

**UST CLOSURE REPORT & PRELIMINARY
GROUNDWATER REMEDIAL INVESTIGATION REPORT**

**NORTH BRUNSWICK GULF
1696 GEORGES ROAD
NORTH BRUNSWICK, NEW JERSEY**

NJDEP CASE #: 01-08-30-1546-07

Closure Activity #: UCL 010001 ; NOI-0818

UST# 0101800

February 14, 2002

Prepared For:

**New Jersey Department of Environmental Protection
Bureau of Underground Storage Tanks
401 East State Street
Trenton, NJ 08625
Attention: Mr. Kevin Katrina, Bureau Chief**

Prepared By:

**Environmental Maintenance Co., Inc.
1420 E. Mermaid Lane
Glenside, PA 19038**

Environmental Maintenance Company, Inc. NJ Closure and Subsurface Cert. # US01154
Charles Q. McGuth NJ Closure and Subsurface Cert. # 0020973

UST-N13, 12/97

FOR NJDEP USE ONLY

RECEIVED DATE 12-7-01

NOTIFICATION # 7701-0818

NJDEP APPROVAL: [Signature]

STATE OF NEW JERSEY
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF FIELD OPERATIONS
 401 EAST STATE STREET
 P.O. Box 435
 TRENTON, NEW JERSEY 08625-0435

**30 DAY NOTICE OF INTENT TO CLOSE AN UNDERGROUND STORAGE
 TANK SYSTEM**

Submission of this notification satisfies the requirements of N.J.A.C. 7:14B-9.2. An Underground Storage Tank Facility Questionnaire must be completed and submitted to the Department upon completion of the closure activities.

Do not use this form to notify the Department of a request for a variance from the Technical Requirements of Site Remediation, N.J.A.C. 7:26E. Instead, use a Closure Plan Approval Application, UST-013, 02/95.

- Please type or print legibly in ink. Call 609/633-0708 for help in completing this notification.
- Please sign and return one original of this form to the address above.
- The UST system must be registered. If the UST system is not registered this form will not be processed.

Facility Registration # 0101800 Date Underground Storage Tank(s) and/or piping will be removed Unknown

A. FACILITY NAME North Brunswick Gulf, Inc.
 FACILITY STREET ADDRESS 1696 Georges Road
 MUNICIPALITY Township of North Brunswick County Middlesex
 TELEPHONE NUMBER (732) 297-1000

B. OWNER'S NAME North Brunswick Gulf, Inc.
 STREET ADDRESS 1696 Georges Road CITY North Brunswick
 STATE NJ ZIP 08902 TELEPHONE NUMBER 732-297-1000

C. OPERATOR'S NAME Walter E. Lapp
 STREET ADDRESS 1696 Georges Road CITY North Brunswick
 STATE NJ ZIP 08902 TELEPHONE NUMBER 732-297-1000

UST-N13, 12/97

D. Indicate below name and certification number of the firm performing the UST service:

1. FOR UST CLOSURE (PHYSICAL REMOVAL OR ABANDONMENT) ACTIVITIES.

Name of Certified Firm Environmental Maintenance Company, Inc. CERTIFICATION# US 01154

2. FOR SUBSURFACE (SITE INVESTIGATION, CORRECTIVE ACTION ETC.) ACTIVITIES.

Name of Certified Firm Environmental Maintenance Company, Inc. CERTIFICATION # US 01154

E. Check Proposed Activity

1. Closure of Underground Storage Tank System

Complete the following information concerning UST system to be removed or abandoned-in-place. Check here and attach additional page(s) if needed. ___ If piping only please enter NA in Number of Tanks field and Tank Capacity field.

Number of Tanks	length of appurtenant piping (ft)	Tank Capacity (gallons)	SUBSTANCE Stored*	Closure Type (circle one)
<u>4</u>	<u>100</u>	<u>6,000</u>	<u>Gasoline</u>	<u>REMOVAL</u> / ABANDONMENT
_____	_____	_____	_____	REMOVAL / ABANDONMENT
_____	_____	_____	_____	REMOVAL / ABANDONMENT
_____	_____	_____	_____	REMOVAL / ABANDONMENT
_____	_____	_____	_____	REMOVAL / ABANDONMENT
_____	_____	_____	_____	REMOVAL / ABANDONMENT

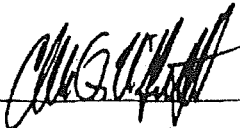
* If material is not a petroleum product, use chemical name and CAS number to identify tank's content. (Brand or trade names are unacceptable.)

2. Change in Service from a Regulated to a Nonregulated Substance

The owner or operator must submit to the Department (1) documentation that the owner/operator of the underground storage tank (UST) system has emptied and cleaned the UST system by removing all liquid and accumulated sludge prior to the change in storage in accordance with N.J.A.C. 7:14B-9.4(a) and (2) the results of a site investigation or a remedial investigation conducted in accordance with N.J.A.C. 7:14B-9.4(a) or 7:14B-9.4(b), whichever is appropriate. Additionally, the owner/operator must submit a Facility Questionnaire indicating the change to the Bureau of State Case Management, Registration & Billing Section.

UST-N13, 12/97

This Notification has been submitted by:

NAME (print or type) Charles Q. McGuith SIGNATURE 

TITLE Project Manager DATE 11/28/01

Company Environmental Maintenance Phone Number _____

Address 1420 E. Mermaid Lane

City Glenside State PA ZIP 19038

FOR NJDEP USE ONLY

RECEIVED DATE

~~12/1/01~~ 12/7/01

NOTIFICATION #

~~12/01~~ ~~01/01~~ NO1-0918

NJDEP APPROVAL:

[Signature]

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF FIELD OPERATIONS
401 EAST STATE STREET
P.O. Box 435
TRENTON, NEW JERSEY 08625-0435

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Facility Registration # 0101800

Date Underground Storage Tank(s)
and/or piping will be removed Unknown

A. FACILITY NAME North Brunswick Gulf, Inc.

FACILITY STREET ADDRESS 1696 Georges Road

MUNICIPALITY Township of North Brunswick County Middlesex

TELEPHONE NUMBER (732) 297-1000

B. OWNER'S NAME North Brunswick Gulf, Inc.

STREET ADDRESS 1696 Georges Road CITY North Brunswick

STATE NJ ZIP 08902 TELEPHONE NUMBER 732-297-1000

C. OPERATOR'S NAME Walter E. Lapp

STREET ADDRESS 1696 Georges Road CITY North Brunswick

STATE NJ ZIP 08902 TELEPHONE NUMBER 732-297-1000

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1. FOR UST CLOSURE (PHYSICAL REMOVAL OR ABANDONMENT) ACTIVITIES.

Name of Certified Firm Environmental Maintenance Company, Inc. CERTIFICATION# US 01154

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Name of Certified Firm Environmental Maintenance Company, Inc. CERTIFICATION # US 01154

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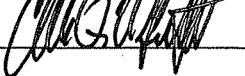
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_____	_____	_____	_____	REMOVAL / ABANDONMENT
_____	_____	_____	_____	REMOVAL / ABANDONMENT
_____	_____	_____	_____	REMOVAL / ABANDONMENT
_____	_____	_____	_____	REMOVAL / ABANDONMENT
_____	_____	_____	_____	REMOVAL / ABANDONMENT

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___ 2. Change in Service from a Regulated to a Nonregulated Substance

The owner or operator must submit to the Department (1) documentation that the owner/operator of the underground storage tank (UST) system has emptied and cleaned the UST system by removing all liquid and accumulated sludge prior to the change in storage in accordance with N.J.A.C. 7:14B-9.4(a) and (2) the results of a site investigation or a remedial investigation conducted in accordance with N.J.A.C. 7:14B-9.4(a) or 7:14B-9.4(b), whichever is appropriate. Additionally, the owner/operator must submit a Facility Questionnaire indicating the change to the Bureau of State Case Management, Registration & Billing Section.

This Notification has been submitted by:

NAME (print or type) Charles Q. McGuth SIGNATURE 
TITLE Project Manager DATE 11/29/01
Company Environmental Maintenance Phone Number _____
Address 1420 E. Mermaid Lane
City Glenside State PA ZIP 19038

FOR NJDEP USE ONLY

RECEIVED DATE NOV 18 1998

NOTIFICATION # 098-2469

NJDEP APPROVAL: [Signature]

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF FIELD OPERATIONS
401 EAST STATE STREET
P.O. Box 435
TRENTON, NEW JERSEY 08625-0435

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Facility Registration # 0101800 Date Underground Storage Tank(s) and/or piping will be removed 12/15/98

A. FACILITY NAME NO BRUNSWICK GULF
 FACILITY STREET ADDRESS 1690 GEORGES RD RT 130
 MUNICIPALITY NO. BRUNSWICK County MIDDLESEX
 TELEPHONE NUMBER (732) 297-1000

B. OWNER'S NAME WALTER E. LAPP SR.
 STREET ADDRESS 263 EDWARDS PLACE CITY NO. BRUNSWICK
 STATE NJ ZIP 08902 TELEPHONE NUMBER (732) 297-1000

C. OPERATOR'S NAME WALTER E. LAPP SR.
 STREET ADDRESS 263 EDWARDS PLACE CITY NO. BRUNSWICK
 STATE NJ ZIP 08902 TELEPHONE NUMBER (732) 297-1000

D. Indicate below name and certification number of the firm performing the UST service:

1. FOR UST CLOSURE (PHYSICAL REMOVAL OR ABANDONMENT) ACTIVITIES.

Name of Certified Firm P+R MAINTENANCE, INC. CERTIFICATION# U500387

2. FOR SUBSURFACE (SITE INVESTIGATION) CORRECTIVE ACTION ETC.) ACTIVITIES.

Name of Certified Firm P+R MAINTENANCE, INC. CERTIFICATION # U500387

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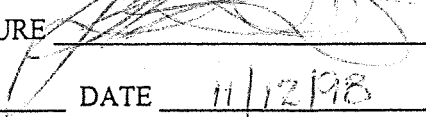
Number of Tanks	length of appurtenant piping (ft)	Tank Capacity (gallons)	SUBSTANCE Stored*	Closure Type (circle one)
<u>N/A</u>	<u>80'</u>	<u>N/A</u>	<u>GASOLINE</u>	<u>REMOVAL</u> / ABANDONMENT
<u>1</u>	<u>0</u>	<u>550</u>	<u>WASTE OIL</u>	<u>REMOVAL</u> / ABANDONMENT
				REMOVAL / ABANDONMENT
				REMOVAL / ABANDONMENT
				REMOVAL / ABANDONMENT
				REMOVAL / ABANDONMENT

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This Notification has been submitted by:

NAME (print or type) JOSEPH R. SCHOEPPER SIGNATURE 
TITLE PRESIDENT DATE 11/12/98
Company P+R MAINTENANCE, INC. Phone Number (609) 693-5262
Address 116 NORTH ROUTE 9
City FORKED RIVER State NJ ZIP 08731

GENERAL INFORMATION

Project Name: North Brunswick Gulf
NJDEP Case #: 01-08-30-1546-07
Closure Activity #: UCL 010001
Site Address: 1696 Georges Road (Route 130)
North Brunswick, NJ 08902
UST Info: One (1) 6,000-gallon fiberglass gasoline UST
One (1) 6,000-gallon fiberglass gasoline UST
One (1) 6,000-gallon fiberglass gasoline UST
One (1) 6,000-gallon fiberglass gasoline UST

Contacts: Current Property Manager:
Mr. Walter Lapp
North Brunswick Gulf
1696 Georges Road (Route 130)
North Brunswick, NJ 08902
(732) 297-1000

Project Manager:
Mr. Charles Q. McGuth
Environmental Maintenance Company, Inc.
1420 East Mermaid Lane
Glenside, PA 19038
(215) 233-5141 Fax: (215) 233-8998

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ATTACHMENTS

Attachment 1 – Figures

Figure 1 – Site Location

Figure 2 – Former UST Locations, Temporary Well Locations, and Limit of
Excavation

Figure 3 – Treatment System Schematic

Attachment 2 - Table 1: Groundwater Sampling Analytical Results

Attachment 3 – UST Disposal Manifest

Attachment 4 – Photographic Log

APPENDIX

NJDEP Reduced Deliverable Analytical Data report (1 volume) with Electronic Data
Submittal (1 disk)

1.0 INTRODUCTION

Environmental Maintenance Company, Inc. (Environmental Maintenance) has prepared this underground storage tank (UST) closure report and preliminary groundwater Remedial Investigation Report (RIR) to document the removal and closure of four (4) 6,000-gallon regulated gasoline USTs and the collection of a preliminary groundwater sample at, 1696 Georges Road, North Brunswick, New Jersey (the site) (Facility UST # 0101800).

The site is located within the North Brunswick U.S.G.S Quadrangle (**Figure 1**). One (1) building is present at the site and is used as a gasoline dispensing station and automobile repair shop. The property is serviced by municipal water and sewer utilities.

2.0 BACKGROUND

On 8/30/01 during a Phase II Investigation at the site by Environmental Compliance Monitoring, Inc. (ECM) and the drilling contractor, TerraProbe, Inc., the tank system was struck and punctured during installation of a test boring. ECM was conducting a Phase II Investigation of the site in preparation of a potential property transfer. TerraProbe's Geoprobe® unit drilled through the north end of the tank designated "Tank 1", one (1) of the four (4) in-service 6,000-gallon, fiberglass, single walled gasoline USTs. Following the puncture of the UST at approximately 2:00 PM pumping operations were shutdown after it was discovered that water was being pumped from the UST(s) into vehicles. Between 9:00 and 10:00 PM, approximately 6,100-gallons of gas and water were pumped from Tank 1 by AWT, a subcontractor for ECM. The owner of the gas station, Mr. Walter Lapp, subsequently called Gulf who sent Mystic, Inc. to remove the contents of Tank 2, the sister tank which was manifolded to Tank 1. Mystic reported removing 5150 gallons of gas (with no water) from Tank 2. The release was reported to the New Jersey Department of Environmental Protection (NJDEP) hotline on 8/30/01 and the site was assigned Case #: 01-08-30-1546-07.

On 8/31/01, to assess impact and to confirm or deny the puncturing of the UST by the Geoprobe® unit AWT excavated a test pit along the end of Tank 1. AWT excavated to a depth of approximately 10 feet below grade and exposed the side of Tank 1. The impact point (puncture hole) to the fiberglass UST was confirmed, and a hole and crack was observed in the wall of the tank. Prior to backfilling this test pit, a 4-inch diameter monitoring sump was installed within the excavation. Subsequent gauging events showed a thin layer of free floating product (gasoline) to be present on top of groundwater within the sump.

Because the four (4) USTs shared a common excavation, to properly remediate the site the removal of all four (4) USTs was deemed necessary. The UST closure process included the excavation and cleaning of the tanks and preparation of this tank closure report. In accordance with NJDEP regulations regarding storage tanks all the tanks were regulated under NJDEP guidelines (N.J.S.A. 58:10A-22p(2); N.J.A.C. 7:14B-1.4 (b)2) and all NJDEP Closure Guidelines were followed during closure activities.

This report provides the details of the tank removal activities the analytical results of the subsurface site assessment. Photographs were taken to document the critical aspects of the tank removals and site assessment activities and are provided in Appendix A, Photographic Log

3.0 TANK CLOSURE ACTIVITIES

All UST Closure activities were performed by Environmental Maintenance (NJDEP Closure and Subsurface Evaluator Certification # US01154). All subsurface assessment and sampling was performed by Mr. Charlie McGuth, PG (NJDEP Closure and Subsurface Evaluator Certification # 0020973).

On 12/26/01 through 12/27/01, tank closure activities included the cleaning and removal of four (4) 6,000-gallon fiberglass USTs. Utilizing an excavator, the top of each tank was exposed and the tanks were accessed. All material from above the tanks was stockpiled as impacted soil. The residual fluids remaining in each tank were removed with a vacuum truck and temporarily stored in a 20,000-gallon above-ground holding tank placed at the site. During tank handling activities air within the tanks was monitored using a Crowcon Triple Plus® air meter capable of monitoring lower explosive level (LEL) and oxygen levels within the tank interior. The piping attached to each tank was found to be in good condition and was drained and removed. The former tank locations are shown on **Figure 2**.

Upon removal from the excavation, each tank was inspected for cracks and open holes. The following is a summary of the condition of each tank:

- Tank 1 – breached/ruptured, one (1) open hole from Geoprobe Unit (side of tank) and large crack in tank emanating from hole/entry point.
- Tank 2 – no open holes or cracks
- Tank 3 – no open holes or cracks
- Tank 4 - no open holes or cracks

The tanks were disposed of by Folcher Associates, Inc. of Deptford, New Jersey on 12/28/01. (Attachment 3).

4.0 EXCAVATION OF IMPACTED SOIL

The remedial excavation of soils from the common excavation of the four (4) 6,000-gallon USTs was initiated on 12/28/01. A track-excavator was used to excavate impacted soil at the site. A properly calibrated PID meter was used to screen soils from the excavation. Soil impact was assessed visually (sheen liberation test) and by screening the soil with the PID as it was excavated. Impacted soils were encountered at depths from approximately 3 to 15 feet below grade. All impacted soils observed visually or shown to exhibit an elevated PID response were removed.

Currently the dimensions of the excavation created from the excavation of impacted soil are approximately 60 feet by 30 feet (at the ground surface) by 15 feet deep. The extent of the excavation is shown on **Figure 2**.

Approximately 500 tons of impacted pea gravel and soil were removed from the former UST locations. During excavation activities impacted soil was stockpiled on-site and encapsulated in plastic sheeting. This impacted material has been disposed of at Carteret Biocycle Corporation of Carteret, New Jersey.

Following the excavation of impacted soil on 2/2/02, 16 soil closure samples were collected along the sidewalls of the excavation approximately 6-inches above the static groundwater level at the site. Analytical results from these soil samples reported all compounds as below NJDEP Soil Cleanup Criteria. Because remediation activities continue at the site, the impacted soil disposal manifests and soil sample results are not included within this report.

During excavation impacted soil was encountered from depths of approximately 3 feet to 14 feet below grade. Soils at the site consisted mostly of clay, with interbedded sands and silts.

5.0 GROUNDWATER REMEDIAL ACTIVITIES

Following the removal of the USTs an iridescent sheen and thin layer of free product (gasoline) was observed on the surface of groundwater within the common UST excavation. During the excavation of impacted soil, impacted groundwater any free product was pumped from the excavation into the 20,000-gallon holding tank stored on-site. Passive recovery efforts included the placement and changing of absorbent pads on the water surface within the excavation. Groundwater was pumped from the excavation on a consistent basis. On 1/4/02 free product was no longer observed within the excavation however a sheen was noted on portions of the

groundwater surface within the excavation. Groundwater was continually pumped from the excavation during impacted soil removal activities and the sheen on the groundwater surface was observed to become significantly less visible. As of this report approximately 44,000-gallons of groundwater (including approximately 500 gallons of free product) have been pumped from the excavation. Of this 44,000-gallons, approximately 37,000-gallons have been removed from the site and disposed of by Clean Venture, Inc. of Elizabeth, New Jersey.

6.0 PRELIMINARY GROUNDWATER SAMPLE RESULTS

On 2/6/02 one (1) groundwater sample was collected from the standing groundwater within the excavation and four (4) groundwater samples were collected from temporary well points installed at the site. **Figure 2** shows the sample locations and **Table 1** summarizes the results of the sampling event. All field and laboratory work and subsequent reporting was performed as required by the New Jersey Department of Environmental Protection (NJDEP) *Technical Requirements for Site Remediation* (NJAC 7:26E) (TRSR). Groundwater samples were obtained in accordance with the TRSR, and the NJDEP *Field Sampling Procedures Manual*, dated May 1992. Groundwater samples were collected for analyzed for volatile organic compounds with a forward library search of the next ten tentatively identified compounds (TICs) to elute (VO+10).

Groundwater analytical results of the sample collected from the standing groundwater within the excavation (designated "USTs Excavation") reported the volatile compounds benzene, toluene, ethylbenzene, total xylenes, and methyl tertiary butyl ether (MTBE) detected above their respective NJDEP Ground Water Quality Standards (GWQS). The volatile compound tertiary butyl alcohol (TBA) was detected in the sample above the current NJDEP Interim Ground Water Quality Criteria of 100 µg/l. The compounds MTBE and TBA are both common additives present in gasoline. Total VOC TICs were reported at concentration of 11,900 µg/l which is above the GWQS of 500 µg/l.

Groundwater analytical results of the sample designated "TempWell1" reported the compounds benzene and MTBE detected above their respective NJDEP GWQS and TBA above the Interim Ground Water Quality Criteria. Samples "TempWell2" and "TempWell3" reported the compounds benzene, total xylenes, and MTBE at concentrations above NJDEP GWQS and TBA at concentrations above the Interim Ground Water Quality Criteria. Sample "TempWell4" reported all compounds as non-detect except for MTBE and TBA which were reported at concentrations above the NJDEP GWQS and Interim Ground Water Quality Criteria.

7.0 CONCLUSIONS / REQUEST FOR DISCHARGE PERMIT

A large portion of the source material (i.e. impacted soil) has been removed from the site and all visible free product has been removed from the groundwater surface at the site. However, groundwater analytical results are consistent with the conclusion that dissolved phase groundwater impact still remains at the site.

To address groundwater remediation at the site, additional impacted soil (both above and below the groundwater table) may be excavated as this material may act as a continuous source of impact to groundwater. To address dissolved phase groundwater impact, specifically impact from MTBE, and for de-watering purposes during the installation of the new tank system, it is anticipated that a groundwater pump and treat program may be initiated at the site.

In anticipation of the construction of a groundwater pump and treat system Environmental Maintenance formally requests a NJDEP Permit-By-Rule discharge to the storm sewer at the site along Washington Place approximately 200 feet east of the subject property. Groundwater at the site will be pumped from monitoring wells (not currently installed) into a treatment system. The groundwater treatment will consist of a bag filter sediment trap, and two (2) activated 200-pound carbon filters in series (primary and polishing). The carbon filters will be filled with special carbon media that can absorb greater amounts of MTBE than standard carbon. Treated groundwater will then be discharged into the storm sewer located near the site. Currently, it is unknown where storm water from the storm sewer system discharges but it is believed that storm water is routed and discharged to Farrington Lake located approximately 1,750 feet southeast of the site. A totalizer will be used to record gallons treated and flow rate. Sampling ports will be installed between carbon units and after the polishing carbon unit. A treatment system schematic is provided in **Figure 3**. All requirements for sampling of the system and reporting will follow guidelines delineated in the permit-by-rule discharge authorization.

Environmental Maintenance is aware that a NJDEP Division of Water Quality - Discharge to Surface Water Permit may be necessary to operate the treatment system described above. The need for a discharge permit will be discussed with the case manager for the site as soon as one is assigned.

8.0 REMEDIAL ACTION COSTS TO DATE

The following are the estimated costs to date associated with the UST removals and remediation activities at the site.

Project Management / Reporting	\$ 1,000.00
UST Removals	\$ 14,000.00
Remedial Action (soil excavation/disposal)	\$ 25,000.00
Groundwater Recovery and Disposal	\$ 17,600.00
<u>Soil and Groundwater Sampling</u>	<u>\$ 4,000.00</u>
Total	\$ 61,600.00

9.0 CERTIFICATION

TYPE OF DOCUMENT : UST Closure / Groundwater RIR
NJDEP CASE NUMBER : 01-08-30-1546-07
CASE NAME: North Brunswick Gulf
CASE ADDRESS: 1696 Georges Road, North Brunswick, NJ 08902

"I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

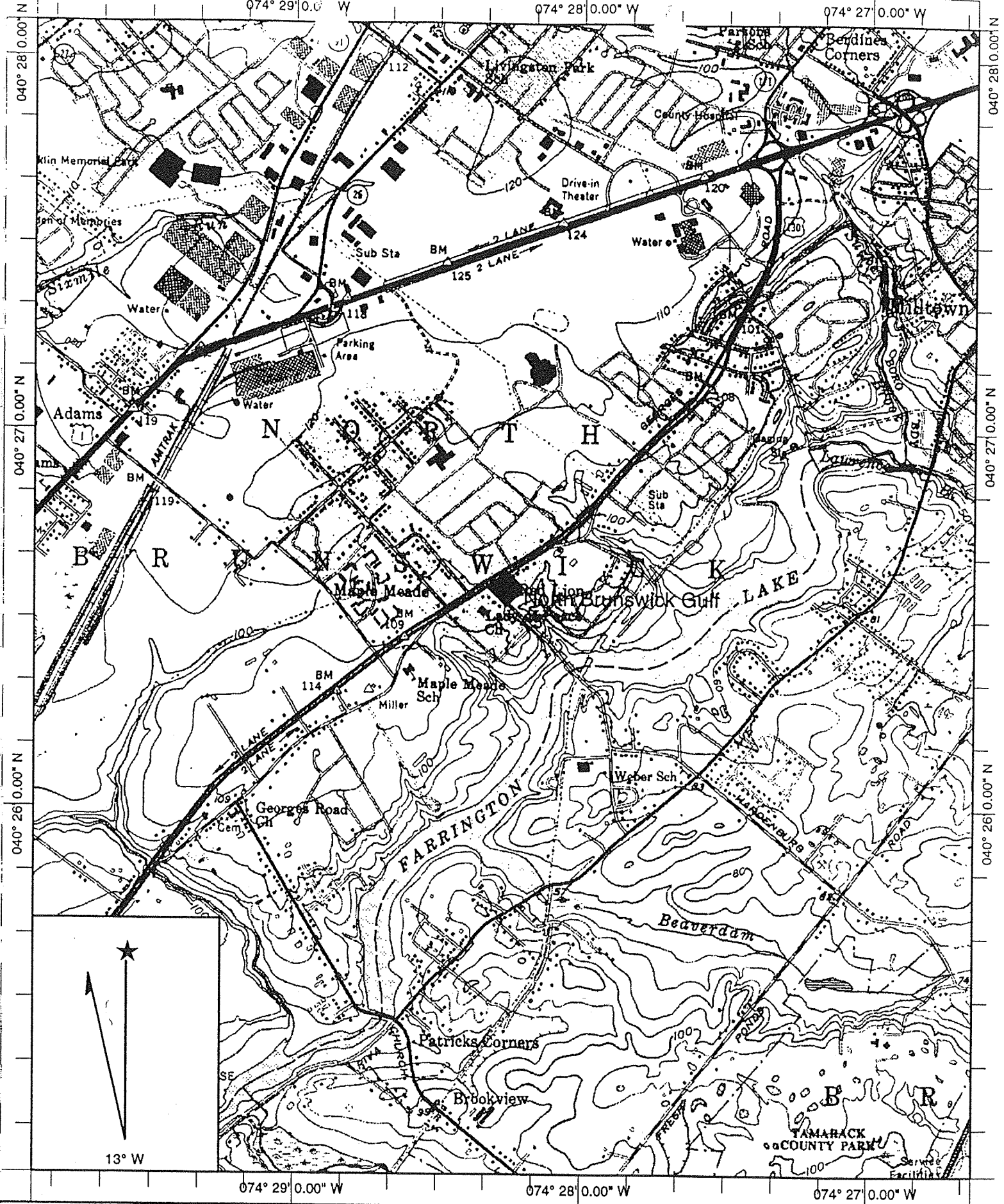
Printed Name: WALTER LAPP JR Title: PRES.
Signature: [Signature] Date: 2/28/02
Notary Signature: [Signature] Date: 2/28/02
And Seal:

LESLIE L. TOTTEN
NOTARY PUBLIC OF NEW JERSEY
My Commission Exp. May 7, 2003

UST Closure Report & Groundwater RIR
North Brunswick Gulf
1696 Georges Road
North Brunswick, NJ 08902

JDEP Case #: 01-08-30-1546-07
Closure Activity #: UCL 010001
February 14, 2002

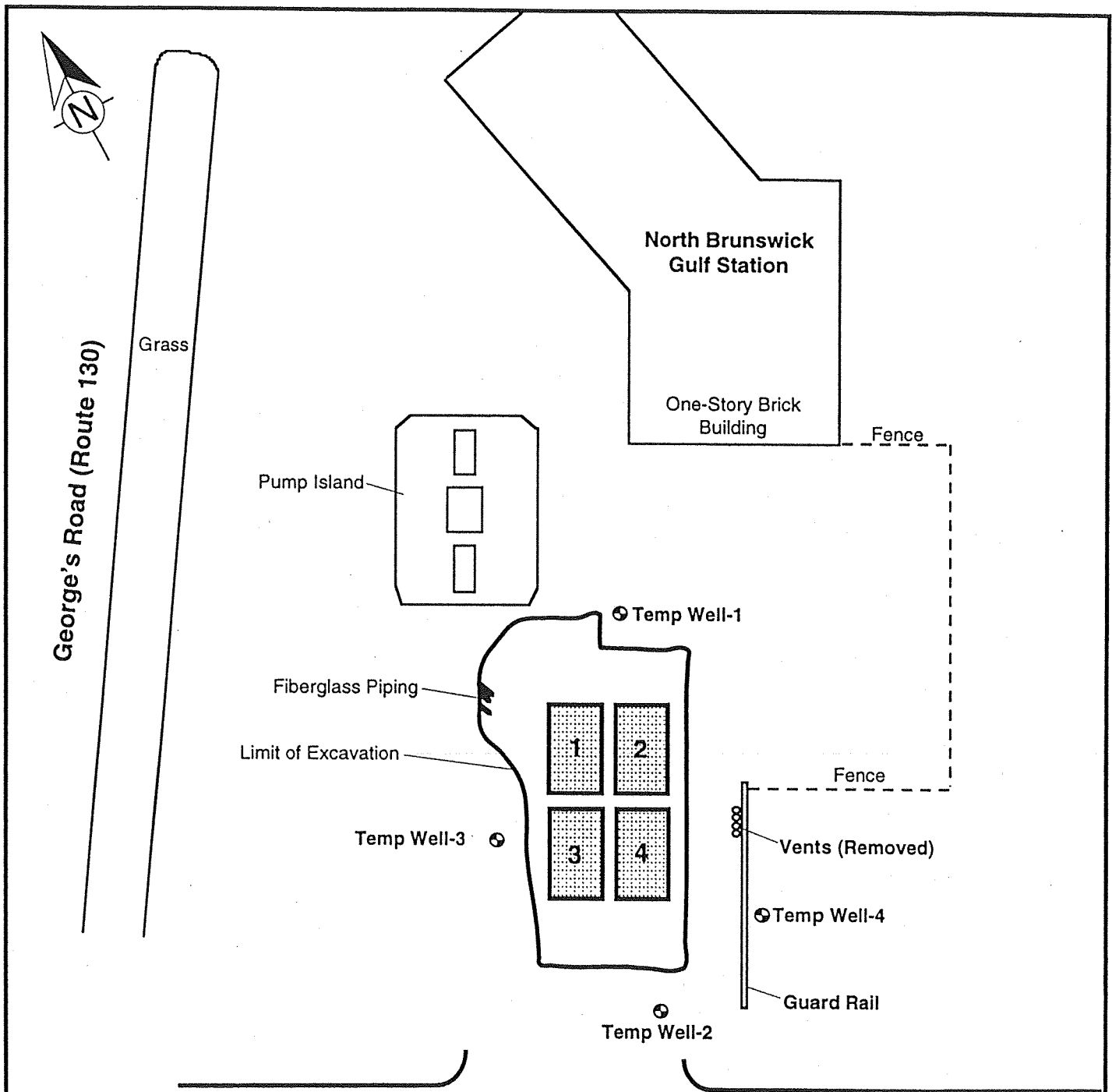
ATTACHMENT 1
Figures



Name: NEW BRUNSWICK
 Date: 2/7/2002
 Scale: 1 inch equals 2000 feet

Location: 040° 26' 34.3" N 074° 28' 16.0" W
 Caption: FIGURE 1 - SITE LOCATION
 North Brunswick Gulf
 1696 Georges Road
 North Brunswick, NJ 08902

FIGURE 2



Washington Place

Legend




-  - Former Fiberglass UST Location ("Tank 1")
-  - Temporary Well Point Location/ Groundwater Sample Location
-  - Limit of Excavation

FIGURE 2 - Former UST Locations, Temporary Well Locations, and Limit of Excavation

North Brunswick Gulf
 1696 George's Road (Route 130)
 North Brunswick, New Jersey 08902

APPROXIMATE SCALE:

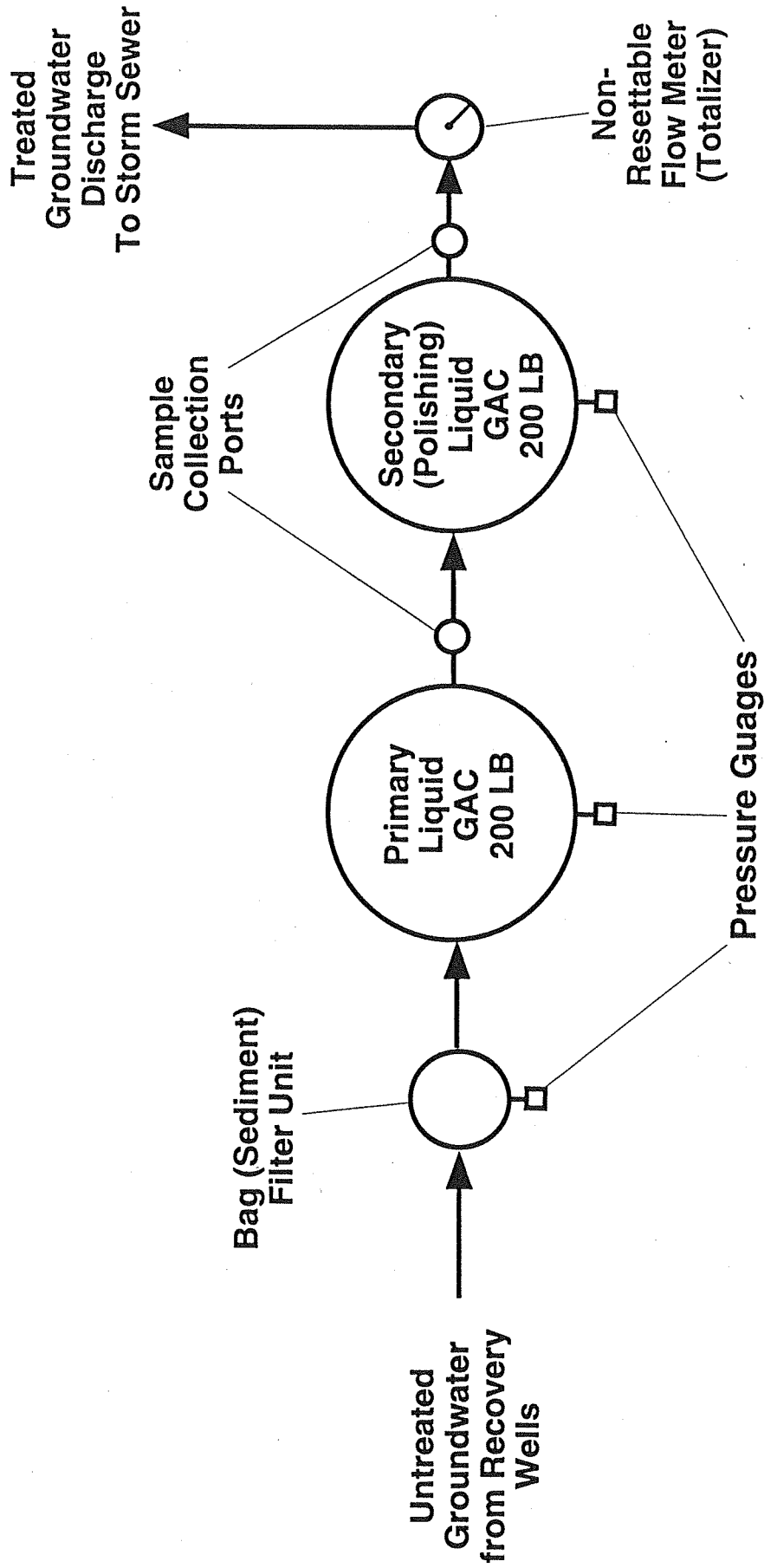


DATE:

February 2002

ENVIRONMENTAL MAINTENANCE COMPANY, INC.
 1420 E. Mermaid Lane
 Glenside, PA 19038

FIGURE 3



Legend

GAC - Granular Activated Carbon Unit

<p>FIGURE 3 Treatment System Schematic</p>	
<p>North Brunswick Gulf 1696 Georges Road North Brunswick, NJ 08902</p>	
<p>SCALE: NTS</p>	<p>DATE: February 2002</p>
<p>ENVIRONMENTAL MAINTENANCE COMPANY, INC. 1420 E. Mermaid Lane Glenside, PA 19038</p>	

UST Closure Report & Ground Water RIR
North Brunswick Gulf
1696 Georges Road
North Brunswick, NJ 08902

JDEP Case #: 01-08-30-1546-07
Closure Activity #: UCL 010001
February 14, 2002

ATTACHMENT 2
Table 1

TABLE 1
Groundwater Sampling Analytical Results - Detected Compounds
North Brunswick Gulf
1696 Georges Road
North Brunswick, NJ 08902
NJDEP Case #: 01-08-30-1546-07

Parameter	NJ Groundwater Quality Standards ¹ (GWQS) (ug/l)	Groundwater Sample Field ID, Lab ID#, Sample Date, Well Diameter				
		USTs Excavation	TempWell1	TempWell2	TempWell3	TempWell4
		331066	331069	331070	331071	331072
		2/6/02	2/6/02	2/6/02	2/6/02	2/6/02
		Excavation Sample	1-inch	1-inch	1-inch	1-inch
		Analytical Result (ug/l)	Analytical Result (ug/l)	Analytical Result (ug/l)	Analytical Result (ug/l)	Analytical Result (ug/l)
Benzene	1	1,200	120	130	14	ND
Toluene	1,000	1,900	11	130	3.1	ND
Ethylbenzene	700	1,100	6	56	42	ND
Xylenes (Total)	40	6,000	14	330	62	ND
TBA	100 ²	11,000	1,700	12,000	4,900	77,000
MTBE	70	20,000	370	11,000	480	200,000
Total VOC TICs (+10 Lib. Search)	100(each), 500(total)	11,900	144	330	725	ND
Lead	10	7.8	NA	NA	NA	NA

Notes:

1 = per NJDEP 1993 Groundwater Quality Standards for Class II A Aquifers and as revised 9/25/1998

2 = per NJDEP Interim Groundwater Quality Criteria for Class II A Aquifers

VOCs = Volatile Organic Compounds

TICs = Tentatively Identified Compounds

NA = Not Analyzed

ND = Not Detected, indicated the compound was analyzed for but not detected up to the Method Detection Limit (MDL)

Data Compiled by Environmental Maintenance Company, Inc.

UST Closure Report & Ground Water RIR
North Brunswick Gulf
1696 Georges Road
North Brunswick, NJ 08902

JDEP Case #: 01-08-30-1546-07
Closure Activity #: UCL 010001
February 14, 2002

ATTACHMENT 3
UST Disposal Manifest

P.02

FOLCHER ASSOCIATES INC.
1060 Harmony Lane, Deptford, New Jersey 08096
Phone: 856-232-8521 / Fax: 856-232-2070

CERTIFICATE OF TANK DISPOSAL

RECEIPT FOR DISPOSAL OF UNDERGROUND STORAGE TANK:

Disposal Date : _____ 12-29-01 _____

Transported By: _____ AWD SERVICES _____

Origin Site : _____ GULF STATION _____
: _____ 1696 Georges Road & Route 130 _____
: _____ North Brunswick, NJ _____

Disposal Site : _____ B.F.J. - ERC _____
: _____ 2904 S.C. Columbus Blvd. _____
: _____ Philadelphia, PA. _____

Size : _____ FOUR (4) 6000 Gallon _____

Type : _____ FIBERGLASS TANKS _____

I hereby certify that the above tank or tanks have been disposed of in a proper manner by methods approved by New Jersey D.E.P. and Pennsylvania D.E.R.

Signed : _____ [Signature] _____
Title : _____ President. _____
Date : _____ 12/28/01 _____

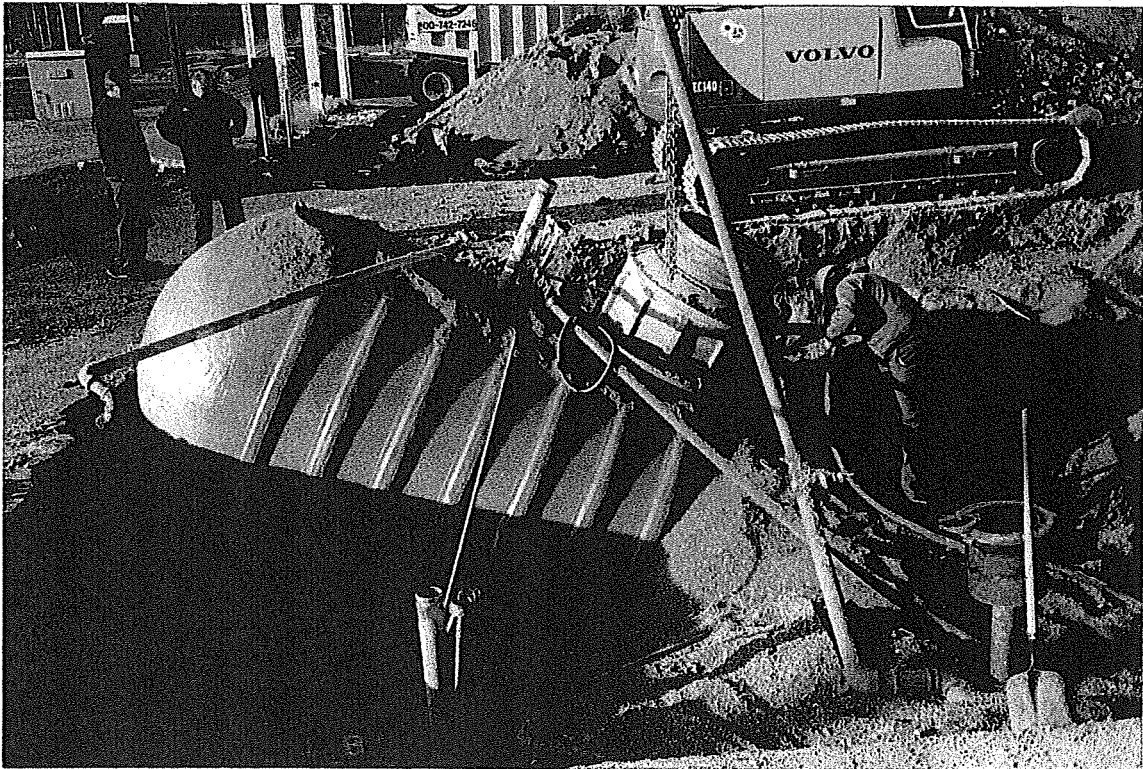
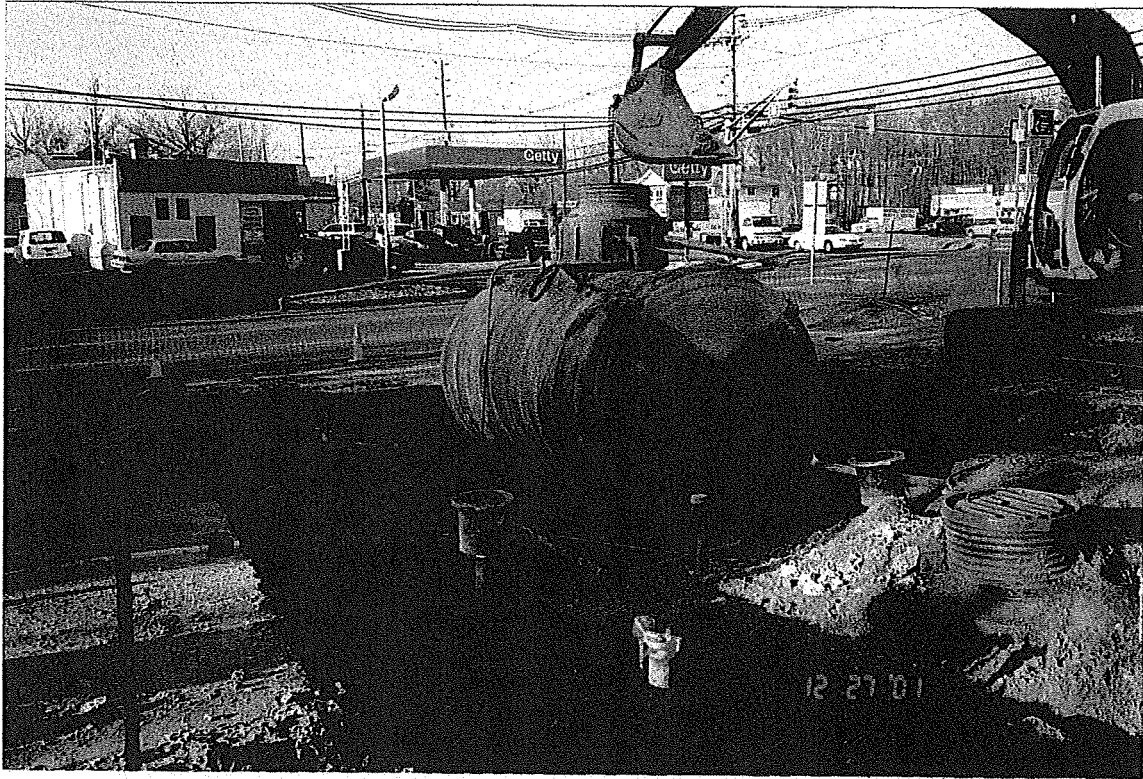
Ig:TankDisposal

UST Closure Report & Group .ter RIR
North Brunswick Gulf
1696 Georges Road
North Brunswick, NJ 08902

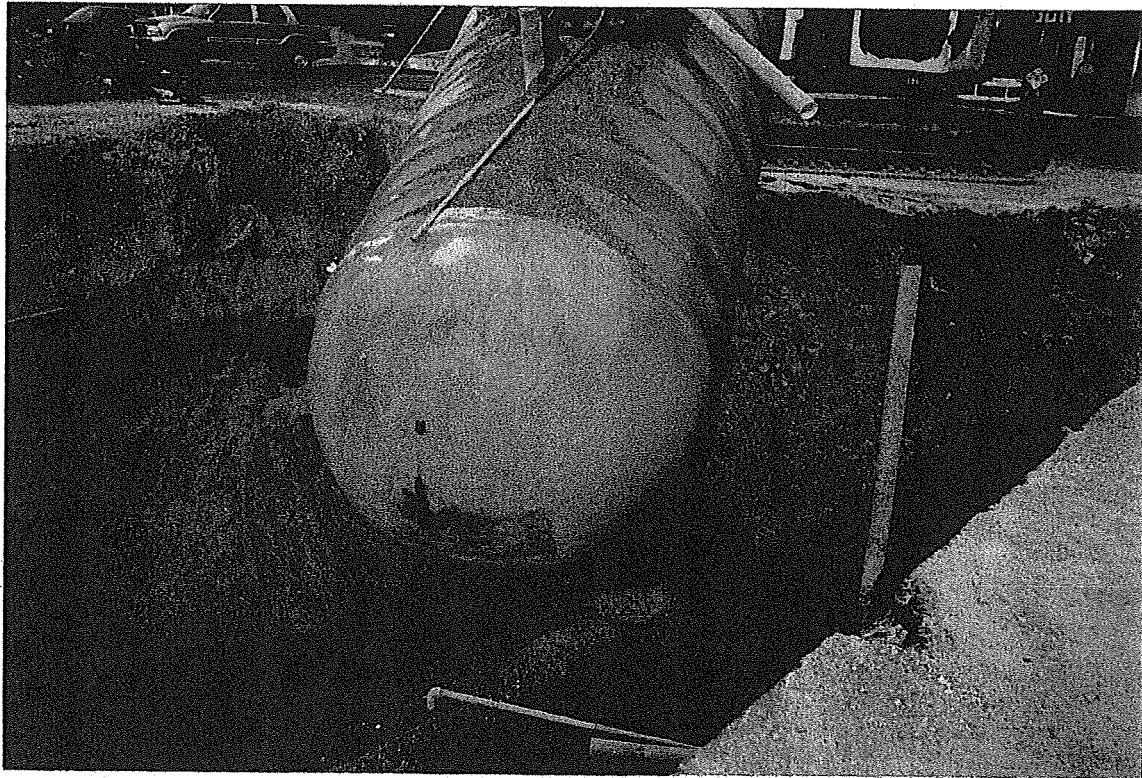
NJDEP Case #: 01-08-30-1546-07
Closure Activity #: UCL 010001
February 14, 2002

ATTACHMENT 4
Photographic Log

Views of USTs During Removal



Tank 1 and Excavation During Removal Showing Open Hole in End of UST



Tank 1 Following Removal Showing Open Hole in end of UST



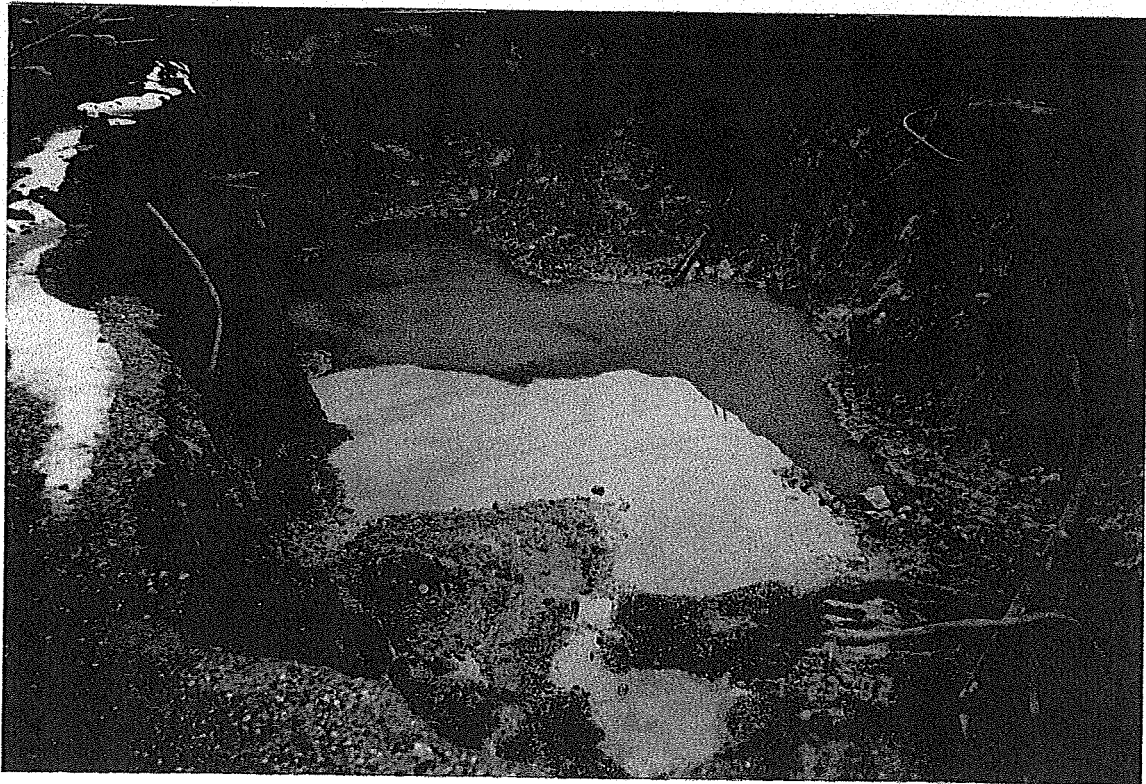
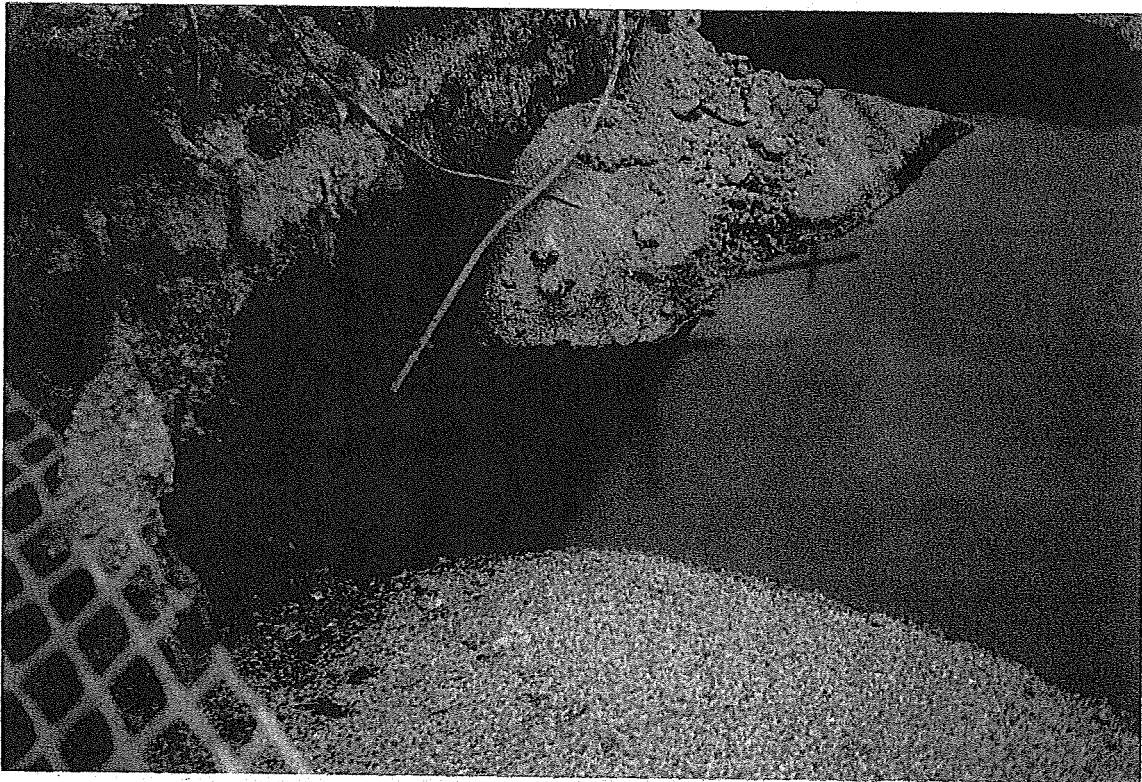
View of Four USTs Following Cleaning and Removal



Excavation Following Removal of Four USTs



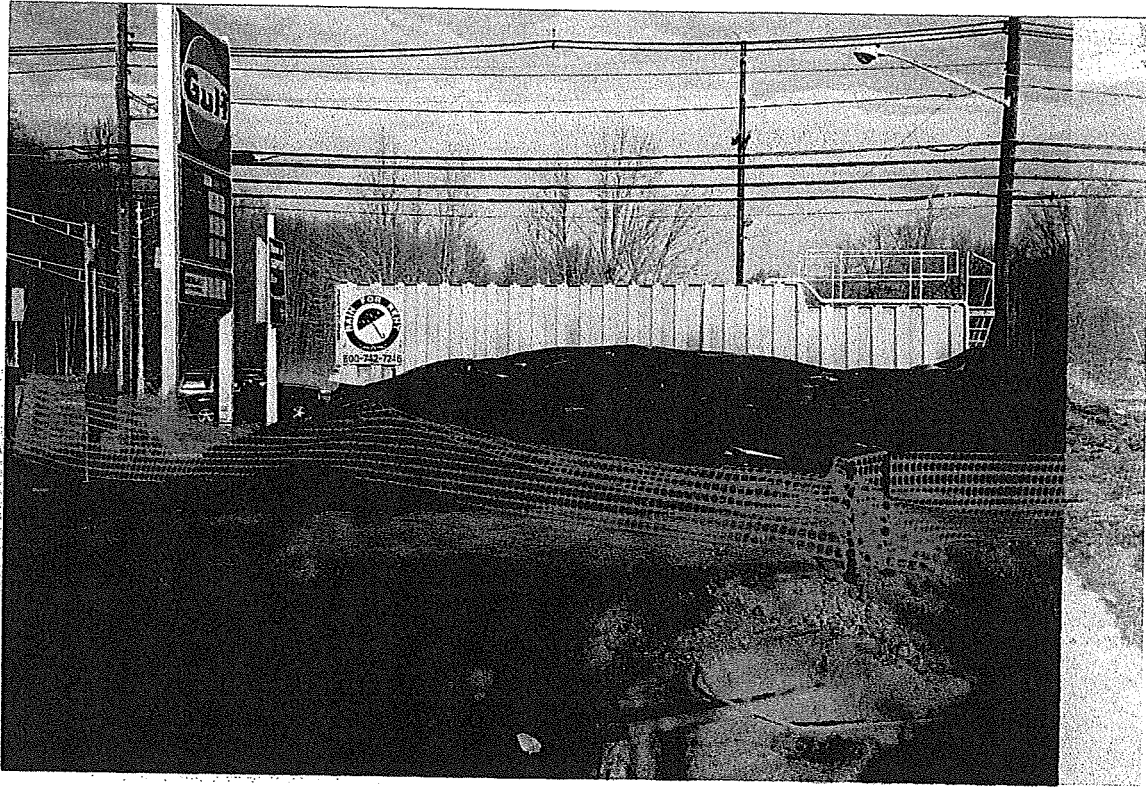
Views of Excavation During the Removal of Impacted Soil



UST Closure Report & Groundwater RIR
North Brunswick Gulf
1696 Georges Road
North Brunswick, NJ 08902

NJDEP Case #: 01-08-30-1546-07
Closure Activity #: UCL 010001
February 14, 2002
Photographic Log

View of Impacted Soil Stockpiling and Groundwater Holding Tank



02/14/2002

Environmental Maintenance Company
1420 East Mermaid Lane
Glenside, PA 19038

Attention: Mr. Charlie McGuth



STL Edison
777 New Durham Road
Edison, NJ 08817

Tel: 732-549-3900
Fax: 732-549-3679
www.stl-inc.com

Laboratory Results
Job No. T389 - NB Gulf

Dear Mr. McGuth:

Enclosed are the results you requested for the following sample(s) received at our laboratory on February 6, 2002.

<u>Lab No.</u>	<u>Client ID</u>	<u>Analysis Required</u>
331066	USTsExcavation	PP VOA+10 w/MTBE&TBA Pb
331067	TestPit4-2.5	PP VOA+10 w/MTBE&TBA
331068	TestPit4-6.5	PP VOA+10 w/MTBE&TBA
331069	TempWell1	PP VOA+10 w/MTBE&TBA
331070	TempWell2	PP VOA+10 w/MTBE&TBA
331071	TempWell3	PP VOA+10 w/MTBE&TBA
331072	TempWell4	PP VOA+10 w/MTBE&TBA
331073	TestPiT6-5	PP VOA+10 w/MTBE&TBA
331074	TestPiT6-14-15	PP VOA+10 w/MTBE&TBA





STL Edison
777 New Durham Road
Edison, NJ 08817


Tel: 732-549-3900
Fax: 732-549-3679
www.stl-inc.com

Laboratory Results
Job No. T389 - NB Gulf (cont'd)

<u>Lab No.</u>	<u>Client ID</u>	<u>Analysis Required</u>
331075	Trip_Blank	PP VOA+10 w/MTBE&TBA

If you have any questions please contact your Project Manager, Robin Dean, at (732) 549-3900.

Very Truly Yours,


Michael J. Urban
Laboratory Director

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Analytical Results Summary

Client ID: USTsExcavation
 Site: NB Gulf

Lab Sample No: 331066
 Lab Job No: T389

Date Sampled: 02/06/02
 Date Received: 02/06/02
 Date Analyzed: 02/07/02
 GC Column: DB624
 Instrument ID: VOAMS7.i
 Lab File ID: v40102.d

Matrix: WATER
 Level: LOW
 Purge Volume: 5.0 ml
 Dilution Factor: 100.0

VOLATILE ORGANICS - GC/MS
 METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	33
Bromomethane	ND	21
Vinyl Chloride	ND	23
Chloroethane	ND	28
Methylene Chloride	ND	100
Trichlorofluoromethane	ND	35
1,1-Dichloroethene	ND	24
1,1-Dichloroethane	ND	17
trans-1,2-Dichloroethene	ND	20
cis-1,2-Dichloroethene	ND	18
Chloroform	ND	19
1,2-Dichloroethane	ND	21
1,1,1-Trichloroethane	ND	26
Carbon Tetrachloride	ND	25
Bromodichloromethane	ND	16
1,2-Dichloropropane	ND	16
cis-1,3-Dichloropropene	ND	17
Trichloroethene	ND	31
Dibromochloromethane	ND	13
1,1,2-Trichloroethane	ND	20
Benzene	1200	19
trans-1,3-Dichloropropene	ND	15
2-Chloroethyl Vinyl Ether	ND	42
Bromoform	ND	18
Tetrachloroethene	ND	28
1,1,2,2-Tetrachloroethane	ND	12
Toluene	1900	18
Chlorobenzene	ND	15
Ethylbenzene	1100	19
Xylene (Total)	6000	19
TBA	11000	580
MTBE	20000	19

Client ID: USTsExcavation
Site: NB Gulf

Lab Sample No: 331066
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v40102.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 100.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. Unknown Alkene	3.07	470	
2. C6H12 Cycloalkane	6.95	320	
3. Ethylmethylbenzene isomer	13.96	1100	
4. Unknown Aromatic	14.04	650	
5. Ethylmethylbenzene isomer	14.28	300	
6. Trimethylbenzene isomer	14.44	1500	
7. Trimethylbenzene isomer	14.89	380	
8. 2,3-dihydro-1H-Indene/C10H14 Aromatic	15.11	630	
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
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30.			

TOTAL ESTIMATED CONCENTRATION

5350

Client ID: TestPit4-2.5
 Site: NB Gulf

Lab Sample No: 331067
 Lab Job No: T389

Date Sampled: 02/06/02
 Date Received: 02/06/02
 Date Analyzed: 02/07/02
 GC Column: DB624
 Instrument ID: VOAMS10.i
 Lab File ID: bb48729.d

Matrix: SOIL
 Level: HIGH
 Sample Weight: 10.2 g
 Methanol Ext. Volume: 25.0 ml
 Ext. Dilution Factor: 200.0
 % Moisture: 18

VOLATILE ORGANICS - GC/MS
 METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	3000
Bromomethane	ND	3000
Vinyl Chloride	ND	3000
Chloroethane	ND	3000
Methylene Chloride	ND	1800
Trichlorofluoromethane	ND	3000
1,1-Dichloroethene	ND	1200
1,1-Dichloroethane	ND	3000
trans-1,2-Dichloroethene	ND	3000
cis-1,2-Dichloroethene	ND	3000
Chloroform	ND	3000
1,2-Dichloroethane	ND	1200
1,1,1-Trichloroethane	ND	3000
Carbon Tetrachloride	ND	1200
Bromodichloromethane	ND	600
1,2-Dichloropropane	ND	600
cis-1,3-Dichloropropene	ND	3000
Trichloroethene	ND	600
Dibromochloromethane	ND	3000
1,1,2-Trichloroethane	ND	1800
Benzene	ND	600
trans-1,3-Dichloropropene	ND	3000
2-Chloroethyl Vinyl Ether	ND	3000
Bromoform	ND	2400
Tetrachloroethene	ND	600
1,1,2,2-Tetrachloroethane	ND	600
Toluene	4400	3000
Chlorobenzene	ND	3000
Ethylbenzene	ND	2400
Xylene (Total)	22000	3000
TBA	ND	60000
MTBE	80000	3000

Client ID: TestPit4-2.5
Site: NB Gulf

Lab Sample No: 331067
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb48729.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.2 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 200.0
% Moisture: 17.7

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. C6H14 Alkane	4.53	6300	
2. C6H12 Cycloalkane	5.79	4600	
3. C7H14 Alkene	6.58	9400	
4. C7H16 Alkane	6.69	9800	
5. Unknown Alkane/Surrogate	6.99	35000	
6. Cyclohexane, methyl-	7.85	17000	
7. C8H18 Alkane	8.25	14000	
8. C8H18 Alkane	8.40	22000	
9. C8H18 Alkane	8.61	6800	
10. Ethylmethylbenzene isomer	12.94	4700	
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

129600

Client ID: TestPit4-6.5
 Site: NB Gulf

Lab Sample No: 331068
 Lab Job No: T389

Date Sampled: 02/06/02
 Date Received: 02/06/02
 Date Analyzed: 02/07/02
 GC Column: DB624
 Instrument ID: VOAMS9.i
 Lab File ID: k23588.d

Matrix: SOIL
 Level: HIGH
 Sample Weight: 10.3 g
 Methanol Ext. Volume: 25.0 ml
 Ext. Dilution Factor: 50.0
 % Moisture: 23

VOLATILE ORGANICS - GC/MS
 METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	790
Bromomethane	ND	790
Vinyl Chloride	ND	790
Chloroethane	ND	790
Methylene Chloride	ND	470
Trichlorofluoromethane	ND	790
1,1-Dichloroethene	ND	310
1,1-Dichloroethane	ND	790
trans-1,2-Dichloroethene	ND	790
cis-1,2-Dichloroethene	ND	790
Chloroform	ND	790
1,2-Dichloroethane	ND	310
1,1,1-Trichloroethane	ND	790
Carbon Tetrachloride	ND	310
Bromodichloromethane	ND	160
1,2-Dichloropropane	ND	160
cis-1,3-Dichloropropene	ND	790
Trichloroethene	ND	160
Dibromochloromethane	ND	790
1,1,2-Trichloroethane	ND	470
Benzene	ND	160
trans-1,3-Dichloropropene	ND	790
2-Chloroethyl Vinyl Ether	ND	790
Bromoform	ND	630
Tetrachloroethene	ND	160
1,1,2,2-Tetrachloroethane	ND	160
Toluene	ND	790
Chlorobenzene	ND	790
Ethylbenzene	ND	630
Xylene (Total)	ND	790
TBA	ND	16000
MTBE	720 J	790

Client ID: TestPit4-6.5
Site: NB Gulf

Lab Sample No: 331068
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k23588.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.3 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 22.8

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
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29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: TempWell11
Site: NB Gulf

Lab Sample No: 331069
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v40103.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 5.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	1.6
Bromomethane	ND	1.0
Vinyl Chloride	ND	1.2
Chloroethane	ND	1.4
Methylene Chloride	ND	5.1
Trichlorofluoromethane	ND	1.8
1,1-Dichloroethene	ND	1.2
1,1-Dichloroethane	ND	0.8
trans-1,2-Dichloroethene	ND	1.0
cis-1,2-Dichloroethene	ND	0.9
Chloroform	ND	1.0
1,2-Dichloroethane	ND	1.0
1,1,1-Trichloroethane	ND	1.3
Carbon Tetrachloride	ND	1.2
Bromodichloromethane	ND	0.8
1,2-Dichloropropane	ND	0.8
cis-1,3-Dichloropropene	ND	0.8
Trichloroethene	ND	1.6
Dibromochloromethane	ND	0.6
1,1,2-Trichloroethane	ND	1.0
Benzene	120	1.0
trans-1,3-Dichloropropene	ND	0.8
2-Chloroethyl Vinyl Ether	ND	2.1
Bromoform	ND	0.9
Tetrachloroethene	ND	1.4
1,1,2,2-Tetrachloroethane	ND	0.6
Toluene	11	0.9
Chlorobenzene	ND	0.8
Ethylbenzene	6.4	1.0
Xylene (Total)	14	1.0
TBA	1700	29
MTBE	370	1.0

Client ID: TempWell1
Site: NB Gulf

Lab Sample No: 331069
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v40103.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 5.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. Unknown Hydrocarbon	3.09	23	
2. C5H12 Alkane	3.83	48	
3. C6H14 Alkane	5.42	23	
4. C6H12 Cycloalkane	6.95	29	
5. 2,3-dihydro-1H-Indene	15.11	22	
6.			
7.			
8.			
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11.			
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TOTAL ESTIMATED CONCENTRATION

145

Client ID: TempWell12
 Site: NB Gulf

Lab Sample No: 331070
 Lab Job No: T389

Date Sampled: 02/06/02
 Date Received: 02/06/02
 Date Analyzed: 02/07/02
 GC Column: DB624
 Instrument ID: VOAMS7.i
 Lab File ID: v40104.d

Matrix: WATER
 Level: LOW
 Purge Volume: 5.0 ml
 Dilution Factor: 100.0

VOLATILE ORGANICS - GC/MS
 METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	33
Bromomethane	ND	21
Vinyl Chloride	ND	23
Chloroethane	ND	28
Methylene Chloride	ND	100
Trichlorofluoromethane	ND	35
1,1-Dichloroethene	ND	24
1,1-Dichloroethane	ND	17
trans-1,2-Dichloroethene	ND	20
cis-1,2-Dichloroethene	ND	18
Chloroform	ND	19
1,2-Dichloroethane	ND	21
1,1,1-Trichloroethane	ND	26
Carbon Tetrachloride	ND	25
Bromodichloromethane	ND	16
1,2-Dichloropropane	ND	16
cis-1,3-Dichloropropene	ND	17
Trichloroethene	ND	31
Dibromochloromethane	ND	13
1,1,2-Trichloroethane	ND	20
Benzene	130	19
trans-1,3-Dichloropropene	ND	15
2-Chloroethyl Vinyl Ether	ND	42
Bromoform	ND	18
Tetrachloroethene	ND	28
1,1,2,2-Tetrachloroethane	ND	12
Toluene	130	18
Chlorobenzene	ND	15
Ethylbenzene	56	19
Xylene (Total)	330	19
TBA	12000	580
MTBE	11000	19

Client ID: TempWell12
Site: NB Gulf

Lab Sample No: 331070
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v40104.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 100.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. Unknown Alkene	3.07	330	
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
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29.			
30.			

TOTAL ESTIMATED CONCENTRATION

330

Client ID: TempWell3
 Site: NB Gulf

Lab Sample No: 331071
 Lab Job No: T389

Date Sampled: 02/06/02
 Date Received: 02/06/02
 Date Analyzed: 02/07/02
 GC Column: DB624
 Instrument ID: VOAMS7.i
 Lab File ID: v40105.d

Matrix: WATER
 Level: LOW
 Purge Volume: 5.0 ml
 Dilution Factor: 5.0

VOLATILE ORGANICS - GC/MS
 METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	1.6
Bromomethane	ND	1.0
Vinyl Chloride	ND	1.2
Chloroethane	ND	1.4
Methylene Chloride	ND	5.1
Trichlorofluoromethane	ND	1.8
1,1-Dichloroethene	ND	1.2
1,1-Dichloroethane	ND	0.8
trans-1,2-Dichloroethene	ND	1.0
cis-1,2-Dichloroethene	ND	0.9
Chloroform	ND	1.0
1,2-Dichloroethane	ND	1.0
1,1,1-Trichloroethane	ND	1.3
Carbon Tetrachloride	ND	1.2
Bromodichloromethane	ND	0.8
1,2-Dichloropropane	ND	0.8
cis-1,3-Dichloropropene	ND	0.8
Trichloroethene	ND	1.6
Dibromochloromethane	ND	0.6
1,1,2-Trichloroethane	ND	1.0
Benzene	14	1.0
trans-1,3-Dichloropropene	ND	0.8
2-Chloroethyl Vinyl Ether	ND	2.1
Bromoform	ND	0.9
Tetrachloroethene	ND	1.4
1,1,2,2-Tetrachloroethane	ND	0.6
Toluene	3.1	0.9
Chlorobenzene	ND	0.8
Ethylbenzene	42	1.0
Xylene (Total)	62	1.0
TBA	4900	29
MTBE	480	1.0

Client ID: TempWell3
Site: NB Gulf

Lab Sample No: 331071
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v40105.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 5.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. Unknown Hydrocarbon	3.09	47	
2. C5H12 Alkane	3.83	120	
3. C6H14 Alkane	5.42	85	
4. C6H12 Cycloalkane	6.95	52	
5. Ethylmethylbenzene isomer	13.98	54	
6. Unknown Aromatic	14.04	43	
7. Trimethylbenzene isomer	14.44	90	
8. 2,3-dihydro-1H-Indene	15.11	140	
9. 2,3-dihydro-methyl-1H-Indene isomer	15.67	59	
10. 2,3-dihydro-methyl-1H-Indene isomer	16.43	40	
11.			
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TOTAL ESTIMATED CONCENTRATION

730

Client ID: TempWell4
 Site: NB Gulf

Lab Sample No: 331072
 Lab Job No: T389

Date Sampled: 02/06/02
 Date Received: 02/06/02
 Date Analyzed: 02/07/02
 GC Column: DB624
 Instrument ID: VOAMS7.i
 Lab File ID: v40106.d

Matrix: WATER
 Level: LOW
 Purge Volume: 5.0 ml
 Dilution Factor: 2000.0

VOLATILE ORGANICS - GC/MS
 METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	660
Bromomethane	ND	420
Vinyl Chloride	ND	460
Chloroethane	ND	560
Methylene Chloride	ND	2000
Trichlorofluoromethane	ND	700
1,1-Dichloroethene	ND	480
1,1-Dichloroethane	ND	340
trans-1,2-Dichloroethene	ND	400
cis-1,2-Dichloroethene	ND	360
Chloroform	ND	380
1,2-Dichloroethane	ND	420
1,1,1-Trichloroethane	ND	520
Carbon Tetrachloride	ND	500
Bromodichloromethane	ND	320
1,2-Dichloropropane	ND	320
cis-1,3-Dichloropropene	ND	340
Trichloroethene	ND	620
Dibromochloromethane	ND	260
1,1,2-Trichloroethane	ND	400
Benzene	ND	380
trans-1,3-Dichloropropene	ND	300
2-Chloroethyl Vinyl Ether	ND	840
Bromoform	ND	360
Tetrachloroethene	ND	560
1,1,2,2-Tetrachloroethane	ND	240
Toluene	ND	360
Chlorobenzene	ND	300
Ethylbenzene	ND	380
Xylene (Total)	ND	380
TBA	77000	12000
MTBE	200000	380

Client ID: TempWell4
Site: NB Gulf

Lab Sample No: 331072
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v40106.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 2000.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
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TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: TestPiT6-5
 Site: NB Gulf

Lab Sample No: 331073
 Lab Job No: T389

Date Sampled: 02/06/02
 Date Received: 02/06/02
 Date Analyzed: 02/07/02
 GC Column: DB624
 Instrument ID: VOAMS9.i
 Lab File ID: k23589.d

Matrix: SOIL
 Level: HIGH
 Sample Weight: 10.1 g
 Methanol Ext. Volume: 25.0 ml
 Ext. Dilution Factor: 50.0
 % Moisture: 10

VOLATILE ORGANICS - GC/MS
 METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	690
Bromomethane	ND	690
Vinyl Chloride	ND	690
Chloroethane	ND	690
Methylene Chloride	ND	410
Trichlorofluoromethane	ND	690
1,1-Dichloroethene	ND	280
1,1-Dichloroethane	ND	690
trans-1,2-Dichloroethene	ND	690
cis-1,2-Dichloroethene	ND	690
Chloroform	ND	690
1,2-Dichloroethane	ND	280
1,1,1-Trichloroethane	ND	690
Carbon Tetrachloride	ND	280
Bromodichloromethane	ND	140
1,2-Dichloropropane	ND	140
cis-1,3-Dichloropropene	ND	690
Trichloroethene	ND	140
Dibromochloromethane	ND	690
1,1,2-Trichloroethane	ND	410
Benzene	ND	140
trans-1,3-Dichloropropene	ND	690
2-Chloroethyl Vinyl Ether	ND	690
Bromoform	ND	550
Tetrachloroethene	ND	140
1,1,2,2-Tetrachloroethane	ND	140
Toluene	ND	690
Chlorobenzene	ND	690
Ethylbenzene	ND	550
Xylene (Total)	ND	690
TBA	ND	14000
MTBE	ND	690

Client ID: TestPit6-5
Site: NB Gulf

Lab Sample No: 331073
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k23589.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.1 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.1

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: TestPiT6-14-15
 Site: NB Gulf

Lab Sample No: 331074
 Lab Job No: T389

Date Sampled: 02/06/02
 Date Received: 02/06/02
 Date Analyzed: 02/07/02
 GC Column: DB624
 Instrument ID: VOAMS9.i
 Lab File ID: k23590.d

Matrix: SOIL
 Level: HIGH
 Sample Weight: 10.2 g
 Methanol Ext. Volume: 25.0 ml
 Ext. Dilution Factor: 50.0
 % Moisture: 8

VOLATILE ORGANICS - GC/MS
 METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u> Units: ug/kg (Dry Weight)	<u>Quantitation</u> Limit Units: ug/kg
Chloromethane	ND	670
Bromomethane	ND	670
Vinyl Chloride	ND	670
Chloroethane	ND	670
Methylene Chloride	ND	400
Trichlorofluoromethane	ND	670
1,1-Dichloroethene	ND	270
1,1-Dichloroethane	ND	670
trans-1,2-Dichloroethene	ND	670
cis-1,2-Dichloroethene	ND	670
Chloroform	ND	670
1,2-Dichloroethane	ND	270
1,1,1-Trichloroethane	ND	670
Carbon Tetrachloride	ND	270
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	670
Trichloroethene	ND	130
Dibromochloromethane	ND	670
1,1,2-Trichloroethane	ND	400
Benzene	ND	130
trans-1,3-Dichloropropene	ND	670
2-Chloroethyl Vinyl Ether	ND	670
Bromoform	ND	540
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	ND	670
Chlorobenzene	ND	670
Ethylbenzene	ND	540
Xylene (Total)	ND	670
TBA	ND	13000
MTBE	ND	670

Client ID: TestPiT6-14-15
Site: NB Gulf

Lab Sample No: 331074
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k23590.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.2 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 8.5

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
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TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: Trip_Blank
 Site: NB Gulf

Lab Sample No: 331075
 Lab Job No: T389

Date Sampled: 02/06/02
 Date Received: 02/06/02
 Date Analyzed: 02/07/02
 GC Column: DB624
 Instrument ID: VOAMS9.i
 Lab File ID: k23587.d

Matrix: SOIL
 Level: HIGH
 Sample Weight: 10.0 g
 Methanol Ext. Volume: 25.0 ml
 Ext. Dilution Factor: 50.0
 % Moisture: 0

VOLATILE ORGANICS - GC/MS
 METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg	Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND	380
Trichlorofluoromethane	ND	620
1,1-Dichloroethene	ND	250
1,1-Dichloroethane	ND	620
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	250
1,1,1-Trichloroethane	ND	620
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	620
Trichloroethene	ND	120
Dibromochloromethane	ND	620
1,1,2-Trichloroethane	ND	380
Benzene	ND	120
trans-1,3-Dichloropropene	ND	620
2-Chloroethyl Vinyl Ether	ND	620
Bromoform	ND	500
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	620
Chlorobenzene	ND	620
Ethylbenzene	ND	500
Xylene (Total)	ND	620
TBA	ND	12000
MTBE	ND	620

Client ID: Trip_Blank
Site: NB Gulf

Lab Sample No: 331075
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k23587.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: USTsExcavation
Site: NB Gulf

Lab Sample No: 331066
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02

Matrix: WATER
Level: LOW

METALS ANALYSIS

<u>Analyte</u>	<u>Analytical Result Units: ug/l</u>	<u>Instrument Detection Limit</u>	<u>M</u>
Lead	7.8	2.2	P

M Column - Method Code (See Section 2 of Report)

General Information

Chain of Custody

STL EDISON

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice) FILL CROBIE		Samplers Name (Printed) FRANK JASIMIEWICZ		Site/Project Identification NB GOLF	
Company AEDHAWK ENVIRONMENTAL LTD		P.O. #		State (Location of site): NJ: <input checked="" type="checkbox"/> NY: <input type="checkbox"/> Other: <input type="checkbox"/>	
Address 2845 Hales Hollow Road		Analysis Turnaround Time Standard <input type="checkbox"/> Rush Charges Authorized For: 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input checked="" type="checkbox"/> 24 hrs		Regulatory Program:	
City Bridgewater Corners		No. of Cont.		ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)	
State VT 05035		Matrix		VOC+10	
Phone 800 311-6115		Time		TR A	
Fax 877-311-6115		Date		Lead	
Sample Identification	Date	Time	Matrix	No. of Cont.	Sample Numbers
2955 EXCAVATION	2/4/02	0840	water	3	331064
1455 EXCAVATION	2/6/02	0845	water	1	331066
Test PIT 4: 2 1/2'	2/6/02	1320	soil	22	331067
Test PIT 4: 6 1/2'	2/6/02	1340	soil	22	331068
Temp well 1	2/4/02	1430	water	3	331069
Temp well 2	2/6/02	1440	water	3	331070
Temp well 3	2/6/02	1450	water	3	331071
Temp well 4	2/6/02	1500	water	3	331072
Test PIT 6: 5'	2/6/02	1545	soil	22	331073
Test PIT 6: 14-15'	2/6/02	1550	Soil	22	331074
Preservation Used: 1 = ICE, 2 = HCl, 3 = H ₂ SO ₄ , 4 = HNO ₃ , 5 = NaOH		Soil:		6 6 6	
6 = Other <i>method</i>		Water:		42 42 142	
7 = Other				44	

Special Instructions 24 hours on stand & get results ASAP

Relinquished by <i>Frank Jasimiewicz</i>	Company Redbank	Date / Time 2/6/02 1:16:45	Received by STL Edison	Company Redbank	Water Metals Filtered (Yes/No)?
Relinquished by <i>Wayne Clark</i>	Company STL Edison	Date / Time 2/6/02 1:17:05	Received by Wayne Clark	Company STL Edison	
Relinquished by	Company	Date / Time	Received by	Company	
Relinquished by	Company	Date / Time	Received by	Company	
Relinquished by	Company	Date / Time	Received by	Company	

Laboratory Chronicles

**INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison**

777 New Durham Road, Edison, New Jersey
08817

Job No: T389

Site: NB Gulf

Client: Environmental Maintenance Company

VOAMS

WATER - 624

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
331066	2/6/2002	2/6/2002			2/7/2002	Lissy, David	7425
331069	2/6/2002	2/6/2002			2/7/2002	Lissy, David	7425
331070	2/6/2002	2/6/2002			2/7/2002	Lissy, David	7425
331071	2/6/2002	2/6/2002			2/7/2002	Lissy, David	7425
331072	2/6/2002	2/6/2002			2/7/2002	Lissy, David	7425

SOLID - 8260B

Lab Sample ID	Date Sampled	Date Received	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
331067	2/6/2002	2/6/2002			2/7/2002	Tupayachi, Audberto	3648
331068	2/6/2002	2/6/2002			2/7/2002	Tupayachi, Audberto	3666
331073	2/6/2002	2/6/2002			2/7/2002	Tupayachi, Audberto	3666
331074	2/6/2002	2/6/2002			2/7/2002	Tupayachi, Audberto	3666
331075	2/6/2002	2/6/2002			2/7/2002	Tupayachi, Audberto	3666

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No: T389

Site: NB Gulf

Client: Environmental Maintenance Company

Date Sampled: 2/6/2002

Sample No.: 331066

Date Received: 2/6/2002

Matrix: WATER

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
LEAD	2/7/2002	Sanagavarapu, Suguna	2/7/2002	Evans, Donald	12318

Methodology Review

Analytical Methodology Summary

Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2. Solid samples are analyzed for volatile organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8260B. Water samples are analyzed for volatile organics by purge and trap GC/PID and GC/ELCD as specified in EPA Methods 601 and 602. Solid samples are analyzed by GC/PID and GC/ELCD in accordance with SW-846, 3rd Edition Method 8021B.

Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8270C.

GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP "Remedial Investigation Guide" Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

- P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)
- A - Flame Atomic Absorption
- F - Furnace Atomic Absorption
- CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in "Methods for Chemical Analysis of Water and Wastewater" (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition); samples are digested according to Method 3050B "Acid Digestion of Soil, Sediments and Sludges."

Specific method references for ICP analyses are water Method 200.7 and solid Method 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1 and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

Element	Water Test Method		Solid Test Method	
	Flame	Furnace	Flame	Furnace
Aluminum	202.1	202.2	7020	--
Antimony	204.1	204.2	7040	7041
Arsenic	--	206.2	--	7060
Barium	208.1	--	7080	--
Beryllium	210.1	210.2	7090	7091
Cadmium	213.1	213.2	7130	7131
Calcium	215.1	--	7140	--
Chromium, Total	218.1	218.2	7190	7191
Chromium, (+6)	218.4	218.5	7197	7195
Cobalt	219.1	219.2	7200	7201
Copper	220.1	220.2	7210	--
Iron	236.1	236.2	7380	--
Lead	239.1	239.2	7420	7421
Magnesium	242.1	--	7450	--
Manganese	243.1	243.2	7460	--
Nickel	249.1	249.2	7520	--
Potassium	258.1	--	7610	--
Selenium	--	270.2	--	7740
Silver	272.1	272.2	7760	--
Sodium	273.1	--	7770	--
Tin	283.1	283.2	7870	--
Thallium	279.1	279.2	7840	7841
Vanadium	286.1	286.2	7910	7911
Zinc	289.1	289.2	7950	--

Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication "Test Methods for Evaluating Solid Waste" (SW-846, 3rd Edition). Specific method references are as follows:

- Ignitability - Method 1020A
- Corrosivity - Water pH Method 9040B
Soil pH Method 9045C
- Reactivity - Chapter 7, Section 7.3.3 and 7.3.4
respectively for hydrogen cyanide and
hydrogen sulfide release
- Toxicity - TCLP Method 1311

Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 17th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

Data Reporting Qualifiers

ORGANIC DATA REPORTING QUALIFIERS

- ND - The compound was not detected at the indicated concentration.
- J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than zero. The concentration given is an approximate value.
- B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.
- P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.
- * - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

INORGANIC DATA REPORTING QUALIFIERS (SW-846 METHODS ONLY)

- ND - The compound was not detected at the indicated concentration.
- B - Reported value is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit.
- E - The reported value is estimated because of the presence of interference. See explanatory note in the Nonconformance Summary if the problem applies to all of the samples or on the individual Inorganic Analysis Data Sheet if the problem is isolated.
- M - Duplicate injection precision not met on the Furnace Atomic Absorption analysis.
- N - The spiked sample recovery is not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- * - Duplicate Analysis is not within control limits.
- W - Post digestion spike for Furnace Atomic Absorption analysis is out of control.
- + - Correlation coefficient for MSA is less than 0.995.

M Column - Method Qualifiers

- P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP).
- A - Flame Atomic Absorption Spectroscopy (FAA).
- F - Graphite Furnace Atomic Absorption Spectroscopy (GFAA).
- CV - Cold Vapor Atomic Absorption Spectroscopy.

Non-Conformance Summary

NON-CONFORMANCE SUMMARY

STL Edison Job Number: T389

Volatile Organics Analysis:

All data conforms with method requirements ; or
Analysis was not requested ; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ()

Base/Neutral and/or Acid Extractable Organics:

All data conforms with method requirements ; or
Analysis was not requested ; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ()

PCBs and/or Organochlorine Pesticides:

All data conforms with method requirements ; or
Analysis was not requested ; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ()

Non-conformance Summary, Page 2 of 2
STL Edison Job Number: T389

Metals Analysis:

All data conforms with method requirements ; or
Analysis was not requested ; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ()

Total Petroleum Hydrocarbons:

All data conforms with method requirements ; or
Analysis was not requested ; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ()

General Chemistry/Disposal Parameters:

All data conforms with method requirements ; or
Analysis was not requested ; or
Non-conformance for the specific samples listed is as follows:

See continuation page if checked ()

Signature of  Date: 2-15-02
Laboratory Manager:

GC/MS Forms and Data (Volatiles)

Results Summary and Chromatograms

Client ID: USTsExcavation
Site: NB Gulf

Lab Sample No: 331066
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v40102.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 100.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	33
Bromomethane	ND	21
Vinyl Chloride	ND	23
Chloroethane	ND	28
Methylene Chloride	ND	100
Trichlorofluoromethane	ND	35
1,1-Dichloroethene	ND	24
1,1-Dichloroethane	ND	17
trans-1,2-Dichloroethene	ND	20
cis-1,2-Dichloroethene	ND	18
Chloroform	ND	19
1,2-Dichloroethane	ND	21
1,1,1-Trichloroethane	ND	26
Carbon Tetrachloride	ND	25
Bromodichloromethane	ND	16
1,2-Dichloropropane	ND	16
cis-1,3-Dichloropropene	ND	17
Trichloroethene	ND	31
Dibromochloromethane	ND	13
1,1,2-Trichloroethane	ND	20
Benzene	1200	19
trans-1,3-Dichloropropene	ND	15
2-Chloroethyl Vinyl Ether	ND	42
Bromoform	ND	18
Tetrachloroethene	ND	28
1,1,2,2-Tetrachloroethane	ND	12
Toluene	1900	18
Chlorobenzene	ND	15
Ethylbenzene	1100	19
Xylene (Total)	6000	19
TBA	11000	580
MTBE	20000	19

Client ID: USTsExcavation
 Site: NB Gulf

Lab Sample No: 331066
 Lab Job No: T389

Date Sampled: 02/06/02
 Date Received: 02/06/02
 Date Analyzed: 02/07/02
 GC Column: DB624
 Instrument ID: VOAMS7.i
 Lab File ID: v40102.d

Matrix: WATER
 Level: LOW
 Purge Volume: 5.0 ml
 Dilution Factor: 100.0

VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. Unknown Alkene	3.07	470	
2. C6H12 Cycloalkane	6.95	320	
3. Ethylmethylbenzene isomer	13.96	1100	
4. Unknown Aromatic	14.04	650	
5. Ethylmethylbenzene isomer	14.28	300	
6. Trimethylbenzene isomer	14.44	1500	
7. Trimethylbenzene isomer	14.89	380	
8. 2,3-dihydro-1H-Indene/C10H14 Aromatic	15.11	630	
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
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26.			
27.			
28.			
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30.			

TOTAL ESTIMATED CONCENTRATION

5350

Client ID: TestPit4-2.5
Site: NB Gulf

Lab Sample No: 331067
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb48729.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.2 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 200.0
% Moisture: 18

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u> Units: ug/kg (Dry Weight)	<u>Quantitation</u> Limit Units: ug/kg
Chloromethane	ND	3000
Bromomethane	ND	3000
Vinyl Chloride	ND	3000
Chloroethane	ND	3000
Methylene Chloride	ND	1800
Trichlorofluoromethane	ND	3000
1,1-Dichloroethene	ND	1200
1,1-Dichloroethane	ND	3000
trans-1,2-Dichloroethene	ND	3000
cis-1,2-Dichloroethene	ND	3000
Chloroform	ND	3000
1,2-Dichloroethane	ND	1200
1,1,1-Trichloroethane	ND	3000
Carbon Tetrachloride	ND	1200
Bromodichloromethane	ND	600
1,2-Dichloropropane	ND	600
cis-1,3-Dichloropropene	ND	3000
Trichloroethene	ND	600
Dibromochloromethane	ND	3000
1,1,2-Trichloroethane	ND	1800
Benzene	ND	600
trans-1,3-Dichloropropene	ND	3000
2-Chloroethyl Vinyl Ether	ND	3000
Bromoform	ND	2400
Tetrachloroethene	ND	600
1,1,2,2-Tetrachloroethane	ND	600
Toluene	4400	3000
Chlorobenzene	ND	3000
Ethylbenzene	ND	2400
Xylene (Total)	22000	3000
TBA	ND	60000
MTBE	80000	3000

Client ID: TestPit4-2.5
 Site: NB Gulf

Lab Sample No: 331067
 Lab Job No: T389

Date Sampled: 02/06/02
 Date Received: 02/06/02
 Date Analyzed: 02/07/02
 GC Column: DB624
 Instrument ID: VOAMS10.i
 Lab File ID: bb48729.d

Matrix: SOIL
 Level: HIGH
 Sample Weight: 10.2 g
 Methanol Ext. Volume: 25.0 ml
 Ext. Dilution Factor: 200.0
 % Moisture: 17.7

VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. C6H14 Alkane	4.53	6300	
2. C6H12 Cycloalkane	5.79	4600	
3. C7H14 Alkene	6.58	9400	
4. C7H16 Alkane	6.69	9800	
5. Unknown Alkane/Surrogate	6.99	35000	
6. Cyclohexane, methyl-	7.85	17000	
7. C8H18 Alkane	8.25	14000	
8. C8H18 Alkane	8.40	22000	
9. C8H18 Alkane	8.61	6800	
10. Ethylmethylbenzene isomer	12.94	4700	
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

129600

Client ID: TestPit4-6.5
Site: NB Gulf

Lab Sample No: 331068
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k23588.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.3 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 23

VOLATILE ORGANICS - GC/MS
METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	790
Bromomethane	ND	790
Vinyl Chloride	ND	790
Chloroethane	ND	790
Methylene Chloride	ND	470
Trichlorofluoromethane	ND	790
1,1-Dichloroethene	ND	310
1,1-Dichloroethane	ND	790
trans-1,2-Dichloroethene	ND	790
cis-1,2-Dichloroethene	ND	790
Chloroform	ND	790
1,2-Dichloroethane	ND	310
1,1,1-Trichloroethane	ND	790
Carbon Tetrachloride	ND	310
Bromodichloromethane	ND	160
1,2-Dichloropropane	ND	160
cis-1,3-Dichloropropene	ND	790
Trichloroethene	ND	160
Dibromochloromethane	ND	790
1,1,2-Trichloroethane	ND	470
Benzene	ND	160
trans-1,3-Dichloropropene	ND	790
2-Chloroethyl Vinyl Ether	ND	790
Bromoform	ND	630
Tetrachloroethene	ND	160
1,1,2,2-Tetrachloroethane	ND	160
Toluene	ND	790
Chlorobenzene	ND	790
Ethylbenzene	ND	630
Xylene (Total)	ND	790
TBA	ND	16000
MTBE	720 J	790

Client ID: TestPit4-6.5
Site: NB Gulf

Lab Sample No: 331068
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k23588.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.3 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 22.8

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: TempWell1
Site: NB Gulf

Lab Sample No: 331069
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v40103.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 5.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	1.6
Bromomethane	ND	1.0
Vinyl Chloride	ND	1.2
Chloroethane	ND	1.4
Methylene Chloride	ND	5.1
Trichlorofluoromethane	ND	1.8
1,1-Dichloroethene	ND	1.2
1,1-Dichloroethane	ND	0.8
trans-1,2-Dichloroethene	ND	1.0
cis-1,2-Dichloroethene	ND	0.9
Chloroform	ND	1.0
1,2-Dichloroethane	ND	1.0
1,1,1-Trichloroethane	ND	1.3
Carbon Tetrachloride	ND	1.2
Bromodichloromethane	ND	0.8
1,2-Dichloropropane	ND	0.8
cis-1,3-Dichloropropene	ND	0.8
Trichloroethene	ND	1.6
Dibromochloromethane	ND	0.6
1,1,2-Trichloroethane	ND	1.0
Benzene	120	1.0
trans-1,3-Dichloropropene	ND	0.8
2-Chloroethyl Vinyl Ether	ND	2.1
Bromoform	ND	0.9
Tetrachloroethene	ND	1.4
1,1,2,2-Tetrachloroethane	ND	0.6
Toluene	11	0.9
Chlorobenzene	ND	0.8
Ethylbenzene	6.4	1.0
Xylene (Total)	14	1.0
TBA	1700	29
MTBE	370	1.0

Client ID: TempWell11
 Site: NB Gulf

Lab Sample No: 331069
 Lab Job No: T389

Date Sampled: 02/06/02
 Date Received: 02/06/02
 Date Analyzed: 02/07/02
 GC Column: DB624
 Instrument ID: VOAMS7.i
 Lab File ID: v40103.d

Matrix: WATER
 Level: LOW
 Purge Volume: 5.0 ml
 Dilution Factor: 5.0

VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. Unknown Hydrocarbon	3.09	23	
2. C5H12 Alkane	3.83	48	
3. C6H14 Alkane	5.42	23	
4. C6H12 Cycloalkane	6.95	29	
5. 2,3-dihydro-1H-Indene	15.11	22	
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

145

Client ID: TempWell2
Site: NB Gulf

Lab Sample No: 331070
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v40104.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 100.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	33
Bromomethane	ND	21
Vinyl Chloride	ND	23
Chloroethane	ND	28
Methylene Chloride	ND	100
Trichlorofluoromethane	ND	35
1,1-Dichloroethene	ND	24
1,1-Dichloroethane	ND	17
trans-1,2-Dichloroethene	ND	20
cis-1,2-Dichloroethene	ND	18
Chloroform	ND	19
1,2-Dichloroethane	ND	21
1,1,1-Trichloroethane	ND	26
Carbon Tetrachloride	ND	25
Bromodichloromethane	ND	16
1,2-Dichloropropane	ND	16
cis-1,3-Dichloropropene	ND	17
Trichloroethene	ND	31
Dibromochloromethane	ND	13
1,1,2-Trichloroethane	ND	20
Benzene	130	19
trans-1,3-Dichloropropene	ND	15
2-Chloroethyl Vinyl Ether	ND	42
Bromoform	ND	18
Tetrachloroethene	ND	28
1,1,2,2-Tetrachloroethane	ND	12
Toluene	130	18
Chlorobenzene	ND	15
Ethylbenzene	56	19
Xylene (Total)	330	19
TBA	12000	580
MTBE	11000	19

Client ID: TempWell2
Site: NB Gulf

Lab Sample No: 331070
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v40104.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 100.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. Unknown Alkene	3.07	330	
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
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24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

330

Client ID: TempWell13
Site: NB Gulf

Lab Sample No: 331071
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v40105.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 5.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	1.6
Bromomethane	ND	1.0
Vinyl Chloride	ND	1.2
Chloroethane	ND	1.4
Methylene Chloride	ND	5.1
Trichlorofluoromethane	ND	1.8
1,1-Dichloroethene	ND	1.2
1,1-Dichloroethane	ND	0.8
trans-1,2-Dichloroethene	ND	1.0
cis-1,2-Dichloroethene	ND	0.9
Chloroform	ND	1.0
1,2-Dichloroethane	ND	1.0
1,1,1-Trichloroethane	ND	1.3
Carbon Tetrachloride	ND	1.2
Bromodichloromethane	ND	0.8
1,2-Dichloropropane	ND	0.8
cis-1,3-Dichloropropene	ND	0.8
Trichloroethene	ND	1.6
Dibromochloromethane	ND	0.6
1,1,2-Trichloroethane	ND	1.0
Benzene	14	1.0
trans-1,3-Dichloropropene	ND	0.8
2-Chloroethyl Vinyl Ether	ND	2.1
Bromoform	ND	0.9
Tetrachloroethene	ND	1.4
1,1,2,2-Tetrachloroethane	ND	0.6
Toluene	3.1	0.9
Chlorobenzene	ND	0.8
Ethylbenzene	42	1.0
Xylene (Total)	62	1.0
TBA	4900	29
MTBE	480	1.0

Client ID: TempWell13
 Site: NB Gulf

Lab Sample No: 331071
 Lab Job No: T389

Date Sampled: 02/06/02
 Date Received: 02/06/02
 Date Analyzed: 02/07/02
 GC Column: DB624
 Instrument ID: VOAMS7.i
 Lab File ID: v40105.d

Matrix: WATER
 Level: LOW
 Purge Volume: 5.0 ml
 Dilution Factor: 5.0

VOLATILE ORGANICS - GC/MS
 TENTATIVELY IDENTIFIED COMPOUNDS
 METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
1. Unknown Hydrocarbon	3.09	47	
2. C5H12 Alkane	3.83	120	
3. C6H14 Alkane	5.42	85	
4. C6H12 Cycloalkane	6.95	52	
5. Ethylmethylbenzene isomer	13.98	54	
6. Unknown Aromatic	14.04	43	
7. Trimethylbenzene isomer	14.44	90	
8. 2,3-dihydro-1H-Indene	15.11	140	
9. 2,3-dihydro-methyl-1H-Indene isomer	15.67	59	
10. 2,3-dihydro-methyl-1H-Indene isomer	16.43	40	
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
21.			
22.			
23.			
24.			
25.			
26.			
27.			
28.			
29.			
30.			

TOTAL ESTIMATED CONCENTRATION

730

Client ID: TempWell4
Site: NB Gulf

Lab Sample No: 331072
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v40106.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 2000.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	660
Bromomethane	ND	420
Vinyl Chloride	ND	460
Chloroethane	ND	560
Methylene Chloride	ND	2000
Trichlorofluoromethane	ND	700
1,1-Dichloroethene	ND	480
1,1-Dichloroethane	ND	340
trans-1,2-Dichloroethene	ND	400
cis-1,2-Dichloroethene	ND	360
Chloroform	ND	380
1,2-Dichloroethane	ND	420
1,1,1-Trichloroethane	ND	520
Carbon Tetrachloride	ND	500
Bromodichloromethane	ND	320
1,2-Dichloropropane	ND	320
cis-1,3-Dichloropropene	ND	340
Trichloroethene	ND	620
Dibromochloromethane	ND	260
1,1,2-Trichloroethane	ND	400
Benzene	ND	380
trans-1,3-Dichloropropene	ND	300
2-Chloroethyl Vinyl Ether	ND	840
Bromoform	ND	360
Tetrachloroethene	ND	560
1,1,2,2-Tetrachloroethane	ND	240
Toluene	ND	360
Chlorobenzene	ND	300
Ethylbenzene	ND	380
Xylene (Total)	ND	380
TBA	77000	12000
MTBE	200000	380

Client ID: TempWell4
Site: NB Gulf

Lab Sample No: 331072
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v40106.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 2000.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
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TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: TestPit6-5
Site: NB Gulf

Lab Sample No: 331073
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k23589.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.1 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
Chloromethane	ND	690
Bromomethane	ND	690
Vinyl Chloride	ND	690
Chloroethane	ND	690
Methylene Chloride	ND	410
Trichlorofluoromethane	ND	690
1,1-Dichloroethene	ND	280
1,1-Dichloroethane	ND	690
trans-1,2-Dichloroethene	ND	690
cis-1,2-Dichloroethene	ND	690
Chloroform	ND	690
1,2-Dichloroethane	ND	280
1,1,1-Trichloroethane	ND	690
Carbon Tetrachloride	ND	280
Bromodichloromethane	ND	140
1,2-Dichloropropane	ND	140
cis-1,3-Dichloropropene	ND	690
Trichloroethene	ND	140
Dibromochloromethane	ND	690
1,1,2-Trichloroethane	ND	410
Benzene	ND	140
trans-1,3-Dichloropropene	ND	690
2-Chloroethyl Vinyl Ether	ND	690
Bromoform	ND	550
Tetrachloroethene	ND	140
1,1,2,2-Tetrachloroethane	ND	140
Toluene	ND	690
Chlorobenzene	ND	690
Ethylbenzene	ND	550
Xylene (Total)	ND	690
TBA	ND	14000
MTBE	ND	690

Client ID: TestPit6-5
Site: NB Gulf

Lab Sample No: 331073
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k23589.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.1 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 10.1

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
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TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: TestPit6-14-15
Site: NB Gulf

Lab Sample No: 331074
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k23590.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.2 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 8

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Chloromethane	ND	670
Bromomethane	ND	670
Vinyl Chloride	ND	670
Chloroethane	ND	670
Methylene Chloride	ND	400
Trichlorofluoromethane	ND	670
1,1-Dichloroethene	ND	270
1,1-Dichloroethane	ND	670
trans-1,2-Dichloroethene	ND	670
cis-1,2-Dichloroethene	ND	670
Chloroform	ND	670
1,2-Dichloroethane	ND	270
1,1,1-Trichloroethane	ND	670
Carbon Tetrachloride	ND	270
Bromodichloromethane	ND	130
1,2-Dichloropropane	ND	130
cis-1,3-Dichloropropene	ND	670
Trichloroethene	ND	130
Dibromochloromethane	ND	670
1,1,2-Trichloroethane	ND	400
Benzene	ND	130
trans-1,3-Dichloropropene	ND	670
2-Chloroethyl Vinyl Ether	ND	670
Bromoform	ND	540
Tetrachloroethene	ND	130
1,1,2,2-Tetrachloroethane	ND	130
Toluene	ND	670
Chlorobenzene	ND	670
Ethylbenzene	ND	540
Xylene (Total)	ND	670
TBA	ND	13000
MTBE	ND	670

Client ID: TestPiT6-14-15
Site: NB Gulf

Lab Sample No: 331074
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k23590.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.2 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 8.5

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
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TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: Trip_Blank
Site: NB Gulf

Lab Sample No: 331075
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k23587.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	Analytical Results Units: ug/kg	Quantitation Limit Units: ug/kg
Chloromethane	ND	620
Bromomethane	ND	620
Vinyl Chloride	ND	620
Chloroethane	ND	620
Methylene Chloride	ND	620
Trichlorofluoromethane	ND	380
1,1-Dichloroethene	ND	620
1,1-Dichloroethane	ND	250
trans-1,2-Dichloroethene	ND	620
cis-1,2-Dichloroethene	ND	620
Chloroform	ND	620
1,2-Dichloroethane	ND	250
1,1,1-Trichloroethane	ND	620
Carbon Tetrachloride	ND	250
Bromodichloromethane	ND	120
1,2-Dichloropropane	ND	120
cis-1,3-Dichloropropene	ND	620
Trichloroethene	ND	120
Dibromochloromethane	ND	620
1,1,2-Trichloroethane	ND	380
Benzene	ND	120
trans-1,3-Dichloropropene	ND	620
2-Chloroethyl Vinyl Ether	ND	620
Bromoform	ND	500
Tetrachloroethene	ND	120
1,1,2,2-Tetrachloroethane	ND	120
Toluene	ND	620
Chlorobenzene	ND	620
Ethylbenzene	ND	500
Xylene (Total)	ND	620
TBA	ND	12000
MTBE	ND	620

Client ID: Trip_Blank
Site: NB Gulf

Lab Sample No: 331075
Lab Job No: T389

Date Sampled: 02/06/02
Date Received: 02/06/02
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k23587.d

Matrix: SOIL
Level: HIGH
Sample Weight: 10.0 g
Methanol Ext. Volume: 25.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
13.			
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22.			
23.			
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27.			
28.			
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TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: VV038A
Site:

Lab Sample No: VV038A
Lab Job No: T389

Date Sampled: _____
Date Received: _____
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v40101.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Chloromethane	ND	0.3
Bromomethane	ND	0.2
Vinyl Chloride	ND	0.2
Chloroethane	ND	0.3
Methylene Chloride	ND	1.0
Acetone	ND	1.5
Carbon Disulfide	ND	0.2
Trichlorofluoromethane	ND	0.4
1,1-Dichloroethene	ND	0.2
1,1-Dichloroethane	ND	0.2
trans-1,2-Dichloroethene	ND	0.2
cis-1,2-Dichloroethene	ND	0.2
Chloroform	ND	0.2
1,2-Dichloroethane	ND	0.2
2-Butanone	ND	0.6
1,1,1-Trichloroethane	ND	0.3
Carbon Tetrachloride	ND	0.2
Bromodichloromethane	ND	0.2
1,2-Dichloropropane	ND	0.2
cis-1,3-Dichloropropene	ND	0.2
Trichloroethene	ND	0.3
Dibromochloromethane	ND	0.1
1,1,2-Trichloroethane	ND	0.2
Benzene	ND	0.2
trans-1,3-Dichloropropene	ND	0.2
2-Chloroethyl Vinyl Ether	ND	0.4
Bromoform	ND	0.2
4-Methyl-2-Pentanone	ND	0.2
2-Hexanone	ND	0.4
Tetrachloroethene	ND	0.3
1,1,2,2-Tetrachloroethane	ND	0.1
Toluene	ND	0.2
Chlorobenzene	ND	0.2
Ethylbenzene	ND	0.2

Client ID: VV038A
Site:

Lab Sample No: VV038A
Lab Job No: T389

Date Sampled: _____
Date Received: _____
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v40101.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Styrene	ND	0.1
Xylene (Total)	ND	0.2
Ethyl Ether	ND	0.2
Acrolein	ND	7.7
Freon TF	ND	0.3
Isopropanol	ND	500
Acetonitrile	ND	100
TBA	ND	5.8
Acrylonitrile	ND	2.8
MTBE	ND	0.2
Hexane	ND	0.5
DIPE	ND	0.2
Ethyl Acetate	ND	0.8
Vinyl Acetate	ND	5.0
Tetrahydrofuran	ND	5.0
Cyclohexane	ND	0.3
Isobutanol	ND	500
Isopropyl Acetate	ND	0.9
n-Heptane	ND	1.0
n-Butanol	ND	250
Propyl Acetate	ND	0.4
Butyl Acetate	ND	0.5
1,2-Dibromoethane	ND	0.2
1,3-Dichlorobenzene	ND	0.2
1,4-Dichlorobenzene	ND	0.2
1,2-Dichlorobenzene	ND	0.1
Naphthalene	ND	0.3
Methylnaphthalene (total)	ND	1.0
Dimethylnaphthalene (total)	ND	1.0
Dichlorodifluoromethane	ND	0.5
1,4-Dioxane	ND	67
n-Pentane	ND	0.6
5-Methyl-2-Hexanone	ND	5.0
Isopropylbenzene	ND	0.2

Client ID: VV038A
Site:

Lab Sample No: VV038A
Lab Job No: T389

Date Sampled: _____
Date Received: _____
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v40101.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
1,2,4-Trimethylbenzene	ND	0.2
Cyclohexanone	ND	100
1,2,4-Trichlorobenzene	ND	0.2
Methyl Methacrylate	ND	0.3
Allyl Alcohol	ND	1000
Epichlorohydrin	ND	3.8
Allyl Chloride	ND	5.0
Benzyl Chloride	ND	0.5
Isoprene	ND	0.3
1,1,1,2-Tetrachloroethane	ND	0.2
Camphene (total)	ND	20
Camphor	ND	20
1,3,5-Trimethylbenzene	ND	0.2
1,2,3-Trichlorobenzene	ND	0.3
n-Butylbenzene	ND	1.0
sec-Butylbenzene	ND	1.0
tert-Butylbenzene	ND	1.0
p-Isopropyltoluene	ND	1.0
n-Propylbenzene	ND	1.0
m+p-Ethyltoluene	ND	1.0
o-Ethyltoluene	ND	1.0
Methyl Acetate	ND	0.4
Methyl cyclohexane	ND	0.3
1,2-Dibromo-3-chloropropane	ND	0.4
Cyclohexene	ND	1.0
1,2-Dichlorotrifluoroethane	ND	1.0
n-Propanol	ND	250
3-Methyl-1-Pentyn-3-ol	ND	250
Propylene Oxide	ND	50
Ethanol	ND	500
Chlorotrifluoroethane	ND	1.0
Dichlorofluoromethane	ND	1.0
Ethylene Oxide	ND	500
Methyl Formate	ND	500

Client ID: VV038A
Site:

Lab Sample No: VV038A
Lab Job No: T389

Date Sampled: _____
Date Received: _____
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v40101.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 624

<u>Parameter</u>	<u>Analytical Result</u> <u>Units: ug/l</u>	<u>Method Detection</u> <u>Limit</u> <u>Units: ug/l</u>
Isobutyraldehyde	ND	5.0
Amyl Acetate	ND	5.0
1,3-Dichloropropane	ND	0.5
Isobutyl Acetate	ND	5.0

Client ID: VV038A
Site:

Lab Sample No: VV038A
Lab Job No: T389

Date Sampled: _____
Date Received: _____
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS7.i
Lab File ID: v40101.d

Matrix: WATER
Level: LOW
Purge Volume: 5.0 ml
Dilution Factor: 1.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 624

COMPOUND NAME	RT	EST. CONC. ug/l	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
2.			
3.			
4.			
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TOTAL ESTIMATED CONCENTRATION

0.0

Client ID: KV038
Site:

Lab Sample No: KV038
Lab Job No: T389

Date Sampled: _____
Date Received: _____
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k23586.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
Chloromethane	ND	500
Bromomethane	ND	500
Vinyl Chloride	ND	500
Chloroethane	ND	500
Methylene Chloride	ND	300
Acetone	ND	500
Carbon Disulfide	ND	500
Trichlorofluoromethane	ND	500
1,1-Dichloroethene	ND	200
1,1-Dichloroethane	ND	500
trans-1,2-Dichloroethene	ND	500
cis-1,2-Dichloroethene	ND	500
Chloroform	ND	500
1,2-Dichloroethane	ND	200
2-Butanone	ND	500
1,1,1-Trichloroethane	ND	500
Carbon Tetrachloride	ND	200
Bromodichloromethane	ND	100
1,2-Dichloropropane	ND	100
cis-1,3-Dichloropropene	ND	500
Trichloroethene	ND	100
Dibromochloromethane	ND	500
1,1,2-Trichloroethane	ND	300
Benzene	ND	100
trans-1,3-Dichloropropene	ND	500
2-Chloroethyl Vinyl Ether	ND	500
Bromoform	ND	400
4-Methyl-2-Pentanone	ND	500
2-Hexanone	ND	500
Tetrachloroethene	ND	100
1,1,2,2-Tetrachloroethane	ND	100
Toluene	ND	500
Chlorobenzene	ND	500
Ethylbenzene	ND	400

Client ID: KV038
Site:

Lab Sample No: KV038
Lab Job No: T389

Date Sampled: _____
Date Received: _____
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k23586.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

Parameter	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Styrene	ND	500
Xylene (Total)	ND	500
Ethyl Ether	ND	500
Acrolein	ND	10000
Freon TF	ND	500
Isopropanol	ND	50000
Acetonitrile	ND	10000
TBA	ND	10000
Acrylonitrile	ND	5000
MTBE	ND	500
Hexane	ND	500
DIPE	ND	500
Ethyl Acetate	ND	1000
Vinyl Acetate	ND	500
Tetrahydrofuran	ND	500
Cyclohexane	ND	500
Isobutanol	ND	50000
Isopropyl Acetate	ND	1000
n-Heptane	ND	500
n-Butanol	ND	50000
Propyl Acetate	ND	1000
Butyl Acetate	ND	1000
1,2-Dibromoethane	ND	500
1,3-Dichlorobenzene	ND	500
1,4-Dichlorobenzene	ND	500
1,2-Dichlorobenzene	ND	500
Naphthalene	ND	500
Methylnaphthalene (total)	ND	500
Dimethylnaphthalene (total)	ND	500
Dichlorodifluoromethane	ND	500
1,1-Dichloropropene	ND	500
1,2,4-Trichlorobenzene	ND	500
Hexachlorobutadiene	ND	500
1,4-Dioxane	ND	100000

Client ID: KV038
Site:

Lab Sample No: KV038
Lab Job No: T389

Date Sampled: _____
Date Received: _____
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k23586.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
Methyl Acrylate	ND	500
1,1,1,2-Tetrachloroethane	ND	500
1,2,3-Trichlorobenzene	ND	500
1,2,3-Trichloropropane	ND	500
1,2,4-Trimethylbenzene	ND	500
1,2-Dibromo-3-chloropropane	ND	500
1,3,5-Trimethylbenzene	ND	500
1,3-Dichloropropane	ND	500
2,2-Dichloropropane	ND	500
2-Chlorotoluene	ND	500
4-Chlorotoluene	ND	500
Bromobenzene	ND	500
Bromochloromethane	ND	500
Dibromomethane	ND	500
Isopropylbenzene	ND	500
n-Butylbenzene	ND	500
n-Propylbenzene	ND	500
p-Isopropyltoluene	ND	500
sec-Butylbenzene	ND	500
tert-Butylbenzene	ND	500
Allyl chloride	ND	500
Benzyl chloride	ND	500
Epichlorohydrin	ND	10000
Isoprene	ND	500
Methyl methacrylate	ND	500
n-Pentane	ND	500
Allyl alcohol	ND	100000
2-Octanol	ND	1000
2-Octanone	ND	500
Ethyl Acrylate	ND	500
Butyl Acrylate	ND	500
Butyl Methacrylate	ND	500
Ethyl methacrylate	ND	500
Ethanol	ND	50000

Client ID: KV038
Site:

Lab Sample No: KV038
Lab Job No: T389

Date Sampled: _____
Date Received: _____
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k23586.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
Methyl Acetate	ND	500
Methyl Cyclohexane	ND	500
Cyclohexanone	ND	10000
p-Ethyltoluene	ND	500
1,4-Diethylbenzene	ND	500
1,2,4,5-Tetramethylbenzene	ND	500
Propylene Oxide	ND	5000
Camphene (total)	ND	2000
Camphor	ND	2000
Amyl Acetate	ND	1000
2-Methylnaphthalene	ND	500
1-Chlorohexane	ND	500

Client ID: KV038
Site:

Lab Sample No: KV038
Lab Job No: T389

Date Sampled: _____
Date Received: _____
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS9.i
Lab File ID: k23586.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
=====	=====	=====	=====
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
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TOTAL ESTIMATED CONCENTRATION

0.0

VOLATILE METHOD BLANK SUMMARY

LAB SAMPLE NO.

BBV038M

Matrix: SOIL

Date Analyzed: 02/07/02

Level: HIGH

Time Analyzed: 1021

Lab File ID: BB48728

Heated Purge (Y/N) N

Instrument ID: VOAMS10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT ID.	LAB SAMPLE NO	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	TESTPIT4-2.5	331067	BB48729	1107
02				
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COMMENTS:

Client ID: BBV038M
Site:

Lab Sample No: BBV038M
Lab Job No: T389

Date Sampled: _____
Date Received: _____
Date Analyzed: 02/07/02
GC Column: DB624
Instrument ID: VOAMS10.i
Lab File ID: bb48728.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u> Units: ug/kg (Dry Weight)	<u>Quantitation</u> Limit Units: ug/kg
Chloromethane	ND	500
Bromomethane	ND	500
Vinyl Chloride	ND	500
Chloroethane	ND	500
Methylene Chloride	ND	300
Acetone	ND	500
Carbon Disulfide	ND	500
Trichlorofluoromethane	ND	500
1,1-Dichloroethene	ND	200
1,1-Dichloroethane	ND	500
trans-1,2-Dichloroethene	ND	500
cis-1,2-Dichloroethene	ND	500
Chloroform	ND	500
1,2-Dichloroethane	ND	200
2-Butanone	ND	500
1,1,1-Trichloroethane	ND	500
Carbon Tetrachloride	ND	200
Bromodichloromethane	ND	100
1,2-Dichloropropane	ND	100
cis-1,3-Dichloropropene	ND	500
Trichloroethene	ND	100
Dibromochloromethane	ND	500
1,1,2-Trichloroethane	ND	300
Benzene	ND	100
trans-1,3-Dichloropropene	ND	500
2-Chloroethyl Vinyl Ether	ND	500
Bromoform	ND	400
4-Methyl-2-Pentanone	ND	500
2-Hexanone	ND	500
Tetrachloroethene	ND	100
1,1,2,2-Tetrachloroethane	ND	100
Toluene	ND	500
Chlorobenzene	ND	500
Ethylbenzene	ND	400

Client ID: BBV038M
Site:

Lab Sample No: BBV038M
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Lab File ID: bb48728.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u> <u>Units: ug/kg</u> <u>(Dry Weight)</u>	<u>Quantitation</u> <u>Limit</u> <u>Units: ug/kg</u>
Styrene	ND	500
Xylene (Total)	ND	500
Ethyl Ether	ND	500
Acrolein	ND	10000
Freon TF	ND	500
Isopropanol	ND	50000
Acetonitrile	ND	10000
TBA	ND	10000
Acrylonitrile	ND	5000
MTBE	ND	500
Hexane	ND	500
DIPE	ND	500
Ethyl Acetate	ND	1000
Vinyl Acetate	ND	500
Tetrahydrofuran	ND	500
Cyclohexane	ND	500
Isobutanol	ND	50000
Isopropyl Acetate	ND	1000
n-Heptane	ND	500
n-Butanol	ND	50000
Propyl Acetate	ND	1000
Butyl Acetate	ND	1000
1,2-Dibromoethane	ND	500
1,3-Dichlorobenzene	ND	500
1,4-Dichlorobenzene	ND	500
1,2-Dichlorobenzene	ND	500
Naphthalene	ND	500
Methylnaphthalene (total)	ND	500
Dimethylnaphthalene (total)	ND	500
Dichlorodifluoromethane	ND	500
1,1-Dichloropropene	ND	500
1,2,4-Trichlorobenzene	ND	500
Hexachlorobutadiene	ND	500
1,4-Dioxane	ND	100000

Client ID: BBV038M
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Lab File ID: bb48728.d

Matrix: SOIL
Level: HIGH
Sample Weight: 5.0 g
Methanol Ext. Volume: 10.0 ml
Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	Analytical Results	Quantitation
	Units: ug/kg (Dry Weight)	Limit Units: ug/kg
Methyl Acrylate	ND	500
1,1,1,2-Tetrachloroethane	ND	500
1,2,3-Trichlorobenzene	ND	500
1,2,3-Trichloropropane	ND	500
1,2,4-Trimethylbenzene	ND	500
1,2-Dibromo-3-chloropropane	ND	500
1,3,5-Trimethylbenzene	ND	500
1,3-Dichloropropane	ND	500
2,2-Dichloropropane	ND	500
2-Chlorotoluene	ND	500
4-Chlorotoluene	ND	500
Bromobenzene	ND	500
Bromochloromethane	ND	500
Dibromomethane	ND	500
Isopropylbenzene	ND	500
n-Butylbenzene	ND	500
n-Propylbenzene	ND	500
p-Isopropyltoluene	ND	500
sec-Butylbenzene	ND	500
tert-Butylbenzene	ND	500
Allyl chloride	ND	500
Benzyl chloride	ND	500
Epichlorohydrin	ND	10000
Isoprene	ND	500
Methyl methacrylate	ND	500
n-Pentane	ND	500
Allyl alcohol	ND	100000
2-Octanol	ND	1000
2-Octanone	ND	500
Ethyl Acrylate	ND	500
Butyl Acrylate	ND	500
Butyl Methacrylate	ND	500
Ethyl methacrylate	ND	500
Ethanol	ND	50000

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Ext. Dilution Factor: 50.0
% Moisture: 0

VOLATILE ORGANICS - GC/MS (cont'd)
METHOD 8260B

<u>Parameter</u>	<u>Analytical Results</u> Units: ug/kg (Dry Weight)	<u>Quantitation</u> Limit Units: ug/kg
Methyl Acetate	ND	500
Methyl Cyclohexane	ND	500
Cyclohexanone	ND	10000
p-Ethyltoluene	ND	500
1,4-Diethylbenzene	ND	500
1,2,4,5-Tetramethylbenzene	ND	500
Propylene Oxide	ND	5000
Camphene (total)	ND	2000
Camphor	ND	2000
Amyl Acetate	ND	1000
2-Methylnaphthalene	ND	500
1-Chlorohexane	ND	500
a-Methylstyrene	ND	500

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% Moisture: 0.0

VOLATILE ORGANICS - GC/MS
TENTATIVELY IDENTIFIED COMPOUNDS
METHOD 8260B

COMPOUND NAME	RT	EST. CONC. ug/kg	Q
1. NO VOLATILE ORGANIC COMPOUNDS FOUND			
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TOTAL ESTIMATED CONCENTRATION

0.0