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HEMMAT & DOKHANCHY ASSOCIATES 1721 BROADWAY, SUITE 204 OAKLAND, CALIFORNIA 94612 10.451.1200 FAX 510.451.1112

August 1, 2007

Ms. Donna Drogos Alameda County Health Care Services Agency Environmental Health Services 1131 Harbor Parkway, Suite 250 Alameda, California 94502-6577

Re: Preliminary Investigation and Evaluation Report for Former Mohawk Oil Company 5630 San Pablo Avenue, Oakland, California

Dear Ms. Drogos:

Enclosed are copies of the report dated July 25, 2007, concerning the preliminary investigation and evaluations of the reference site as prepared by my consultant, Enviro Soil Tech Consultants.

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

Very truly yours,

HEMMAT & DOKHANCHY ASSOCIATES

Dury

Mehrdad Dokhanchy General Partner

Enclosures hem\5630\072507envirrpts.xmt

#### PRELIMINARY INVESTIGATION AND EVALUATION REPORT FOR FORMER MOHAWK OIL COMPANY LOCATED AT 5630 SAN PABLO AVENUE OAKLAND, CALIFORNIA JULY 25, 2007

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

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

#### LIST OF TABLES

- **TABLE 1** ... Groundwater Monitoring Data and Analytical Results
- **TABLE 2** ... Summary of Soil Samples Analytical Results
- **TABLE 3** ... Summary of Monitoring Wells Data

#### LIST OF FIGURES

- **FIGURE 1 ...** Site Vicinity Map Showing 5630 San Pablo Avenue, Oakland, California
- FIGURE 2A ... Site Map Showing Location of Storage Building, Former USTs and Dispenser Island, Previous Soil Boreholes and Newly Installed Monitoring Wells
- FIGURE 2 ... Site Plan Showing Groundwater Flow Direction
- FIGURE 3 ... TPHg Concentration Contour Map
- FIGURE 4 ... Benzene Concentration Contour Map

#### LIST OF APPENDICES

- **APPENDIX "A"** ... Tables 1, 2 and 3
- **APPENDIX ''B''** ... Figures 1, 2A, 2, 3 and 4
- **APPENDIX "C"** ... Standard Operation Procedures
- APPENDIX "D" ... Boring Logs
- **APPENDIX ''E''** ... Hydrographs
- APPENDIX "F" ... Laboratory Reports and Chain-of-Custody Records
- APPENDIX "G" ... Well Construction Permits
- APPENDIX "H" ... Well Completion Reports
- APPENDIX "I" ... Field Notes Data

### **TABLE OF CONTENTS**

### Page Number

Letter of Transmittal	1-2
1.0 Introduction 1.1 Site Location and Description 1.2 Background	3 3-4
2.0 Scope of Work	4-5
3.0 Local Hydrogeology	5
4.0 Field Procedures	5-7
5.0 Soil Types and Laboratory Results	7-8
6.0 Groundwater Laboratory Results	8-9
7.0 Groundwater Flow Direction	9
8.0 Conclusions and Recommendations	9-10
9.0 Limitations	10-11

### APPENDIX "A"

Table 1 - Groundwater Monitoring Data and         Analytical Results	T1
Table 2 - Summary of Soil Samples Analytical Results	T2
Table 3 - Summary of Monitoring Wells Data	T3

### TABLE OF CONTENTS CONT'DPage Number

#### APPENDIX "B"

Figure 1 - Vicinity Map	M1
Figure 2A - Site Map	M2A
Figure 2 - Groundwater Elevation Contour Map	M2
Figure 3 - TPHg Concentration Contour Map	M3
Figure 4 - Benzene Concentration Contour Map	M4

#### APPENDIX "C"

Drilling and Soil Sampling Procedure	SOP1-SOP2
Monitoring Well Installation	SOP3-SOP4
Well Development	SOP5
Groundwater Sampling	SOP6

#### APPENDIX "D"

**Boring Logs** 

#### APPENDIX "E"

Hydrographs

#### APPENDIX "F"

Entech Analytical Labs Reports and Chain-of-Custody Records

### TABLE OF CONTENTS CONT'D

Page Number

#### APPENDIX "G"

Alameda County Public Works Agency's Wells Construction Permits

#### APPENDIX "H"

Wells Completion Reports

#### APPENDIX "I"

Field Notes Data



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

July 25, 2007

File No. 12-04-770-GI

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

#### SUBJECT: PRELIMINARY INVESTIGATION AND EVALUATION REPORT FORMER MOHAWK OIL COMPANY Located at 5630 San Pablo Avenue, in Oakland, California

#### Dear Mr. Hemmat:

In accordance with the site assessment work plan submitted to the Alameda County Health Care Services Agency, Environmental Health Division (ACHCSAEHD) by AEI Consultants in December 2000, per your request and authorization, Enviro Soil Tech Consultants (ESTC) installed five groundwater monitoring wells at the referenced site in May 2005. Now that payment issues regarding this work have been resolved, ESTC is pleased to transmit our findings in this Preliminary Investigation and Evaluation Report (PIER). Our report has been prepared in accordance with the *Tri-Regional Board Recommendations for Preliminary Assessment of Underground Tank Sites*.

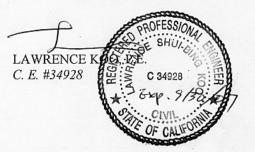
If you have any questions or require additional information, please feel free to contact our office at 408-297-1500 or via email at <u>info@envirosoiltech.com</u>.

Sincerely yours,

ENVIRO SOIL TECH CONSULTANTS

RANK HAMEDI GENERAL MANAGER

Vich B. Cherven, Ph.D. P.G. #3475



2

### PRELIMINARY INVESTIGATION AND EVALUATION REPORT For Former Mohawk Oil Company 5630 San Pablo Avenue Oakland, California

#### **1.0 INTRODUCTION**

#### 1.1 Site Location and Description

The site is located at the intersection of San Pablo Avenue and Aileen Street (Figure 1). Figure 2 is a map of the site, and shows the location of the underground storage tanks and dispensers and the wells that were drilled in our investigation, as well as the borings that were drilled previously by AEI Consultants.

#### 1.2 Background

In June of 2000, AEI Consultants conducted a preliminary environmental investigation at 5630 San Pablo Avenue in Oakland. After reviewing the results of that investigation the Environmental Health Division of the Alameda County Health Care Services Agency, which is the lead agency responsible for regulatory oversight of the investigation and cleanup of environmental contamination resulting from leaks or spills of hazardous substances on private and public property in the County, identified Mr. Don Rosenberg and Mrs. Rita Robinson as Responsible Parties for further investigation of reported petroleum contamination at the site. The ACHCSA requested the RP's to submit a work plan for additional investigation, and AEI Consultants submitted the plan in December 2000. The work plan was approved by ACHCSA in February 2001, but the RP's did not authorize the consultant to perform the work at that time.

The property was subsequently sold to Mr. Jacky Li in 2002, who used it for storage of equipment and supplies until putting it up for sale in 2003. The potential buyer retained International Geologic to conduct a Phase I property transfer assessment in June of that year. The Phase I assessment did not include any sample collection or analysis.

The current property owner, Mr. Ed Hemmat, retained Enviro Soil Tech Consultants (ESTC) in early 2005 to implement the original work plan that had been submitted by AEI Consultants in 2000. The work was performed in May 2005, but payment was delayed and the results were withheld pending receipt of the invoiced amount. That issue has now been resolved, and this report presents the results of the work.

#### 2.0 SCOPE OF WORK

Our investigation included seven tasks. This scope of work was requested and approved by the ACHCSA. These tasks are summarized below.

- Obtain the necessary drilling permits from Alameda County Public Works Agency-Water Resources Section (ACPWA-WRS) to perform the drilling investigation.
- Mobilize a drilling rig to the site to drill and sample five soil borings.
- Convert the borings into groundwater monitoring wells.
- Survey the locations and elevations of the monitoring wells.
- Develop, purge, and sample the monitoring wells.

- Submit the soil and groundwater samples from the borings to a state-certified analytical laboratory for analysis. The analyses included Total Petroleum Hydrocarbons in the gasoline and diesel ranges (TPHg and TPHd), volatile aromatic hydrocarbons (Benzene, Toluene, Ethylbenzene, and Total Xylenes [BTEX]), and gasoline oxygenates (MTBE, TBA, ETBE, TAME, and DIPE).
- Analyze the results and prepare a PIER report.

#### **3.0 LOCAL HYDROGEOLOGY**

The site lies in an area referred to as the East Bay Plain groundwater basin, which is bounded on the east by the Berkeley Hills and on the west by San Francisco Bay. Groundwater is recharged in the hills east of the city and flows predominantly westward toward San Francisco Bay through unconsolidated Pleistocene alluvial sediment in the shallow upper aquifer, as well as through more indurated Tertiary sediment in deeper aquifers.

The borings drilled at the site by AEI Consultants in 2000 encountered approximately 13 feet of fine-grained sediment overlying at least 7 feet of coarsergrained deposits. The fine-grained material ranged from clay to sandy clay, and the coarse-grained sediment ranged between sand and gravel.

#### **4.0 FIELD PROCEDURES**

Field work was conducted on May 4 and 5, 2005. Vironex mobilized a trailermounted direct-push (Geoprobe®) drilling rig and drilled five borings (Figure 2). Soil samples were collected in continuous polyethylene tubes for examination and lithologic description, and a field engineer from ESTC logged, described, and sampled the cores.

The boring logs are included in Appendix "D". The cores were examined for evidence of hydrocarbon staining or odors, and were sampled at 5-foot intervals at depths of 5, 10, and 15 feet below surface grade. A total of 15 samples were sealed, capped, and labeled and then transmitted to Entech Environmental Laboratory for analysis.

The borings were converted to monitoring wells by replacing the direct-push drilling rods with hollow-stem augers and reaming out the borings to a diameter of 8 inches. Schedule 40 PVC casing was inserted into each boring and encased in a sand pack and grouted to the surface. The casing is screened from 5 to 20 feet below grade.

ESTC conducted the well development of the newly installed groundwater monitoring wells on May 15, 2005. The monitoring wells were developed by mechanical surging and bailing until the water was reasonably free of sediment. The development equipment was steam cleaned prior to usage for each well to reduce the potential for cross-contamination. The purged water was temporarily stored on-site in labeled drums pending the results of laboratory analyses.

On May 19, 2005, 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. Purging equipment was decontaminated before and after each well was sampled using Tri-sodium Phosphate (TSP) and water wash, followed by double rinsing. The purged water was stored on site in a plastic storage tank. The monitoring data are shown in Table 1.

Water samples were collected after purging. A disposal bailer was used for sample collection. The samples were preserved in 1-liter amber glass bottles and 40-milliliter glass vials sealed with Teflon-lined screw caps, labeled and placed in a cold ice chest and then transported to Entech Analytical Labs, a state-certified laboratory for analysis, with proper chain-of-custody. The sampling was conducted in accordance with ESTC's Standard Operation Procedures (Appendix "C") and ACHCSA-EHS guidelines.

All samples were analyzed using EPA method 8015 to detect Total Petroleum Hydrocarbons (TPHg and TPHd) and EPA method 8260 to detect all other analytes of concern. The laboratory results are summarized in Tables 1 and 2 (Appendix "A"), and the laboratory reports are contained in Appendix "F".

#### 5.0 SOIL TYPES AND LABORATORY RESULTS

A variety of soil types were encountered in each boring. Beds are thinner than 5 feet and include fine-grained units such as silty clay in a variety of colors (black, brown, grayish brown, reddish brown, yellowish brown) and sandy to gravelly clay (grayish or yellowish brown). Coarser beds are also present, ranging from clayey, fine- to coarse-grained sand (light brown to yellowish brown) to clayey, sandy gravel (yellowish brown). Finer-grained beds are present in the upper few feet in all borings, and no coarse-grained beds are present above 10 feet below surface grade. A gravel bed is present in the eastern part of the site and occurs at 13 feet below grade in STMW-1 and STMW-2. Clayey to gravelly sand occurs at this depth in STMW-3 and STMW-5, and darker sandy clay occurs at this depth in STMW-4, so it is uncertain whether the gravel bed trends westward from STMW-1 and STMW-2 toward the other borings. Gravelly sand to sandy gravel is present below 15 feet in STMW-3 and STMW-4, but gray-brown gravelly clay is present at this depth in STMW-1 and STMW-2.

Fifteen soil samples were preserved for laboratory analysis, and the results are shown in Table 1 (Appendix "A"). No gasoline oxygenates were detected in any of the samples, but two volatile aromatic hydrocarbons (Ethylbenzene and Total Xylenes) were detected at very low concentrations in five samples, and the Total Petroleum Hydrocarbon concentration exceeded the 50 mg/Kg (milligram per kilogram) reporting limit in all five of these samples. The laboratory also reported TPHg at concentrations that are below the required detection limit in three other samples. In five of the eight samples, the laboratory noted that the TPHg chromatogram was depleted in the low-molecular weight volatile components such as Benzene, and interpreted the chromatograms as indicative of old, degraded gasoline. In addition, the laboratory analyzed the samples for diesel fuel and found that the chromatograms do no match the diesel standard but do contain some lightweight hydrocarbons whose presence suggests weathered gasoline.

#### 6.0 GROUNDWATER LABORATORY RESULTS

Gasoline odor or hydrocarbon sheen was observed in two of the water samples when they were collected, and gasoline was detected in all five samples (Table 2). Concentrations ranged from 170  $\mu$ g/L (microgram per liter) to 2700  $\mu$ g/L. Concentrations increased westward, or toward the location of the underground storage tanks, from STMW-1 and STMW-2 to STMW-4 and STMW-5 (Figure 3). Gasoline oxygenates were not detected, but volatile aromatic hydrocarbons (BTEX) were reported in all of the samples. The concentrations were lower than could be detected in soil samples. Benzene concentrations ranged from 3.2  $\mu$ g/L to 13  $\mu$ g/L, and the total BTEX concentration ranged from 9.8 to 57.9  $\mu$ g/L. Interestingly, BTEX concentrations increased in the opposite direction: eastward from STMW-4 toward STMW-2.

The laboratory did detect some hydrocarbons in the C8-C18 range, but the chromatograms did not match the diesel standard and the laboratory concluded that diesel fuel was not present.

#### 7.0 GROUNDWATER FLOW DIRECTION

Measured groundwater depths were converted to elevations above sea level by subtracting the depth from the surveyed casing elevations, and are shown in Table 2. The elevation data were then contoured to depict the water table and determine the groundwater flow direction and hydraulic gradient (Figure 2).

The water table was highest in STMW-1 and lowest in STMW-3, implying that the water table sloped to the south and that groundwater was flowing in that direction in May of 2005. However, the water table was not completely flat, and near the western edge of the site it appears that it sloped eastward from STMW-4. This created a slight depression in the water table between STMW-3 and STMW-4. In this area, the groundwater flow direction may have been eastward or southeastward.

The hydraulic gradient, measured between STMW-1 and STMW-3, was 0.031 ft/ft, which is rather steep.

#### 8.0 CONCLUSIONS AND RECOMMENDATIONS

Laboratory data indicate that the soil has been impacted by a release of gasoline, and that the hydrocarbons subsequently spread to groundwater. The characteristics of the water samples imply that the leak occurred prior to the introduction of gasoline oxygenates, and that since then it has been degraded by natural processes, resulting in a

decrease in the proportion of the more volatile compounds. This observation fits well with the fact that the storage tanks were removed in 1967, more than 10 years before MTBE or other oxygenates became widely used.

Gasoline concentrations are highest in the two wells that are located closest to the former underground tanks. Although the regional groundwater flow direction is westward (from STMW-4 and STMW-5 toward San Pablo Avenue), the specific site data suggest that the local groundwater flow direction is southward from these wells toward the public library site (Figure 2). Thus, because it appears that gasoline hydrocarbons may be present in groundwater south of the site, ACHCSA might not consider the case for closure without further investigation. However, it should not be necessary to analyze additional samples for diesel fuel or gasoline oxygenates, neither of which is present.

#### 9.0 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 properties.

This report is issued with the understanding that it is the responsibility of the owner or his/her representative to ensure that the information and recommendations contained herein are called to the attention of the Local Environmental Agency.

Services performed by ESTC have been in accordance with generally accepted environmental professional practices for the nature and conditions of the work completed in the same or similar localities, at the time the work was performed. This report is not meant to represent a legal opinion. No other warranty, express or implied is made.

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

# **TABLES**

### 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	В	Т	Ε	Х	MTBE	PCE	TBA	TCE	Other VOCs By 82060B
5/19/05 <b>a</b>	STMW-1 (41.92)*	20	5-20	6.68K	35.24	No sheen or odor	220	ND <50 <b>b</b>	11	18	3.1	20	ND<1	NA	NA	NA	Not Analyzed
5/19/05 <b>a</b>	STMW-2 (41.74)*	20	5-20	7.32к	34.42	No sheen or odor	170	ND <50 <b>b</b>	11	18	3.5	21	ND<1	NA	NA	NA	Not Analyzed
5/19/05 <b>a</b>	STMW-3 (42.01)*	20	5-20	8.26K	33.75	No sheen or odor	470	ND <50 <b>b</b>	13	18	4.9	22	ND<1	NA	NA	NA	Not Analyzed
5/19/05 <b>a</b>	STMW-4 (42.48)*	20	5-20	8.10K	34.38	Rainbow sheen Light petroleum odor	2700	ND <500 <b>b</b>	3.2	ND<1	1.6	5	ND<2	ND<1	ND <20	ND<1	Isopropylbenzene 36 n-Propylbenzene 30
5/19/05 <b>a</b>	STMW-5 (40.84)*	20	5-20	6.58K	34.26	Light rainbow sheen No odor	1500	ND <50 <b>b</b>	16	ND <0.5	0.52	ND <0.5	ND<1	ND <0.5	ND <10	ND <0.5	Isopropylbenzene 13

**TPHg** - Total Petroleum Hydrocarbons as gasoline

BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes

**PCE** - Tetrachloroethene

TCE - Trichloroethene

GW Elev. - Groundwater Elevation

NA - Not Analyzed

★ Well screens are submerged

**TPHd** - Total Petroleum Hydrocarbons as diesel

**MTBE** - Methyl Tertiary Butyl Ether

TBA - tert-Butanol

**VOCs -** Volatile Organic Compounds

Perf. - Perforation

ND - Not Detected (Below Laboratory Reporting Limit)

K Well screens are not submerged

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

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

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

# TABLE 2SUMMARY OF SOIL SAMPLESANALYTICAL RESULTS (mg/Kg)

Date	Sample No.	Depth	TPHg	TPHd	В	Т	Е	X	MTBE	PCE	TBA	TCE	Other VOC's by 8260B
		(feet)											
5/04/06	STMW-1-5	5	ND<2.5	ND<2.5	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.25	NA	NA	NA	Not Analyzed
	STMW-1-10	10	7.8 <b>a</b>	ND<2.5b	ND<0.025	ND<0.025	ND<0.025	0.15	ND<0.25	NA	NA	NA	Not Analyzed
	STMW-1-15	15	ND<2.5	ND<2.5	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.25	NA	NA	NA	Not Analyzed
	STMW-2-5	5	270 <b>a</b>	ND<1000c	ND<0.25	ND<0.25	0.74	2.3	ND<2.5	NA	NA	NA	Not Analyzed
	STMW-2-10	10	130	ND<12c	ND<0.25	ND<0.25	0.46	0.53	ND<2.5	NA	NA	NA	Not Analyzed
	STMW-2-15	15	41 <b>a</b>	ND<2.5d	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.25	NA	NA	NA	Not Analyzed
5/05/05	STMW-3-5	5	ND<2.5	ND<5d	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.25	NA	NA	NA	Not Analyzed
	STMW-3-10	10	330	ND<2.5e	ND<0.5	ND<0.5	1.4	2.3	ND<5	NA	NA	NA	Not Analyzed
	STMW-3-15	15	ND<2.5	ND<2.5	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.25	NA	NA	NA	Not Analyzed
	STMW-4-5	5	ND<2.5	ND<2.5d	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.25	NA	NA	NA	Not Analyzed
	STMW-4-10	10	6300 <b>a</b>	ND<5e	ND<5	ND<5	30	54	ND<50	NA	NA	NA	Not Analyzed
	STMW-4-15	15	ND<2.5	ND<2.5	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.25	NA	NA	NA	Not Analyzed
	STMW-5-5	5	ND<2.5	ND<5d	ND<0.025	ND<0.025	ND<0.025	ND<0.025	ND<0.25	NA	NA	NA	Not Analyzed
	STMW-5-10	10	230	ND<2.5f	ND<1.2	ND<1.2	1.6	ND<1.2	ND<12	NA	NA	NA	Not Analyzed
	STMW-5-15	15	5.9 <b>a</b>	ND<2.5f	ND<0.025	ND<0.025	ND<0.025	0.03	ND<0.25	NA	NA	NA	Not Analyzed

**TPHg** - Total Petroleum Hydrocarbons as gasoline

BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes

**PCE** - Tetrachloroethene

**TCE** - Trichloroethene

NA - Not Analyzed

a Age/weathered gasoline

**b** Higher boiling gasoline compounds (C8-C14) and light Oil are in the sample. No diesel pattern present

c Higher boiling gasoline compounds(C8-C16) and light Oil compounds (C190C36) are in the sample. No diesel pattern present

**d** Motor Oil is in the sample. No diesel pattern present

e Hydrocarbon compounds (8-C16). No diesel pattern present

f Higher boiling gasoline compounds mix with discrete peaks (C8-C18). No diesel pattern present

# **ENVIRO SOIL TECH CONSULTANTS**

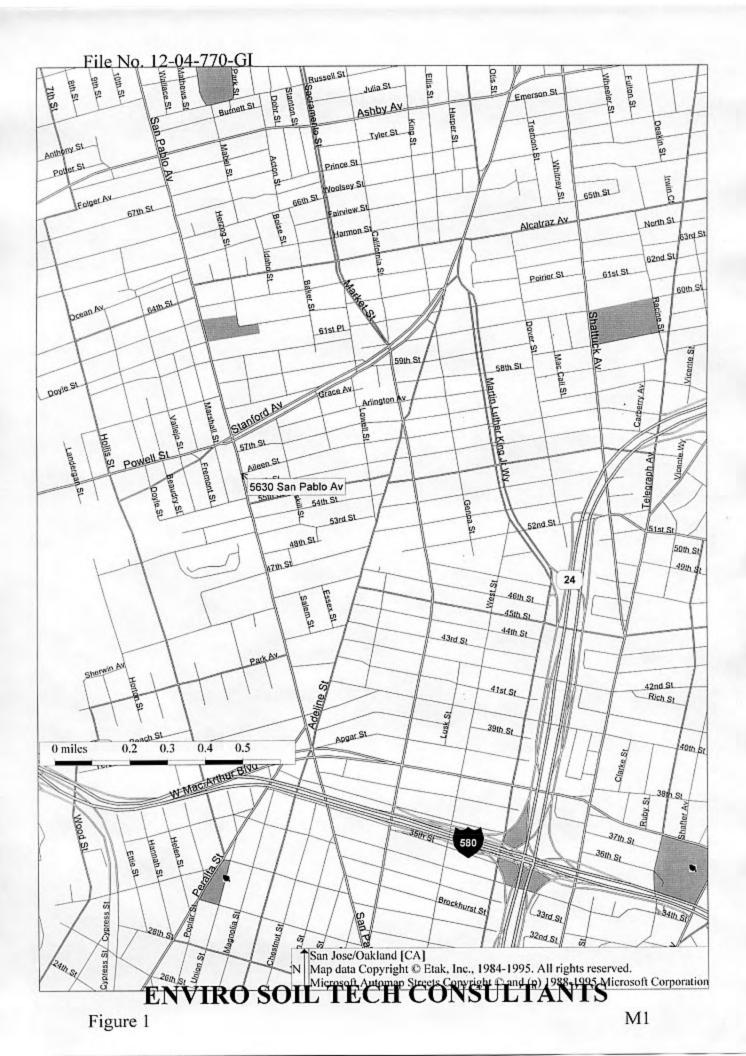
TPHd - Total Petroleum Hydrocarbons as diesel
MTBE - Methyl Tertiary Butyl Ether
TBA - tert-Butanol
VOCs - Volatile Organic Compounds
ND - Not Detected (Below Laboratory Reporting Limit)

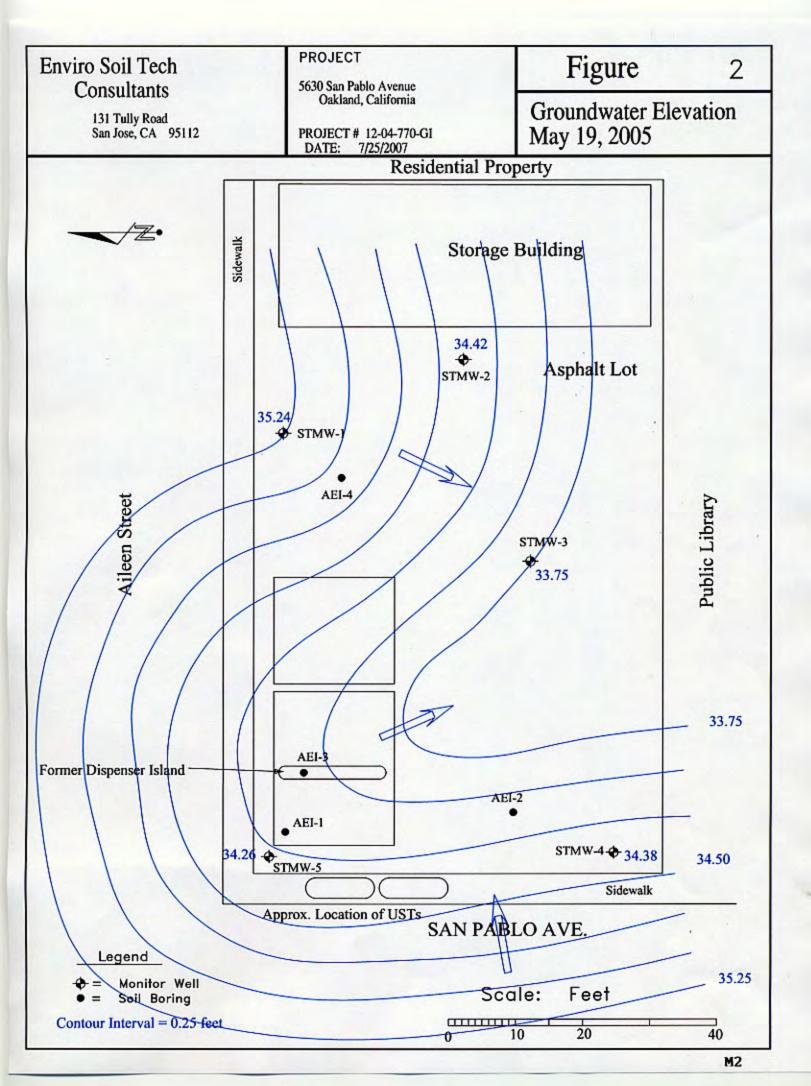
#### TABLE 3 SUMMARY OF MONITORING WELLS DATA IN FEET

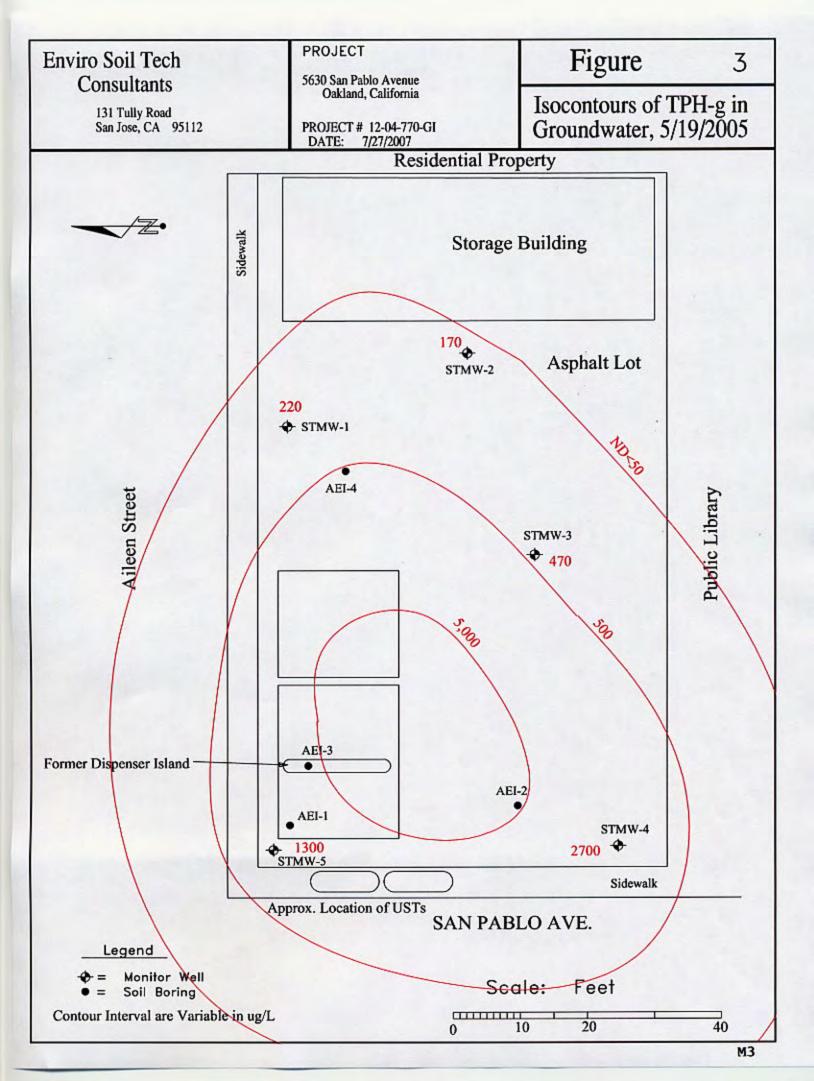
Well No.	Well Diameter (inch)	Depth of Well	Depth of Perforation	Depth of Blank	Depth of Cement	Depth of Bentonite	Depth of Sand
STMW-1	2	20	5-20	0-5	0-31/2	31/2-4	4-20
STMW-2	2	20	5-20	0-5	0-31/2	31/2-4	4-20
STMW-3	2	20	5-20	0-5	0-31/2	31/2-4	4-20
STMW-4	2	20	5-20	0-5	0-31/2	31/2-4	4-20
STMW-5	2	20	5-20	0-5	0-31/2	31/2-4	4-20

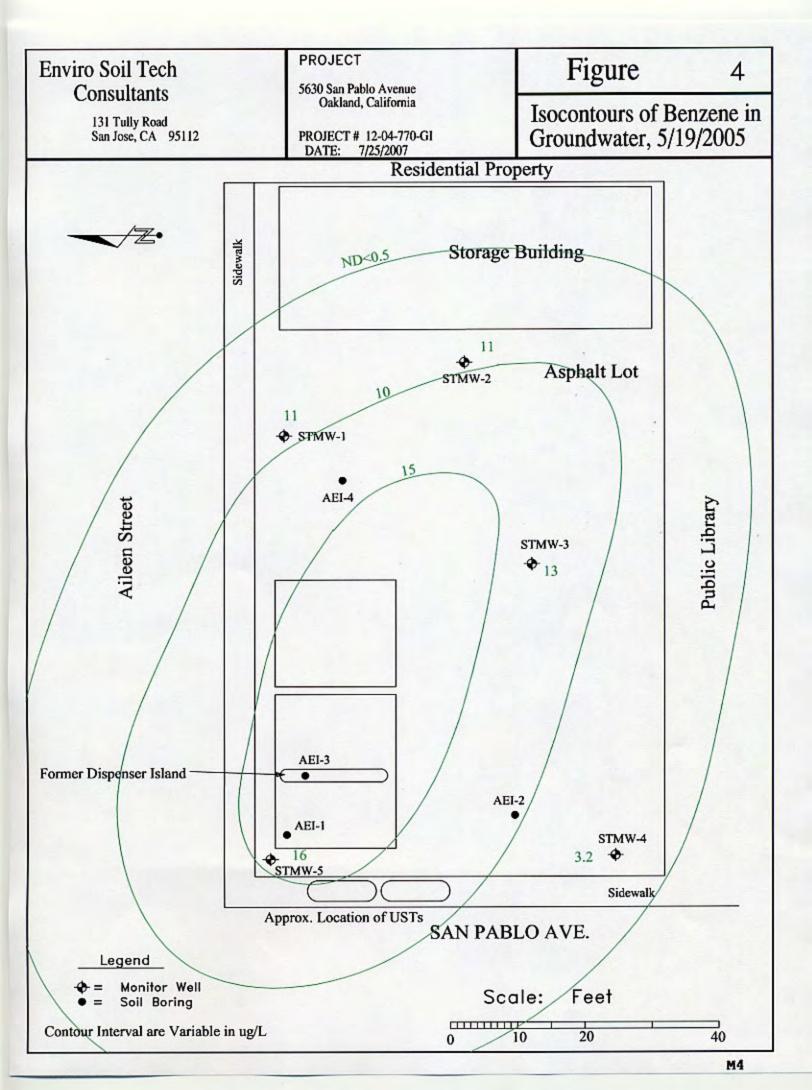
# A P P E N D I X "B"

# **FIGURES**









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

# **STANDARD OPERATION PROCEDURES**

#### DRILLING AND SOIL SAMPLING PROCEDURE

A direct push technology (Geoprobe) tool with hollow-stem auger was used in drilling the soil borings to the desired depths.

Prior to drilling, all drilling equipment was thoroughly steam-cleaned to minimize the possibility of cross-contamination and/or vertical migration of possible contaminants.

In addition, sampling equipment was washed between samples with Tri-sodium Phosphate (TSP) solution or an equivalent EPA-approved detergent followed by a rinse in distilled water.

During the drilling operation, undisturbed soil samples were taken from the required depth by forcing a 2-inch sampler lined with polyethylene or brass tubes driven into undisturbed sediments at the bottom of the borehole by means of hydraulic push technologies.

The selected sampling tubes were immediately trimmed, the ends covered tightly with aluminum foil and plastic caps, sealed with tape labeled, placed in a plastic bag and stored in a cold ice chest in order to minimize the escape of any volatile present in the samples. Soil samples were sent to a state-certified hazardous waste laboratory for analysis accompanied by a chain-of-custody record.

Soil samples collected at each sampling interval were inspected for any possible contamination (odor or peculiar colors). Soil vapor concentrations were measured in the field by using a Photoionization Detector (PID), Photovac Tip Air Analyzer. The soil sample was sealed in a Zip-Loc plastic bag and placed in the sun to enhance volatilization of the hydrocarbons from the sample. The purpose of this field analysis is to qualitatively determine the presence or absence of hydrocarbons and to establish which soil samples were analyzed at the laboratory. The data was recorded on the drilling log at the depth corresponding to the sampling point.

Other soil samples may be collected to document the stratigraphy and estimate relative permeability of the subsurface materials.

Soil tailings that are obtained during drilling were stored at the site, pending the analytical test results to determine proper disposal.

#### MONITORING WELL INSTALLATION

The boreholes for the monitoring wells were hand augered to the depth of 5-feet in order to detect any underground buried lines with a diameter of at least two inches larger than the casing outside diameter (O.D.).

The monitoring wells were cased with threaded, factory-perforated and blank, schedule 40 PVC. The perforated interval consisted of slotted casing, generally 0.010 to 0.040 inch wide by 1.5-inch long slot size, with 42 slots per foot (slots which match formation grain size as determined by field grain-size distribution analysis). A PVC cap was fastened to the bottom of the casing (no solvents, adhesive, or cements were used), the well casing was thoroughly washed and steam-cleaned.

After setting the casing inside the borehole, kiln-dried sand or gravel-filter material was poured into the annular space to fill from the bottom of the boring to two feet above the perforated interval. Half-a-foot to two feet thick bentonite plug was placed above this filter material to prevent grout from infiltrating down into the filter material. Approximately one to two gallons of distilled water was added to hydrate the bentonite pellets. Then the well was sealed from the top of the bentonite seal to the surface with concrete or neat cement containing about 5% bentonite (see Well Construction Detail).

To protect the well from vandalism and surface water contamination, Christy box with a special type of Allen screw was installed around the wellhead, (for wells in parking lots, driveways and building areas). Steel stove pipes with padlocks were usually set over wellheads in landscaped areas.

In general, groundwater monitoring wells extend to the base of the upper aquifer, as defined by the consistent (less than 5 feet thick) clay layer below the upper aquifer, or at least 10 to 15 feet below the top of the upper aquifer, whichever is shallower. The wells do not extend through the laterally extensive clay layer below the upper aquifer. The wells are terminated one to two feet into such a clay layer.

#### WELL DEVELOPMENT

For all newly installed groundwater monitoring wells, the well casing, filter pack and adjacent formations were cleared of disturbed sediment and water.

Well development techniques including pumping, bailing, surging, swabbing, jetting, flushing or air lifting by using a stainless steel or Teflon bailer, a submersible stainless steel pump, or air lift pump. The well development was continued until the discharged water appeared to be relatively free of all turbidity.

All water and sediment generated by well development was collected in 55-gallon steel drums (Department of Transportation approved), closed head (17-H) for temporarily storage, and then was disposed of properly, depending on analytical results.

To assure that cross-contamination did not occur between wells, all well development tools were steam-cleaned or thoroughly washed in a Trisodium Phosphate (TSP) solution followed by a rinse in distilled water before each well development.

#### **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" was filled out (depth to water and total depth of water column will be measured and recorded). The well then was 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.

Liter amber glass bottles and forty milliliter (ml.) glass volatile organic analysis (VOA) vials 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 quickly was placed over the top of the vial and securely tightened. The VOA vial was then be inverted and tapped to see if air bubbles are present. If none is present, then the sample was labeled and refrigerated for delivery under chain-of-custody to the laboratory. The label information has included a sample identification number, job identification number, date, time, type of analysis requested and the sampler's name.

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

# **BORING LOGS**

BORING		5630 San Pablo Avenue, Oa	GROUND SURFACE ELEVATION: TOP OF WELL CASING ELEVATION:														
DRILLIN	G	Vironex, Inc.		DRILL	ER	John	McAssey	DATE STARTED: 5/04/05 DATE FINISHED: 5/04/05									
DRILLIN	G	Geoprobe							MPLET PTH (ft)		20 fee	et					
DRILLIN	G	Direct Push		DRILL	BIT			HAMMER SAMPLER 2" Polyethylene									
SIZE AN	D TYP	E 2-inch PVC Schedule 4	NUMBER OF BULK: 3 DRIVE:														
TYPE O	-	0.020-inch PVC Sched	WATER FIRST: COMPL.: 24 hrs.														
PERFOR	D TYP			FROM	4 feet	то	20 feet	_	GGED	Frank	Hame	edi		HECKE	D Lawn	ence Ko	
OF PAC		TYPE	FR T	0		TYPE		F	R T								
TYPE SEA		No. 1: Cement No. 2: Bentonite	0 foot 3% 3% feet 4 f	feet No.				+			G	OF	BC	RIN	G ST	NVV-1	
	-	No. 2. Demonie	prilond 41						ГТ		SA	MPL	ES	INDE	X PROP		
DEPTH O(feet)		MATERIA DESCRIPTIO			uscs	SOIL GRAPHIC	WELL GRAPHIC	PID, ppm	WATER LEVEL	DEPTH (feet)	NUMBER TYPE	POCKET PEN, Isf	1001 BLOWS/	MOISTURE CONTENT (%)	DRY DENSITY (pct)	UNCONFINED COMPRESSIVE STRENGTH	
0-	\6-inc	ch Asphalt. ch grayish-brown sandy Gravel (b k silty Clay with miner rock fragm	oaserock). oents, damp, m	edium	CL-ML					0							
5-		colate silty Clay, damp, stiff.			CL-ML					5-	1-			1			
		dish-brown silty Clay with miner r ium stiff.	ock fragments,	, damp,	CL-ML				Ā			t					
10 -	Ligh	t brown gravely sandy silty Clay,	moist, medium	ı stiff.	CL-ML					10 -	1- 10						
15 -	dens			m	GP					15 -							
15 -	Gray	rish-brown gravely sandy Clay, d	amp, moist.		CL						1.			-			
20 -	Bori	ng terminated.		-													
25 -										25	-						
30 -										30							
35										35	-						
	12-04	-770-GI							PROJE	CT NO.	12-04	4-770	-GI	FIG	URE:		

ENVIE	RO S	OIL TECH CONSULTAN	TS										-		
BORING		5630 San Pablo Avenue, Oakla	nd, CA	_					SURFAC				N:		
DRILLIN	G	Vironex, Inc.	DRIL	LER	John	McAssey			RTED:		04/05				
DRILLIN	G	Geoprobe						MPLET PTH (ft)		0 fee	et				
DRILLIN	G	Direct Push	DRIL	L BIT	-			MER			s	AMP	LER :	2" Polyeti	hylene
METHOD SIZE AN	D TYP	E 2-inch PVC Schedule 40						MBER		BL	JLK:	3	C	RIVE:	
OF CASI TYPE OF		. 0.020-inch PVC Schedule		1 5 feet	то	20 feet	WA	TER F		200	c	OMPL		24 hrs.	
PERFOR		E					LOC	GGED	French		-		HECKE	0	ence Koo
OF PACE		Sand #2/12		4 feet	TYP	20 feet	BY	R TC	Frank	Hame	eai	В	Y	Lawie	ence Koo
TYPE		TYPE No. 1: Cement	FR TO 0 foot 31/2 feet No	o. 3:	TTP	E	1			G	OF	BC	RIN	G STN	/W-2
SEA	NL.	No. 2: Bentonite	3% feet 4 feet No	o. 4:	-							re		EX PROPE	DTIES
										54		ES	IND	EX PROPE	
		MATERIAL			2	2	Е			~			H H		UNCONFINED COMPRESSIVE STRENGTH (pst)
DEPTH O(feet)		DESCRIPTION	1	uscs	SOIL GRAPHIC	WELL GRAPHIC	PID, ppm	WATER	DEPTH (feet)	NUMBER	CKET N. Ist	/SMC	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	MPRI MPRI
DE	1			SU	SR	8 K	DIA	N H		ΞĚ	0 m	BLC	MO CO (%)	DE()	3053
0	2-inc	h Asphalt. 8-inch greenish-brown sandy Gravel I	(baserock).	CL-ML	Inter				0						
	Black	k silty Clay, damp, medium stiff.		CLIVIL											
5-	Disc	the Claus dama madium atil		CL-ML					5 -	2-				0	
	Biac	k silty Clay, damp, medium stiff.		GL-mi						5	1				
-	Crow	ish-brown silty Clay, damp, medium	etiff	CL-ML	1222			포		11					
	Gray	Isn-brown siny Glay, damp, medium :	5411.	- CL-MIL		1:1:1				11					
						1:昌:				11			1907		
10-	Light	t brown sandy Clay (very fine sand).		CL	HINN A	:昌:			10 -	2.				1	
-	Light	biolini sundy only (roly into social).			199	1:目:				10			1116		
	Yello	wish-brown sandy Gravel with 5% cla	ay, damp, mediu	m GP-GO	1000	[:昌·]				11					
-	dens				8.67										
-														1	
15 -	Gray	ish-brown gravely sandy Clay, damp	, moist.	CL	12				15-	2-					
1					14					1					1 - 1
1										11			-		
-					1					11					
-				-	12				~~	11					
20 -	Borin	ng terminated.			-				- 20	П					
	2														
05									25						
25 -									20						
							+	11							
30 -									30						
-	-														
-									1.50						
35				_					35			-	-		
1	12-04	-770-GI					F	PROJE	CT NO.	12-04	4-770	D-GI	FIG	URE:	

OCATIC		d, CA				TOP	OF W	URFAC	SING	ELEV	ATIO	N:		
GENCY	G Vironey Inc	DRILL	ER	John	McAssey		E STAR			05/05				
RILLING	G Geoprobe						MPLETI TH (ft)	ON 2	20 fee	et				
RILLING	G Direct Push	DRILL	BIT				IMER			S	AMP	LER 2	Polyet	hylene
METHOD	D TYPE 2-inch PVC Schedule 40						MBER C	F	BL	JLK:	3	D	RIVE:	
OF CASII	NG	0 FROM	5 feet	то	20 feet	WAT	TER FI	RST:	-	lc	OMP	L:	24 hrs.	
ERFOR	ATION D TYPE		- Aller and a			LOG	GED	Frank	Ham	-		HECKE	0	ence Ko
OF PACK		FR TO	4 feet	TYPI	20 feet	BY	TO	-	name	eui	E	SY	Law	ence no
TYPE	OF No. 1: Cameral	0 foot 3½ feet No	3:		-				G	OF	BC	RIN	G STI	MW-3
SEA	No. 2: Bentonito	3½ feet 4 feet No	.4:	-			1	1	1 9/	AMPL	ES		X PROP	FRTIES
O (feet)	MATERIAL DESCRIPTION		uscs	SOIL GRAPHIC	WELL GRAPHIC	PID, ppm	WATER LEVEL	DEPTH (feet)	NUMBER		BLOWS/	W	DRY DENSITY (pd)	UNCONFINED COMPRESSIVE STRENGTH
0-	2-inch Asphalt.		-			-		0	T					
	<ul> <li>10-inch dark brown sandy Gravel (baseroc Black silty Clay with rock fragments, damp,</li> </ul>	k). . medium stiff.	CL-ML		1. 10 10									
5-	Brown sandy Clay with some rock, medium	n stiff, damp.	CL					5	3-					
-	Brown sandy gravely Clay, damp, medium	stiff.	CL				Ā							
10 -	Yellowish-brown clayey silty Sand with son medium stiff.	ne rock, moist,	SC-SM					10	3-					
15 -	Yellowish-brown silty Clay with miner rock,		CL-ML					15	3-					
20	Yellowish-brown gravely Sand (coarse san clay, wet, medium dense.	d) with 5% mine	r SP	1.1.1.1										
20	Boring terminated.													
25 -								25	-					
30 -								30						
35								35	-					

SIZE AND TYPE OF CASING     2-inch PVC Schedule 40     FROM 5 feet TO     20 feet     NUMBER OF SAMPLES     BULK: 3     DRIVE:       TYPE OF PERFORATION OF PACK     0.020-inch PVC Schedule 40     FROM 5 feet TO     20 feet     WATER FIRST: DEPTH     COMPL.:     24 hrs.       SIZE AND TYPE OF PACK     Sand #2/12     FROM 4 feet TO     20 feet     LOGGED BY     Frank Hamedi     CHECKED BY     Lawrence       TYPE OF SEAL     TYPE     FR     TO     TYPE     FR     TO     LOG OF BORING STMW       No. 2: Bentonite     3½ feet 4 feet     No. 4:     SAMPLES     INDEX PROPERTING	ENVIF	RO S	OIL TECH CONSULTAN	ITS													
Anderson         Vicinex, Inc.         DRILLER         John Mickasey         DATE FINISHED         500505           Doublinker         Deriver         20 feet         DEPTH IM         20 feet         DEPTH IM         20 feet           DOUBLING DOUBLING         Direct Push         DRILL BIT         HAMMER         SAMPLER         2" Polyethyle           Size AND TYPE         2 Inch PVC Schedule 40         FROM 5 feet TO         20 feet         DEPTH IM         COMME         24 inc.           Size AND TYPE         Sand #2/12         FROM 4 feet TO         20 feet         DEPTH         COMME         24 inc.           Size AND TYPE         Sand #2/12         FROM 4 feet TO         20 feet         DEPTH         COMPLES         Intercent         DEVECT         24 inc.           TYPE OF         Int 1 Commer         DESCRIPTION         Size AND TYPE         Size AND TYPE         Intercent         DEVECT         DEVECT         DEVECT         DEVECTOR         DEVECT         DEVECT         DEVECT         DEVECT         DEVECT         DEVECT         DEVECT         DEVECT         DEVECTOR         DEVECTOR <td></td> <td></td> <td>5630 San Pablo Avenue, Oakl</td> <td>and, CA</td> <td></td> <td></td> <td>_</td> <td></td> <td>TOP</td> <td>OFW</td> <td>ELL CAS</td> <td>SING</td> <td>ELEV</td> <td>ATIO</td> <td>N:</td> <td></td> <td></td>			5630 San Pablo Avenue, Oakl	and, CA			_		TOP	OFW	ELL CAS	SING	ELEV	ATIO	N:		
DRILLING Commentary METHOD         Complete Prush Direct Push         DRILL BIT         HAMMER Marker 0° Marker 0° Marker 0° Marker 0° Marker 0° Marker 0° Marker 0° Processor         SAMPLER SAMPLER         2"Polyethyle           VECTOR OF CASH OF CASH PERCINCTION         0 20 cleat Marker 0° Processor         0 20 cleat Marker 0° Processor         SAMPLER         2"Polyethyle           VECTOR OF CASH OF PACK         2 cleat PERCINCTION         0 20 cleat Marker 0° Processor         VECTOR PERCINCTION         20 feet Marker 0° Processor         Marker 0° Processor         Built 3 Developed Prance         24 text           TYPE         TYPE         TRIL 10 Processor         TYPE         TRIL 10 Processor         10 20 feet Prance         10 Clease Prance         10 Clease Pran			Vironex, Inc.	DI	RILLE	R	John	McAssey	DAT	TE FINI	SHED:						
DRILLING Entropy         Dreck Push         DRILL BIT         HAMMER         SAMPLER         2* Polyeibyle SAMPLES           0F CASING OF CASI	DRILLING	G	Geoprobe									20 fee	et				
Size AND TYPE     2-inch PVC Schedule 40     Mulder OF     BULL: 3     DRV/E:       TYPE OF     0.020-inch PVC Schedule 40     FROM 5 feet TO     20 feet     VOEPTH     COMPL:     24 in:       Size AND TYPE     Sand #2/12     FROM 4 feet TO     20 feet     VOEPTH     CoMPL:     24 in:       Size AND TYPE     Sand #2/12     FROM 4 feet TO     20 feet     VOEPTH     CoMPL:     24 in:       TYPE OF     Int 1 comon     Transport     0     10     Size 40 TYPE     Intercent       TYPE OF     Int 1 comon     Transport     10     Size 40 TYPE     Intercent     Intercent       O     MATERIAL     Size 40 TYPE     Intercent     Size 40 TYPE     Intercent     Intercent       TYPE OF     Int 1 comon     Size 40 TYPE     Intercent     Size 40 TYPE     Intercent     Intercent       O     MATERIAL     Size 40 TYPE     Intercent     Size 40 TYPE     Intercent     Intercent       O     MATERIAL     Size 40 TYPE     Size 40 TYPE     Intercent     Intercent     Intercent       O     MATERIAL     Size 40 TYPE     Size 40 TYPE     Size 40 TYPE     Intercent     Intercent       Intercent     MATERIAL     Size 40 TYPE     Size 40 TYPE     Size 40 TYPE     Size 40 TYPE <td>DRILLING</td> <td>G</td> <td>Direct Push</td> <td>DI</td> <td>RILL</td> <td>віт</td> <td></td> <td></td> <td>HAM</td> <td>MMER</td> <td></td> <td></td> <td>S</td> <td>AMP</td> <td>LER 2</td> <td>Polyet</td> <td>hylene</td>	DRILLING	G	Direct Push	DI	RILL	віт			HAM	MMER			S	AMP	LER 2	Polyet	hylene
Offer Carbon     0.020-Inch PVC Schedule 40     FROM 5 feet TO     20 feet     WATER FRIST: DOCED     COMPL:     24 hrs.       SIZE AND TYPE     Sand #2/12     FROM 4 feet TO     20 feet     UOCED     Frank Hamedi     OFFCKED     Lawrence BY       TYPE     FR     TO     20 feet     TYPE     FR     TO     LOG OF BORING STMM       SEAL     Intel 1 Common     10 feet Box 4     TYPE     FR     TO     LOG OF BORING STMM       Seal #212     FROM 4 feet Box 4     TYPE     FR     TO     LOG OF BORING STMM       Seal #212     FROM 5 feet Box 4     TYPE     FR     TO     LOG OF BORING STMM       Seal #2000     DESCRIPTION     Step Box 4     TYPE     FR     TO     LOG OF BORING STMM       2000     DESCRIPTION     Step Box 4     TYPE Step Box 4     TO     Step Box 4     TO     Step Box 4       2010     DESCRIPTION     Step Box 4     Step Box 4     TO     Step Box 4     Step Box 4     TO     Step Box 4       2010     DESCRIPTION     Step Box 4     Step Box 4     TO     Step Box 4     Step Box 4     Step Box 4     Step Box 4       2010     Data brown sandy Clay with some rook, medium stiff, damp.     CL-Mit 4     Step Box 4     Step Box 4     Step Box 4     Step Box	SIZE AN	D TYP	E 2-inch PVC Schedule 40									BL	JLK:	3	D	RIVE:	
Check Mon Varies GP PACK     Sand #2/12     FROM 4 feet T0     20 feet     Discrete Type OF No. 2 Benown     Check Discrete Discrete No. 2 Benown     Converte Discrete Discrete No. 2 Benown     Converte Discre Discre Discrete Discrete Discrete Discrete Discrete Discrete Dis	TYPE OF		0.020-inch PVC Schedule	40 FR	MO	5 feet	то	20 feet	WA	TER F			c	OMPL	L.:	24 hrs.	
OF PACK     Description     Type     Typ	SIZE AN	D TYP			OM	4 feet	то	20 feet	LOC		Frank	Ham	edi			D Lawn	ence Koo
SEAL     Colspan="2">Colspan="2"Colspan="2				FR TO			TYPE		_	R TO							
Edge     MATERIAL DESCRIPTION     SAMPLES     INDEX PROPERT       10				-	_		_		+	-		G	OF	BC	RIN	GST	NW-4
0       Veinch Asphält         0       Veinch Asphält         0       Black sity Clay with nock fragments, medium sitif, damp.         0       CL-Mit         0       S         0       Gray/brown giavely Clay with none rock, medium sitif, damp.         0       S         0 <t< td=""><td></td><td></td><td>No. 2. Denionite</td><td>5721000 4 1001</td><td>140.</td><td></td><td></td><td></td><td>-</td><td>ГТ</td><td></td><td>S</td><td>AMPL</td><td>ES</td><td>INDE</td><td>X PROP</td><td></td></t<>			No. 2. Denionite	5721000 4 1001	140.				-	ГТ		S	AMPL	ES	INDE	X PROP	
0       Veinch Asphält         0       Veinch Asphält         0       Black sity Clay with nock fragments, medium sitif, damp.         0       CL-Mit         0       S         0       Gray/brown giavely Clay with none rock, medium sitif, damp.         0       S         0 <t< td=""><td>DEPTH (feet)</td><td></td><td></td><td>N</td><td></td><td>nscs</td><td>SOIL GRAPHIC</td><td>WELL GRAPHIC</td><td>PID, ppm</td><td>WATER LEVEL</td><td>DEPTH (feet)</td><td>NUMBER</td><td>POCKET PEN, tsf</td><td>BLOWS/ foot</td><td>MOISTURE CONTENT (%)</td><td>DRY DENSITY (pd)</td><td>UNCONFINED COMPRESSIVE STRENGTH (psf)</td></t<>	DEPTH (feet)			N		nscs	SOIL GRAPHIC	WELL GRAPHIC	PID, ppm	WATER LEVEL	DEPTH (feet)	NUMBER	POCKET PEN, tsf	BLOWS/ foot	MOISTURE CONTENT (%)	DRY DENSITY (pd)	UNCONFINED COMPRESSIVE STRENGTH (psf)
5     Graybrown gravely Clay with miner sand, medium stiff, OL     F     5     4       10     Dark brown silly Clay with some gravel, damp, medium stiff, OL     10     10     4       10     Dark brown sandy Clay with miner small gravel, damp, medium stiff, OL     10     10     4       14     Vellow/brown dravely Sandy Clay with miner small gravel, damp, medium GP     15     4       20     Vellow/brown gravely Sand (coarse sand) with 5% miner     SP     20       20     Vellowidh-brown gravel with 5% clay, wet, dense.     GP     20       20     Vellowidh-brown gravel with 5% clay, wet, dense.     GP     30       20     Vellowidh-brown gravel with 5% clay, wet, dense.     GP     30	0-	\Dark	brown sandy Gravel (baserock).	dium stiff, damj													
Dark brown silty Clay with some gravel, damp, medium sliff.     CL-ML     10     10       Dark brown sandy Clay with miner small gravel, damp, medium sliff.     CL     10     10       15     Yellowibrown clayey sandy Gravel with rock, damp, medium GP     15     15       Yellowibrown gravely Sand (coarse sand) with 5% miner     SP     20       Yellowish-brown sandy Gravel with 5% clay, wet, dense.     GP     20       Yellowish-brown sandy Gravel with 5% clay, wet, dense.     GP     20       30     30     30     30	5-										5						
Dark brown sandy Clay with miner small gravel, damp, medium stiff.       OL       10       10       10         15       Yellowish-brown clayey sandy Gravel with rock, damp, medium GP       15       4       15       4       15         20       Yellowish-brown gravely Sand (coarse sand) with 5% miner       SP       20       20       20         20       Yellowish-brown sandy Gravel with 5% clay, wet, dense.       GP       20       20       20         21       Yellowish-brown sandy Gravel with 5% clay, wet, dense.       GP       20       20       30         23       30       30       30       30       30       30       30	-			damp, medium	stiff.	CL-ML				÷	10						
15     Yellow/brown clayey sandy Gravel with rock, damp, medium     GP     15     4       Yellowish-brown gravely Sand (coarse sand) with 5% miner     SP     15     4       20     Yellowish-brown sandy Gravel with 5% clay, wet, dense.     GP     20       20     Yellowish-brown sandy Gravel with 5% clay, wet, dense.     GP     20       20     Yellowish-brown sandy Gravel with 5% clay, wet, dense.     GP     20       20     Second sandy Gravel with 5% clay, wet, dense.     GP     20       25     30     30     30	10-			gravel, damp,		CL					10	1.1					
Yellowish-brown gravely Sand (coarse sand) with 5% miner     SP       20     Yellowish-brown sandy Gravel with 5% clay, wet, dense.     GP       20     Yellowish-brown sandy Gravel with 5% clay, wet, dense.     GP       25     25       30     30	15 -	Yello	w/brown clayey sandy Gravel with n	ock, damp, me	dium	GP					15	L and					
25 - Soring terminated.		Yello	wish-brown gravely Sand (coarse s	and) with 5% n	niner	SP	10000										
30-30-	20 -			clay, wet, dens	e.	GP	9960					-					
	25 -										25						
35 35	30 -										30						
12-04-770-GI PROJECT NO. 12-04-770-GI FIGURE:		12-04	-770-GI							PROJE		12-0	4-770	)-GI	FIG	URE:	

		OIL TECH CONSOLTAN	10	_				LCP	NIND	SURFAC		MATI	ON	_		
BORING	NN I	5630 San Pablo Avenue, Oakla	and, CA			_		TOP	OFV	VELL CAS	SING E		ATIO	N:		
DRILLING		Vironex, Inc.		DRILLE	ER	John I	McAssey	DAT	EFIN	RTED: ISHED:		05/05				
DRILLING		Geoprobe							APLET TH (ft		0 fee	t				
DRILLING	3	Direct Push		DRILL	віт			HAN	MER			s	AMP	LER 2	" Polyet	nylene
SIZE AND	TYP	E 2-inch PVC Schedule 40							ABER		BU	ILK: 3	3	D	RIVE:	
TYPE OF		0.020-inch PVC Schedule	40	FROM	5 feet	то	20 feet		TER F	IRST:		C	OMPL	L.:	24 hrs.	
SIZE ANI	D TYP			FROM	4 feet	то	20 feet		GED	Frank I	Hame	edi		HECKE	Lawre	ence Koo
OF PACH		TYPE	FR	то		TYPE		FF	T							
TYPE		No. 1: Cement No. 2: Bentonite		feet No.				-	-		G	OF	BC	RIN	G STN	NW-5
	-	No. 2. Demonite	Division 4	iner ine.				-	ГТ		SA	MPL	ES	INDE	X PROPE	
DEPTH O(feet)		MATERIAL DESCRIPTION	N		uscs	SOIL GRAPHIC	WELL GRAPHIC	PID, ppm	WATER LEVEL	DEPTH (feet)	NUMBER	POCKET PEN, tsf	BLOWS/ foot	MOISTURE CONTENT (%)	DRY DENSITY. (pd)	UNCONFINED COMPRESSIVE STRENGTH (psf)
0-		h Asphalt.	(nock)		GP					0		5				
-	Black	h grayish-brown sandy Gravel (base k Clay, damp, medium stiff. wish-brown clayey gravely Sand, me p.	-	ise,	SP											
5-	Black	k silty Clay, damp, medium stiff.			CL-ML					5 -	5-					100
	Brow	n clayey sandy Gravel, damp, densi	8.		GP				Å							
10-	Yello stiff.	wish-brown silty Clay with miner roc	k fragmen	ts, damp,	CL-ML					10 -	5-					
		wish-brown gravely clayey Sand wit nents, damp, very stiff.	h miner ro	ck	SC						. 10					
15-	Gray	ish-brown gravely sandy Clay, damp	o, moist.		CL	Service Service				15 -	5-			-		
20 -		t brown gravely Sand with 5% clay, r ig terminated.	noist, den	se.	SP	1018										
25 -										25 -	-					-
30 -										30 -	-					
35								_		35	-					
1	2-04-	-770-GI						1	PROJE	CT NO.	12-04	4-770	-GI	FIG	URE:	

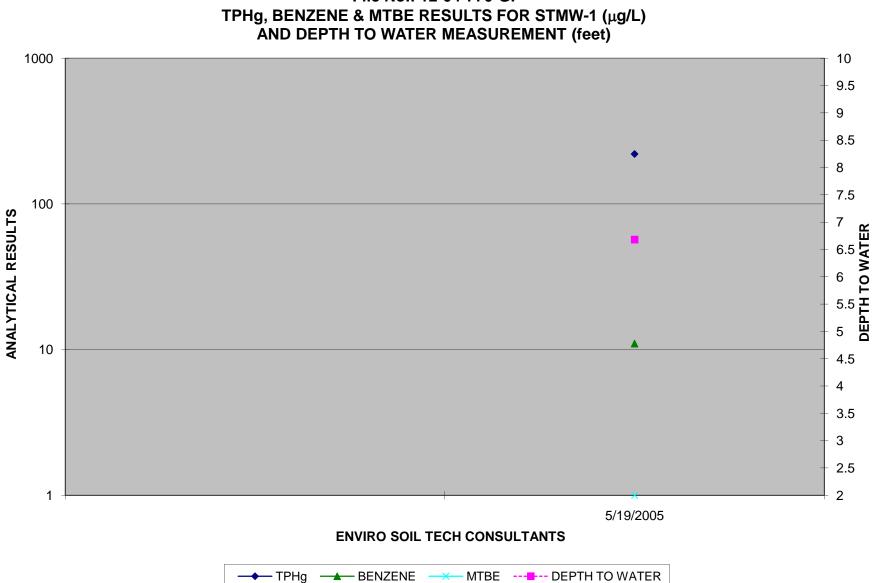
#### ENVIRO SOIL TECH CONSULTANTS

File No. 12-04-770-GI

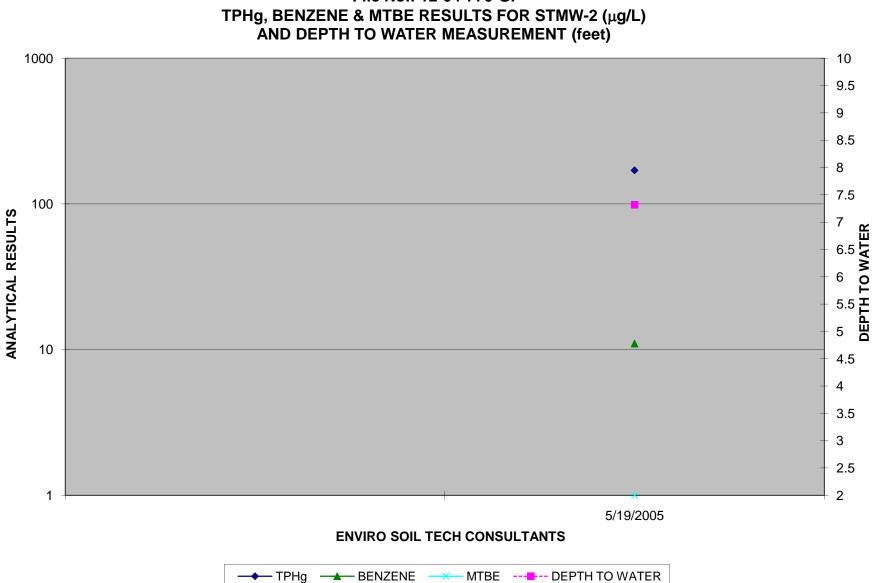
### A P P E N D I X "E"

### HYDROGRAPHS

**ENVIRO SOIL TECH CONSULTANTS** 

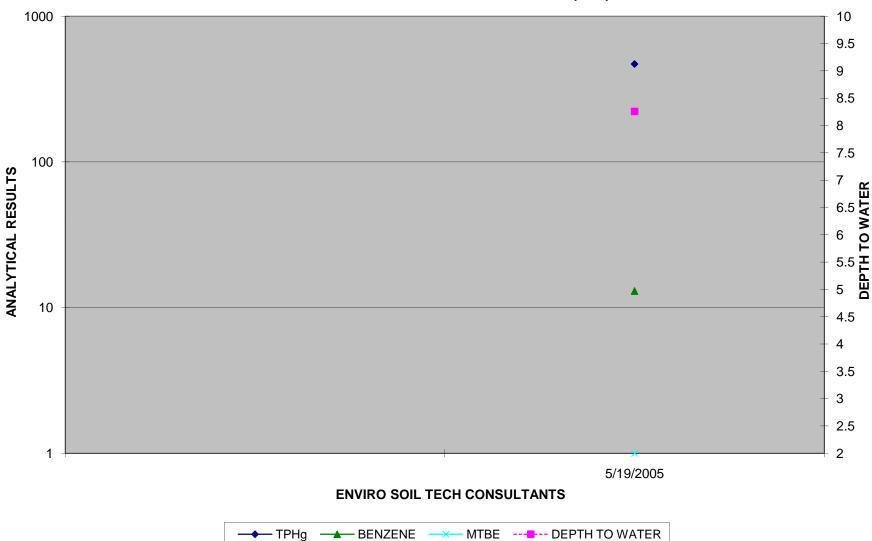


# File No.: 12-04-770-GI

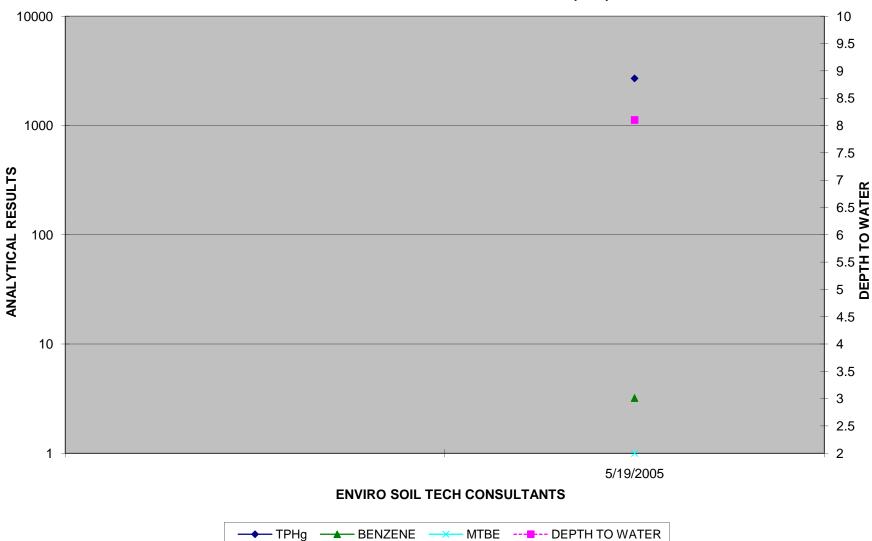


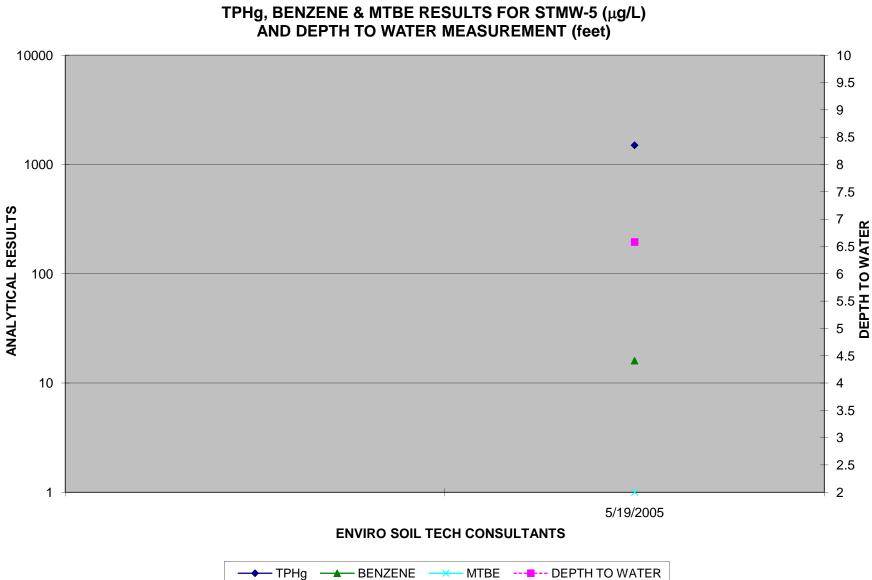
# File No.: 12-04-770-GI

#### 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 (μg/L) AND DEPTH TO WATER MEASUREMENT (feet)





File No.: 12-04-770-GI

File No. 12-04-770-GI

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

### LABORATORY REPORTS

**ENVIRO SOIL TECH CONSULTANTS** 

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

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

Order Number: 43506

Date Received: 5/10/2005 4:02:50 PM

Certificate ID: 43506 - 5/24/2005 10:17:10 PM

P.O. Number: 12-04-770GI

#### Project Number: 12-04-770GI

### Certificate of Analysis - Final Report

 On May 10, 205, samples were received under chain of custody for analysis.

 Entech analyze: samples "as received" unless otherwise noted. The following results are included:

 Matrix
 Test
 Method
 Comments

 Solid
 Gas/BTEX
 EPA 8015 MOD. (Purgeable) EPA 8020
 EPA 8020

 MtBE
 EPA 8020
 EPA 8015 MOD. (Extractable)

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346). If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,

Mushy

Laurie Glantz-Murphy Laboratory Director

Sample ID: STMW-1-5

3334 Victor Court, Santa Clara, CA 95054

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

#### Certificate of Analysis - Data Report

Lab #: 43506-001

Phone: (408) 588-0200

Fax: (408) 588-0201

Project ID: 12-04-770GI Date Received: 5/10/2005 P.O. Number: 12-04-770GI Sample Collected by: Client

**Matrix:** 

Solid Sample Date:	5/4/2005
--------------------	----------

EPA 8015 MOD. (Extractable EPA 3545	e)								
Parameter	Result	Qual	DF	<b>Detection</b> Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND	<u> </u>	1	2.5	mg/Kg	5/11/2005	DS050510	5/11/2005	DS050510
Surrogate	Surrogate Recovery	,	Control	Limits (%)				Analyzed by: JHsia	ng
o-Terphenyl	99.1		41	- 137				Reviewed by: bdha	balia
EPA 8015 MOD. (Purgeable)	)								OC D-4-b
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	2.5	mg/Kg	5/12/2005	SGC4050512	5/12/2005	SGC4050512
Surrogate	Surrogate Recovery	1	Control	Limits (%)				Analyzed by: mrua	n
4-Bromofluorobenzene	107		65	- 135				Reviewed by: MTu	
EPA 8020									
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/12/2005	SGC4050512
Toluene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/12/2005	SGC4050512
Ethyl Benzene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/12/2005	SGC4050512
Xylenes, Total	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/12/2005	SGC4050512
Methyl-t-butyl Ether	ND		1	0.25	mg/Kg	5/12/2005	SGC4050512	5/12/2005	SGC4050512
Surrogate	Surrogate Recover	y	Control	Limits (%)				Analyzed by: mrua	n
4-Bromofluorobenzene	111	-	65	- 135				Reviewed by: MT	1

Sample ID: STMW-1-10

3334 Victor Court, Santa Clara, CA 95054

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

#### **Certificate of Analysis - Data Report**

Lab #: 43506-002

Phone: (408) 588-0200

Fax: (408) 588-0201

Project ID: 12-04-770GI Date Received: 5/10/2005 P.O. Number: 12-04-770GI Sample Collected by: Client

Matrix: Solid Sample Date: 5/4/2005

EPA 8015 MOD. (Extracta EPA 3545	ble)								
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1	2.5	mg/Kg	5/11/2005	DS050510	5/11/2005	DS050510
Note: 10 mg/Kg high	her boiling gasoline con	npound	s (C8-C14	4) and 15 mg/Kg ligh	nt Oil are ii	n the sample. N	o Diesel pattern pro	esent.	
Surrogate	Surrogate Recovery	v	Control	Limits (%)				Analyzed by: JHsia	ng
o-Terphenyl	100	-	41	- 137				Reviewed by: bdhal	balia
EPA 8015 MOD. (Purgeab	le)								
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	7.8		1	2.5	mg/Kg	5/12/2005	SGC4050512	5/16/2005	SGC4050512
Note: Aged/weather	red Gasoline.								
Surrogate	Surrogate Recover	у	Control	Limits (%)				Analyzed by: mruar	n
4-Bromofluorobenzene	229***		65	- 135				Reviewed by: MTu	I
*** Surrogate recovery	is outside QC limit due	to mat	rix interfe	rence.					
EPA 8020									
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/16/2005	SGC4050512
									000105051

4-Bromofluorobenzene	126	65 -	135				Reviewed by: MT	'n	
Surrogate	Surrogate Recovery	Control L	imits (%)				Analyzed by: mrua	an	
Methyl-t-butyl Ether	ND	1	0.25	mg/Kg	5/12/2005	SGC4050512	5/16/2005	SGC4050512	_
Xylenes, Total	0.15	1	0.025	mg/Kg	5/12/2005	SGC4050512	5/16/2005	SGC4050512	
Ethyl Benzene	ND	1	0.025	mg/Kg	5/12/2005	SGC4050512	5/16/2005	SGC4050512	
Toluene	ND	1	0.025	mg/Kg	5/12/2005	SGC4050512	5/16/2005	SGC4050512	
Benzene	ND	1	0.025	mg/Kg	5/12/2005	SGC4050512	5/16/2005	SGC4050512	

Sample ID: STMW-1-15

3334 Victor Court, Santa Clara, CA 95054

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

#### **Certificate of Analysis - Data Report**

Lab #: 43506-003

4-Bromofluorobenzene

Phone: (408) 588-0200

Fax: (408) 588-0201

Reviewed by: MTu

Project ID: 12-04-770GI Date Received: 5/10/2005 P.O. Number: 12-04-770GI Sample Collected by: Client

Matrix: Sol

olid	Sample Date:	5/4/2005
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EPA 8015 MOD. (Extractable EPA 3545	)								
PA 3545 Parameter	Result	Qual	DF	<b>Detection</b> Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1	2.5	mg/Kg	5/11/2005	DS050511	5/16/2005	DS050511
Surrogate	Surrogate Recovery		Control	Limits (%)				Analyzed by: JHsia	ng
o-Terphenyl	62		41	- 137				Reviewed by: dba	
EPA 8015 MOD. (Purgeable)									
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	2.5	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Surrogate	Surrogate Recovery		Control	Limits (%)				Analyzed by: mruar	1
4-Bromofluorobenzene	102		65	- 135				Reviewed by: MTu	
EPA 8020									
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Toluene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Ethyl Benzene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Xylenes, Total	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Methyl-t-butyl Ether	ND		1	0.25	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Surrogate	Surrogate Recovery	,	Control	Limits (%)				Analyzed by: mrua	n

65 - 135

102

Sample ID: STMW-2-5

3334 Victor Court, Santa Clara, CA 95054

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

#### **Certificate of Analysis - Data Report**

Lab #: 43506-004

EPA 8015 MOD. (Extractable)

Phone: (408) 588-0200

Fax: (408) 588-0201

Reviewed by: MTu

og na l

Project ID: 12-04-770GI Date Received: 5/10/2005 P.O. Number: 12-04-770GI Sample Collected by: Client

Matri

le Date: 5/4/2005 Salid C.

IX:	Solid	Sample Date:	3/4

EPA 3545 Parameter	Result	Qual	DF	<b>Detection</b> Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		400	1000	mg/Kg	5/11/2005	DS050511	5/17/2005	DS050511
Note: 4000 mg/Kg higl	her boiling gasoline	compou	nds (C8-C	C16) and 29000 mg/k	kg light Oi	l compounds(C	16-C36) are in the	sample. No Diesel p	attern present .
Surrogate	Surrogate Recover	·v	Control	Limits (%)				Analyzed by: JHsia	ng
o-Terphenyl	0***	•	41	- 137				Reviewed by: dba	
*** NR=Not Reportable.	Surrogate recovery 1	not repo	rtable due	to dilution.					
EPA 8015 MOD. (Purgeable)	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Parameter	Kesuit	Quai	DI	Detection Emili	Chits				
TPH as Gasoline	270		10	25	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Note: Aged/weathered	Gasoline.								,
Suunagata	Surrogate Recover	****	Control	Limits (%)				Analyzed by: mrua	1

**Control Limits (%)** Surrogate Surrogate Recovery

434\*\*\* 65 - 135 4-Bromofluorobenzene

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

#### EPA 8020

Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		10	0.25	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Toluene	ND		10	0.25	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Ethyl Benzene	0.74		10	0.25	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Xylenes, Total	2.3		10	0.25	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Methyl-t-butyl Ether	ND		10	2.5	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Surrogate	Surrogate Recovery	7	Control	Limits (%)				Analyzed by: mruar	n
4-Bromofluorobenzene	108		65	- 135				Reviewed by: MTu	

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3334 Victor Court, Santa Clara, CA 95054

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

#### **Certificate of Analysis - Data Report**

Phone: (408) 588-0200

Fax: (408) 588-0201

Project ID: 12-04-770GI Date Received: 5/10/2005 P.O. Number: 12-04-770GI Sample Collected by: Client

EPA 8015 MOD. (Extractal	ale)								
EPA 3545	jic)								
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		5	12	mg/Kg	5/11/2005	DS050511	5/17/2005	DS050511
Note: 65 mg/Kg high	ter boiling gasoline com	npound	ls (C8-C16	5) and 260 mg/kg lig	ht Oil com	pounds(C16-C3	36) are in the samp	e. No Diesel pattern	present .
Surrogate	Surrogate Recovery			Limits (%)				Analyzed by: JHsiar	
o-Terphenyl	103		41	- 137				Reviewed by: dba	
EPA 8015 MOD. (Purgeabl	le) Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Parameter	Kesun	Quai		Detterion Chint	Curts	Trep Date			
TPH as Gasoline	130		10	25	mg/Kg	5/12/2005	SGC4050512	5/16/2005	SGC4050512
Surrogate	Surrogate Recovery	y	Control	Limits (%)				Analyzed by: mruar	l
4-Bromofluorobenzene	123		65	- 135				Reviewed by: MTu	
EPA 8020									
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		10	0.25	mg/Kg	5/12/2005	SGC4050512	5/16/2005	SGC4050512
Toluene	ND		10	0.25	mg/Kg	5/12/2005	SGC4050512	5/16/2005	SGC4050512
Ethyl Benzene	0.46		10	0.25	mg/Kg	5/12/2005	SGC4050512	5/16/2005	SGC4050512
Xylenes, Total	0.53		10	0.25	mg/Kg	5/12/2005	SGC4050512	5/16/2005	SGC4050512
Methyl-t-butyl Ether	ND		10	2.5	mg/Kg	5/12/2005	SGC4050512	5/16/2005	SGC4050512
Surrogate	Surrogate Recovery Control Limits (%)				Analyzed by: mruan				n
4-Bromofluorobenzene	112	•	65	- 135				Reviewed by: MTu	L

4-Bromofluorobenzene

Sample ID: STMW-2-15

3334 Victor Court, Santa Clara, CA 95054

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

#### **Certificate of Analysis - Data Report**

Lab #: 43506-006

Phone: (408) 588-0200

Matrix: Solid

Fax: (408) 588-0201

**Sample Date: 5/4/2005** 

EPA 8015 MOD. (Extracta	ble)								
EPA 3545								A hunin Data	<b>OC Batch</b>
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	
TPH as Diesel	ND		1	2.5	mg/Kg	5/11/2005	DS050511	5/17/2005	DS050511
Note: 24 mg/Kg Mo	tor Oil is in the sample.	No Die	sel pattern	present.					
Surrogate	Surrogate Recover	у	Control	Limits (%)				Analyzed by: JHsiar	ıg
o-Terphenyl	68.6		41	- 137				Reviewed by: dba	
EPA 8015 MOD. (Purgeab	le)								
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	4.1		1	2.5	mg/Kg	5/12/2005	SGC4050512	5/18/2005	SGC4050512
Note: Aged/weather	ed Gasoline.								
Surrogate	Surrogate Recover	у	Control Limits (%) Analy				Analyzed by: Mrua	1	
4-Bromofluorobenzene	119		65	- 135				Reviewed by: MTu	
EPA 8020									
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/18/2005	SGC405051
Toluene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/18/2005	SGC405051
Ethyl Benzene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/18/2005	SGC405051
Xylenes, Total	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/18/2005	SGC405051
Methyl-t-butyl Ether	ND		1	0.25	mg/Kg	5/12/2005	SGC4050512	5/18/2005	SGC405051
Surrogate	Surrogate Recover	٠v	Control	Limits (%)			,	Analyzed by: Mrua	n
4-Bromofluorobenzene	110	•		- 135				Reviewed by: MTu	

3334 Victor Court, Santa Clara, CA 95054

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

#### **Certificate of Analysis - Data Report**

Phone: (408) 588-0200

Fax: (408) 588-0201

EPA 8015 MOD. (Extractat	ole)								
EPA 3545									000.41
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		2	5.0	mg/Kg	5/11/2005	DS050511	5/17/2005	DS050511
Note: 34 mg/Kg Mot	or Oil is in the sample.	No Die	sel patterr	n present.					
Surrogate	Surrogate Recovery	,	Control	Limits (%)				Analyzed by: JHsian	ıg
o-Terphenyl	77.4		41	- 137				Reviewed by: dba	
EPA 8015 MOD. (Purgeabl	e)								0 G B . I
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	2.5	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Surrogate	Surrogate Recovery Control Limits (%)							Analyzed by: mruar	I
4-Bromofluorobenzene	103		65	- 135				Reviewed by: MTu	
EPA 8020									
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Toluene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Ethyl Benzene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Xylenes, Total	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Methyl-t-butyl Ether	ND		1	0.25	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Surrogate	Surrogate Recovery Control Limits (%)			Limits (%)	Analyzed by: mruan			1	
4-Bromofluorobenzene	102	-	65	- 135				Reviewed by: MTu	

Sample ID: STMW-3-10

3334 Victor Court, Santa Clara, CA 95054

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

#### **Certificate of Analysis - Data Report**

Lab #: 43506-008

Phone: (408) 588-0200

Fax: (408) 588-0201

Project ID: 12-04-770GI Date Received: 5/10/2005 P.O. Number: 12-04-770GI Sample Collected by: Client

Matrix: Solid Sample Date: 5/5/2005

EPA 8015 MOD. (Extractal	ble)								
EPA 3545 Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1	2.5	mg/Kg	5/11/2005	DS050511	5/16/2005	DS050511
Note: 65 mg/Kg hyd	rocarbon compounds(0	C8-C16)	). No Dies	el pattern present.					
Surrogate	Surrogate Recover	·y	Control	Limits (%)				Analyzed by: JHsia	ng
o-Terphenyl	67.5		41	- 137				Reviewed by: dba	
EPA 8015 MOD. (Purgeabl	le)								
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	330		20	50	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Surrogate	Surrogate Recover	у	Control	Limits (%)				Analyzed by: mruar	1
4-Bromofluorobenzene	118		65	- 135				Reviewed by: MTu	
EPA 8020									
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		20	0.50	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Toluene	ND		20	0.50	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Ethyl Benzene	1.4		20	0.50	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Xylenes, Total	2.3		20	0.50	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Methyl-t-butyl Ether	ND		20	5.0	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Surrogate	Surrogate Recover	ry	Control	Limits (%)				Analyzed by: mrua	n
4-Bromofluorobenzene	120		65	- 135				Reviewed by: MTu	

Sample ID: STMW-3-15

3334 Victor Court , Santa Clara, CA 95054

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

#### Certificate of Analysis - Data Report

Lab #: 43506-009

Phone: (408) 588-0200

Matrix: Solid

Fax: (408) 588-0201

**Sample Date:** 5/5/2005

EPA 8015 MOD. (Extractable	:)								
EPA 3545 Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1	2.5	mg/Kg	5/11/2005	DS050511	5/16/2005	DS050511
Surrogate	Surrogate Recovery	v	Control	Limits (%)	anna a 1977 - 2 <mark>79</mark>			Analyzed by: JHsia	ng
o-Terphenyl	79.6			- 137				Reviewed by: dba	
EPA 8015 MOD. (Purgeable)									
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	2.5	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Surrogate	Surrogate Recover	у	Control	Limits (%)				Analyzed by: mruar	1
4-Bromofluorobenzene	107	-	65	- 135				Reviewed by: MTu	
EPA 8020									
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Toluene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Ethyl Benzene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Xylenes, Total	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Methyl-t-butyl Ether	ND		1	0.25	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Surrogate	Surrogate Recover	у	Control	Limits (%)				Analyzed by: mrua	n
4-Bromofluorobenzene	103		65	- 135				Reviewed by: MTu	

### 3334 Victor Court, Santa Clara, CA 95054

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

#### **Certificate of Analysis - Data Report**

#### Phone: (408) 588-0200

Fax: (408) 588-0201

EPA 8015 MOD. (Extracta	ble)								
EPA 3545 Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1	2.5	mg/Kg	5/11/2005	DS050511	5/16/2005	DS050511
Note: 21 mg/Kg Mo	tor Oil is in the sample	No Die	sel patteri	n present.					
Surrogate	Surrogate Recover	у	Control	Limits (%)				Analyzed by: JHsian	ng
o-Terphenyl	72.8		41	- 137				Reviewed by: dba	
EPA 8015 MOD. (Purgeab	le)								
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	2.5	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Surrogate	Surrogate Recovery Control Limits (%)							Analyzed by: mruar	1
4-Bromofluorobenzene	95.1		65	- 135				Reviewed by: MTu	
EPA 8020									
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Toluene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Ethyl Benzene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Xylenes, Total	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Methyl-t-butyl Ether	ND		1	0.25	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Surrogate	Surrogate Recover	Surrogate Recovery Control Limits (%)						Analyzed by: mruar	n
4-Bromofluorobenzene	100		65	- 135				Reviewed by: MTu	

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#### **Certificate of Analysis - Data Report**

Phone: (408) 588-0200

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EPA 8015 MOD. (Extracta	ble)								
EPA 3545 Parameter	Result	Oual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		2	5.0	mg/Kg	5/11/2005	DS050511	5/17/2005	DS050511
	gher boiling gasoline c	ompoun	ds (C8-C1	6) . No Diesel patter					
Surrogate	Surrogate Recover	.y	Control	Limits (%)		1		Analyzed by: JHsia	ng
o-Terphenyl	76.7	-	41	- 137				Reviewed by: dba	
EPA 8015 MOD. (Purgeab	le)								
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	6300		200	500	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Note: Aged/weather	ed Gasoline.								
Surrogate	Surrogate Recover	гy	Control	Limits (%)				Analyzed by: mruar	1
4-Bromofluorobenzene	124		65	- 135				Reviewed by: MTu	
EPA 8020									
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		200	5.0	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Toluene	ND		200	5.0	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Ethyl Benzene	30		200	5.0	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Xylenes, Total	54		200	5.0	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Methyl-t-butyl Ether	ND		200	50	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Surrogate	Surrogate Recove	ry	Control	Limits (%)				Analyzed by: mrua	n
4-Bromofluorobenzene	130		65	- 135				Reviewed by: MTu	

Sample ID: STMW-4-15

Result

ND

Surrogate Recovery

74.6

Qual

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#### **Certificate of Analysis - Data Report**

#### Phone: (408) 588-0200

Matrix: Solid

Fax: (408) 588-0201

Project ID: 12-04-770GI Date Received: 5/10/2005 P.O. Number: 12-04-770GI Sample Collected by: Client

\_\_\_\_\_

Sample Date: 5/5/2005

DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1	2.5	mg/Kg	5/11/2005	DS050511	5/16/2005	DS050511
Contro	l Limits (%)				Analyzed by: JHsian	ıg
41	- 137				Reviewed by: dba	

ЕРА	8015	MOD	(Purgeable)
124 PA	0015	mon.	(I urgeable)

Lab #: 43506-012

EPA 3545

Parameter

TPH as Diesel

Surrogate

o-Terphenyl

EPA 8015 MOD. (Extractable)

Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	2.5	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Surrogate	Surrogate Recovery	1	Control	Limits (%)				Analyzed by: mruan	
4-Bromofluorobenzene	103		65	- 135				Reviewed by: MTu	
EPA 8020									
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Toluene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Ethyl Benzene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Xylenes, Total	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Methyl-t-butyl Ether	ND		1	0.25	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512

Surrogate	Surrogate Recovery	Control Limits (%)	
4-Bromofluorobenzene	101	65 - 135	

Analyzed by: mruan

Reviewed by: MTu

Sample ID: STMW-5-5

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#### **Certificate of Analysis - Data Report**

Lah # • 43506-013

Phone: (408) 588-0200

Matrix: Solid

Fax: (408) 588-0201

Sample Date: 5/5/2005

EPA 8015 MOD. (Extracta	ble)								
EPA 3545 Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		2	5.0	mg/Kg	5/11/2005	DS050511	5/17/2005	DS050511
Note: 54 mg/Kg Mo	tor Oil is in the sample.	No Die	sel patteri	1 present.					
Surrogate	Surrogate Recovery	y	Control	Limits (%)				Analyzed by: JHsia	ng
o-Terphenyl	78.5		41 - 137 Reviewed by: dba						
EPA 8015 MOD. (Purgeab	le)								
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1	2.5	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Surrogate	Surrogate Recover	y	Control	Limits (%)				Analyzed by: mruar	1
4-Bromofluorobenzene	96.2		65	- 135				Reviewed by: MTu	
EPA 8020									
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Toluene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Ethyl Benzene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Xylenes, Total	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Methyl-t-butyl Ether	ND		1	0.25	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Surrogate	Surrogate Recovery			Limits (%)				Analyzed by: mruar	1
4-Bromofluorobenzene	107		65	- 135				Reviewed by: MTu	

Sample ID: STMW-5-10

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#### **Certificate of Analysis - Data Report**

Lab # · 43506-014

Phone: (408) 588-0200

Matrix: Solid

Fax: (408) 588-0201

Sample Date: 5/5/2005

EPA 8015 MOD. (Extracta EPA 3545						_			
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1	2.5	mg/Kg	5/11/2005	DS050511	5/16/2005	DS050511
Note: 13 mg/Kg hig	her boiling gasoline co	ompound	ls mix wit	h discrete peaks(C8-0	C18). No E	Diesel pattern pr	esent.		
Surrogate	Surrogate Recove	ry	Control	Limits (%)				Analyzed by: JHsia	ng
o-Terphenyl	62.9		41	- 137				Reviewed by: dba	
EPA 8015 MOD. (Purgeab	le)								
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	230		50	120	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Surrogate	Surrogate Recove	ery	Control	Limits (%)				Analyzed by: Mrua	n
4-Bromofluorobenzene	108		65	- 135				Reviewed by: MTu	
EPA 8020									
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		50	1.2	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Toluene	ND		50	1.2	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Ethyl Benzene	1.6		50	1.2	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Xylenes, Total	ND		50	1.2	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Methyl-t-butyl Ether	ND		50	12	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Surrogate	Surrogate Recov	ery	Contro	l Limits (%)				Analyzed by: Mrua	n
4-Bromofluorobenzene	114	2	65	- 135				Reviewed by: MTu	

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#### Certificate of Analysis - Data Report

#### Phone: (408) 588-0200

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	• •								
EPA 8015 MOD. (Extractal EPA 3545	ole)								
Parameter	Result	Qual	DF	<b>Detection</b> Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1	2.5	mg/Kg	5/11/2005	DS050511		DS050511
	er boiling gasoline com	npounds	mix with	discrete peaks(C8-C1	18). No Di	esel pattern pres	sent.		
Surrogate	Surrogate Recover	·у	Control	Limits (%)				Reviewed by: dba	
o-Terphenyl	75.2		41	- 137				Reviewed by: dba	
EDA 2015 MOD (Dungaaki	2)								
EPA 8015 MOD. (Purgeabl Parameter	e) Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
	Result	Zuui					•	-	
TPH as Gasoline	5.9		1	2.5	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Note: Aged/weather	ed Gasoline.								
Surrogate	Surrogate Recover	ry	Control	Limits (%)				Analyzed by: mruar	1
4-Bromofluorobenzene	123	•	65	- 135				Reviewed by: MTu	
EPA 8020									
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Toluene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Ethyl Benzene	ND		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Xylenes, Total	0.030		1	0.025	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Methyl-t-butyl Ether	ND		1	0.25	mg/Kg	5/12/2005	SGC4050512	5/13/2005	SGC4050512
Surrogate	Surrogate Recove	ry	Control	Limits (%)				Analyzed by: mrua	n
4-Bromofluorobenzene	104		65	- 135				Reviewed by: MTu	I

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Method Blank - Solid - EPA 8015 MO QC/Prep Batch ID: DS050510 QC/Prep Date: 5/11/2005	D. (Extractable)	- TPH-Ext	tractable	Validated by: bdhabalia - 05/11/05
Parameter TPH as Diesel	<b>Result</b> ND	<b>DF</b> 1	<b>PQLR</b> 2.5	<b>Units</b> mg/Kg
Surrogate for Blank % Recovery Control Limits				

o-Terphenyl **82.1** 41 - 137

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Method Blank - Solid - EPA 8015 MC	D. (Extractable	e) - TPH-Ext	tractable		
QC/Prep Batch ID: DS050511					Validated by: dba - 05/18/05
QC/Prep Date: 5/11/2005					
Parameter	Result	DF	PQLR	Units	
TPH as Diesel	ND	1	2.5	mg/Kg	
Surrogate for Blank % Recovery Control Limit	ts				

o-Terphenyl **92.6** 41 - 137

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Method Blank - Solid - EPA 8015 MO QC/Prep Batch ID: SGC4050512 QC/Prep Date: 5/12/2005	D. (Purgeable)	- TPH as G	asoline		Validated by: MTu - 05/13/05
Parameter	Result	DF	PQLR	Units	
TPH as Gasoline	ND	1	2.5	mg/Kg	
Surrogate for Blank% RecoveryControl Limit4-Bromofluorobenzene96.665-135	\$				
Method Blank - Solid - EPA 8020 - QC/Prep Batch ID: SGC4050512	BTEX				Validated by: MTu - 05/13/05
QC/Prep Date: 5/12/2005					
Parameter	Result	DF	PQLR	Units	
Benzene	ND	1	0.025	mg/Kg	
Ethyl Benzene	ND	1	0.025	mg/Kg	
Toluene	ND	1	0.025	mg/Kg	
Xylenes, Total	ND	1	0.025	mg/Kg	
Surrogate for Blank % Recovery Control Limit 4-Bromofluorobenzene 96.8 65 - 135 Method Blank - Solid - EPA 8020 -		8020			
QC/Prep Batch ID: SGC4050512		0020			Validated by: MTu - 05/13/05
QC/Prep Date: 5/12/2005					
Parameter	Result	DF	PQLR	Units	
Methyl-t-butyl Ether	ND	1	0.25	mg/Kg	
Surrogate for Blank% RecoveryControl Limit4-Bromofluorobenzene96.865-135	ts				

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

#### Laboratory Control Sample / Duplicate - Solid - EPA 8015 MOD. (Extractable) - TPH-Extractable Reviewed by: bdhabalia - 05/11/05 QC/Prep Batch ID: DS050510 QC/Prep Date: 5/11/2005 LCS **Recovery Limits** Method Blank Spike Amt SpikeResult Units % Recovery Parameter 45 - 140 <2.5 50 40.9 mg/Kg 81.8 TPH as Diesel 45 - 140 mg/Kg 67.8 <10 50 33.9 TPH as Motor Oil % Recovery Control Limits Surrogate o-Terphenyl 81.5 40.8 - 137 LCSD % Recovery RPD **RPD Limits** Recovery Limits Method Blank Spike Amt SpikeResult Units Parameter 45 - 140 30.0 82.0 TPH as Diesel <2.5 50 41.0 mg/Kg 0.24 45 - 140 <10 50 30.8 mg/Kg 61.6 9.6 30.0 TPH as Motor Oil Surrogate

o-Terphenyl

% Recovery Control Limits 40.8 - 137 83.1

Entech A	nalytic	al La	bs, I	nc.				
3334 Victor Cour	t , Santa Claı	ra, CA 9	5054 F	Phone	: (408) 588	8-0200	Fax:	(408) 588-0201
Laboratory Control S QC/Prep Batch ID: D QC/Prep Date: 5/11/	S050511	ate - Sol	id - EPA	8015 N	IOD. (Extrac	table)		<b>extractable</b> wed by: dba - 05/18/05
<b>LCS</b> Parameter TPH as Diesel TPH as Motor Oil	Method Blank S <2.5 <10	Spike Amt S 50 50	SpikeResult 54.4 38.1	<b>Units</b> mg/Kg mg/Kg	<b>% Recovery</b> 109 76.2			<b>Recovery Limits</b> 45 - 140 45 - 140
Surrogate o-Terphenyl		o <mark>ntrol Limits</mark> 0.8 - 137	5					
LCSD Parameter	Method Blank	Spike Amt 🖇	SpikeResult	Units	% Recovery	RPD F	PD Limits	Recovery Limits

mg/Kg

mg/Kg

45.5

33.8

91.0

67.6

18

12

30.0

30.0

45 - 140

45 - 140

TPH as Diesel

Surrogate

o-Terphenyl

TPH as Motor Oil

<2.5

<10

84.4

50

50

40.8 - 137

% Recovery Control Limits

65.0 - 135

3334 Victor Cou	rt , Santa Clara, CA 95054	Phone: (408) 588-020	00 Fax: (408) 588-0201
Laboratory Control QC/Prep Batch ID: QC/Prep Date: 5/12		EPA 8015 MOD. (Purgeable)	- TPH as Gasoline Reviewed by: MTu - 05/13/05
<b>LCS</b> Parameter TPH as Gasoline	Method Blank Spike Amt SpikeR <2.5 12 11.5	•	Recovery Limits 65 - 140
<b>Surrogate</b> 4-Bromofluorobenzene	% Recovery Control Limits 91.4 65.0 - 135		
<b>LCSD</b> Parameter TPH as Gasoline	Method Blank Spike Amt SpikeRo <2.5 12 11.4		<b>RPD LimitsRecovery Limits</b> 30.065 - 140
Surrogate	% Recovery Control Limits		

4-Bromofluorobenzene 94.5

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Phone: (408) 588-0200 Fax: (408) 588-0201

#### Laboratory Control Sample / Duplicate - Solid - EPA 8020 - BTEX QC/Prep Batch ID: SGC4050512 QC/Prep Date: 5/12/2005 LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery			<b>Recovery Limits</b>	
Benzene	<0.025	0.40	0.407	mg/Kg	102			54 - 150	
Ethyl Benzene	<0.025	0.40	0.379	mg/Kg	94.8			67 - 130	
Toluene	<0.025	0.40	0.404	mg/Kg	101			45 - 160	
Xylenes, total	<0.025	1.2	1.16	mg/Kg	96.5			79 - 130	
Surrogate	% Recovery	Control Limit	S						
4-Bromofluorobenzene	95.7	65.0 - 135							
LCSD									
Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	<b>RPD</b> Limits	<b>Recovery Limits</b>	
Benzene	<0.025	0.40	0.411	mg/Kg	103	0.98	30.0	54 - 150	
Ethyl Benzene	<0.025	0.40	0.380	mg/Kg	95.0	0.26	30.0	67 - 130	
Toluene	<0.025	0.40	0.404	mg/Kg	101	0.0	30.0	45 - 160	
Xylenes, total	<0.025	1.2	1.16	mg/Kg	96.2	0.26	30.0	79 - 130	
Surrogate	······,	Control Limit	s						
4-Bromofluorobenzene	96.6	65.0 - 135							

Reviewed by: MTu - 05/13/05

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

#### Laboratory Control Sample / Duplicate - Solid - EPA 8020 - MTBE by EPA 8020 Reviewed by: MTu - 05/13/05 QC/Prep Batch ID: SGC4050512 QC/Prep Date: 5/12/2005 LCS Method Blank Spike Amt SpikeResult Units **Recovery Limits** Parameter % Recovery Methyl-t-butyl Ether 65 - 140 <0.25 0.40 0.368 mg/Kg 92.0 % Recovery Control Limits Surrogate 65.0 - 135 4-Bromofluorobenzene 95.7 LCSD

L	, C	~	וכ	J			
P	а	ra	m	10	te	r	

LCSD Parameter Methyl-t-butyl Ether	Method Blank <0.25	Spike Amt 0.40	SpikeResult 0.369	<b>Units</b> mg/Kg	% Recovery 92.2	RPD 0.27	RPD Limits 30.0	Recovery Limits 65 - 140
Surrogate 4-Bromofluorobenzene	% Recovery 96.6	<b>Control Limi</b> 65.0 - 135						

#### CHAIN OF CUSTODY RECORD

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⊬_	14							W-5-10				<u> / ·</u>	4	4								. <u></u>
	Relinquish	ed by: (	Signature			Date	<u>5714</u> 'Time	W-5-15 Received by:	(S:=				$\sqrt{1}$			<u> </u>	<u> </u>	/				
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		ENV	IRO S	SOII	LTE	СНС	ONSI	JLTANTS							Th	Ana	nb	. Na	mll	ti		

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

Order Number: 43644

Project Number: 12-04-770GI

Certificate ID: 43644 - 5/26/2005 8:06:07 PM

Date Received: 5/20/2005 11:58:48 AM P.O. Number: 12-04-770GI

### Certificate of Analysis - Final Report

On May 20, 2005, samples were received under chain of custody for analysis. Entech analyzes samples "as received" unless otherwise noted. The following results are included: Method Comments Matrix Test EPA 8015 MOD. (Purgeable) Gas/BTEX/MTBE Liquid ÉPA 8020

**TPH-Extractable** 

EPA 8015 MOD. (Extractable)

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346). If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,

Mushy

Laurie Glantz-Murphy Laboratory Director

Sample ID: STMW-1

### 3334 Victor Court , Santa Clara, CA 95054

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

#### **Certificate of Analysis - Data Report**

Lab #: 43644-001

### Phone: (408) 588-0200

Fax: (408) 588-0201

Project ID: 12-04-770GI Date Received: 5/20/2005 P.O. Number: 12-04-770GI Sample Collected by: Client

Matrix:	Liquid	Sample Date:	5/19/2005	1:41 PM
	•	-		

EPA 3510C EPA 8015 M Parameter	IOD. (Extractable) Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND	Quai	1	50	μg/L	5/20/2005	DW050520	5/21/2005	DW050520
	gasoline compounds in	the Die	sel range.	50	<i>н</i> в, 2	0/20/2000	2		
Surrogate	Surrogate Recove	ry	Control	Limits (%)				Analyzed by: JHsia	ang
o-Terphenyl	94.6		22	- 133				Reviewed by: dba	
EPA 8015 MOD. (Purge	able)								
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	220		1	50	μg/L	N/A	N/A	5/26/2005	WGC4050525/
Surrogate	Surrogate Recove	ry	Control	Limits (%)				Analyzed by: mrua	n
4-Bromofluorobenzene	112		65	- 135				Reviewed by: Mai	ChiTu
EPA 8020									
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	11		1	0.50	μg/L	N/A	N/A	5/26/2005	WGC4050525A
Toluene	18		1	0.50	μg/L	N/A	N/A	5/26/2005	WGC40505257
Ethyl Benzene	3.1		1	0.50	μg/L	N/A	N/A	5/26/2005	WGC40505257
Xylenes, Total	20		1	0.50	μg/L	N/A	N/A	5/26/2005	WGC40505257
Methyl-t-butyl Ether	ND		1	1.0	μg/L	N/A	N/A	5/26/2005	WGC40505257
Surrogate	Surrogate Recove	ry	Control	Limits (%)				Analyzed by: mrua	m

4-Bromofluorobenzene 106 65 - 135

Reviewed by: MaiChiTu

#### 3334 Victor Court , Santa Clara, CA 95054

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

#### **Certificate of Analysis - Data Report**

#### Lab #: 43644-002 Sample ID: STMW-2

Matrix: Liquid Sample Date: 5/19/2005 12:36 PM

EPA 3510C EPA 8015 M	OD. (Extractable)								
Parameter	Result	Qual	DF	<b>Detection</b> Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1	50	μg/L	5/20/2005	DW050520	5/21/2005	DW050520
50ppb higher boiling g	gasoline compounds in	the Dies	el range.						
Surrogate	Surrogate Recover	·у	Control	Limits (%)				Analyzed by: JHsia	ing
o-Terphenyl	60		22	- 133				Reviewed by: dba	
EPA 8015 MOD. (Purge	able)								
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	170		1	50	μg/L	N/A	N/A	5/26/2005	WGC4050525A
Surrogate	Surrogate Recover	·y	Control	Limits (%)				Analyzed by: mrua	n
4-Bromofluorobenzene	106		65	- 135				Reviewed by: Mai	ChiTu
EPA 8020									
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	11		1	0.50	μg/L	N/A	N/A	5/26/2005	WGC4050525A
Toluene	18		1	0.50	μg/L	N/A	N/A	5/26/2005	WGC4050525A
Ethyl Benzene	3.5		1	0.50	μg/L	N/A	N/A	5/26/2005	WGC4050525A

0.50

1.0

1

1

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	106	65 - 135

21

ND

Xylenes, Total

Methyl-t-butyl Ether

Analyzed by: mruan

5/26/2005

5/26/2005

Reviewed by: MaiChiTu

WGC4050525A

WGC4050525A

N/A

N/A

 $\mu g/L$ 

μg/L

N/A

N/A

#### Phone: (408) 588-0200

Fax: (408) 588-0201

Project ID: 12-04-770GI Date Received: 5/20/2005 P.O. Number: 12-04-770GI Sample Collected by: Client

### 3334 Victor Court , Santa Clara, CA 95054

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

#### **Certificate of Analysis - Data Report**

#### Lab #: 43644-003 Sample ID: STMW-3

11:30 AM Matrix: Liquid Sample Date: 5/19/2005

EPA 3510C EPA 8015 MG	OD. (Extractable)								
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1	50	μg/L	5/20/2005	DW050520	5/21/2005	DW050520
250ppb higher boiling	gasoline compounds i	in the Di	esel range						- 40,
Surrogate	Surrogate Recove	ry	Control	Limits (%)				Analyzed by: JHsia	ang
o-Terphenyl	43.2		22	- 133				Reviewed by: dba	
EPA 8015 MOD. (Purgea	able)								
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	470		1	50	μg/L	N/A	N/A	5/26/2005	WGC4050525A
Surrogate	Surrogate Recove	ry	Control	Limits (%)				Analyzed by: mrua	in
4-Bromofluorobenzene	104	-	65	- 135				Reviewed by: Mai	ChiTu
EPA 8020									
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	13		1	0.50	μg/L	N/A	N/A	5/26/2005	WGC4050525A
Toluene	18		1	0.50	μg/L	N/A	N/A	5/26/2005	WGC4050525A
Ethyl Benzene	4.9		1	0.50	μg/L	N/A	N/A	5/26/2005	WGC4050525A
Xylenes, Total	22		1	0.50	μg/L	N/A	N/A	5/26/2005	WGC4050525A
Methyl-t-butyl Ether	ND		1	1.0	μg/L	N/A	N/A	5/26/2005	WGC4050525A

Surrogate	Surrogate Recovery	Contro	ol Li	mits (%)
4-Bromofluorobenzene	105	65	-	135

Analyzed by: mruan

Reviewed by: MaiChiTu

Phone: (408) 588-0200

Project ID: 12-04-770GI

Date Received: 5/20/2005

P.O. Number: 12-04-770GI

Sample Collected by: Client

Fax: (408) 588-0201

3334 Victor Court , Santa Clara, CA 95054

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

#### Certificate of Analysis - Data Report

#### Lab #: 43644-004 Sample ID: STMW-4

Matrix: Liquid Sample Date: 5/19/2005 10:31 AM

EPA 3510C EPA 80	15 MOD. (Extractable)								
Parameter	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		10	500	μg/L	5/20/2005	DW050520	5/25/2005	DW050520
8000ppb higher l	boiling gasoline compounds	in the Di	iesel rang	e.					
Surrogate	Surrogate Recover	·у	Control	Limits (%)				Analyzed by: JHsian	ng
o-Terphenyl	62.8		22	- 133				Reviewed by: dba	

Detection Limit = Detection Limit for Reporting. DF = Dilution and/or Prep Factor including sample volume adjustments.

Phone: (408) 588-0200

Project ID: 12-04-770GI

Date Received: 5/20/2005

P.O. Number: 12-04-770GI

Sample Collected by: Client

Fax: (408) 588-0201

Sample ID: STMW-5

3334 Victor Court, Santa Clara, CA 95054

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

#### Certificate of Analysis - Data Report

Lab #: 43644-005

Phone: (408) 588-0200

Fax: (408) 588-0201

Project ID: 12-04-770GI Date Received: 5/20/2005 P.O. Number: 12-04-770GI Sample Collected by: Client

Matrix: Liquid Sample Date: 5/19/2005 9:25 AM

EPA 3510C EPA 801	5 MOD. (Extra	ctable)								
Parameter	1	Result	Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel		ND		1	50	μg/L	5/20/2005	DW050520	5/24/2005	DW050520
680ppb higher bo	iling gasoline co	ompounds	in the Di	esel range						
Surrogate	Surroga	te Recove	ry	Control	Limits (%)				Analyzed by: JHsia	ng
o-Terphenyl		82.9		22	- 133				Reviewed by: dba	

Detection Limit = Detection Limit for Reporting. DF = Dilution and/or Prep Factor including sample volume adjustments.

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

Method Blank - Liquid - EPA 8015 MOD. (Extractable) - TPH-Extractable       Validated by: dba - 05/23/05         QC/Prep Date: 5/20/2005       Validated by: dba - 05/23/05									
<b>Parameter</b> TPH as Diesel		<b>Result</b> ND	DF 1	<b>PQLR</b> 50	Units µg/L				
<b>Surrogate</b> o-Terphenyl	% Recovery 82.4	Control Limits 22.2 - 133							

3334 Victor Cou	rrt , Santa Clara, CA 95	054 F	Phone	: (408) 588	3-020	0 Fax:	(408) 588-0201		
Laboratory Control Sample / Duplicate - Liquid - EPA 8015 MOD. (Extractable) - TPH-Extractable QC/Prep Batch ID: DW050520 QC/Prep Date: 5/20/2005									
<b>LCS</b> Parameter TPH as Diesel TPH as Motor Oil	Method Blank Spike Amt Sp <50 1000 <200 1000	bikeResult 867 868	<b>Units</b> μg/L μg/L	% Recovery 86.7 86.8			<b>Recovery Limits</b> 40 - 138 40 - 138		
Surrogate o-Terphenyl	% Recovery         Control Limits           77.9         22.2         -         133								
<b>LCSD</b> Parameter TPH as Diesel TPH as Motor Oil	Method Blank Spike Amt Spi <50 1000 <200 1000	pikeResult 893 889	<b>Units</b> μg/L μg/L	% Recovery 89.3 88.9	RPD 3.0 2.4	<b>RPD Limits</b> 25.0 25.0	<b>Recovery Limits</b> 40 - 138 40 - 138		
Surrogate	% Recovery Control Limits								

o-Terphenyl

% Recovery Control Limits 22.2 - 133 82.5

3334 VICIOI COUIT	, Santa Clara, CA 95054	Phone: (40	8) 588-0200	Fax: (408) 588-0201	
QC Batch ID: WGC40		ole) - TPH as	Gasoline	Validated by: MaiChiTu - 05	5/26/05
QC Batch Analysis Da		DF	PQLR	Units	
Parameter TPH as Gasoline	Result ND	DF 1	50	μg/L	
Surrogate	% Recovery Control Limits 92.3 65.0 - 135				
4-Bromofluorobenzene	52.5 00.0 100				
	id - EPA 8020 - BTEX				
Method Blank - Liqu	id - EPA 8020 - BTEX			Validated by: MaiChiTu - 0	5/26/05
4-Bromofluorobenzene Method Blank - Liqu QC Batch ID: WGC40 QC Batch Analysis Da	id - EPA 8020 - BTEX 50525A			Validated by: MaiChiTu - 0	5/26/05
Method Blank - Liqu QC Batch ID: WGC40 QC Batch Analysis Da	id - EPA 8020 - BTEX 50525A	DF	PQLR	Validated by: MaiChiTu - 05 Units	5/26/05
Method Blank - Liqu QC Batch ID: WGC40 QC Batch Analysis Da Parameter	id - EPA 8020 - BTEX 950525A ate: 5/25/2005	DF 1	<b>PQLR</b> 0.50		5/26/05
Method Blank - Liqu QC Batch ID: WGC40 QC Batch Analysis Da Parameter Benzene	id - EPA 8020 - BTEX 50525A ate: 5/25/2005 Result			Units	5/26/05
Method Blank - Liqu QC Batch ID: WGC40 QC Batch Analysis Da Parameter Benzene Ethyl Benzene	id - EPA 8020 - BTEX 50525A ate: 5/25/2005 Result ND	1	0.50	Units μg/L	5/26/05
Method Blank - Liqu QC Batch ID: WGC40 QC Batch Analysis Da Parameter Benzene	id - EPA 8020 - BTEX 50525A ate: 5/25/2005 Result ND ND	1	0.50 0.50	<b>Units</b> μg/L μg/L	5/26/0

### Method Blank - Liquid - EPA 8020 - MIBE by EPA 8020

#### QC Batch ID: WGC4050525A

#### QC Batch Analysis Date: 5/25/2005

Parameter		Result	<b>DF</b>	<b>PQLR</b>	<b>Units</b>
Methyl-t-butyl Ether		ND	1	1.0	μg/L
Surrogate 4-Bromofluorobenzene	% Recovery 105.1	Control Limits 65.0 - 135			

Validated by: MaiChiTu - 05/26/05

Method Blank - dba - 5/26/2005 8:06:10 PM

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200 Fax: (408) 588-0201

Laboratory Control S QC Batch ID: WGC4 QC Batch ID Analysi	050525A		quid - EP <i>l</i>	A 8020	- BTEX		Reviewed	by: MaiChiTu - 05/26/05
<b>LCS</b> Parameter Benzene Ethyl Benzene Toluene Xylenes, total	Method Blank <0.50 <0.50 <0.50 <0.50	8.0 8.0 8.0 24	8.64 7.96 8.44 24.8	Units μg/L μg/L μg/L μg/L	% Recovery 108 99.5 106 103			Recovery Limits 65 - 135 65 - 135 65 - 135 65 - 135
Surrogate 4-Bromofluorobenzene	% Recovery 99.7	<b>Control Lim</b> 65.0 - 135						
LCSD Parameter Benzene Ethyl Benzene Toluene Xylenes, total	Method Blank <0.50 <0.50 <0.50 <0.50	<b>Spike Amt</b> 8.0 8.0 8.0 24	SpikeResult 8.24 7.67 7.96 23.2	Units μg/L μg/L μg/L μg/L	% Recovery 103 95.9 99.5 96.8	RPD 4.7 3.7 5.9 6.5	<b>RPD Limits</b> 25.0 25.0 25.0 25.0	<b>Recovery Limits</b> 65 - 135 65 - 135 65 - 135 65 - 135
Surrogate 4-Bromofluorobenzene	% Recovery 97.2	<b>Control Lim</b> 65.0 - 13						

Entech A	nalytical Labs, Inc.
	t , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201
Laboratory Control S QC Batch ID: WGC4 QC Batch ID Analysi	
<b>LCS</b> Parameter TPH as Gasoline	Method BlankSpike AmtSpikeResultUnits% RecoveryRecovery Limits<50250231μg/L92.465 - 135
Surrogate 4-Bromofluorobenzene	% RecoveryControl Limits95.165.0-135
<b>LCSD</b> Parameter TPH as Gasoline	Method Blank Spike Amt SpikeResult Units % Recovery RPD RPD Limits Recovery Limits <50 250 233 μg/L 93.2 0.90 25.0 65 - 135
Surrogate 4-Bromofluorobenzene	% Recovery         Control Limits           118.2         65.0         -         135

Laboratory Control Sample / Duplicate - dba - 5/26/2005 8:06:15 PM

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

Laboratory Control QC Batch ID: WGC4 QC Batch ID Analys	4050525A		uid - EP <i>l</i>	A 8020	- MTBE by	y EPA	. <b>8020</b> Reviewed	by: MaiChiTu - 05/26/05
<b>LCS</b> Parameter Methyl-t-butyl Ether	Method Blank <1.0	<b>Spike Amt S</b> 8.0	pikeResult 8.19	<b>Units</b> μg/L	% Recovery 102			Recovery Limits 65 - 135
<b>Surrogate</b> 4-Bromofluorobenzene	% Recovery 99.7	Control Limits 65.0 - 135						
LCSD Parameter Methyl-t-butyl Ether	Method Blanl <1.0	k Spike Amt S 8.0	<b>5pikeResult</b> 7.88	<b>Units</b> μg/L	% Recovery 98.5	RPD 3.9	RPD Limits 25.0	Recovery Limits 65 - 135
Surrogate 4-Bromofluorobenzene	% Recovery 97.2	<b>Control Limits</b> 65.0 - 135	;					

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

#### Matrix Spike / Matrix Spike Duplicate - Liquid - EPA 8015 MOD. (Purgeable) - TPH as Gasoline Reviewed by: MaiChiTu - 05/26/05

QC Batch ID: WGC4050525A

### QC Batch ID Analysis Date: 5/25/2005

MS	Sa	mple Spik	ed: 43686-	001						
Parameter		Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery			Recovery Limits
TPH as Gasoline		ND	250	244	µg/L	5/25/2005	97.5			65 - 140
Surrogate	% Recovery	Control	Limits							
4-Bromofluorobenzene	102.0	65.0 -	135							
MSD	Sa	ample Spil	ked: 43686-	001						
Parameter		Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline		ND	250	219	µg/L	5/25/2005	87.7	11	25.0	65 - 140
Surrogate 4-Bromofluorobenzene	% Recovery 94.4	<b>Contro</b> l								

### Entech Analytical Labs, Inc. Phone: (408) 588-0200 Fax: (408) 588-0201

3334 Victor Court , Santa Clara, CA 95054

### Matrix Spike / Matrix Spike Duplicate - Liquid - EPA 8020 - BTEX

QC Batch ID: WGC4050525A

#### QC Batch ID Analysis Date: 5/25/2005

Sample Spiked: 43686-001

MS	Sam	ple Spik	ed: 43686-0	001						
Parameter		ample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery			Recovery Limits
Benzene		ND	2.8	2.90	µg/L	5/25/2005	103			65 - 140
Ethyl Benzene		ND	3.7	3.15	μg/L	5/25/2005	85.1			65 - 140
Toluene		ND	16	15.5	µg/L	5/25/2005	94.8			65 - 140
Xylenes, total		ND	20	16.5	µg/L	5/25/2005	84.5			65 - 140
Surrogate 4-Bromofluorobenzene	% Recovery 109.6	<b>Control</b> 65.0 -	Limits 135							
MSD	Sam	nple Spik	ed: 43686-	001						
Parameter		ample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene		ND	2.8	2.90	µg/L	5/25/2005	103	0.0	25.0	65 - 140
Ethyl Benzene		ND	3.7	3.09	µg/L	5/25/2005	83.5	1.9	25.0	65 - 140
Toluene		ND	16	15.2	µg/L	5/25/2005	92.4	2.5	25.0	65 - 140
Xylenes, total		ND	20	15.9	µg/L	5/25/2005	81.4	3.7	25.0	65 - 140

Surrogate	% Recovery	<b>Control Limits</b>
4-Bromofluorobenzene	109.6	65.0 - 135

Reviewed by: MaiChiTu - 05/26/05

### 3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200 Fax: (408) 588-0201

Reviewed by: MaiChiTu - 05/26/05

### Matrix Spike / Matrix Spike Duplicate - Liquid - EPA 8020 - MTBE by EPA 8020

QC Batch ID: WGC4050525A

#### QC Batch ID Analysis Date: 5/25/2005

#### Sample Spiked: 43686-001 MS Recovery Spike Spike Analysis Sample Limits Result Amount Result Units Date % Recovery Parameter 65 - 140 5/25/2005 94.6 26 24.9 µg/L ND Methyl-t-butyl Ether **Control Limits** % Recovery Surrogate 65.0 - 135 4-Bromofluorobenzene 109.6 Sample Spiked: 43686-001 MSD Recovery Analysis Sample Spike Spike Limits Date **RPD Limits** Result Amount Result % Recovery RPD Units Parameter 65 - 140 25.0 96.6 2.1 5/25/2005 ND 26 25.4 µg/L Methyl-t-butyl Ether % Recovery **Control Limits** Surrogate 65.0 - 135 109.6 4-Bromofluorobenzene

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3		1130		~	STMW-3	5			2	ļ				<u>v3</u>
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Frank Hamedi Enviro Soil Tech Consultants 131 Tully Road San Jose, CA 95111

Order Number: 43691

Project Number: 12-04-770GI

### Certificate of Analysis - Final Report

On May 24, 2005, samples were received under chain of custody for analysis. Entech analyzes samples "as received" unless

Matrix	Test	Method	Comments	

Liquid

Volatile GC/MS Volatile-GC EPA 8260B EPA 8015 MOD. (Purgeable)

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346). If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,

Laurie Glantz-Murphy Laboratory Director

Environmental Analysis Since 1983

Certificate ID: 43691 - 6/3/2005 11:10:22 AM

Date Received: 5/24/2005 3:55:47 PM P.O. Number: 12-04-770GI

3334 Victor Court , Santa Clara, CA 95054

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

#### Certificate of Analysis - Data Report

#### Lab #: 43691-001 Sample ID: STMW-4

EPA 5030B EPA 8260B EPA 624 QC Batch **Prep Batch Analysis Date** Result Qual DF **Detection Limit** Units Prep Date Parameter WMS1050527B 2 μg/L N/A N/A 5/28/2005 ND 1.0 1,1,1,2-Tetrachloroethane N/A 5/28/2005 WMS1050527B 2 1.0 μg/L N/A ND 1,1,1-Trichloroethane 5/28/2005 WMS1050527B N/A N/A 2 1.0 μg/L 1,1,2,2-Tetrachloroethane ND μg/L 5/28/2005 WMS1050527B 2 N/A N/A ND 1.0 1,1,2-Trichloroethane WMS1050527B 5/28/2005 1.1-Dichloroethane 2 1.0 μg/L N/A N/A ND 2 1.0 μg/L N/A N/A 5/28/2005 WMS1050527B ND 1,1-Dichloroethene 5/28/2005 WMS1050527B 2 μg/L N/A N/A 1,1-Dichloropropene ND 1.0 WMS1050527B N/A N/A 5/28/2005 2 μg/L 10 1,2,3-Trichlorobenzene ND WMS1050527B 5/28/2005 2 N/A N/A ND 1.0 μg/L 1,2,3-Trichloropropane N/A 5/28/2005 WMS1050527B 2 10 μg/L N/A 1,2,4-Trichlorobenzene ND N/A 5/28/2005 WMS1050527B ND 2 10 μg/L N/A 1,2,4-Trimethylbenzene WMS1050527B 2 N/A N/A 5/28/2005 10 μg/L 1,2-Dibromo-3-Chloropropane ND 5/28/2005 WMS1050527B 2 1.0 μg/L N/A N/A 1,2-Dibromoethane (EDB) ND WMS1050527B N/A 5/28/2005 1,2-Dichlorobenzene ND 2 1.0 μg/L N/A WMS1050527B 2 μg/L N/A N/A 5/28/2005 1.01,2-Dichloroethane ND WMS1050527B 2 μg/L N/A N/A 5/28/2005 ND 1.0 1,2-Dichloropropane WMS1050527B 2 10 N/A N/A 5/28/2005 μg/L ND 1,3,5-Trimethylbenzene WMS1050527B 2 N/A N/A 5/28/2005 1.0 μg/L ND 1,3-Dichlorobenzene 5/28/2005 WMS1050527B 2 N/A N/A ND 1.0 μg/L 1,3-Dichloropropane 2 1.0 μg/L N/A N/A 5/28/2005 WMS1050527B ND 1,4-Dichlorobenzene N/A 5/28/2005 WMS1050527B 2 N/A 1.4-Dioxane ND 100 μg/L 5/28/2005 WMS1050527B 2 1.0 μg/L N/A N/A ND 2,2-Dichloropropane WMS1050527B N/A N/A 5/28/2005 2 40 μg/L 2-Butanone (MEK) ND 5/28/2005 WMS1050527B 2 10 N/A N/A ND μg/L 2-Chloroethyl-vinyl Ether WMS1050527B 2 10 μg/L N/A N/A 5/28/2005 ND 2-Chlorotoluene 2 N/A N/A 5/28/2005 WMS1050527B 40 μg/L 2-Hexanone ND WMS1050527B 2 10 N/A N/A 5/28/2005 ND  $\mu g/L$ 4-Chlorotoluene 2 40 N/A N/A 5/28/2005 WMS1050527B μg/L 4-Methyl-2-Pentanone(MIBK) ND WMS1050527B 2 N/A N/A 5/28/2005 ND 40 μg/L Acetone 5/28/2005 WMS1050527B 2 N/A N/A ND 10 μg/L Acetonitrile N/A 5/28/2005 WMS1050527B 2 10 μg/L N/A ND Acrolein WMS1050527B 5/28/2005 N/A N/A Acrylonitrile ND 2 10 μg/L 5/28/2005 WMS1050527B 2 1.0 μg/L N/A N/A Benzene 3.2 5/28/2005 WMS1050527B ND 2 10 μg/L N/A N/A Benzyl Chloride WMS1050527B 2 1.0 μg/L N/A N/A 5/28/2005 Bromobenzene ND WMS1050527B 5/28/2005 2 μg/L N/A N/A ND 1.0Bromochloromethane WMS1050527B μg/L N/A 5/28/2005 N/A 2 1.0Bromodichloromethane ND WMS1050527B N/A N/A 5/28/2005 Bromoform ND 2 1.0  $\mu g/L$ N/A N/A 5/28/2005 WMS1050527B ND 2 1.0 μg/L Bromomethane WMS1050527B 2 1.0 μg/L N/A N/A 5/28/2005 ND Carbon Disulfide N/A 5/28/2005 WMS1050527B 2 N/A ND 1.0μg/L Carbon Tetrachloride N/A 5/28/2005 WMS1050527B 2 1.0 μg/L N/A ND Chlorobenzene N/A 5/28/2005 WMS1050527B N/A 2 1.0 Chloroethane ND μg/L N/A 5/28/2005 WMS1050527B ND 2 1.0 μg/L N/A Chloroform WMS1050527B 2 1.0 μg/L N/A N/A 5/28/2005 Chloromethane ND 2 1.0 μg/L N/A N/A 5/28/2005 WMS1050527B ND cis-1,2-Dichloroethene

Phone: (408) 588-0200

Fax: (408) 588-0201

Project ID: 12-04-770GI Date Received: 5/24/2005 P.O. Number: 12-04-770GI Sample Collected by: Client

Matrix: Liquid Sample Date: 5/23/2005 9:01 AM

Detection Limit = Detection Limit for Reporting. DF = Dilution and/or Prep Factor including sample volume adjustments. ND = Not Detected at or above the Detection Limit.

Qual = Data Qualifier

6/3/2005 11:10:24 AM - dba

3334 Victor Court, Santa Clara, CA 95054

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

#### **Certificate of Analysis - Data Report**

#### Lab #: 43691-001 Sample ID: STMW-4

EPA 624 EPA 5030B EPA 8260B QC Batch **Prep Date Prep Batch Analysis Date** DF Units Parameter Result Qual **Detection Limit** WMS1050527B N/A 5/28/2005 ND 2 1.0 μg/L N/A cis-1,3-Dichloropropene 5/28/2005 WMS1050527B 2 40 μg/L N/A N/A ND Cyclohexanone 1.0 μg/L N/A N/A 5/28/2005 WMS1050527B 2 ND Dibromochloromethane 5/28/2005 WMS1050527B 2 μg/L N/A N/A ND 1.0 Dibromomethane WMS1050527B N/A N/A 5/28/2005 2 μg/L ND 1.0Dichlorodifluoromethane WMS1050527B ND 2 10 μg/L N/A N/A 5/28/2005 Diisopropyl Ether WMS1050527B 2 μg/L N/A N/A 5/28/2005 1.0 Ethyl Benzene 1.6 N/A 5/28/2005 WMS1050527B 2 10  $\mu g/L$ N/A ND Freon 113 5/28/2005 WMS1050527B N/A N/A 2 10 μg/L Hexachlorobutadiene ND WMS1050527B N/A 5/28/2005 2 2.0 μg/L N/A ND Iodomethane 5/28/2005 WMS1050527B N/A 2 40 μg/L N/A ND Isopropanol WMS1050527B 2 2.0 N/A N/A 5/28/2005 μg/L 36 Isopropylbenzene N/A 5/28/2005 WMS1050527B 2 2.0 μg/L N/A ND Methyl-t-butyl Ether 5/28/2005 WMS1050527B 2 N/A N/A 10 μg/L В Methylene Chloride ND WMS1050527B 5/28/2005 2 10 μg/L N/A N/A ND n-Butylbenzene WMS1050527B N/A N/A 5/28/2005 2 10 μg/L n-Propylbenzene 30 WMS1050527B 2 N/A N/A 5/28/2005 ND 10 µg/L Naphthalene N/A 5/28/2005 WMS1050527B 2 10 μg/L N/A ND p-Isopropyltoluene WMS1050527B N/A 5/28/2005 2 1.0 μg/L N/A Pentachloroethane ND 5/28/2005 WMS1050527B N/A 2 N/A ND 10 μg/L sec-Butylbenzene μg/L N/A 5/28/2005 WMS1050527B 2 1.0 N/A ND Styrene WMS1050527B N/A 5/28/2005 2 10 μg/L N/A tert-Amyl Methyl Ether ND 5/28/2005 WMS1050527B 2 N/A N/A 20 μg/L ND tert-Butanol (TBA) WMS1050527B 5/28/2005 2 μg/L N/A N/A ND 10 tert-Butyl Ethyl Ether WMS1050527B N/A N/A 5/28/2005 10 ND 2 μg/L tert-Butylbenzene WMS1050527B 5/28/2005 2 1.0 μg/L N/A N/A ND Tetrachloroethene WMS1050527B N/A N/A 5/28/2005 2 40 μg/L Tetrahvdrofuran ND WMS1050527B N/A 5/28/2005 2 1.0 μg/L N/A ND Toluene 5/28/2005 WMS1050527B N/A N/A 2 1.0 μg/L trans-1,2-Dichloroethene ND 5/28/2005 WMS1050527B 2 N/A N/A 10 μg/L trans-1,3-Dichloropropene ND WMS1050527B 5/28/2005 2 2.0 μg/L N/A N/A ND trans-1.4-Dichloro-2-butene 1.0 N/A N/A 5/28/2005 WMS1050527B 2 μg/L Trichloroethene ND 5/28/2005 WMS1050527B N/A 1.0 μg/L N/A ND 2 Trichlorofluoromethane WMS1050527B N/A N/A 5/28/2005 2 10 μg/L Vinyl Acetate ND 5/28/2005 WMS1050527B 1.0 N/A N/A ND 2 μg/L Vinyl Chloride 5/28/2005 WMS1050527B N/A N/A 1.0 μg/L 5.0 2 Xylenes, Total Sample diluted due to high concentration of non-target compounds.

Surrogate	Surrogate Recovery	Contro	ol Li	mits (%)
4-Bromofluorobenzene	109	75	-	125
Dibromofluoromethane	107	75	-	125
Toluene-d8	105	75	-	125

Analyzed by: XBian

Reviewed by: TFulton

Phone: (408) 588-0200

Fax: (408) 588-0201

Project ID: 12-04-770GI Date Received: 5/24/2005 P.O. Number: 12-04-770GI Sample Collected by: Client

Sample Date: 5/23/2005 9:01 AM Matrix: Liquid

B = This analyte was found in the associated Method Blank.

3334 Victor Court , Santa Clara, CA 95054

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

#### Certificate of Analysis - Data Report

#### Lab #: 43691-001 Sample ID: STMW-4

Matrix: Liquid Sample Date: 5/23/2005 9:01 AM

EPA 5030B EPA 8015 M	OD. (Purgeable)								
Parameter	Result Qu	ual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	2700		10	500	μg/L	N/A	N/A	5/26/2005	WGC4050526
Surrogate	Surrogate Recovery	Co	ontrol I	Limits (%)				Analyzed by: mruar	n
4-Bromofluorobenzene	110		65 -	135				Reviewed by: dba	

Detection Limit = Detection Limit for Reporting. DF = Dilution and/or Prep Factor including sample volume adjustments. Fax: (408) 588-0201

Project ID: 12-04-770GI Date Received: 5/24/2005 P.O. Number: 12-04-770GI Sample Collected by: Client

Phone: (408) 588-0200

3334 Victor Court , Santa Clara, CA 95054

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

#### **Certificate of Analysis - Data Report**

### Lab #: 43691-002 Sample ID: STMW-5

Phone: (408) 588-0200

Fax: (408) 588-0201

Project ID: 12-04-770GI Date Received: 5/24/2005 P.O. Number: 12-04-770GI Sample Collected by: Client

Matrix: Liquid Sample Date: 5/23/2005 10:05 AM

EPA 5030B EPA 8260B EPA 6	24							
Parameter	Result Qual	DF	<b>Detection Limit</b>	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
1,1,1-Trichloroethane	ND	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
1,1,2,2-Tetrachloroethane	ND	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
1,1,2-Trichloroethane	ND	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
1,1-Dichloroethane	ND	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
1,1-Dichloroethene	ND	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
1,1-Dichloropropene	ND	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
1,2,3-Trichlorobenzene	ND	1	5.0	μg/L	N/A	N/A	5/28/2005	WMS1050527B
1,2,3-Trichloropropane	ND	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
1,2,4-Trichlorobenzene	ND	1	5.0	μg/L	N/A	N/A	5/28/2005	WMS1050527B
1,2,4-Trimethylbenzene	ND	1	5.0	μg/L	N/A	N/A	5/28/2005	WMS1050527B
1,2-Dibromo-3-Chloropropane	ND	1	5.0	μg/L	N/A	N/A	5/28/2005	WMS1050527B
1,2-Dibromoethane (EDB)	ND	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
1,2-Dichlorobenzene	ND	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
1.2-Dichloroethane	ND	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
1.2-Dichloropropane	ND	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
1,3,5-Trimethylbenzene	ND	1	5.0	μg/L	N/A	N/A	5/28/2005	WMS1050527B
1,3-Dichlorobenzene	ND	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
1,3-Dichloropropane	ND	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
1,4-Dichlorobenzene	ND	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
1,4-Dioxane	ND	1	50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
2,2-Dichloropropane	ND	1	0.50	, υ μg/L	N/A	N/A	5/28/2005	WMS1050527B
2-Butanone (MEK)	ND	1	20	μg/L	N/A	N/A	5/28/2005	WMS1050527B
2-Chloroethyl-vinyl Ether	ND	1	5.0	μg/L	N/A	N/A	5/28/2005	WMS1050527B
	ND	1	5.0	μg/L	N/A	N/A	5/28/2005	WMS1050527B
2-Chlorotoluene	ND	1	20	μg/L	N/A	N/A	5/28/2005	WMS1050527B
2-Hexanone	ND	1	5.0	μg/L	N/A	N/A	5/28/2005	WMS1050527B
4-Chlorotoluene	ND	1	20	μg/L	N/A	N/A	5/28/2005	WMS1050527B
4-Methyl-2-Pentanone(MIBK)	ND	1	20	μg/L	N/A	N/A	5/28/2005	WMS1050527B
Acetone	ND	1	5.0	μg/L	N/A	N/A	5/28/2005	WMS1050527B
Acetonitrile	ND	1	5.0	μg/L	N/A	N/A	5/28/2005	WMS1050527B
Acrolein	ND	1	5.0	μg/L	N/A	N/A	5/28/2005	WMS1050527B
Acrylonitrile	16	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
Benzene	ND	1	5.0	μg/L	N/A	N/A	5/28/2005	WMS1050527B
Benzyl Chloride	ND	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
Bromobenzene	ND	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
Bromochloromethane	ND	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
Bromodichloromethane		1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
Bromoform	ND	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
Bromomethane	ND	1	0.50	μg/L	N/A	N/A	5/28/2005	WMS1050527B
Carbon Disulfide	ND ND	1	0.50	μg/L μg/L	N/A	N/A	5/28/2005	WMS1050527B
Carbon Tetrachloride	ND	1	0.50	μg/L μg/L	N/A	N/A	5/28/2005	WMS1050527B
Chlorobenzene	ND	1	0.50	μg/L μg/L	N/A	N/A	5/28/2005	WMS1050527B
Chloroethane	ND	1	0.50	μg/L μg/L	N/A	N/A	5/28/2005	WMS1050527B
Chloroform	ND	1	0.50	μg/L μg/L	N/A	N/A	5/28/2005	WMS1050527B
Chloromethane	ND	1	0.50	μg/L μg/L		N/A	5/28/2005	WMS1050527B
cis-1,2-Dichloroethene	ND	1	0.50	μ8,Γ	1.1.1.1			

Detection Limit = Detection Limit for Reporting. DF = Dilution and/or Prep Factor including sample volume adjustments. ND = Not Detected at or above the Detection Limit.

Qual = Data Qualifier

Sample Collected by: Client

3334 Victor Court , Santa Clara, CA 95054

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

#### Certificate of Analysis - Data Report

#### Sample ID: STMW-5 Lab #: 43691-002

EPA 624 EPA 5030B EPA 8260B QC Batch **Analysis Date Prep Batch** DF **Detection Limit** Units **Prep Date** Qual Result Parameter WMS1050527B N/A N/A 5/28/2005 0.50 μg/L ND 1 cis-1,3-Dichloropropene WMS1050527B N/A 5/28/2005 μg/L N/A 20 ND 1 Cyclohexanone N/A 5/28/2005 WMS1050527B 0.50 μg/L N/A 1 Dibromochloromethane ND WMS1050527B 5/28/2005 N/A N/A 0.50 μg/L ND 1 Dibromomethane WMS1050527B 5/28/2005 N/A N/A 1 0.50 μg/L ND Dichlorodifluoromethane WMS1050527B N/A N/A 5/28/2005 5.0 μg/L 1 ND Diisopropyl Ether 5/28/2005 WMS1050527B N/A N/A 0.50 μg/L 1 0.52 Ethyl Benzene 5/28/2005 WMS1050527B N/A N/A ND 1 5.0 μg/L Freon 113 WMS1050527B 5/28/2005 N/A N/A 5.0 μg/L 1 Hexachlorobutadiene ND WMS1050527B N/A 5/28/2005 N/A 1 1.0 μg/L ND Iodomethane WMS1050527B N/A 5/28/2005 20 μg/L N/A ND 1 Isopropanol 5/28/2005 WMS1050527B N/A μg/L N/A 1 1.0 13 Isopropylbenzene WMS1050527B 5/28/2005 N/A N/A 1 1.0 μg/L ND Methyl-t-butyl Ether 5/28/2005 WMS1050527B N/A 5.0 μg/L N/A в 1 ND Methylene Chloride WMS1050527B 5/28/2005 N/A N/A μg/L ND 1 5.0 n-Butylbenzene WMS1050527B 5/28/2005 N/A N/A 5.0 µg/L ł n-Propylbenzene ND 5/28/2005 WMS1050527B N/A N/A 5.0 μg/L ND Naphthalene WMS1050527B 5/28/2005 N/A μg/L N/A 5.0 ND 1 p-Isopropyltoluene WMS1050527B N/A 5/28/2005 0.50 μg/L N/A ND 1 Pentachloroethane WMS1050527B 5.0 μg/L N/A N/A 5/28/2005 1 ND sec-Butylbenzene WMS1050527B N/A 5/28/2005 N/A 0.50 μg/L ND Styrene WMS1050527B N/A 5/28/2005 μg/L N/A 5.0 tert-Amyl Methyl Ether ND WMS1050527B 5/28/2005 N/A μg/L N/A 1 10 ND tert-Butanol (TBA) WMS1050527B 5/28/2005 N/A N/A 5.0 μg/L ND 1 tert-Butyl Ethyl Ether WMS1050527B 5/28/2005 N/A N/A 5.0 μg/L ND 1 tert-Butylbenzene N/A 5/28/2005 WMS1050527B N/A ND 1 0.50 μg/L Tetrachloroethene WMS1050527B 5/28/2005 N/A N/A 20 μg/L ND 1 Tetrahydrofuran WMS1050527B N/A N/A 5/28/2005 ND 1 0.50 μg/L Toluene WMS1050527B 5/28/2005 N/A 0.50 μg/L N/A 1 trans-1,2-Dichloroethene ND WMS1050527B N/A 5/28/2005 0.50 μg/L N/A ND 1 trans-1,3-Dichloropropene WMS1050527B N/A 5/28/2005 N/A 1.0 μg/L trans-1,4-Dichloro-2-butene ND 1 5/28/2005 WMS1050527B N/A 0.50 μg/L N/A ND 1 Trichloroethene WMS1050527B 5/28/2005 N/A N/A 1 0.50 μg/L ND Trichlorofluoromethane WMS1050527B N/A 5/28/2005 5.0 μg/L N/A 1 ND Vinyl Acetate 5/28/2005 WMS1050527B N/A N/A 0.50 1 μg/L ND Vinyl Chloride WMS1050527B N/A 5/28/2005 N/A 0.50 μg/L 1 Xylenes, Total ND Analyzed by: XBian **Control Limits (%)** Surrogate Surrogate Recovery Reviewed by: TFulton 125 75 4-Bromofluorobenzene 102 75 125 112 Dibromofluoromethane 75 125 107 Toluene-d8

B = This analyte was found in the associated Method Blank.

Phone: (408) 588-0200

Project ID: 12-04-770GI 5/24/2005 Date Received: P.O. Number: 12-04-770GI Sample Collected by: Client

10:05 AM Sample Date: 5/23/2005 Matrix: Liquid

Fax: (408) 588-0201

3334 Victor Court , Santa Clara, CA 95054

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

#### **Certificate of Analysis - Data Report**

#### Lab #: 43691-002 Sample ID: STMW-5

Matrix: Liquid Sample Date: 5/23/2005 10:05 AM

EPA 5030B EPA 8015 M	OD. (Purgeable)								
Parameter	Result	Qual	DF	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	1500		5	250	μg/L	N/A	N/A	5/26/2005	WGC4050526
Surrogate	Surrogate Recovery	7	Control	Limits (%)				Analyzed by: mruar	1
4-Bromofluorobenzene	131		65	- 135				Reviewed by: dba	

Phone: (408) 588-0200

Project ID: 12-04-770GI

Date Received: 5/24/2005

P.O. Number: 12-04-770GI

Sample Collected by: Client

Fax: (408) 588-0201

Entech /	Analy	tical	_abs	<u>s, In</u>	<u>C.</u>					
3334 Victor Co	urt , Santa	Clara, C	A 95054	l Ph	one: (	408) 588-	-0200 Fa	x: (4	08) 588-0	201
Method Blank - L QC Batch ID: WG QC Batch Analysis	C4050526			eable) ·					ed by: MaiCh	Tu - 05/27/05
<b>Parameter</b> TPH as Gasoline			Result ND		<b>DF</b> 1	<b>PQL</b> 50		n <b>its</b> g/L		
Surrogate for Blank 4-Bromofluorobenzene	% Recovery 0 93.5	Control Limits 65 - 135								
Laboratory Contro QC Batch ID: WG QC Batch ID Analy	C4050526		Liquid	- EPA	8015 M(	OD. (Purge	e <b>able) - TF</b> Revie	PH as ewed by	<b>Gasoline</b> r: MaiChiTu -	05/27/05
<b>LCS</b> Parameter TPH as Gasoline	Method E <50	Blank Spike A 250	amt Spikel 23		U <b>nits</b> % μg/L	6 <b>Recovery</b> 92.0		F	Recovery Limi 65 - 135	ts
Surrogate 4-Bromofluorobenzene	% Recovery 95.7	Control Limit 65 - 135	ts							
<b>LCSD</b> Parameter TPH as Gasoline	Method E <50	Blank Spike A 250		<b>Result</b> 30	<b>Units %</b> µg/L	% Recovery 92.2	<b>RPD RPD</b> Li 0.22 25.0		Recovery Limi 65 - 135	ts
Surrogate 4-Bromofluorobenzene	% Recovery 100	<b>Control Limi</b> 65 - 135	ts							
Matrix Spike / Mat QC Batch ID: WG	C4050526		Liquid -	EPA 80	015 MO	D. (Purgea	<b>ble) - TPH</b> Revi	H as G ewed by	a <b>soline</b> y: MaiChiTu -	05/27/05
QC Batch ID Anal MS	ysis Date. C	Sample Spik	ed: 43687-	001						
Parameter TPH as Gasoline		Sample Result ND	Spike Amount 250	Spike Result 234	Units µg/L	Analysis Date 5/26/2005	% Recovery 93.7			Recovery Limits 65 - 140
Surrogate 4-Bromofluorobenzene	% Recovery 102	Control Limi 65 - 135	its							
MSD		Sample Spik				Analysia				Recovery
<b>Parameter</b> TPH as Gasoline		Sample Result ND	Spike Amount 250	Spike Result 226	Units µg/L	Analysis Date 5/26/2005	% Recovery 90.6	<b>RPD</b> 3.4	RPD Limits 25.0	Limits 65 - 140
Surrogate 4-Bromofluorobenzene	% Recovery 92.6	Control Lim 65 - 135	its							

Entech Ana	lytical La	ubs, Ind	∕∧ У в		
3334 Victor Court , S	anta Clara, CA 9	5054 Pho	one: (408)	588-0200	Fax: (408) 588-0201
Method Blank - Liquid QC Batch ID: WGC40505 QC Batch Analysis Date:	26	BE by EPA 80	20		Validated by: MaiChiTu - 05/27/05
Parameter Methyl-t-butyl Ether		esult ND	DF 1	PQLR 1.0	Units μg/L
Surrogate for Blank % Recovered with the second sec					
Laboratory Control Sam	ole / Duplicate - Liq	juid - EPA 8	020 - MTE		
QC Batch ID: WGC4050	526				Reviewed by: MaiChiTu - 05/27/05
QC Batch ID Analysis Da	te: 5/26/2005				
LCS Parameter Me Methyl-t-butyl Ether	thod Blank Spike Amt S <1.0 8.0		nits % Reco g/L 103	-	Recovery Limits 65 - 135

LCSD Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD		Recovery Limits
Methyl-t-butyl Ether	<1.0	8.0	7.88	µg/L	98.5	4.2	25.0	65 - 135
Surrogate	% Recovery Cont	trol Limits						

4-Bromofluorobenzene **96.6** 65 - 135

Surrogate

4-Bromofluorobenzene

% Recovery Control Limits

65 - 135

101

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - L QC Batch ID: WG QC Batch Analysis	C4050526		ΈX				Valio	lated by: MaiChiTu - 05/27/05
-			Result	DF	PQ	R	Units	
Parameter Benzene		ľ	ND	1	0.5		µg/L	
Ethyl Benzene			ND	1	0.5		µg/L	
Toluene			ND	1	0.5		μg/L	
Xylenes, Total			ND	1	0.5	50	μg/L	
Surrogate for Blank 4-Bromofluorobenzene	<b>96.1</b> 65	ol Limits - 135		A 0020	DTEV			
Laboratory Contro		icate - Li	quid - EPA	A 8020	- BIEX		Deviewed	hu Maichitu 05/07/05
QC Batch ID: WG	C4050526						Reviewed	by: MaiChiTu - 05/27/05
QC Batch ID Analy	/sis Date: 5/26/	2005						
LCS Parameter	Method Blank	Snike Amt	SpikeResult	Units	% Recovery			Recovery Limits
Benzene	<0.50	8.0	8.61	µg/L	108			65 - 135
Ethyl Benzene	<0.50	8.0	8.09	μg/L	101			65 - 135
Toluene	< 0.50	8.0	8.53	µg/L	107			65 - 135
Xylenes, total	< 0.50	24	24.9	μg/L	104			65 - 135
Surrogate	% Recovery Con	trol Limits						
4-Bromofluorobenzene	5	- 135						
LCSD Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	<0.50	8.0	8.36	µg/L	104	2.9	25.0	65 - 135
Ethyl Benzene	< 0.50	8.0	7.68	μg/L	96.0	5.2	25.0	65 - 135
Toluene	<0.50	8.0	8.09	μg/L	101	5.3	25.0	65 - 135
Xylenes, total	<0.50	24	23.6	μg/L	98.2	5.7	25.0	65 - 135
Surrogate 4-Bromofluorobenzene	% Recovery Con	ntrol Limits - 135						

#### Matrix Spike / Matrix Spike Duplicate - Liquid - EPA 8020 - BTEX Reviewed by: MaiChiTu - 05/27/05 QC Batch ID: WGC4050526 QC Batch ID Analysis Date: 5/26/2005 Sample Spiked: 43687-001 MS Recovery Sample Spike Spike Analysis Limits Date Result Amount Result Units % Recovery Parameter 65 - 140 ND 2.8 2.82 µg/L 5/26/2005 100 Benzene 5/26/2005 78.9 65 - 140 3.7 2.92 µg/L ND Ethyl Benzene 65 - 140 92.1 ND 16 15.1 µg/L 5/26/2005 Toluene 65 - 140 85.1 20 16.6 µg/L 5/26/2005 Xylenes, total ND Surrogate % Recovery **Control Limits** 65 - 135 104 4-Bromofluorobenzene Sample Spiked: 43687-001 MSD

	Sample	Spike	Spike		Analysis				Recovery
Parameter	Result	Amount	Result	Units	Date	% Recovery	RPD	RPD Limits	Limits
Benzene	ND	2.8	2.84	µg/L	5/26/2005	101	0.71	25.0	65 - 140
Ethyl Benzene	ND	3.7	2.96	μg/L	5/26/2005	80.0	1.4	25.0	65 - 140
Toluene	ND	16	15.4	µg/L	5/26/2005	94.0	2.1	25.0	65 - 140
Xylenes, total	ND	20	16.9	µg/L	5/26/2005	86.7	1.9	25.0	65 - 140

Surrogate	% Recovery	Cont	trol	Limits
4-Bromofluorobenzene	107	65	-	135

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200 Fax: (408) 588-0201

#### Method Blank - Liquid - EPA 8260B - EPA 8260B

QC Batch ID: WMS1050527B

QC Batch Analysis Date: 5/27/2005

Go Baten Analysis Bate. Sizhizee	De ser lá	DE		Units
Parameter	Result	DF 1	PQLR 0.50	μg/L
1,1,1,2-Tetrachloroethane	ND ND	1	0.50	µg/∟ µg/L
1,1,1-Trichloroethane	ND	1	0.50	µg/∟ µg/L
1,1,2,2-Tetrachloroethane	ND	1	0.50	µg/∟ µg/L
1,1,2-Trichloroethane	ND	1	0.50	μg/L
1,1-Dichloroethane	ND	1	0.50	μg/L
1,1-Dichloroethene		י 1	0.50	μg/L
1,1-Dichloropropene	ND	1	5.0	μg/L
1,2,3-Trichlorobenzene	ND		0.50	
1,2,3-Trichloropropane	ND	1	5.0	µg/L
1,2,4-Trichlorobenzene	ND	1		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-Chloroethyl-vinyl Ether	ND	1	5.0	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
Acrolein	ND	1	5.0	µg/L
Acrylonitrile	ND	1	5.0	µg/L
Benzene	ND	1	0.50	μg/L
Benzyl Chloride	ND	1	5.0	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
Cyclohexanone	ND	1	20	μg/L
e je e e e e e e e e e e e e e e e e e				. •

Validated by: TFulton - 06/02/05

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200 Fax: (408) 588-0201

### Method Blank - Liquid - EPA 8260B - EPA 8260B QC Batch ID: WMS1050527B

#### QC Batch Analysis Date: 5/27/2005

	Peoult	DF	PQLR	Units
Parameter	Result ND	1	0.50	μg/L
Dibromochloromethane	ND	1	0.50	μg/L
Dibromomethane	ND	1	0.50	μg/L
Dichlorodifluoromethane	ND	1	5.0	μg/L
Diisopropyl Ether	ND	1	0.50	μg/L
Ethyl Benzene	ND	1	5.0	μg/L
Freon 113 Hexachlorobutadiene	ND	1	5.0	μg/L
	ND	1	1.0	μg/L
lodomethane	ND	1	20	μg/L
Isopropanol	ND	1	1.0	μg/L
Isopropylbenzene	10	1	5.0	µg/∟ µg/L
Methylene Chloride	ND	1	1.0	μg/L
Methyl-t-butyl Ether	ND	1	5.0	μg/L
Naphthalene	ND	1	5.0	μg/L
n-Butylbenzene	ND	1	5.0	μg/L
n-Propylbenzene	ND	1	0.50	μg/L
Pentachloroethane	ND	1	5.0	μg/L
p-Isopropyltoluene	ND	1	5.0	μg/L
sec-Butylbenzene	ND	1	0.50	μg/L
Styrene	ND	1	5.0	μg/L
tert-Amyl Methyl Ether	ND	1	10	μg/L
tert-Butanol (TBA)	ND	1	5.0	μg/L
tert-Butyl Ethyl Ether	ND	1	5.0	µg/L
tert-Butylbenzene Tetrachloroethene	ND	1	0.50	µg/L
	ND	1	20	μg/L
Tetrahydrofuran Toluene	ND	1	0.50	µg/L
trans-1,2-Dichloroethene	ND	1	0.50	μg/L
	ND	1	0.50	μg/L
trans-1,3-Dichloropropene	ND	1	1.0	µg/L
trans-1,4-Dichloro-2-butene	ND	1	0.50	µg/L
Trichloroethene	ND	1	0.50	μg/L
Trichlorofluoromethane	ND	1	5.0	μg/L
Vinyl Acetate	ND	1	0.50	μg/L
Vinyl Chloride	ND	1	0.50	μg/L
Xylenes, Total		I	0.00	P9'-

Surrogate for Blank	% Recovery	<b>Control Limits</b>					
4-Bromofluorobenzene	89.8	75	-	125			
Dibromofluoromethane	111	75	-	125			
Toluene-d8	108	75	-	125			

Validated by: TFulton - 06/02/05

#### QCReport - dba - 6/3/2005 11:15:26 AM

## Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200 Fax: (408) 588-0201

Reviewed by: TFulton - 06/02/05

### Laboratory Control Sample / Duplicate - Liquid - EPA 8260B - EPA 8260B

#### QC Batch ID: WMS1050527B

#### QC Batch ID Analysis Date: 5/27/2005

#### LCS

LCS			0 - 11 - D 14	11	0/ Decessory			Recovery Limits		
Parameter		ank Spike Amt		Units	% Recovery			•		
1,1-Dichloroethene	<0.50	20	18.4	µg/L	92.0			80 - 120		
Benzene	<0.50	20	20.5	µg/L	102			80 - 120		
Chlorobenzene	<0.50	20	20.9	µg/L	104			80 - 120		
Methyl-t-butyl Ether	<1.0	20	22.1	μg/L	110			80 - 120		
Toluene	<0.50	20	20.3	µg/L	102			80 - 120		
Trichloroethene	<0.50	20	19.8	µg/L	99.0			80 - 120		
Surrogate	% Recovery	<b>Control Limits</b>								
4-Bromofluorobenzene	86.5	75 - 125								
Dibromofluoromethane	103	75 - 125								
Toluene-d8	96.9	75 - 125								
LCSD										
Parameter	Method Bl	ank Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	<b>Recovery Limits</b>		
	Method Bl <0.50	ank Spike Amt 20	SpikeResult 18.8	Units µg/L	% Recovery 94.0	RPD 2.2	RPD Limits 25.0	Recovery Limits 80 - 120		
Parameter					•			•		
Parameter 1,1-Dichloroethene	<0.50	20	18.8	µg/L	94.0	2.2	25.0	80 - 120		
<b>Parameter</b> 1,1-Dichloroethene Benzene	<0.50 <0.50	20 20	18.8 20.9	μg/L μg/L	94.0 104	2.2 1.9	25.0 25.0	80 - 120 80 - 120		
<b>Parameter</b> 1,1-Dichloroethene Benzene Chlorobenzene	<0.50 <0.50 <0.50	20 20 20	18.8 20.9 20.8	μg/L μg/L μg/L	94.0 104 104	2.2 1.9 0.48	25.0 25.0 25.0	80 - 120 80 - 120 80 - 120		
Parameter 1,1-Dichloroethene Benzene Chlorobenzene Methyl-t-butyl Ether	<0.50 <0.50 <0.50 <1.0	20 20 20 20	18.8 20.9 20.8 23.5	μg/L μg/L μg/L μg/L	94.0 104 104 118	2.2 1.9 0.48 6.1	25.0 25.0 25.0 25.0	80 - 120 80 - 120 80 - 120 80 - 120 80 - 120		
Parameter 1,1-Dichloroethene Benzene Chlorobenzene Methyl-t-butyl Ether Toluene	<0.50 <0.50 <1.0 <0.50 <1.0	20 20 20 20 20	18.8 20.9 20.8 23.5 20.6	μg/L μg/L μg/L μg/L μg/L	94.0 104 104 118 103	2.2 1.9 0.48 6.1 1.5	25.0 25.0 25.0 25.0 25.0	80 - 120 80 - 120 80 - 120 80 - 120 80 - 120 80 - 120		
Parameter 1,1-Dichloroethene Benzene Chlorobenzene Methyl-t-butyl Ether Toluene Trichloroethene	<0.50 <0.50 <1.0 <0.50 <1.0	20 20 20 20 20 20	18.8 20.9 20.8 23.5 20.6	μg/L μg/L μg/L μg/L μg/L	94.0 104 104 118 103	2.2 1.9 0.48 6.1 1.5	25.0 25.0 25.0 25.0 25.0	80 - 120 80 - 120 80 - 120 80 - 120 80 - 120 80 - 120		
Parameter 1,1-Dichloroethene Benzene Chlorobenzene Methyl-t-butyl Ether Toluene Trichloroethene Surrogate	<0.50 <0.50 <1.0 <0.50 <0.50 <0.50	20 20 20 20 20 20 20 Control Limits	18.8 20.9 20.8 23.5 20.6	μg/L μg/L μg/L μg/L μg/L	94.0 104 104 118 103	2.2 1.9 0.48 6.1 1.5	25.0 25.0 25.0 25.0 25.0	80 - 120 80 - 120 80 - 120 80 - 120 80 - 120 80 - 120		
Parameter 1,1-Dichloroethene Benzene Chlorobenzene Methyl-t-butyl Ether Toluene Trichloroethene Surrogate 4-Bromofluorobenzene	<0.50 <0.50 <1.0 <0.50 <0.50 <0.50 % Recovery 85.7	20 20 20 20 20 20 20 <b>Control Limits</b> 75 - 125	18.8 20.9 20.8 23.5 20.6	μg/L μg/L μg/L μg/L μg/L	94.0 104 104 118 103	2.2 1.9 0.48 6.1 1.5	25.0 25.0 25.0 25.0 25.0	80 - 120 80 - 120 80 - 120 80 - 120 80 - 120 80 - 120		

#### CHAIN OF CUSTODY RECORD

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NO.	DATE	TIME	1	Water	LOCATION	TAINER	1	Y	Y	L L		1					
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2	V	1005		li	STMW-5	3	V	V			0	102					
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Ç		Envi	ronne	intal &	Geotechnical Consultants IN JOSE, CALIFORNIA 95111					-							
		el: (408			Fax: (408) 292-2116												
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File No. 12-04-770-GI

### APPENDIX "G"

### WELL CONSTRUCTION PERMITS

**ENVIRO SOIL TECH CONSULTANTS** 



WATER RESOURCES SECTION 399 ELMIURST ST. HAYWARD CA. 94544-1395 PHONE (510) 670-6633 James Yor FAX (510) 752-1939 WWW.BC

FAX (\$10) 752-1939 APPLICANTS: PLEASE ATTACH & SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	PERMIT NUMBER
Oakland, CA 94604	APN
· · · · · · · · · · · · · · · ·	PERMIT CONDITIONS
	Circled Permit Requirements Apply
CLIENT	(A) GENERAL
Mr Fd Hennet	t a permut continuition about the submitted so as to
Address 3840 San Pablo Phone 510-428-3950	sprive at the ACPWA office five days prior to
City Dirervville 2iz 94508	annound staning date.
	<ol> <li>Submit a ACPWA within 60 days after completion of purmitted original Department of Water Resources-</li> </ol>
APPLICANT Name Enviro Soil Tech Consultants	Well Completion Report.
Name_BHV110 5011 ACC Fr. 408-292-2116	3. Pennit is void if project not hegen within 90 days of
Address 131 Thilly RO20 Phone 408-297- 500	approval data
Civ San Jose 24 95111	a minemen culper state 7 S
	Minimum surface test incorporation for inches of
	somet arout placed by tranic.
Well Construction Georgeonical Investigation	a Minimum cost death is 50 feet for municipal and
The second s	Industrial wells or 20 feet for domestic and irrigation wells inters a leaser depth is specially approved.
Carpupter Protection	C. GROUNDWATTER MONITORING WELLS
Water Supply (, designation (c)) Monutoring Well Destruction	INCLUDING PIEZOMETERS
	1. Minimum surface scal thickness is two inches of
PROPOSED WATER SUPPLY WELL USE	compations arous placed by activic.
New Domestic (Replacement Domestic	2 Minimum scal depth for monitoring, walls is use
Municipal	maximum death oracticable or 20 feet.
Industrial Color	CONTACTION AT A MARINATION
THE METHOD	De a Liff have hale by tremin with coment prout of comen-
ORILLING METHOD Mud Rolary Ant Polisty Awgtr	grout and mixture. Upper two-three feet replaced in kend
Cable Other Hollow-stern	E. CATHOTIC
this and Tor	Fill hole anade zone with concrete placed by Inania.
DRILLER'S NAME Vironex, Inc.	- NET DESTRUCTION
705927	Send a map of work site. A separate permit is required
DRILLER'S LICENSE NO 705927	for wolls, depart than 45 feet.
	10. THEQUE CONDITIONS - RAI
WELL PROJECTE	
Drill Hols Dismost	NOTE: Cine application must be submitted for each well or well downsetion. Multiple borings on are application are acceptable
Craine Diameter in Depth	for generation with the contemport of the apprentications.
Surface Seel Depth II Owner's Well Number	In parterning and constraints of a second
GEOTECHNICAL/CONTAMINATION PRODUCTS	/
Number of Berlings 5 Maximuter 23 in Press 23 in	, /
1/20/05 /1/6/080	August 4-25-05
STARTING DATE 4/22/05 4/2-01-5	1 man 4-25 0
0126105 4-28105	(Mer V)
COMPLETION DATE 4/26/05 4-28/05	APPROVED DATE
I bureby egree to comply with all requiregents of this permit and Alameda County On	finance N- 17-19
de l'a mand	-09.0=
AVELICANT'S BITS STURIES AND ANTE	
	.5-11-04
PLEASE PRINT WANT	



WATER RESOURCES SECTION 199 ELMNURST ST. HAYWARD CA. \$4544-1395 PHONE (S10) 676-6633 Janus Yes

FAX (510) 702-1939 APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS DESTRUCTION OF WELLS OVER 45 FRET REQUIRES A SEPARATE PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
	115-1401
LOCATION OF PROJECT 5630 San Pablo Avenue Oakland, CA 94604	PERMIT NUMBER MUS VIII
Oakland, CA 94604	WELL NUMBER
	APN
And and a second s	***
	PERMIT CONDITIONS
	Circled Permit Requirements Apply
CUINT Mr. Ed Henniet	O martine i
	GENERAL
Address 3840 San Pablo Phone 510-428-3950	<ol> <li>A permit application should be submitted on us to arrive at the ACRWA office five days prior to</li> </ol>
Cin Emeryville 7ir 94508	Drophted starting day.
- DELIG - LO	Automic to a COWA within fill days after completion of
APPLICANT Soil Grach Consultants	retrained original Department of Water Resources-
Name_Enviro_Soil_Tech_Consultants	Well Completion Provide States
Address 131 Tully Road Phone 408-297-1500	3. Permit is yold if project not begun within 90 days of
Cry_San Jose Zir 95111	approval date
	B. WATER SUPPLY WELLS
and the second	1. Minunum surface and thickness is two inches of
TYPE OF PROJECT	coment growt placed by armic.
Well Coperatiest Geolecomical Investigation	2 Minimum seal depth is 50 feet for manierpal and
Cathodie Proteourr General	Industrial walls or 20 feet for damestic and irrigation
Water Supply Contamination	weils unless a lesses acents is specially approved
Monitoring Well Destruction	GOGROUNDWATER MONTORING WELLS
	INCLUDING PIEZOMETERS
PROPOSED WATER SUPPLY WELL USE	1. Minimum surface stal shicknost is two meter al
New Domulit. Replacement Tomsenic	compart grout placed by tremic. 2. Minimum scal depth for monitoring wells at the
Municip21 intigation	maximum depiti practicable or 20 feet.
Industrial Column	D. GEOTECHNICALICONTAMINATION
DRILLING METHOD	Backfill bare hole by remie with cemons greut or coment
Mud Romp Ar Balary Auger	group and maxine, Upper two-three feet replaced in kind
	or with compacted cuttings
nozzow-scela	E. CATHODIC
DRILLER'S NAME VIRONEX, Inc.	Fill hole anode zone with contract placed by tremie
705927	F. WELL DESTRUCTION
DRILLER'S LICENSE IN. 700927	Send a map of work site. A separate permit is required
	A for welly deeper than df feet.
the second se	D. LOBETAL CONDITIONS - MULTI
WELL PROJECTS	NOTE: One application must be submitted for each well or well
Casing Diameter 2	destniction. Multrple bornige on one appliention are neceptable
Serface Seal Dept. 6-7 f. Channer STWW-2	for protechnical and contamination investigations
Service Searcharden Den 1. Control a men mannar <u>Braker Pr</u> .	In Protectivities and excerning and and
A second a first second se	
GEOTECHNICALICONTAMINATION PROJECTS	
Namber of Borings Maximum	
How Diameter III Darth	1
\$177/05 U.2605	1 2 2
STARTING DATI TIEGTUS	1-20
4/26/05 4/28-05	KINN 405-0
STARTING DATE 4/22/05 4.2605	AMPROVED AMPAN DATE 4-25-05
"hereby agree to service with all requirements of his strengt and Annuada County Ordinan	nen Na Tribé
H 110	
UPPLICANT'S SHOW WURD AND AND DATE of . O	8.05 / / / /
PLEASE PRINT MAKE Prank Hamedi BATE PLEASE	-04
4	



WATER RESOURCES SECTION 399 ELMHURST ST. HAYWARD CA. 54544-1395 PHONE (510) 670-6633 James Yos FAX (510) 702-1939 APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS DESTRUCTION OF WELLS OVER 45 FRET REQUIRES A SEPARATE PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE WIT
LOCATION OF PROJECT 5630 San Pablo Avenue Oakland, CA 94604	VELL NUMBER
Cartani, Ca 24004	APN
the second	PERMIT CONDITIONS
	Circled Permit Requirements Apply
CLIENT Mr. Ed Henniet	· · ·
NamePL, DG FIEMMET	GENERAL
Address 3840 San Pablo Phone 510-428-3950	<ol> <li>A permit application should be submitted so as to arrive at the ACPWA office five days prior to</li> </ol>
Cin Emeryville 7ir 94508	Trophed starting date.
	2. Submit to ACPWA within 60 days after completion of
APPLICANT. Foil (mach Consultants	permitted original Department of Weler Resources-
Name EDVIC Soil Tech Consultants Fax 408-292-2116 Address 131 Tully Road Phone 408-297-1500	Well Completion Percet.
Address 131 (D) IV BORD Phone 408-297-1500	1 Germinis word if project not begun within 90 days of
Ciry San Jose Zir 95111	approval date
	B. WATER SUPPLY WELLS
and have been as a second s	1. Minumum surface wal thickness is two inches of
TYPE OF PROJECT	coment grout placed by tremie.
Well Construction Construction	<ol> <li>Minimum seal depth is 50 feet for manipipal and Industrial wells or 20 feet for domestic and impation</li> </ol>
Cathodie Protection General	welly unless a leave apph is specially approved
Water Supply Contamination	C GROUNDWATER MONITORING WELLS
Monitoring Well Destruction	INCLUDING PIEZOMETERS
PROPOSED WATER SUPPLY WILL USE	1. Minimum minface tool thicknost is two methed bi
New Domestic Replocement Tomestic	comont grow placed by tramic.
Municipal Istigation	<ol> <li>Ministrum scal death for monitoring wells at the</li> </ol>
Industrial Cthus	nsnkinjung depthi presticable or 20 feet.
	D. GEOTECHNICAL/CONTAMINATION
DRILLING METHOD	Breicfill hore hole by remie with ections great or content
Mud Rotaty Auger	grout/sand reature. Upper two-three feet replaced in kind
Celle Other Hollow-stem	or with compacied autimus.
this series Take	E. CATHODIC Fill liple anoth zone with contract placed by tremie
	F. WELL DESTRUCTION
DRILLER'S LICENSE NO. 705927	Send in map of work site. A separate permit is required
Differen a mennem.	A for wally deeper than 45 feet.
	DE TOBERAL CONDITIONS -MI HE Z
WELL PROJECTS	F Wet at
Drill Hole Diameter B in Maximum. Casing Dutineter 2 in Booth 22 A. Surface Seal Depth 6-7 fi Owner's Well Number STMW-2	NOTE: One application must be subnutted for each well or well
Casing Duniciar 4 in. Dopth 22 h. Comman 2	destruction. Multiple berings on one application are acceptable for geotechnical and contamication investigations
Surface Seal Depth 6-7_f: Owner's Well Number STMW-2.	to ktoicebulet) sup containing in an Baranta
GEOTECHNICAL/CONTAMINATION PROJECTS	
Namber of Bennes Mazimum	
How Dramewer	1
STARTING DATE 4/22/05 4.2605 COMPLETION DATE 4/26/05 14-28-05	1-2505
COMPLETION TO TE 4/26/05 4-25-05	APPROVED ALMAN DATE 4 5 5
	71711
" hereby agree to order to school with all requirements of this other and America County Order	
PLEASE PRINT NAME PRANK Hameds	
PLEASE PRINT NUMBER FTAIL Hameds	31-04
	$\bigcirc$



WATER RESOURCES SECTION 399 ELMHURST ST. NAYWARD CA. 94544-7395 PHONE (SUI) 670-6633 James Yea FAX (510) 782-1939 APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS DESTRUCTION OF WELLS OVER 45 FILET REQUIRES A SEPARATE PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
	605-0473
OCATION OF PROJECT 5630 San Pablo Avenue Oakland, CA 94604	WEILT NUMBER
and a second	APN
	PERMIT CONDITIONS Circled Permit Requirements Apply
JENT Mr. Ed Hemmet	
	GRINEBAL 1. A permit application should be sobmated to as to
drow 3840 San Pablo Phone 510-428-3950	arrive at the ACPWA office five days prior to
y_ <u>Etteryville</u> 3r_ <u>94608</u>	Chropped starting data
PLICANT	2. Bebmit to ACPWA within 60 days after sompletion to
re Envire Soil Tech Consultants Fer 408-292-2116	permitted original Department of Water Resources-
Fax 408-292-2116	Well Completion Report.
4Mcs 1 31 1111 V ROAD Photo 400-297-1500	3. Permit is void if project not begun within 90 days of approval date
San_Jose 7ip _95111	B. WATER SUPPLY WELLS
	1. Minimum surface scal shickness is swo inches of
TE OF PROJECT	eement grout placed by tremie
Veli Centrolistian Geolechnical Investuration	2. Minimum seal depth is 50 feet for municipal and
Catividie Protection General	Industrial wells or 20 feet for domenic and irrigation
Water Supply Contactuation	wells unless a lesser depth is specially approved.
Inning Welf Despusion	COGROUNDWATER MONITORING WELLS
	INCLUDING PIEZOMETERS
OPOSED WATER SUPPLY WELL USE	compatignet, placed by tremie.
Now Domestie Replacement Domestic	2. Minimum seul place of neuronny wells in the
Municipal Intigation Industrial Other	maximum don'th practicable or 20 fect.
indesertal contast	D. GEOTECHNICALJCONTAMINATION
ALLING METHOD	Backfill bore hale by stemic with comeny grace or coment
Med Reserv Arr Aven	group/agnd mixture. Upper two-three feet replaced in kind
Cable One Hollow-stem	or with compacted cuttings.
	E. CATRODIC
ILLER'S NAME VITODEX, Inc.	Fill hole under zone with concrete placed by memory F. WELL DESTRUCTION
ILLER'T LICENSE NO 705927	Send a map of work site. A separate permit is regulted
	for vielis deeper than 15 foct.
	1: BOSCHEL CONDITIONS -ALLET
ELL PROJECTS	piwer-
Drill Hale Diamote B in Maximum	NOTE: One application must be summined for each well or well destruction. Multiple barings on one application are acceptable
Casing Diameterin Deput 22_0 Surface Sent Deput 6-7_9 Cranes's Well Number STMW-3_	tor geotechnical and contamination involtigations
Surface Schi Depth P	tot Besterning at an entralisities in a substance.
EOTECHNICALICONT AMINATION PROJECTS	
How Diameter in Darth	
K172/05 11.2-6055	5 2 2-
ARTING DATE TIEGTUS	11.12 11-12.0
Number of Benness         Maritaum           How Diameter         In         Darth           ARTING DATE         4/22/05         4/26/05           MPLETION DATE         4/26/05         14-28-05	Kint 11 4 55
Instruction of the second	APPROVED DATE DATE
	71711
creby opene to worked + with all requirements of this potentiand Automotic Courts Ord	dinanco Nn "3-bri.
PLICONT'S SIGN STURE SALLA MAL	
PLICANT'S SIGN TURE AND AND AND AND INATE OF	
PLICANT'S SIGN TURE AND PATE A	5.11.04
EASE PRINT NAME Frank Hamedi	
	$\sim$ $\sim$



#### ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION 309 ELMHURST ST. HAYWARD CA. 94544-1395 PHONE (510) 570-6533 James Yon FAX (510) 782-1939 WWW.BEFEWED.OFF APPLICANTS: PLRASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS DESTRUCTION OF WELLS OVER 45 YEET REQUIRES A SEPARATE PERMIT APPLICATION

#### DRILLING PERMIT APPLICATION

		FOR OFFICE USE
	APPLICANT TO COMPLETE	61K- (247)4
LOCATION OF PROJECT	5630 San Pablo Avenue	PERMIT NUMBER 1005 0117
Qakla	and, CA 94604	WILL NUMBER
		APN
		PERMIT CONDITIONS
CUENT		Claded Pernat Requiremente Apply
Name Mr. BCI	Hemmet	(A) GENERAL
Address 3840 San	Pablo510-428-3950	<ol> <li>A permit application should be submitted to as to aprive at the ACPWA office five days prior to proposed marring date.</li> </ol>
APPLICANT		Submit to ACPWA within 50 days after completion of
Name EDVITO SO:	1 Tech Consultants	Lermined original Department of White Resputces-
	1] Tech_Consultants Far_408-292-2116	Well Completion Report.
Address 131 Tully	Road Press 408-297-1500	<ol> <li>Permit is vaid if project not began within \$11 days of</li> </ol>
Cin_San_Jose_	Zit 95111	areb tavorqua
		B. WATER SUPPLY WELLS 1. Minimum surface sent thickness is two metres of
SYPE OF PROJECT		coment growt placed by tremic.
well Construction	Georgehoutal Investigation	2. Minimum seal dopth is 50 feet for municipal and
Cathadic Protection	Genera!	industrial wells or 20 feet for demostic and irrigation
Warer Supply	Contermination	wells unless a lesser depth in specially approved.
Monisonne	Wall Destruction	C. GROUNDWATER MONITORING WELLS
		INCLUDING PIEZOMETERS
PROPOSED WATER SUI		<ol> <li>Minimum surface scal thickness is two inches of</li> </ol>
New Domestic Municipal	Replacement Doniesta.	coment grout placed by tremle. 2. Menimum and depth for monitoring wells is the
Industrial	Other	maximum centh practicable or 20 feet.
10-34-41-10-1	states	P. GEOTECHNICAL/CONTAMINATION
ORILLING METHOD		Book fill bore hale by tremie with cement group or coment
Mud Rotary	Air Rotary Adapt	grout/sand mixture. Upper two-three feet replaced in kind
Colice	Other Nollow-stein	or with compacted suttings.
ANITA PROF AVAIL	Vironex, Inc	E. CATHODIC Fill hole anode zope with emjergic placed by earny.
DRILLER'S NAME	VILOIEX, DRO.	F. WELL DESTRUCTION
DRILLER'S LICENSE NO	705927	Send a map of work site. A opparate permit is required
	the second s	for walls deeper than 45 feet
		C. PORCIAL CONDITIONS _MWAT
WELL PROJECT		
Drift Hole Diameter	0 r. Meximum	NOTE: One application must be automited for each well or well destruction. Mahlula bornes on one application are recognible
Casing Drameter	T Depti 22 il. Owner s Well Number STMW-4	for recordinical and continuation investigations
annace and erein o	There are a set and the set of th	101 Protects used bald entities on the entities of
GEOTECHNICAL CONT	AMINATION PROJECTS	
Number of Benng'	Maximum	
Hole Dummer		and the second se
TATING DATE	4/22/05 4-2605	1. 7
	4/26/05 4/-28-05	MAN LACAC
OMPLETION DATE	1120103 -1 -0 -3	KIMOTA 47505
		APPROVED DATE
Service and the control in the	all mayage on a of this parents and Alamada County Ord-	Lunner No 75-61
artes, ches a read & wh	1 111 - 1	
PPLICANT'S SIGNATUS	DATE A DATE A	-08-05
LEASE PRINT NONE	FACILIN TREMECH. her	



#### ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION 199 ELMHURST ST. HAVWARD CA. 94544-1395 PHONE (510) 670-6633 James Yee FAX (510) 782-1939

FAX (\$10) 782-1939 APPLICANTS: PLBASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

#### DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT 5630 San Pablo Avenue	WELL NUMBER 1403-0415
Oakland, C3 94604	APN
····	
	Curclet Permit Requirement Apply
CLIENT Mr. Ed Hennet	· O commu
	GENERAL     I. A permit application should be submitted up as to
Addimss 3840 San Pablo Phone 510-428-3950	arrive at the ACFWA office five days prior to
or Emeryville 20 94508	proposed starting date
-	Doubrest to ACPWA within 60 days after completion of
APPLICANT Port Concultants	dermitted ariginal Department of Water Resources-
Name_BOVINO Soil Tech Consultants	Well Campletion Report.
Address 131 Tully Road Phone 408-297-1500	3. Permit is word if project not begun within 90 days of
City San Tose Sir 95111	ADDAOAU GAIC
City San Jose Tir 95111	B WATER SUPPLY WELLS
	1. Minimum surface scal thickness is two incites of
TYPE OF PROJECT	coment grout placed by rremic
Well Construction: Generation	<ol> <li>Minimum and depth is 50 feet for municipal and .</li> </ol>
Cathedia Protection: General	Industrial walls or 20 feet for domestic and irrigation
Water Supply Contempation	welts unless a losser depth is specially opproved.
Manuering Well Destruction	COROUNDWATER MONITORING WELLS
and an and a second s	INCLUDING PIEZOMETERS
PROPOSED WATER SUPPLY WELL USE	1 Minimum aurface scal thackness is two inches of
New Domestic Replacement Comestic	coment group placed by tremis.
Municipal Impauen	2. Minimum seal depth for monitoring weils in the
Industrial Cthur	maximum depth prasticable or 20 fast.
	D. GEOTECHNICAL/CONTAMINATION Backfill bare hole by trends with extremt group or coment
DRILLING METHOD:	provising mixture. Upper two-three feet replaced in kind
Mud Rotary Air Rotary Augus	er widi compatied cuttings.
Cable Cable Hollow-stem	F. CATHODIC
DRILLER'S NAME Vironex, Inc.	Fill hole anode zone with concrete placed by menue
DRILLER'S NAME	F WELL DESTRUCTION
OPILLER'S LICENSE NO. 705927	Send a map of work site A separate pompit is required
DYILLER STACENSE WY	for wells denner than 45 fait.
e <sup>r berne</sup>	( SPECIAL CONDITIONS - MWATZ
WELL PROJECTS	
Drift Hole Diamere & in Maximum	NOTE: One application must be submitted for each well or well
Casina Diameter 4 m Depin 22 F.	destruction. Multiple borings on one application are acceptable
Surface Seni Depth , 1-1 1 Owned's Wall Number STMW-5	for gentechnical and contamination investigations.
GEOTECHNICAL/CONTAMINATION PROJECTS	
Verticer of Bonnas Maximum	
No'n Diameter in Depth	1 5
	Anon 415-25
STARTING DATE 4/22/05 4-46-05	145
COMPLETION DATE 4/26/05 4-28-05	Anna. 7
COMPLETION DATE 37 207 PD	APPROVED DATE
I nareny agree to Contribute and a Prequipphonts of this parent on " Alphnetic County De	landinge No. 13-65
APPLICANT'S SUGALTURE DATE DATE	08:05 / 1/ 1
( Frank Vamadi	
PLEASE PRINT NAME Frank Hamedi Fer	.5-(1-0a · (

File No. 12-04-770-GI

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

### WELL COMPLETION REPORTS

**ENVIRO SOIL TECH CONSULTANTS** 

### STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

### STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

### STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

### STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

### STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

File No. 12-04-770-GI

### APPENDIX "I"

#### **FIELD NOTES**

**ENVIRO SOIL TECH CONSULTANTS** 

	ENVIRO SOIL 7	ECH CONS & Geotechnical Cons		
	131 TULLY ROAD, SA Tel: (408) 297-1500	AN JOSE, CALIF	ORNIA 95111	
DATE: 5-1		SAM	LL NO.: <u>STM</u> APLER: Ruhu M ELL VOLUME:	12)-1 marly
DEPTH TO WELL: DEPTH TO WATE			ELL VOLUME:	11
			FUAL PURGED VOL	UME. 9
HEIGHT OF WATI	ER COLUMN:	AC	I UAL FORGED VOL	UME:
CASING DIAMETH	ER:	2''	4"	
CALCULATIONS:				
2" - x 0.1632	13.32			
4'' - 0.653				•
PURGE METHOD: SAMPLE METHOI	,	UDISPLACEM	AENT PUMP	OTHER
SHEEN:	NO Y	ES, DESCRIBE:		
ODOR:	7	ES, DESCRIBE:		
0001.	1			
	FIELD M	IEASUREMENT	s	
TIME	VOLUME	pH	TEMP.	<u>E.C.</u>
	3990	7,20	17.3	589
	GOBL	6.68	17.0	607
	9940	7.22	16.9 -	- 715
	- start		[4]	

high

7<sup>ft</sup> .70

F	Environmen 131 TULLY ROAL	L TECH CONS ntal & Geotechnical Cons D, SAN JOSE, CALIF 500 Fax: (4	sultants ORNIA 95111	
FILE NO.: <u>1</u> <u>1</u>	R: 7 FT ,32	· SAN 1 W 5 W	LL NO.: <u>STMU</u> MPLER: <u>July</u> ELL VOLUME: <u>2</u> ELL VOLUME: <u>6</u> FUAL PURGED VOL	
CASING DIAMETH	CR:	2"	4"	
CALCULATIONS: 2" - x 0.1632 4" - 0.653 PURGE METHOD: SAMPLE METHOD	BAILER	DISPLACEN OTHER	MENT PUMP	OTHER
SHEEN:	_NO	YES, DESCRIBE:		
ODOR:	NO FIEL <u>VOLUME</u> <u>3986</u> <u>6960</u> 9960	YES, DESCRIBE: D MEASUREMENT $\frac{pH}{7,16}$ 7,18	rs <u>TEMP.</u> <u>17.9</u> <u>17.7</u> <u>17.9</u>	E.C. 388 453 498

\$ 52

1

FILE NO.: 12-C DATE: 5- DEPTH TO WELL: DEPTH TO WELL: DEPTH TO WATER HEIGHT OF WATER HEIGHT OF WATER CASING DIAMETER CALCULATIONS:	131 TULLY ROAD, STel: (408) 297-1500 $04 - 770 - 6T$ $19 - 05$ $05$ $0000000000000000000000000000000$	& Geotechnical Consu SAN JOSE, CALIFO ) Fax: (40 WEL SAM 1 WE 5 WE	ltants DRNIA 95111	<u>D-3</u> <u>nenly</u> <u>9</u> <u>5</u> UME: <u>9</u>
2" - x 0.1632	1174			
				- ·
4'' - 0.653				
PURGE METHOD: SAMPLE METHOD SHEEN:	NO	DISPLACEM OTHER YES, DESCRIBE: YES, DESCRIBE:	ENT PUMP	OTHER
	FIELD	MEASUREMENTS	1	
TIME	VOLUME	<u>рН</u>	TEMP.	<u>E.C.</u>
11.115	3 914-	7.20	17.4	421
	6914	7.20	17.2	VUZ
		7/1	121	-168
	9 940			
s <sup>et</sup> .96				

For the second s	ENVIRO SOIL Environmental 131 TULLY ROAD, S Tel: (408) 297-1500	& Geotechnical Consu CAN JOSE, CALIFO	ltants DRNIA 95111	
FILE NO.: 2- DATE: 5- DEPTH TO WELL: DEPTH TO WATE: HEIGHT OF WATE	R: 6 <sup>FT</sup> , 10	SAM 1 WE 5 WE	L NO.: <u>STMU</u> PLER: <u>Autual</u> ELL VOLUME: <u>1</u> ELL VOLUME: <u>9</u> UAL PURGED VOL	<u>U-4</u> <u>Mumly</u> <u>9</u> <u>5</u> <u>UME:</u> <u>9</u>
CASING DIAMETI	ER:/	_2"	4"	*
CALCULATIONS: 2" - x 0.1632 4" - 0.653 PURGE METHOD: SAMPLE METHOD SHEEN:	BAILER	DISPLACEM OTHER YES, DESCRIBE:	Pair Bow	OTHER
ODOR:	_NO	YES, DESCRIBE:	ishi Pethi	)
	FIELD	MEASUREMENTS	1	
<u>TIME</u>	VOLUME 3946 69176 95170	рН 7,12 7,01 7,03	<u>TEMP.</u> 17.1 16.6 16.5	<u>E.C.</u> 480 571 601

827 .60

DATE: $5 - 19 - 0.5$ DEPTH TO WELL: $1$ WELL VOLUME: $2$ DEPTH TO WATER: $6^{57}$ $58$ HEIGHT OF WATER COLUMN: $1$ WELL VOLUME: $11$ HEIGHT OF WATER COLUMN: $4^{11}$ CASING DIAMETER: $2^{11}$ $2^{11}$ CASING DIAMETER: $2^{11}$ $4^{11}$ CALCULATIONS: $2^{11} - x 0.1632$ $13.42$ $4^{11} - 0.653$ PURGE METHOD: $BAILER$ $DISPLACEMENT PUMP OTHEN SAMPLE METHOD: BAILER DISPLACEMENT PUMP OTHEN SHEEN: NO YES, DESCRIBE: 4^{12} 13.42$		NVIRO SOIL 7 Environmental & 131 TULLY ROAD, SA Tel: (408) 297-1500	& Geotechnical Consu AN JOSE, CALIFO	ltants DRNIA 95111	
CASING DIAMETER	DEPTH TO WELL:_ DEPTH TO WATER	:_ 6 <sup>ft</sup> ,58	SAM 1 WE 5 WE	PLER: Nichel N ELL VOLUME: 2 ELL VOLUME:	5 nul/ 2 11 JME: 9
$2'' - x \ 0.1632 $ $4'' - 0.653 $ $PURGE METHOD: BAILER DISPLACEMENT PUMP OTHER SAMPLE METHOD: BAILER OTHER SHEEN: NO YES, DESCRIBE: C'S'Y'T RATE VSOU ODOR: VES, DESCRIBE: SHEEN: SHEEN: NO YES, DESCRIBE: SHEEN: SHEEN:$	CASING DIAMETE	R:	2''	4"	
SAMPLE METHOD: $\bigcirc$ BAILER OTHER SHEEN: NO YES, DESCRIBE: $\bigcirc$					
odor:VOYES, DESCRIBE:FIELD MEASUREMENTSTIMEVOLUMEPHTEMP.E.C. $398^{\circ}$ $697$ $17.5$ $671$ $6980$ $700$ $17.6$ $710$	2" - x 0.1632	13.42			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2" - x 0.1632 4" - 0.653 PURGE METHOD:	BAILER		ENT PUMP _	OTHER
3980 6,97 17.5 671 69AU 7100 17.6 710	2" - x 0.1632 4" - 0.653 PURGE METHOD: SAMPLE METHOD SHEEN:	BAILER BAILER NOY	OTHER		
69AU 7100 17.6 710	2" - x 0.1632 4" - 0.653 PURGE METHOD: SAMPLE METHOD SHEEN:	BAILERBAILER BAILER NOY NOY	OTHER TES, DESCRIBE:( TES, DESCRIBE:	Lisht RAINV	
670- 110 116	2" - x 0.1632 4" - 0.653 PURGE METHOD: SAMPLE METHOD SHEEN:	BAILERBAILER BAILER NOY NOY FIELD M	OTHER TES, DESCRIBE:( TES, DESCRIBE: TEASUREMENTS	Lisht RAINV	304
991AU 7.63 17.8 733	2" - x 0.1632 4" - 0.653 PURGE METHOD: SAMPLE METHOD: SHEEN:	BAILERBAILERBAILERY NOY NOY FIELD M	OTHER TES, DESCRIBE:( TES, DESCRIBE: TEASUREMENTS	TEMP.	<u>ξοų</u>
	2" - x 0.1632 4" - 0.653 PURGE METHOD: SAMPLE METHOD: SHEEN:	BAILER BAILER NO NO VOLUME 3984	OTHER TES, DESCRIBE:( TES, DESCRIBE: TEASUREMENTS <u>pH</u> (197	TEMP.	304) <u>E.C.</u> 671
	2" - x 0.1632 4" - 0.653 PURGE METHOD: SAMPLE METHOD SHEEN:	$\underline{\qquad BAILER \qquad }$ $\underline{\qquad BAILER \qquad }$ $\underline{\qquad BAILER \qquad }$ $\underline{\qquad MO \qquad }$ $\underline{\qquad Y \qquad }$ $\underline{\qquad NO \qquad }$ $\underline{\qquad Y \qquad }$ $\underline{\qquad FIELD \qquad }$ $\underline{\qquad Y \qquad }$ $\underline{\qquad Y \qquad }$ $\underline{\qquad FIELD \qquad }$ $\underline{\qquad Y \qquad }$ $\qquad$	OTHER ES, DESCRIBE: TES, DESCRIBE: TEASUREMENTS pH (6, 97) 7100	<u>TEMP.</u> 17.6	304) <u>E.C.</u> 671