzene	22		1.0	1.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Methylene Chloride	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
n-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
n-Propylbenzene	8.4		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Naphthalene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
p-Isopropyltoluene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Pentachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
sec-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Styrene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
tert-Butanol (TBA)	ND		1.0	10	µg/L	N/A	N/A	4/16/2008	WM1080416
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
tert-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Tetrachloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Tetrahydrofuran	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
trans-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
trans-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
trans-1,4-Dichloro-2-butene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Trichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Trichlorofluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Vinyl Chloride	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Xylenes, Total	1.3		1.0	1.0	µg/L	N/A	N/A	4/16/2008	WM1080416

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	125	60 - 130
Dibromofluoromethane	83.3	60 - 130
Toluene-d8	114	60 - 130

Analyzed by: XBian

Reviewed by: MaiChiTu

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

Project Number: 12-04-770GI  
 Project Location: 5630 San Pablo Ave., Oakland  
 GlobalID: T06019784055

## Certificate of Analysis - Data Report

Samples Received: 04/15/2008  
 Sample Collected by: Client

Lab #: C0550-005 Sample ID: STMW-5 Matrix: Liquid Sample Date: 4/11/2008 9:58 AM

### TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.0	50	µg/L	4/17/2008	WDA080417	4/21/2008	WDA080417
<b>Surrogate</b>	<b>Surrogate Recovery</b>		<b>Control Limits (%)</b>					Analyzed by: JHsiang	
n-Hexacosane	85.5		50	- 150				Reviewed by: mtran	

### TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	140		1.0	50	µg/L	N/A	N/A	4/18/2008	WGC080418
Atypical pattern.									
<b>Surrogate</b>	<b>Surrogate Recovery</b>		<b>Control Limits (%)</b>					Analyzed by: JAbidog	
4-Bromofluorobenzene	296 ***		65	- 135				Reviewed by: MaiChiTu	

\*\*\* Surrogate recovery outside QC limits due to matrix interference.

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Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland  
 GlobalID: T06019784055

## Certificate of Analysis - Data Report

Samples Received: 04/15/2008

Sample Collected by: Client

Lab #: C0550-005    Sample ID: STMW-5    Matrix: Liquid    Sample Date: 4/11/2008    9:58 AM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1,1-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1,2-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,1-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2,3-Trichloropropane	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
1,3-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,3-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,4-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
1,4-Dioxane	ND		1.0	50	µg/L	N/A	N/A	4/16/2008	WM1080416
2,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
2-Butanone (MEK)	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
2-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
2-Hexanone	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
4-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
4-Methyl-2-Pentanone(MIBK)	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
Acetone	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
Acetonitrile	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromodichloromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromoform	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Bromomethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Carbon Disulfide	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Carbon Tetrachloride	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Chlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Chloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Chloroform	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Chloromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
cis-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

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

Project Number: 12-04-770GI

Project Location: 5630 San Pablo Ave., Oakland  
 GlobalID: T06019784055

## Certificate of Analysis - Data Report

Samples Received: 04/15/2008

Sample Collected by: Client

Lab #: C0550-005    Sample ID: STMW-5    Matrix: Liquid    Sample Date: 4/11/2008    9:58 AM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
cis-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Dibromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Dibromomethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Dichlorodifluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Diisopropyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Freon 113	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Hexachlorobutadiene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Iodomethane	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Isopropanol	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
Isopropylbenzene	ND		1.0	1.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Methylene Chloride	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
n-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
n-Propylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Naphthalene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
p-Isopropyltoluene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Pentachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
sec-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Styrene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
tert-Butanol (TBA)	ND		1.0	10	µg/L	N/A	N/A	4/16/2008	WM1080416
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
tert-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Tetrachloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Tetrahydrofuran	ND		1.0	20	µg/L	N/A	N/A	4/16/2008	WM1080416
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
trans-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
trans-1,3-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
trans-1,4-Dichloro-2-butene	ND		1.0	5.0	µg/L	N/A	N/A	4/16/2008	WM1080416
Trichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Trichlorofluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Vinyl Chloride	ND		1.0	0.50	µg/L	N/A	N/A	4/16/2008	WM1080416
Xylenes, Total	ND		1.0	1.0	µg/L	N/A	N/A	4/16/2008	WM1080416

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	101	60 - 130
Dibromofluoromethane	80.5	60 - 130
Toluene-d8	111	60 - 130

Analyzed by: XBian

Reviewed by: MaiChiTu



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

Method Blank - Liquid - TPH-Extractable: EPA 3510C / EPA 8015B(M)

QC/Prep Batch ID: WDA080417

Validated by: mtran - 04/18/08

QC/Prep Date: 4/17/2008

Parameter			Result	DF	PQLR	Units
TPH as Diesel			ND	1	50	µg/L
<b>Surrogate for Blank</b>	<b>% Recovery</b>	<b>Control Limits</b>				
n-Hexacosane	77.1	50 - 150				





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Method Blank - Liquid - TPH-Purgeable - GC : EPA 5030B / EPA 8015B

QC Batch ID: WGC080417

Validated by: MaiChiTu - 04/21/08

QC Batch Analysis Date: 4/17/2008

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	50	µg/L
<b>Surrogate for Blank</b>	<b>% Recovery</b>	<b>Control Limits</b>		
4-Bromofluorobenzene	108	65 - 135		



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

Method Blank - Liquid - TPH-Purgeable - GC : EPA 5030B / EPA 8015B

QC Batch ID: WGC080418

Validated by: MaiChiTu - 04/23/08

QC Batch Analysis Date: 4/18/2008

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	50	µg/L
<b>Surrogate for Blank</b>	<b>% Recovery</b>	<b>Control Limits</b>		
4-Bromofluorobenzene	107	65 - 135		



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Method Blank - Liquid - TPH-Purgeable - GC : EPA 5030B / EPA 8015B

QC Batch ID: WGC080423

Validated by: MaiChiTu - 04/24/08

QC Batch Analysis Date: 4/23/2008

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	50	µg/L
<b>Surrogate for Blank</b>	<b>% Recovery</b>	<b>Control Limits</b>		
4-Bromofluorobenzene	117	65 - 135		



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**Method Blank - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater**

**QC Batch ID: WM1080416**

Validated by: MaiChiTu - 04/17/08

**QC Batch Analysis Date: 4/16/2008**

Parameter	Result	DF	PQLR	Units
1,1,1,2-Tetrachloroethane	ND	1	0.50	µg/L
1,1,1-Trichloroethane	ND	1	0.50	µg/L
1,1,2,2-Tetrachloroethane	ND	1	0.50	µg/L
1,1,2-Trichloroethane	ND	1	0.50	µg/L
1,1-Dichloroethane	ND	1	0.50	µg/L
1,1-Dichloroethene	ND	1	0.50	µg/L
1,1-Dichloropropene	ND	1	0.50	µg/L
1,2,3-Trichlorobenzene	ND	1	5.0	µg/L
1,2,3-Trichloropropane	ND	1	5.0	µg/L
1,2,4-Trichlorobenzene	ND	1	5.0	µg/L
1,2,4-Trimethylbenzene	ND	1	5.0	µg/L
1,2-Dibromo-3-Chloropropane	ND	1	5.0	µg/L
1,2-Dibromoethane (EDB)	ND	1	0.50	µg/L
1,2-Dichlorobenzene	ND	1	0.50	µg/L
1,2-Dichloroethane	ND	1	0.50	µg/L
1,2-Dichloropropane	ND	1	0.50	µg/L
1,3,5-Trimethylbenzene	ND	1	5.0	µg/L
1,3-Dichlorobenzene	ND	1	0.50	µg/L
1,3-Dichloropropane	ND	1	0.50	µg/L
1,4-Dichlorobenzene	ND	1	0.50	µg/L
1,4-Dioxane	ND	1	50	µg/L
2,2-Dichloropropane	ND	1	0.50	µg/L
2-Butanone (MEK)	ND	1	20	µg/L
2-Chlorotoluene	ND	1	5.0	µg/L
2-Hexanone	ND	1	20	µg/L
4-Chlorotoluene	ND	1	5.0	µg/L
4-Methyl-2-Pentanone(MIBK)	ND	1	20	µg/L
Acetone	ND	1	20	µg/L
Acetonitrile	ND	1	5.0	µg/L
Benzene	ND	1	0.50	µg/L
Bromobenzene	ND	1	0.50	µg/L
Bromochloromethane	ND	1	0.50	µg/L
Bromodichloromethane	ND	1	0.50	µg/L
Bromoform	ND	1	0.50	µg/L
Bromomethane	ND	1	0.50	µg/L
Carbon Disulfide	ND	1	0.50	µg/L
Carbon Tetrachloride	ND	1	0.50	µg/L
Chlorobenzene	ND	1	0.50	µg/L
Chloroethane	ND	1	0.50	µg/L
Chloroform	ND	1	0.50	µg/L
Chloromethane	ND	1	0.50	µg/L
cis-1,2-Dichloroethene	ND	1	0.50	µg/L
cis-1,3-Dichloropropene	ND	1	0.50	µg/L
Dibromochloromethane	ND	1	0.50	µg/L
Dibromomethane	ND	1	0.50	µg/L
Dichlorodifluoromethane	ND	1	0.50	µg/L
Diisopropyl Ether	ND	1	5.0	µg/L
Ethyl Benzene	ND	1	0.50	µg/L



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**Method Blank - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater**

**QC Batch ID: WM1080416**

Validated by: MaiChiTu - 04/17/08

**QC Batch Analysis Date: 4/16/2008**

Parameter	Result	DF	PQLR	Units
Freon 113	ND	1	5.0	µg/L
Hexachlorobutadiene	ND	1	5.0	µg/L
Iodomethane	ND	1	5.0	µg/L
Isopropanol	ND	1	20	µg/L
Isopropylbenzene	ND	1	1.0	µg/L
Methylene Chloride	ND	1	20	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
Naphthalene	ND	1	5.0	µg/L
n-Butylbenzene	ND	1	5.0	µg/L
n-Propylbenzene	ND	1	5.0	µg/L
Pentachloroethane	ND	1	0.50	µg/L
p-Isopropyltoluene	ND	1	5.0	µg/L
sec-Butylbenzene	ND	1	5.0	µg/L
Styrene	ND	1	0.50	µg/L
tert-Amyl Methyl Ether	ND	1	5.0	µg/L
tert-Butanol (TBA)	ND	1	10	µg/L
tert-Butyl Ethyl Ether	ND	1	5.0	µg/L
tert-Butylbenzene	ND	1	5.0	µg/L
Tetrachloroethene	ND	1	0.50	µg/L
Tetrahydrofuran	ND	1	20	µg/L
Toluene	ND	1	0.50	µg/L
trans-1,2-Dichloroethene	ND	1	0.50	µg/L
trans-1,3-Dichloropropene	ND	1	0.50	µg/L
trans-1,4-Dichloro-2-butene	ND	1	5.0	µg/L
Trichloroethene	ND	1	0.50	µg/L
Trichlorofluoromethane	ND	1	0.50	µg/L
Vinyl Chloride	ND	1	0.50	µg/L
Xylenes, Total	ND	1	1.0	µg/L
<b>Surrogate for Blank</b>	<b>% Recovery</b>	<b>Control Limits</b>		
4-Bromofluorobenzene	<b>97.0</b>	60 - 130		
Dibromofluoromethane	<b>79.5</b>	60 - 130		
Toluene-d8	<b>112</b>	60 - 130		



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

**LCS / LCSD - Liquid - TPH-Extractable: EPA 3510C / EPA 8015B(M)**

**QC Batch ID: WDA080417**

Reviewed by: mtran - 04/18/08

**QC/Prep Date: 4/17/2008**

**LCS**

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Diesel	<50	1000	758	µg/L	75.8	45 - 140
TPH as Motor Oil	<200	1000	628	µg/L	62.8	45 - 140
<b>Surrogate</b>	<b>% Recovery</b>	<b>Control Limits</b>				
n-Hexacosane	82.5	50 - 150				

**LCSD**

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Diesel	<50	1000	788	µg/L	78.8	3.8	25.0	45 - 140
TPH as Motor Oil	<200	1000	644	µg/L	64.4	2.6	25.0	45 - 140
<b>Surrogate</b>	<b>% Recovery</b>	<b>Control Limits</b>						
n-Hexacosane	83.3	50 - 150						



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**LCS / LCSD - Liquid - TPH-Purgeable - GC : EPA 5030B / EPA 8015B**

**QC Batch ID: WGC080417**

Reviewed by: MaiChiTu - 04/21/08

**QC Batch ID Analysis Date: 4/17/2008**

**LCS**

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<50	120	144	µg/L	115	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	118.0	65 - 135

**LCSD**

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<50	120	134	µg/L	107	7.2	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	115.0	65 - 135



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**LCS / LCSD - Liquid - TPH-Purgeable - GC : EPA 5030B / EPA 8015B**

**QC Batch ID: WGC080418**

Reviewed by: MaiChiTu - 04/23/08

**QC Batch ID Analysis Date: 4/18/2008**

**LCS**

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<50	120	130	µg/L	104	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	108.0	65 - 135

**LCSD**

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<50	120	137	µg/L	110	5.2	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	119.0	65 - 135





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**LCS / LCSD - Liquid - TPH-Purgeable - GC : EPA 5030B / EPA 8015B**

**QC Batch ID: WGC080423**

Reviewed by: MaiChiTu - 04/24/08

**QC Batch ID Analysis Date: 4/23/2008**

**LCS**

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<50	120	135	µg/L	108	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	111.0	65 - 135

**LCSD**

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<50	120	133	µg/L	106	1.5	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	112.0	65 - 135



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**LCS / LCSD - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater**

**QC Batch ID: WM1080416**

Reviewed by: MaiChiTu - 04/17/08

**QC Batch ID Analysis Date: 4/16/2008**

**LCS**

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	<0.50	20	18.1	µg/L	90.5	70 - 130
Benzene	<0.50	20	21.7	µg/L	108	70 - 130
Chlorobenzene	<0.50	20	21.6	µg/L	108	70 - 130
Methyl-t-butyl Ether	<1.0	20	15.6	µg/L	78.0	70 - 130
Toluene	<0.50	20	20.5	µg/L	102	70 - 130
Trichloroethene	<0.50	20	20.8	µg/L	104	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	<b>98.1</b>	60 - 130
Dibromofluoromethane	<b>84.7</b>	60 - 130
Toluene-d8	<b>95.0</b>	60 - 130

**LCSD**

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	<0.50	20	16.6	µg/L	83.0	8.6	25.0	70 - 130
Benzene	<0.50	20	18.3	µg/L	91.5	17	25.0	70 - 130
Chlorobenzene	<0.50	20	19.4	µg/L	97.0	11	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	14.6	µg/L	73.0	6.6	25.0	70 - 130
Toluene	<0.50	20	18.4	µg/L	92.0	11	25.0	70 - 130
Trichloroethene	<0.50	20	18.5	µg/L	92.5	12	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	<b>95.7</b>	60 - 130
Dibromofluoromethane	<b>80.8</b>	60 - 130
Toluene-d8	<b>96.4</b>	60 - 130



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MS / MSD - Liquid - TPH-Purgeable - GC : EPA 5030B / EPA 8015B

QC Batch ID: WGC080417

Reviewed by: MaiChiTu - 04/21/08

QC Batch ID Analysis Date: 4/17/2008

MS Sample Spiked: C0550-001

Parameter	Sample Result	DF	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits
TPH as Gasoline	ND	1	120	136	µg/L	4/17/2008	109	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	125.0	65 - 135

MSD Sample Spiked: C0550-001

Parameter	Sample Result	DF	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	ND	1	120	137	µg/L	4/17/2008	110	0.73	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	126.0	65 - 135



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**MS / MSD - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater**

**QC Batch ID: WM1080416**

Reviewed by: MaiChiTu - 04/17/08

**QC Batch ID Analysis Date: 4/16/2008**

**MS Sample Spiked: C0550-002**

Parameter	Sample Result	DF	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits
1,1-Dichloroethene	ND	1	20	15.3	µg/L	4/16/2008	76.5	70 - 130
Benzene	ND	1	20	18.7	µg/L	4/16/2008	93.5	70 - 130
Chlorobenzene	ND	1	20	18.3	µg/L	4/16/2008	91.5	70 - 130
Methyl-t-butyl Ether	ND	1	20	13.6	µg/L	4/16/2008	68.0	70 - 130 ***
Toluene	ND	1	20	18.7	µg/L	4/16/2008	93.5	70 - 130
Trichloroethene	ND	1	20	17.7	µg/L	4/16/2008	88.5	70 - 130
<b>Surrogate</b>	<b>% Recovery</b>	<b>Control Limits</b>						
4-Bromofluorobenzene	<b>93.3</b>	60 - 130						
Dibromofluoromethane	<b>82.9</b>	60 - 130						
Toluene-d8	<b>100.0</b>	60 - 130						

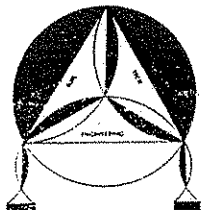
**MSD Sample Spiked: C0550-002**

Parameter	Sample Result	DF	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	ND	1	20	15.6	µg/L	4/16/2008	78.0	1.9	25.0	70 - 130
Benzene	ND	1	20	18.2	µg/L	4/16/2008	91.0	2.7	25.0	70 - 130
Chlorobenzene	ND	1	20	18.1	µg/L	4/16/2008	90.5	1.1	25.0	70 - 130
Methyl-t-butyl Ether	ND	1	20	13.9	µg/L	4/16/2008	69.5	2.2	25.0	70 - 130 ***
Toluene	ND	1	20	18.2	µg/L	4/16/2008	91.0	2.7	25.0	70 - 130
Trichloroethene	ND	1	20	17.4	µg/L	4/16/2008	87.0	1.7	25.0	70 - 130
<b>Surrogate</b>	<b>% Recovery</b>	<b>Control Limits</b>								
4-Bromofluorobenzene	<b>94.3</b>	60 - 130								
Dibromofluoromethane	<b>83.6</b>	60 - 130								
Toluene-d8	<b>98.4</b>	60 - 130								

Comment: MS% and MSD % of MTBE recovery is outside of the control limits. However, the batch was accepted by the LCS/LCSD recoveries.

CHAIN OF CUSTODY RECORD

PROJ. NO. 12-04-770-6		NAME 5630 San Pablo Ave, Oakland					CON-TAINER	ANALYSES REQUESTED IPHO by 8/15/01 IPHO by 8/15/01 EPA 821-0-01-01	REMARKS
SAMPLERS: (Signature) Ruth Mandy @0550									
NO.	DATE	TIME	SOIL	WATER	LOCATION				
1	4/11/08			✓	STMW-1	001	6	✓ ✓ ✓	
2				✓	STMW-2	002	6	✓ ✓ ✓	
3				✓	STMW-3	003	6	✓ ✓ ✓	
4				✓	STMW-4	004	6	✓ ✓ ✓	
5				✓	STMW-5	005	6	✓ ✓ ✓	
							Rec'd (1) liter Amber Broken		
Rec'd (2) liter Amber's w/10 (4) VOC's HCL w/ 5.2° Temp.									
							*Full lists		
							*All vials are HCL preserved*		
							Note: Please label the field points according to the Chain		
Relinquished by: (Signature) Ruth Mandy		Date / Time 4/15/08 1025		Received by: (Signature) [Signature]		Relinquished by: (Signature)		Date / Time	Receive by: (Signature)
Relinquished by: (Signature) [Signature]		Date / Time 4/15/08 1107		Received by: (Signature) [Signature]		Relinquished by: (Signature)		Date / Time	Received by: (Signature)
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks Please send lab report to Frank Hamedi	



ENVIRO SOIL TECH CONSULTANTS

Environmental & Geotechnical Consultants  
131 TULLY ROAD, SAN JOSE, CALIFORNIA 95111  
Tel: (408) 297-1500 Fax: (408) 292-2116

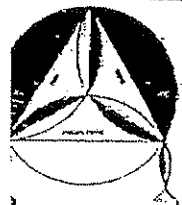
PROJ. NO. 12-04-770-61 NAME 5630 San Pablo Ave, Oakland

SAMPLERS: (Signature) *Ruth Mandy* CO550

NO.	DATE	TIME	SOIL		LOCATION	CON-TAINER	ANALYSES REQUESTED			REMARKS
			1015	WATER			PH	PHOSPHORUS	LEAD	
1	4/11/08	10:22		✓	STMW-1 001	6	✓	✓	✓	EDF #T06019784055 *Full lists *All vials are HCL preserved Note: Please label the field points according to the Chain
2		11:10		✓	STMW-2 002	6	✓	✓	✓	
3		12:01		✓	STMW-3 003	6	✓	✓	✓	
4		12:57		✓	STMW-4 004	6	✓	✓	✓	
5	✓	9:58		✓	STMW-5 005	6	✓	✓	✓	

*Revised COC*

Relinquished by: (Signature) <i>Ruth Mandy</i>	Date / Time 4/15/08 10:25	Received by: (Signature) <i>[Signature]</i>	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Please send lab report to Frank Hamedi	



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