

SCANNED



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

JK

**COMPREHENSIVE RESPONSE ACTION TRANSMITTAL
FORM & PHASE I COMPLETION STATEMENT**

Release Tracking Number

3 - 518

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

A. SITE LOCATION:

1. Site Name: **GENERAL ELECTRIC CO FMR**
2. Street Address: **50 FORDHAM RD**
3. City/Town: **WILMINGTON**
4. ZIP Code: **01887-0000**
5. UTM Coordinates: a. UTM N: **4714246** b. UTM E: **324657**
- ☒ 6. Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.
- ☒ a. Tier IA ☐ b. Tier IB ☐ c. Tier IC ☐ d. Tier II
7. If applicable, provide the Permit Number: **83052**

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DEP
NORTHEAST REGIONAL OFFICE

B. THIS FORM IS BEING USED TO: (check all that apply)

- ☐ 1. Submit a **Phase I Completion Statement**, pursuant to 310 CMR 40.0484.
- ☐ 2. Submit a **Revised Phase I Completion Statement**, pursuant to 310 CMR 40.0484.
- ☐ 3. Submit a **Phase II Scope of Work**, pursuant to 310 CMR 40.0834.
- ☐ 4. Submit an **interim Phase II Report**. This report does not satisfy the response action deadline requirements in 310 CMR 40.0500.
- ☐ 5. Submit a **final Phase II Report and Completion Statement**, pursuant to 310 CMR 40.0836.
- ☐ 6. Submit a **Revised Phase II Report and Completion Statement**, pursuant to 310 CMR 40.0836.
- ☐ 7. Submit a **Phase III Remedial Action Plan and Completion Statement**, pursuant to 310 CMR 40.0862.
- ☐ 8. Submit a **Revised Phase III Remedial Action Plan and Completion Statement**, pursuant to 310 CMR 40.0862.
- ☐ 9. Submit a **Phase IV Remedy Implementation Plan**, pursuant to 310 CMR 40.0874.
- ☐ 10. Submit a **Modified Phase IV Remedy Implementation Plan**, pursuant to 310 CMR 40.0874.
- ☐ 11. Submit an **As-Built Construction Report**, pursuant to 310 CMR 40.0875.
- ☐ 12. Submit a **Phase IV Status Report**, pursuant to 310 CMR 40.0877.
- ☐ 13. Submit a **Phase IV Completion Statement**, pursuant to 310 CMR 40.0878 and 40.0879.

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Specify the outcome of Phase IV activities: (check one)

- ☐ a. Phase V Operation, Maintenance or Monitoring of the Comprehensive Remedial Action Plan is necessary to ensure the integrity of the Response Action Outcome.
- ☐ b. The requirements of a Class A Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.
- ☐ c. The requirements of a Class C Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.
- ☐ d. The requirements of a Class C Response Action Outcome have been met. Further Operation, Maintenance or Monitoring of the remedial action is necessary to ensure that conditions are maintained and that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

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(All sections of this transmittal form must be filled out unless otherwise noted above)



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Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

B. THIS FORM IS BEING USED TO (cont.): (check all that apply)

- ☐ 14. Submit a **Revised Phase IV Completion Statement**, pursuant to 310 CMR 40.0878 and 40.0879.
- ☒ 15. Submit a **Phase V Status Report**, pursuant to 310 CMR 40.0892.
- ☐ 16. Submit a **Remedial Monitoring Report**. (This report can only be submitted through eDEP.)
- a. Type of Report: (check one) ☐ i. Initial Report ☐ ii. Interim Report ☐ iii. Final Report
- b. Frequency of Submittal: (check all that apply)
- ☐ i. A Remedial Monitoring Report(s) submitted monthly to address an Imminent Hazard.
- ☐ ii. A Remedial Monitoring Report(s) submitted monthly to address a Condition of Substantial Release Migration.
- ☐ iii. A Remedial Monitoring Report(s) submitted concurrent with a Status Report.
- c. Status of Site: (check one) ☐ i. Phase V ☐ ii. Remedy Operation Status ☐ iii. Class C RAO
- d. Number of Remedial Systems and/or Monitoring Programs:

A separate BWSC108A, CRA Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.

- ☐ 17. Submit a **Remedy Operation Status**, pursuant to 310 CMR 40.0893.
- ☐ 18. Submit a **Status Report to maintain a Remedy Operation Status**, pursuant to 310 CMR 40.0893(2).
- ☐ 19. Submit a **Modification of a Remedy Operation Status**, pursuant to 310 CMR 40.0893(5).
- ☐ 20. Submit a **Termination of a Remedy Operation Status**, pursuant to 310 CMR 40.0893(6).
- ☐ 21. Submit a **Phase V Completion Statement**, pursuant to 310 CMR 40.0894.

Specify the outcome of Phase V activities: (check one)

- ☐ a. The requirements of a Class A Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement (BWSC104) will be submitted to DEP.
- ☐ b. The requirements of a Class C Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.
- ☐ c. The requirements of a Class C Response Action Outcome have been met. Further Operation, Maintenance or Monitoring of the remedial action is necessary to ensure that conditions are maintained and/or that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

- ☐ 22. Submit a **Revised Phase V Completion Statement**, pursuant to 310 CMR 40.0894.
- ☐ 23. Submit a **Post-Class C Response Action Outcome Status Report**, pursuant to 310 CMR 40.0898.

(All sections of this transmittal form must be filled out unless otherwise noted above)



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Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

C. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> if Section B indicates that a **Phase I, Phase II, Phase III, Phase IV or Phase V Completion Statement** is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B indicates that a **Phase II Scope of Work** or a **Phase IV Remedy Implementation Plan** is being submitted, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> if Section B indicates that an **As-Built Construction Report**, a **Remedy Operation Status**, a **Phase IV, Phase V or Post-Class C RAO Status Report**, a **Status Report to Maintain a Remedy Operation Status** and/or a **Remedial Monitoring Report** is being submitted, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: 7109

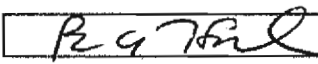
2. First Name: BRUCE A

3. Last Name: HOSKINS

4. Telephone: (978) 683-0891

5. Ext.:

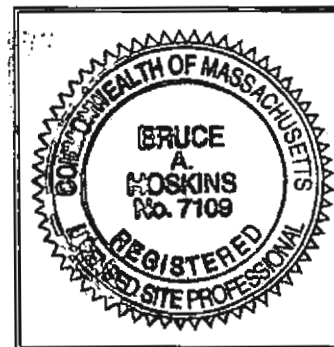
6. FAX:

7. Signature: 

8. Date: 01/19/2007

(mm/dd/yyyy)

9. LSP Stamp:





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Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

D. PERSON UNDERTAKING RESPONSE ACTIONS:

1. Check all that apply: ☐ a. change in contact name ☒ b. change of address ☐ c. change in the person undertaking response actions
2. Name of Organization: **TRC ENVIRONMENTAL CORPORATION**
3. Contact First Name: **JOSEPH** 4. Last Name: **YEASTED**
5. Street: **WANNALANCIT MILLS, 650 SUFFOLK STREET** 6. Title: **VICE PRESIDENT**
7. City/Town: **LOWELL** 8. State: **MA** 9. ZIP Code: **01854-0000**
10. Telephone: **(978) 970-5600** 11. Ext.: 12. FAX: **(978) 453-1995**

E. RELATIONSHIP TO SITE OF PERSON UNDERTAKING RESPONSE ACTIONS:

- ☒ 1. RP or PRP ☐ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter
- ☒ e. Other RP or PRP Specify: **OTHER LEGALLY RESPONSIBLE PARTY**
- ☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)
- ☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))
- ☐ 4. Any Other Person Undertaking Response Actions Specify Relationship:

F. REQUIRED ATTACHMENT AND SUBMITTALS:

- ☐ 1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.
- ☒ 2. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of any Phase Reports to DEP:
- ☐ 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase III Remedial Action Plan.
- ☐ 4. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase IV Remedy Implementation Plan.
- ☐ 5. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of any field work involving the implementation of a Phase IV Remedial Action.
- ☐ 6. If submitting a Modification of a Remedy Operation Status, check here to certify that a statement detailing the compliance history, as per 310 CMR 40.0893(5), for the person making this submittal is attached.
- ☐ 7. If submitting a Modification of a Remedy Operation Status, check here to certify that written consent of the person who submitted the Remedy Operation Status submittal, as per 310 CMR 40.0893(5), is attached.
- ☐ 8. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Name. Send corrections to the DEP Regional Office.
- ☒ 9. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.



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G. CERTIFICATION OF PERSON UNDERTAKING RESPONSE ACTIONS:

1. I, **JOSEPH YEASTED**, attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

2. By: Joseph Yeasted
Signature

3. Title: **VICE PRESIDENT**

4. For: **TRC ENVIRONMENTAL CORPORATION**

(Name of person or entity recorded in Section D)

5. Date: **1/19/07**
(mm/dd/yyyy)

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section D.

7. Street:

8. City/Town:

9. State:

10. ZIP Code:

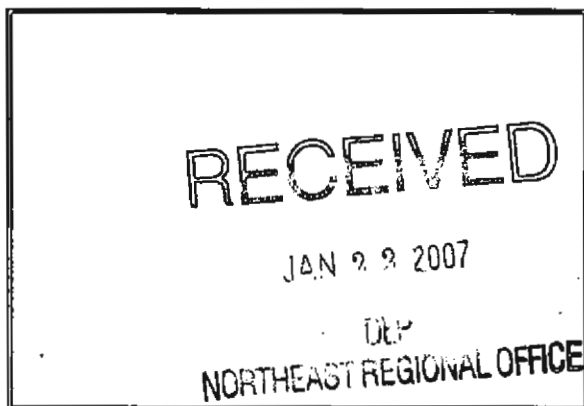
11. Telephone:

12. Ext.:

13. FAX:

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO \$10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)



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TRC Reference Number: E9202-9404-09400

January 19, 2007

Ms Anna Mayor
Project Manager
Bureau of Waste Site Cleanup
Massachusetts Department of Environmental Protection
205B Lowell Street
Wilmington, Massachusetts 01887

Subject: Phase V Operations, Maintenance, and Monitoring Report –
Tank K Area;
Groundwater Source Control Area

Reference Site: Former GE Facility (RTN# 3-0518)
Wilmington, Massachusetts

Dear Ms Mayor:

Enclosed please find a copy of the above referenced report for the Former GE Facility (RTN# 3-0518), located on 50 Fordham Road in Wilmington, Massachusetts.

Should you have any questions or comments, please feel free to call our office.

Sincerely,

Kenneth Cormier, P.G., CHMM
Senior Environmental Geologist

Paola E. Macchiaroli, Ph.D.
Senior Project Manager

Enclosure

cc: Bruce Hoskins, LSP, Nobis Engineering
Paul Calligan, Lockheed Martin Corporation
Frank Dardeno, Sr., Wilmington Realty Trust
Frank Bomba, Wilmington Realty Trust (w/o enclosure)
Alan Shafner, Ametek Aerospace, Inc.
Reading Town Library Repository
Gina Snyder, Key PIP Petitioner (w/o enclosure)

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Phase V Operations, Maintenance, and Monitoring Report

Tank K Area, November 2005 – May 2006

Groundwater Source Control Area, October 2005 – May 2006

**Former GE Facility (RTN# 3-0518)
Wilmington, Massachusetts**

Submitted to:

**Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup
205B Lowell Street
Wilmington, Massachusetts 01887**

Prepared by:

**TRC Environmental Corporation
650 Suffolk Street
Lowell, Massachusetts 01854**

TRC Project No.: E9202-9404-09400

January 2007

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- 1-2 Summary of Groundwater Sampling Results - VOCs
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- 2-1 Tank K SVE System Maintenance Monitoring
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- 1-1 Site Location Map
- 1-2 Approximate Limits of Monitoring Program Areas
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- 2-1 Tank K Remediation System Layout

- 3-1 Groundwater Source Control – Remedial System Layout
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APPENDICES

- A Groundwater Sampling Field Forms
- B Laboratory Reports and Data Validation
- C Tank K- Field Monitoring Forms
- D Groundwater Source Control Area - Field Monitoring Forms

EXECUTIVE SUMMARY

The following report presents results for the on-going monitoring programs at the former General Electric (GE) facility site (Site), release tracking number (RTN) 3-0518, located at 50 Fordham Road in Wilmington, Massachusetts. The program areas presented herein include:

- Phase V Operations, Maintenance and Monitoring (OM&M), Tank K Area, monitoring period November 2005 – May 2006.
- Phase V OM& M, Groundwater Source Control Area, monitoring period October 2005 – May 2006.

Tank K

As presented in the previous OM&M Report, TRC observed a trend of decreasing and/or stabilized contaminant levels in groundwater from the end of 2001 through March 2005 and planned to evaluate options for the final phase of Soil Vapor Extraction (SVE)/Biosparging System operations. The result of that evaluation resulted in TRC modifying the system operation, to a cycling schedule.

On June 17, 2005, TRC began a rotating cycling schedule (approximately every two weeks) as follows:

- Turn System Off.
- Turn Laterals A & B On.
- Turn System Off.
- Turn Laterals A & C On.
- Repeat.

All other system operations have not changed.

All related groundwater contaminants are currently below MCP GW-1 and GW-2 standards at the system monitoring wells except at well WE-09, a well located in the center of the original plume.

At well WE-09, contaminant levels were below MCP GW-1 & GW-2 standards prior to system cycling. In September 2005, benzene and the VPH fractions C9-C10 aromatics and the C5-C8 aliphatics were observed above their respective MCP GW-1 standard. Now, all related contaminants are again below the GW-1 & GW-2 standards, with exception to the VPH fraction C9-C10 aliphatics, which is above the MCP GW-1 standard of 200 µg/L, at 648 µg/L.

System cycling appears to have been effective. TRC will continue to operate the treatment system in the cycling mode, and will re-evaluate possible system modifications and/or a shutdown.

TRC will continue the Tank K Area OM&M Program as outlined herein.

Groundwater Source Control

TRC installed a groundwater "source control" system for the removal of CVOCs in bedrock. The pump and treat system extracts groundwater from well TRC-202R, and transfers the water to a treatment shed where an air stripper and carbon filtration system removes the CVOCs from the water to meet drinking water standards. The water is then discharged to a storm drain under a NPDES permit. As of May 2006, a total of 2,623,782 gallons of groundwater has been pumped and treated in the system, removing an estimated 111.95 pounds of contaminants of concern.

During this reporting period, contaminant concentrations in well TRC-202R have continued to be variable month to month. In general, contaminant concentrations were higher than the previous reporting period, with total VOC concentrations last observed at 7,193 µg/L (May 2006). Concentrations of primary contaminants of concern at the end of the monitoring period were as follows:

- Trichloroethene at 4,300 µg/L.
- Tetrachloroethene at 2,700 µg/L.

Analysis of the quarterly sampling results from the 11 shallow and deep bedrock Source Control monitoring wells (listed on Table 1-1) indicates that the groundwater contaminant levels were similar or slightly decreasing in both shallow and deep bedrock, except at well IP-02R3, which increased slightly since the last groundwater sampling event (September 2005). Groundwater quality at the Source Control monitoring wells does not meet MCP GW-1 and GW-2 standards.

TRC will continue the Source Control Area OM&M Program as outlined herein. The next report on the Groundwater Source Control system will be submitted following validation of the data collected during the November 2006 groundwater sampling event.

1.0 INTRODUCTION

The following report presents results for the on-going monitoring programs at the former General Electric (GE) facility site (Site), Release Tracking Number (RTN) 3-0518, located at 50 Fordham Road in Wilmington, Massachusetts (Figure 1-1). The program areas presented herein include:

- Phase V Operations, Maintenance and Monitoring (OM&M), Tank K Area, monitoring period November 2005 – May 2006.
- Phase V OM& M, Groundwater Source Control Area, monitoring period October 2005 – May 2006.

For ease of review, each monitoring program is presented in a stand-alone section. However, the maps and other supporting documentation present comprehensive site-wide conditions (i.e., all data are compiled). The approximate limits of the on-going groundwater monitoring programs are provided in Figure 1-2. A detailed map showing all monitoring well locations is provided in Figure 1-3.

1.1 Reporting Requirements

This report was completed in accordance with the following:

General Regulations

- 310 CMR 40.892 (Phase V Inspection and Monitoring Reports) of the Massachusetts Contingency Plan (MCP);

Tank K

- *Phase IV As-Built Construction and Completion Report, Tank K*, dated March 2001; and,
- MA DEP *Conditional Approval of Tank K Area Phase IV As-Built Construction and Completion Report* letter, dated June 11, 2001.

Groundwater Source Control

- *Phase IV As-Built Construction and Final Inspection Report, Groundwater*, dated September 2003.

1.2 Summary of Monitoring Activities

The Site is currently undergoing extensive groundwater monitoring via the Phase V monitoring programs for: 1) Tank K Area, 2) Groundwater Source Control Area, 3) EPL Area, and 4) Long Term Groundwater Monitoring Program. The following report presents the semi-annual results for the Tank K Area and the Groundwater Source Control Area.

These programs, that together represent the site-wide monitoring efforts, are summarized in Table 1-1 and depicted on Figure 1-2. Site-wide groundwater monitoring results are presented in Tables 1-2 and 1-3.

All supporting documentation related to the groundwater monitoring and sampling efforts, including the Groundwater Sampling Field Forms, and Laboratory Reports with TRC's Data Validation Summary are provided in Appendix A and Appendix B, respectively.

TANK K AREA

Contaminant of Concern: Gasoline-related petroleum hydrocarbons

Description of Area: TRC installed a Soil Vapor Extraction (SVE)/Biosparging System to address the VOCs dissolved in groundwater and adsorbed to the subsurface soil. Since system startup in February 2001, the SVE/Biosparging system undergoes monthly system maintenance and monitoring, quarterly system performance monitoring, and semi-annual sampling of monitoring wells. Periodically, sparge points are replaced as part of the on-going OM&M to optimize air delivery to the subsurface. Starting in June 2005, a cycling schedule was implemented to extend the useful lifespan and effectiveness of the system.



2.0 PHASE V OPERATIONS, MAINTENANCE AND MONITORING (OM&M) PROGRAM- TANK K AREA

The Tank K System began startup operations in February 2001. The Tank K Area Phase V Operations, Maintenance and Monitoring (OM&M) program is performed in accordance with the MA DEP conditional approval letter dated June 11, 2001 for the *Tank K Area Phase IV As-Built Construction and Completion Report*. The OM&M program consists of systems maintenance monitoring, system performance monitoring and groundwater monitoring.

The Phase V OM&M Program for the Tank K Area consists of the following:

PHASE V OM&M PROGRAM- TANK K AREA	
I. System maintenance monitoring - Monthly	- Remote monitoring of the system to ensure that it is operational. - Site visits to inspect the treatment system equipment, performing and documenting repairs as needed. - Document the removal of VOCs from the SVE carbon canister air effluent.
II. System performance monitoring - Semi-annual	- Measure groundwater quality parameters (temperature, pH, ORP, DO and water level) in the core of the groundwater plume at wells WE-4S, WE-7, WE-8, WE-9 and TRC-106. - Measure groundwater elevation at one downgradient plume location (well WE-4S) to evaluate the efficiency of the air injection system and possible mounding effects.
III. Groundwater monitoring - Semi annual	Measure water levels and sample for VPH per MA DEP methods at wells WE-4S, WE-7, WE-8, WE-9, TRC-104 and TRC-106.

The location of the Tank K Area monitoring wells is provided on Figure 1-3. The Tank K Biosparging/SVE system layout is depicted in Figure 2-1.

2.1 Significant Modifications

TRC observed a trend of decreasing and/or stabilized contaminant levels in groundwater in the Tank K groundwater monitoring wells from late 2001 through March 2005. At that time, TRC elected to modify the system operation, to a cycling schedule.

On June 17, 2005, TRC began a rotating cycling schedule (approximately every two weeks) as follows:

- Turn System Off.
- Turn Laterals A & B On.
- Turn System Off.
- Turn Laterals A & C On.
- Repeat.

All other system operations have not changed.

2.2 Operations, Maintenance and Monitoring

The main systems of the SVE/Biosparge system include.

Biosparging points - installed to a depth of approximately 15 feet (10 feet immediately adjacent to the GSI building). Each air injection point is connected to the positive displacement pressure blower in the remedial equipment building.

SVE System - horizontal laterals are installed in a trench along the rows of injection points, approximately 1 foot below the grade. Each extraction line is connected to a manifold in the remedial system building. Control valves, vacuum gauges, and sampling ports are installed on each extraction line to allow individual control.

Regenerative Blower - the vacuum source for the SVE component.

GAC system - the air treatment device to treat the soil gas before discharging it into the atmosphere.

2.2.1 System Maintenance Monitoring

During this reporting period the system functioned continuously. Normal system maintenance was completed.

TANK K SYSTEM - DEACTIVATION AND CORRECTIVE ACTION		
Dates Impacted	System Malfunction	Corrective Action
None	None	None

Biosparging System

The primary operational parameters of the biosparging system that are monitored include:

- Injection airflow (target operating range above 1.65 SCFM);
- Pressure at the individual sparge points (target operating range between 5 and 9 psi); and,
- The water level at well WE-4S (to document possible groundwater mounding).

No groundwater mounding has been observed at WE-4S as a result of sparge point operation.

A summary of sparge point replacements completed during the life of the system is as follows:

Date	Sparge Point Replaced
December 2002	A-1, B-2, B-3, C-1, C-5, C-6
December 2003	A-2, A-3, B-4, B-5, C-3

SVE System

The primary operational parameters of the SVE system that are monitored include:

- Vapor concentration at each SVE lateral;
- Vapor concentration at the Granular Activated Carbon unit (GAC) inlet, GAC midstream and GAC outlet;
- Vacuum levels at each SVE lateral, the knockout tank inlet and outlet, and the blower outlet; and,
- Compressed air temperature at blower outlet/cooling loop inlet and after the cooling loop.

All SVE operational parameters were acceptable during this monitoring period. Except for a 2.2 part per million by volume (ppmv) reading at the influent GAC in December 2005, VOC field analysis at the influent, midpoint, and effluent of the GAC unit indicates no VOCs, to a measured concentrations of 1 ppmv, during this monitoring period.

The system maintenance monitoring data is summarized in Table 2-1. In addition, the Tank K Field Monitoring Forms are provided in Appendix C.

2.2.2 System Performance Monitoring

The system performance is evaluated via in-field measurements of groundwater parameters including depth to water, oxidation/reduction potential (ORP), dissolved oxygen (DO), temperature, and pH at each well point.

The system performance data (i.e. In-Field Groundwater Monitoring Data) is presented in Table 2-2.

2.2.3 Groundwater Monitoring Results

Groundwater Elevation Data

Prior to sampling the monitoring wells, groundwater level elevations are measured with an electronic water level meter and recorded to the nearest 0.01 foot in the field logbook. The probe is decontaminated with a soap and water solution, followed by a de-ionized water rinse after use at each well. A summary of depths to groundwater during system operations is presented in Table 2-2.

Groundwater Sampling Data

As summarized in Table 1-1, groundwater samples are collected with a peristaltic pump via low-flow sampling techniques in accordance with U.S. Environmental Protection Agency Region I *Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells* (SOP # GW-0001; July 1996).

A multi-meter outfitted with a flow cell was utilized to measure field stabilization parameters (pH, Eh, conductivity, temperature, turbidity, and DO) in groundwater during the collection of low flow samples.

All samples were packed on ice and sent to a Massachusetts-certified laboratory under a chain-of-custody via a laboratory courier for VPH analysis via MA DEP methods.

The groundwater sampling results are presented in Table 1-3. As stated previously, TRC began cycling the treatment system in June 2005. Analysis of the groundwater sampling results indicates the following:

- At well TRC-104 (a centrally located downgradient monitoring point), contaminant levels have been below MCP GW-1 and GW-2 standards since September 2002.
- At well TRC-106 (centrally located in the groundwater plume, near the former Tank K), contaminant levels were below MCP GW-1 & GW-2 standards for three consecutive sampling events prior to system cycling. In September 2005, benzene and the VPH fraction C9-C10 aromatics increased to levels above each respective MCP GW-1 standard. Now, all related contaminants are below the MCP GW-1 and GW-2 standards.
- At well WE-4S, (a well located in the downgradient portion of the groundwater plume), contaminants were below MCP GW-1 & GW-2 standards prior to system cycling, except the VPH fraction C9-C10 aromatics, which were above the GW-1 standard. In September 2005, benzene and the VPH fraction C9-C10 aromatics were observed above MCP GW-1 standards. Now, all related contaminants are below the GW-1 and GW-2 standards.
- At well WE-07 (a well located on the northern/ cross-gradient plume boundary), contaminant levels have been below MCP GW-1 & GW-2 standards since September 2002.

- At well WE-08 (a well located in the center of the plume), the VPH fraction C9-C10 aromatic was above MCP GW-1 standards prior to system cycling. In September 2005, benzene and the VPH fractions C5-C8 aliphatic and C9-C10 aromatic were above GW-1 standards. Now, all related contaminants are below GW-1 and GW-2 standards.
- At well WE-09 (a well located in the center of the plume), contaminant levels were below MCP GW-1 & GW-2 standards prior to system cycling. In September 2005, benzene and the VPH fractions C9-C10 aromatics and C5-C8 aliphatics were observed above each MCP GW-1 standard. Now, all related contaminants are below the MCP GW-1 & GW-2 standards except the VPH fraction C9-C10 aliphatics, which is above the MCP GW-1 standard (200 µg/L) at 648 µg/L.

All supporting documentation related to the groundwater sampling efforts, including the Groundwater Sampling Field Forms, and Laboratory Reports with TRC's Data Validation Summary are provided in Appendix A and Appendix B, respectively.

2.3 Change in Conditions/Corrective Measures

No change in conditions required corrective measures during this reporting period.

2.4 Continuing Actions

System cycling appears to be effective in re-directing established air channels from the previous four years of operation. TRC will continue to operate the treatment system in the cycling mode at least through the next monitoring period.

TRC will continue the Tank K Area OM&M Program as outlined herein. The next report will follow validation of the data collected during the groundwater sampling event in November 2006.

3.0 PHASE V OPERATIONS, MAINTENANCE AND MONITORING (OM&M) – GROUNDWATER SOURCE CONTROL SYSTEM

The Groundwater Source Control OM&M program is performed in accordance with the MA DEP's *Conditional Approval of Phase IV Remedy Implementation Plan - Groundwater*, dated March 12, 2003. The OM&M program consists of systems maintenance monitoring, system performance monitoring and groundwater monitoring.

On September 24, 2003, the system went into fully operational mode.

In general, the Phase V OM&M Program for the Source Control Area includes:

PHASE V OM&M PROGRAM- SOURCE CONTROL AREA	
I. System Operations and Maintenance Monitoring	• Bi-weekly liquid and vapor process systems monitoring. • Bi-weekly vapor monitoring at GAC influent, GAC midstream, and GAC effluent. • Monthly groundwater sampling of system influent, untreated GAC influent, GAC midstream, and treated effluent locations. • Monthly groundwater elevation measurements at the pumping well and vicinity wells impacted by drawdown.
II. Groundwater Monitoring	• Semi-annual groundwater sampling of shallow and deep bedrock wells
III. NPDES Reporting	• Monthly reporting of effluent water quality and removal efficiency of treatment system

The wells designated for the monitoring program are summarized on Table 1-1. The Remedial System General Layout is presented on Figure 3-1. The Remedial Equipment Layout is presented as Figure 3-2. The process and instrumentation diagram (P&ID) is presented as Figure 3-3.

Per the requirements of the Massachusetts Remediation General Permit (No.: MAG910000), TRC submits monthly analytical results for the groundwater remediation discharge system directly to U.S. Environmental Protection Agency in Boston, under separate cover. A summary of the system groundwater sampling results is presented on Table 3-1.

3.1 Significant Modifications

No significant modifications to the program were made during the reporting monitoring period.

3.2 Operations, Maintenance, and Monitoring

The main components of the system are housed in the remedial system equipment building, and include.

Extraction Well and Pump - A submersible pump with built-in variable speed drive is located in TRC-202R. This feature maintains the water level in the well at a pre-set constant level. A submersible pressure transmitter in the well measures the actual water level and a microprocessor in the pump adjusts the speed of the pump to maintain the pre-set water level. Conventional hi/low conductivity level switches are also installed in the well as a back-up system to allow the continued system operation in the event of the pressure transmitter failure.

Air Stripper - Groundwater is initially pumped from the well to the treatment building and a low-profile air stripper to remove the bulk of the VOC contamination. The vapor effluent from the air stripper passes through a series of vapor phase GAC units.

Vapor Granular Activated Carbon System - Two 1,000 lb. vapor phase GAC units (and one additional as a stand-by unit) treat the air stripper effluent prior to discharging to the atmosphere.

Liquid Granular Activated Carbon System - Any trace VOCs remaining in the treated groundwater effluent from the air stripper are removed using two 330 lb. liquid phase GAC units connected in series. Effluent is discharged to the on site storm drain system.

Gauges, Controls, and Valves - A variety of pressure and vacuum gauges, flow meters, sample ports, and valves are present to monitor and control the systems.

3.2.1 System Operations and Maintenance Monitoring

During the reporting period the system has been in continuous operation except for two brief shutdown periods, as described below.

GROUNDWATER SOURCE CONTROL SYSTEM DEACTIVATION AND CORRECTIVE ACTION		
Dates Impacted	System Malfunction	Corrective Action
February 21, 2006 (system down upon arrival)	Clogged flowmeter.	Cleaned flowmeter. System restarted.
March 8-10, 2006	Replaced the communication system. System would not re-start.	System inspection completed. Bad contact. System restarted.
April 4-14, 2006	Pump control box failed.	Replaced control box.
May 14-31, 2006	High level alarm in sump due to extreme multi-day rain event and water infiltration. System would not restart upon emptying the sump due to a low-level alarm in Well TRC-202R.	Troubleshoot system. Pulled the packer and pump from well TRC-202R and found a loose wire. Repaired, replaced equipment and re-started the system.

3.2.2 System Performance Monitoring

System performance monitoring is conducted via a series of system checks.

- Bi-weekly liquid and vapor process systems monitoring.
- Bi-weekly vapor monitoring at GAC influent, GAC midstream, and GAC effluent.
- Monthly groundwater sampling of system influent, untreated GAC influent, GAC midstream, and treated effluent locations.

Tables 3-2 and 3-3 present a summary of system performance monitoring parameters measured in the field. Analysis of the system monitoring parameters indicates the systems are operating within normal ranges.

Table 3-4 summarizes the total cumulative groundwater and contaminants treated in the system. Total gallons treated are continuously recorded. To calculate the contaminants removed for the period, the average contaminant concentration in water between sampling events is multiplied by the total gallons removed for that period. A total of 2,623,782 gallons of groundwater has been pumped and treated in the system, removing an estimated 111.95 pounds of contaminants of concern.

To confirm the results of bi-weekly vapor monitoring with field instruments, influent and effluent air samples were collected in December 2005 with a SUMMA canister. The samples were sent to an offsite laboratory for VOC analysis via EPA method TO-15. An analysis of the influent results indicates the laboratory results (0.9 ppmv on 12/28/05) correlate well to the field photo ionization detector (PID) results (1.2 ppm on 12/25/05). Greater than 95% capture of air borne contaminants continues to be realized and field screening with a PID for bi-weekly monitoring in the field is still appropriate. Table 3-5 presents a summary of the laboratory sample results.

Field forms for system monitoring are presented in Appendix D.

3.2.3 Groundwater Monitoring Results

Groundwater Elevation Data

Prior to sampling the monitoring wells, groundwater level elevations are measured with an electronic water level meter and recorded to the nearest 0.01 foot in the field logbook. The probe is decontaminated with a soap and water solution, followed by a de-ionized water rinse after use at each well. In general, the depth to groundwater ranged from 2.15 feet at BRW-1 to 10.2 in EMW-11R2. The summary of depths to groundwater during system operations is presented in Table 3-3.

Groundwater Sampling Data

As summarized on Table 1-1, groundwater samples are collected using PDB samplers, deployed a minimum of two-weeks prior to sampling.

Each sample was analyzed by a Massachusetts certified laboratory for VOCs via MCP Method 8260B.

A summary of groundwater sampling results from the source control wells is presented on Table 1-2. A summary of the pumping well TRC-202R monitoring results is presented in Table 3-1. A trend analysis of well TRC-202R is presented on Figure 3-4.

During this reporting period, contaminant concentrations in pumping well TRC-202R have continued to be variable month to month. In general, the average contaminant concentrations were higher than the previous reporting period, with total VOC concentrations last observed at 7,193 µg/L (May 2006). Concentrations of primary contaminants of concern at the end of the monitoring period were as follows:

- Trichloroethene at 4,300 µg/L.
- Tetrachloroethene at 2,700 µg/L.

Analysis of the groundwater sampling results from the Source Control monitoring wells indicates the following:

- In Shallow Bedrock, chlorinated VOCs ranged from 339 µg/L in well IP-04R1 to 7,471 µg/L in TRC-401R.
- In Deep Bedrock, chlorinated VOCs ranged from 709 µg/L in BRW-1R4 to 6,180 µg/L in IP-01R2.

Groundwater quality at the Source Control monitoring wells does not meet MCP GW-1 and GW-2 standards. A summary of the sampling results is presented in Table 1-1.

All supporting documentation related to the groundwater sampling efforts, including the Groundwater Sampling Field Forms, and Laboratory Reports with TRC's Data Validation Summary are provided in Appendix A and Appendix B, respectively.

3.3 Changes in Conditions/Corrective Measures

No changes in conditions or corrective measures were required during this reporting period.

3.4 Continuing Actions

TRC will continue the Source Control Area OM&M Program as outlined herein, with the next report to follow validation of the data collected during the groundwater sampling event in November 2006.

TABLES

GROUNDWATER SOURCE CONTROL AREA

Contaminant of Concern:	Dissolved-phase Chlorinated Volatile Organic Compounds (CVOCs)
Description of Area:	TRC installed a groundwater "source control" system for the removal of CVOCs in bedrock. The pump and treat system extracts groundwater from well TRC-202R, and transfers the water to the treatment shed where an air stripper and carbon filtration system removes the CVOCs from the water to meet drinking water standards. The water is then discharged to a storm drain under a NPDES permit. The system was first started on August 15, 2003. As part of the Phase IV Remedy Implementation Plan, an enhanced bioremediation treatability study is underway. Based on the results and final recommendations, the existing system may be expanded to include a bioremediation technology.



Table 1-1
Summary of Groundwater Monitoring Program
Former GE Site, Wilmington, MA

GROUNDWATER SAMPLING											WELL GAUGING
WELL ID	SPECIFICATIONS							FREQUENCY			FREQUENCY
	Overburden/ Bedrock	Analysis	Well Diameter	Screened	Total Depth	Port or PDB	Sampling	Semi-Annual	Annual	Bi-Annual	Monthly
			(inches)	Interval (ft bgs)	(ft)	Centerline (ft)	Method	May-Nov	Nov	Nov (Odd Years)	
Source Control											
BRW-1R2	Shallow Bedrock	VOCs (EPA Method 8260B)	2	46-66	66.19	62	PDB	x			
EMW-11R1			0.75	79-89	89.17	86	PDB _{sd}	x			
TRC-401R-B			0.5	38-58	36.75	45	PDB	x			
IP-2R1			1	17.5 - 38	37.73	33	PDB _{sd}	x			
IP-4R1			2	38-48	48.38	41	PDB	x			
BRW-1R4	Deep Bedrock		2	133-153	152.79	140	PDB	x			
EMW-11R2			0.75	104-114	114.17	111	PDB _{sd}	x			
IP-1R2			2	54-74	74.1	60	PDB	x			
IP-2R3			2	72-92	92.19	87	PDB	x			
IP-3R2			2	64-84	84.23	76	PDB	x			
IP-4R3			2	80-115	115.08	111	PDB	x			
Tank K Area											
TRC-104	Overburden	VPH (MA DEP Method)	1.25	1.-10	10	9	PP/Fz	x			
TRC-106	Overburden		1.25	2.-12	12	9	PP/Fz	x			
WE-4S	Overburden		2	3.-13	13	10	PP/Fz	x			
WE-7	Overburden		1.5	2.-12	12	9	PP/Fz	x			
WE-8	Overburden		4	2.-17	17	13	PP/Fz	x			
WE-9	Overburden		2	2.-12	12	9	PP/Fz	x			
EPL Area											
EMW-11S	Overburden	VPH/ EPH/ PAH SIM (MA DEP Method and 8270C)	2	1.-11	11	8	PP/Fx		None (1)		
GZA-105S	Overburden		1.5	4.-14	14	10	PP/Fx		x		
TRC-101	Overburden		1.25	1.5-10.5	10.5	7	PP/Fx		None (4)		
TRC-102	Overburden		1.25	2.25-12.25	12.25	9	PP/Fx		x		
TRC-103	Overburden		1.25	1.25-11.25	11.25	8	PP/Fx		None (1)		
LTGMP											
GZA-101R	Bedrock	VOCs (EPA Method 8260B)	0.5	36.5-38	38.44	37.5	PP/Fx		x		
GZA-102R2	Bedrock		0.5	25-26.5	29.08	25.5	PP/ Purge _{mod} / Ft		None (1)		
GZA-103R1	Bedrock		0.5	18-19	19	18.5	PP/Fx			x (2)	
GZA-103R2	Bedrock		0.5	28-29	29	28.5	PP/ Purge _{mod} / Ft			x (2)	
GZA-105D	Overburden		1.5	16-26	26	24	PDB _{sd}		x		
EMW-10D	Overburden		2	19-29	29	25	PDB			x	
EMW-10R	Bedrock		2	42-52	52	49	PDB			x	
EMW-11D	Overburden		2	22-32	32	29	PDB			x	
EMW-11R3	Bedrock		0.75	158-168	168	165	PP/Fx/OB			x	
GZA-10	Overburden		1.5	13-38	40.09	18	PDB _{sd}			None (1)	
GZA-14	Overburden		1.5	39-49	51.58	46	PDB _{sd}			x	
GZA-14A	Overburden		1.5	0-15	17.55	10	PDB _{sd}			x	
PS-1S	Overburden		0.62	12.-17	20	18	PP/Fx			(3)	
PS-1M	Overburden		0.62	34.25-39.25	41	38	PP/Fx			(3)	
PS-1D	Overburden		0.62	49.25-54.25	55	53.25	PP/Fx			x	
PS-2M	Overburden		0.62	34-39	41	38.5	PP/ Purge _{mod} / Ft			x	
PS-2D	Overburden		0.62	49.1-54.1	55.2	53	PP/ Purge _{mod} / Ft			x	
PS-5D	Overburden		0.62	24.1-29.1	30.2	28	PP/ Purge _{mod} / Ft			x	
STM-8R	Bedrock		0.75	46.5-51.5	51.5	48	PDB _{sd}			x	
STM-8M	Overburden		0.75	19.5-24.5	24.5	22	PDB _{sd}			x	
STM-8D	Overburden		0.75	34.7-39.7	39.7	37	PDB _{sd}			x	
TRC-301R-C	Bedrock		4	66-172	172	87.5	PDB			x	
W-1	Overburden		2	33.5-38.5	38.5	35.5	PDB			x	
W-2	Overburden		2	15-25	25	22	PDB			x	
MW-4	Overburden		1.5	18-28	30	24	PDB _{sd}			x	
MW-4A	Overburden		1.5	38-48	50	45	PDB _{sd}			x	
MW-5	Overburden		1.5	28-38	40	33	PDB _{sd}			x	
MW-7	Overburden		1.5	15-25	27	22	PDB _{sd}			x	
Gauging Program Only											
PZ-2S.	Overburden	N/A	N/A				N/A				x
CW-1	Overburden		N/A				N/A				x
CW-2	Overburden		N/A				N/A				x

Notes:

Fx = Field measurements of pH, temperature, specific conductivity, dissolved oxygen, turbidity.

Fz = Field measurements of pH, temperature, specific conductivity, dissolved oxygen, turbidity, and oxidation/reduction potential.

Ft = Post sampling measurement for turbidity

PDB = Passive Diffusion Bag

PDB_{sd} = Small Diameter PDB sampler.

PP = Peristaltic Pump

OB = Obstruction at depth prevents use of a PDB.

Purge mod = Modified purge method (one tubing volume of water)

bgs = Below ground surface

N/A = Not applicable

(1)- Removed from sampling program April 2004.

(2)- Annual sampling reduced to bi-annual sampling April 2004.

(3)- Removed from sampling program April 2004; Will be re-sampled once well PS-1D meets MCP GW-1 standards.

Table 1-2
Summary of Groundwater Sampling Results - VOCs
Former GE Site, Wilmington, MA

[illegible]

Notes:

1. Unless otherwise specified, analytical results in micrograms per liter ($\mu\text{g/L}$).
2. " $<$ " denotes analyses not detected at concentrations above the given quantitation limit.
3. "ND" denotes sample not analyzed for the specified analyte.
4. "L" denotes the location was not sampled during the given period.
5. "BOL" denotes all analytes are below given quantitation limits.
6. "ND" denotes sample was obtained using a Passive Diffusion bag sampler from that date forward.
7. "J" Detected below lab quantitation limit, estimated value.

Table 1-2
Summary of Groundwater Sampling Results - VOCs
Former GE Site, Wilmington, MA

[illegible]

Notes:

1. Unless otherwise specified, analytical results in micrograms per Liter ($\mu\text{g/L}$).
2. "ND" denotes analyte was not detected at concentrations above the given quantitation limit.
3. "NA" denotes sample not analyzed for the specified analyte.
4. "—" denotes the location was not sampled during the given period.
5. "TOL" denotes all analytes are below given quantitation limits.
6. "w" Denotes sample was obtained using a passive Diffusion Bag sampler from that date forward.
7. "J" Denotes below lab quantitation limits, estimated value.

8. Groundwater Standards are taken from the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000. Exceedance of applicable Method 1 GW-1 Standard is indicated in bold and shaded type.

9. "ee" denotes MCP Method I GW-1 and GW-2 standards for C9-C10 aromatic hydrocarbons used.

10. "NM" denotes no measurement for that date.

11. B denotes detected in associated laboratory method blank

(3) Groundwater sampling discontinued as well following three consecutive sampling results below MCP GW-1 standards (per MA DEP approval, February 22, 2002).

(2) Estimated values below the estimation limit (10^{-3} values) were not reported for the June 2005 sampling event.

Table 1-2
Summary of Groundwater Sampling Results - VOCs
Former GE Site, Wilmington, MA

[illegible]

Notes: ^a Unit = 1000. ^b Standard is indicated in bold and shaded type. ^c Exceedance of applicable Method 1 GW-1 Standard is indicated in bold and shaded type. ^d Exceedance of applicable Method 1 GW-1 Standard is indicated in bold and shaded type.

10. "NM" denotes no measurement for that date.

11. B denotes detected in associated laboratory method blank.

12. Groundwater sampling discontinued at well following three consecutive sampling results below MCP GW-1 standards (per MA DEP approval, February 22, 2002).

13. Estimated values below the quantitation limit ("T" values) were not reported for the June 2005 sampling event.

Table 1-2
Summary of Groundwater Sampling Results - VOCs
Former GE Site, Wilmington, MA

[illegible]

Notes:

1. Unless otherwise specified, analytical results in micrograms per liter (ug/L).
2. "<" denotes analyte was not detected at concentrations above the given quantitation limit.
3. "NA" denotes sample not analyzed for the specified analyte.
4. "-" denotes the location was not sampled during the given period.
5. "BDL" denotes all analytes are below given quantitation limits.
6. "NA" Denotes sample was obtained using a Passive Diffusion Bag sampler from that date forward.
7. "J" Detected below lab quantitation limit, estimated value.
8. Groundwater Standards are taken from the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000. Exceedance of applicable Method 1 GW-1 Standard is indicated in bold and shaded type.
9. "***" denotes MCP Method 1 GW-1 and GW-2 standards for C9 C10 aromatic hydrocarbons used.
10. "NM" denotes no measurement for that date.
11. B denotes detected in associated laboratory method blank.
12. Groundwater sampling discontinued at well following three consecutive sampling results below MCP GW-1 standards (per MA DEP approval, February 22, 2002)
13. Estimated values below the quantitation limit ("J" values) were not reported for the June 2005 sampling event.

Table 1-2
Summary of Groundwater Sampling Results - VOCs
Former GE Site, Wilmington, MA

[illegible]

Notes:
1. Unless otherwise specified, analytical results in micrograms per liter ($\mu\text{g/L}$).
2. **Exceedance of sensitive Method 1 GW-1 Standard is indicated in bold and shaded type.**
3. Groundwater Standards are taken from the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000. Exceedance of sensitive Method 1 GW-1 Standard is indicated in bold and shaded type.

1. Unless noted, analytical results in micrograms per liter (ug/L).
2. "c" denotes analyte was not detected at concentrations above the given quantitation limit.

3. "NA" denotes sample not analyzed for the specified analyte.

4. "-" denotes the location was not sampled during the given period.

5. TUDL⁺ denotes all analytes are below given quantitation limits.

6. non Denovos sample was obtained using a Passive Diffusion Bag sampler from that date forward.

6. ²¹ Debrex sample was obtained using a FastFlow D10000.
7. ²² Debrex-2 balance job concentration limit, estimated value.

7. ^a Detected below lab quantitation limit; estimated value.

Table 1-2
Summary of Groundwater Sampling Results - VOCs
Former GE Site, Wilmington, MA

[illegible]

Notes:

1. Unless otherwise specified, analytical results in micrograms per Liter ($\mu\text{g/L}$).
2. "ND" denotes not detected at concentrations above the given quantitation limit.
3. "NA" denotes sample not analyzed for the specified analyte.
4. "-" denotes the location was not sampled during the given period.
5. "BDL" denotes all analytes are below given quantitation limits.
6. "-" denotes sample was obtained using a Passive Diffusion Bag sampler from that date forward.
7. "Y" Detected below lab quantitation limit, estimated value.
8. "N" Not detected below lab quantitation limit, estimated value.
9. "ND" denotes not detected at concentrations above the given quantitation limit.
10. "NM" denotes no measurement for that date.
11. "B" denotes detected at associated laboratory method blank.
12. Groundwater sampling discontinued as well following three consecutive sampling results below MCP GW-1 standards (per MA DEP approval, February 22, 2003).
13. Estimated values below the quantitation limit ("Y" values) were not reported for the June 2005 sampling event.

Table 1-2
Summary of Groundwater Sampling Results - VOCs
Former GE Site, Wilmington, MA

[illegible]

Notes

1. Unless otherwise specified, analytical results in micrograms per liter ($\mu\text{g/L}$).
2. "C" denotes analyte was not detected at concentrations above the given quantitation limit.
3. "NA" denotes sample not analyzed for the specified analyte.
4. "-" denotes the location was not sampled during the given period.
5. "BDL" denotes all analyses are below given quantitation limits.
6. "C" denotes the location was not sampled during the given period.
7. "J" Detected below lab quantitation limit, estimated value.
8. Groundwater Standard is taken from the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000. Exceedance of applicable Method 1 GW-1 Standard is indicated in bold and shaded type.
9. "NA" denotes no measurement for that date.
10. "B" denotes detected in associated laboratory method blank.
11. Groundwater sampling discontinued at well following three consecutive sampling results below MCP GW-1 standards (per MA DEP approval, February 22, 2002).
12. Estimated values below the quantitation limit ("J" values) were not reported for the June 2005 sampling event.

Table 1-2
Summary of Groundwater Sampling Results - VOCs
Former GE Site, Wilmington, MA

[illegible]

Notes:

1. Unless otherwise specified, analytical results in micrograms per Liter ($\mu\text{g/L}$).
2. Unless otherwise specified, analytical results are not detected at concentrations above the given quantitation limit.
3. "NA" denotes sample not analyzed for the specified analyte.
4. "-" denotes the location was not sampled during the given period.
5. "BDL" denotes all analytes are below given quantitation limits.
6. "+" Denotes sample was obtained using a Passive Diffusion Bag sampler from that date forward.
7. "-" Denotes below lab quantitation limit, estimated value.

8. Groundwater Standards are taken from the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000. Exceedence of applicable Method J GW-1 Standard is indicated in bold and shaded type.

9. *** denotes MCP Method 1 (GW-1) and GW-2 standards for C9-C10 aromatic hydrocarbons used.
10. "NM" denotes no measurement for that date.
11. B denotes detected in associated laboratory method blank.
11. Groundwater sampling discontinued at well following three consecutive sampling results below MCP GW-1 standards (per MA DEP approval, February 22, 2002).
12. Ferretal values below the quantitation limit ("F" values) were not reported for the June 2005 sampling event.

Table 1-2
Summary of Groundwater Sampling Results - VOCs
Former GE Site, Wilmington, MA

[illegible]

Notes:-

- Note:
1. Unless otherwise specified, analytical results in micrograms per liter (ug/L).
 2. "<" denotes analyte was not detected at concentrations above the given quantitation limit.
 3. "NA" denotes sample not analyzed for the specified analyte.
 4. ">" denotes the location was not sampled during the given period.
 5. "BDL" denotes all analytes are below given quantitation limits.
 6. "NA" denotes sample was obtained using a Passive Diffusion Bag sampler from that date forward.
 7. "D" Denotes below lab's quantitation limit, estimated value.
8. Groundwater Standards are taken from the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000. Exceedance of applicable Method 1 GW-1 Standard is indicated in bold and shaded type.
 9. "NA" denotes MCP Method 1 GW-1 and GW-2 standards for C3-C10 aromatic hydrocarbons used.
 10. "NM" denotes no measurement for that date.
 11. B denotes detected in associated laboratory method blank.
10. Groundwater sampling discontinued at well following three consecutive sampling results below MCP GW-1 standards (per MA DEP approval, February 22, 2002)
- a) - Estimated values below the quantitation limit ("T" values) were not reported for the June 2005 sampling event.

Table 1-2
Summary of Groundwater Sampling Results - VOCs
Former GE Site, Wilmington, MA

[illegible]

Notes:

1. Unless otherwise specified, analytical results in micrograms per liter ($\mu\text{g/L}$).
2. " $<$ " denotes analyte was not detected at concentrations above the given quantitation limit.
3. "NA" denotes sample not analyzed for the specified analyte.
4. " $-$ " denotes the location was not sampled during the given period.
5. "BDL" denotes all analytes are below given quantitation limits.
6. "—" Denotes sample was obtained using a Passive Diffusion Dog sampler from the date for the sample.
7. "J" Denotes below lab quantitation limit, estimated value.

8. Groundwater Standards are taken from the Massachusetts Contingency Plan (MCP) 310 CWR 40,000. Exceedance of applicable Method 1 GW-1 Standard is indicated in bold and shaded type.

9. **** denotes MCP Method 1 GW-1 and GW-2 standards for C9-C10 aromatic hydrocarbons used.

10. "NM" denotes no measurement for that date.

11. B denotes detected in associated laboratory method blank.

(c). Groundwater sampling discontinued at well following three consecutive sampling results below MCP GW-1 standards (per MA DEP approval, February 22, 2002)

(c). Estimated values below the quantitation limit ("*L*" values) were not reported for the June 2005 sampling event.

Table 1-2
Summary of Groundwater Sampling Results - VOCs
Former GE Site, Wilmington, MA

Area Name	Location Name	Screened Interval (feet bgs)	Type of Well	Sample Event Date	Chlorinated VOCs	VOCs																Continued on Next Page																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
						1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2,3-Tetrachloroethane	1,1,3,3-Tetrachloroethane	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4,5-Tetrachlorobenzene	1,2,4,6-Pentachlorobenzene	1,2,4,7-Pentachlorobenzene	1,2,4,8-Pentachlorobenzene	1,2,4,9-Pentachlorobenzene	1,2,4,10-Pentachlorobenzene	1,2,4,11-Pentachlorobenzene	1,2,4,12-Pentachlorobenzene																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Source Control Deep Bedrock	EMW-11R2	104-114	Bedrock	12/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 1-2
Summary of Groundwater Sampling Results - VOCs
Former GE Site, Wilmington, MA

[illegible]

Notes:

1. Unless otherwise specified, analytical results in micrograms per liter ($\mu\text{g/L}$).
2. " $<$ " denotes analyte was not detected at concentrations above the given quantitation limit.
3. "NA" denotes sample not analyzed for the specified analyte.
4. " ^{a} " denotes the location was not sampled during the given period.
5. " ^{b} " denotes detected in associated laboratory method blank.
6. " ^{c} " denotes sample was obtained using a Passive Diffusion Bag sampler from that date forward.
7. " ^{d} " Detected below lab quantitation limit, estimated value.
8. " ^{e} " denotes sample was obtained using a Passive Diffusion Bag sampler from that date forward.
9. " ^{f} " denotes MCP Method 1, GW-1 and GW-2 standards for C8-C10 aromatic hydrocarbons used.
10. "NM" denotes no measurement for that date.
11. B denotes detected in associated laboratory method blank.
12. Groundwater sampling discontinued at well following three consecutive sampling results below MCP GW-1 standards (per MA DEP approval, February 22, 2002).
13. Estimated values below the quantitation limit (" ^{g} " values) were not reported for the June 2005 sampling event.

Table 1-2
Summary of Groundwater Sampling Results - VOCs
Former GE Site, Wilmington, MA

Area Name	Location Name	Screened Interval (feet bgs)	Type of Well	Sample Event Date	Chlorinated VOCs	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2,2,2-Pentachloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloroethene	1,2,3-Trichloroethane	1,2,3-Trichloroethene	1,2,3,4-Tetrachloroethane	1,2,3,4,5-Pentachloroethane	1,2,3,4,5,6-Hexachloroethane	1,2,3,4,5,6,7-Heptachloroethane	1,2,3,4,5,6,7,8-Octachloroethane	1,2,3,4,5,6,7,8,9-Nonachloroethane	1,2,3,4,5,6,7,8,9,10-Decachloroethane	1,2,3,4,5,6,7,8,9,10,11-Undecachloroethane	1,2,3,4,5,6,7,8,9,10,11,12-Dodecachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13-Tridecachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14-Tetradecachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15-Pentadecachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16-Hexadecachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17-Heptadecachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18-Octadecachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19-Nonadecachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20-Eicacosachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21-Henicosachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22-Bicacosachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23-Tricacosachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24-Tetracosachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25-Pentacosachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26-Hexacosachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27-Heptacosachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28-Octacosachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29-Nonacosachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30-Triacontachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31-Triacontachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32-Triacontachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33-Triacontachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34-Triacontachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35-Triacontachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36-Triacontachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37-Triacontachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38-Triacontachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39-Triacontachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40-Triacontachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41-Triacontachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42-Triacontachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43-Triacontachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44-Triacontachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45-Triacontachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46-Triacontachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47-Triacontachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48-Triacontachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49-Triacontachloroethane	1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,2
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Notes:

1. Unless otherwise specified, analytical results in micrograms per liter ($\mu\text{g/L}$).
2. "c" denotes analyte was not detected at concentrations above the given quantitation limit.
3. "NA" denotes sample not analyzed for the specified analyte.
4. "--" denotes the location was not sampled during the given period.
5. "BDL" denotes all analytes are below given quantitation limits.
6. "D" Denotes sample was obtained using a Passive Diffusion Bag sampler from that date forward.
7. "F" Detected below lab quantitation limit, estimated value.
8. Groundwater Standards are taken from the Massachusetts Contingency Plan (MCP) 310-CHAP. 40.0000. Exceedance of applicable Method 1 GW-1 Standard is indicated in bold and shaded type.
9. "NA" denotes MCP Method 1 GW-1 and GW-2 standards for C9-C10 aromatic hydrocarbons used.
10. "NA" denotes no measurement for that date.
11. "B" denotes detected in associated laboratory method blank.
12. Groundwater sampling discontinued at well following three consecutive sampling results below MCP GW-1 standards (per MA DEP approval, February 22, 2002).
13. Estimated values below the quantitation limit ("F" values) were not reported for the June 2005 sampling event.

Table 1-2
Summary of Groundwater Sampling Results - VOCs
Former GE Site, Wilmington, MA

[illegible]

Notes:

1. Unless otherwise specified, analytical results in micrograms per Liter (ug/L).
2. "<" denotes analyte was not detected at concentrations above the given quantitation limit.
3. "NA" denotes sample not analyzed for the specified analyte.
4. "-" denotes the location was not sampled during the given period.
5. "BDL" denotes all analytes are below given quantitation limits.
6. "--" Denotes sample was obtained using a Passive Diffusion Bag sampler from that date forward.
7. "J" Detected below lab. quantitation limit; estimated value.
8. Groundwater Standards are taken from the Massachusetts Contingency Plan (MCP) 3.10.CMR.40.0000. Exceedance of applicable Method 1 GW-1 Standard is indicated in bold and shaded type.
9. "---" denotes MCP Method 1 GW-1 and GW-2 standards for CH-C10 aromatic hydrocarbon used.
10. "NM" denotes no measurement for that date.
11. B denotes detected in associated laboratory method blank.

(1) Groundwater sampling discontinued at well following three consecutive sampling results below MCP GW-1 standards (per MA DEP approval, February 22, 2002)

(2) Estimated values below the quantization limit ("J" values) were not reported for the June 2005 sampling event.

Table 1-2
Summary of Groundwater Sampling Results - VOCs
Former GE Site, Wilmington, MA

Area Name	Location Name	Screened Interval (feet bgs)	Type of Well	Sample Event Date	Chlorinated VOCs		Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,1-1,2-Dichloroethene	1,2-1,3-Dichloropropene	Dibromomethane	Dichlorodifluoromethane	Diisopropyl ether	Ethylbenzene	Heptachlorobenzene	Isopropylbenzene	Methylene chloride	n-Butylbenzene	n-Propylbenzene	sec-Butylbenzene	tert-Butylbenzene	Triethylbenzene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Triethylbenzene	Vinyl chloride	Carbon dioxide	Diethyl ether	Diisopropyl ether	tert-Butyl-methyl ether (TAME)	tert-Butylbenzene	1,4-Dioxane			
					MCP-GW-1 Standard	MCP-GW-2 Standard																															
Eastern Parking Lot	TRC-101	1.5-10.5	Overburden	12/1995	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				12/1997	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				7/1999	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				9/2001	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				9/2002	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				9/2003	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				5/2004	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				6/2004	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				12/2004	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				3/2005	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				6/2005	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				5/2006	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
	TRC-102	2.25-12.25	Overburden	12/1995	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				12/1997	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				7/1999	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				9/2001	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				9/2002	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				9/2003	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				5/2004	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				6/2004	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				12/2004	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				3/2005	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				6/2005	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				5/2006	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
	TRC-103	1.25-11.25	Overburden	12/1995	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				12/1997	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				7/1999	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				9/2001	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				9/2002	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				9/2003	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				5/2004	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				6/2004	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				12/2004	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				3/2005	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				6/2005	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5
				5/2006	100	200	20	100	5	400	70	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5	100	5

Notes:
1. Unless otherwise specified, analytical results in micrograms per liter (ug/L).
2. "<" denotes analyte was not detected at concentrations above the given quantitation limit.
3. "N/A" denotes sample not analyzed for the specified analyte.
4. "N" denotes the location was not sampled during the given period.
5. "BDL" denotes all analytes are below given quantitation limits.
6. "N" Denotes sample was obtained using a Passive Diffusion Bag sampler from that date forward.
7. "J" Detected below lab quantitation limit, estimated value.

8. Groundwater Standards are taken from the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000. Exceedance of applicable Method 1 GW-1 Standard is indicated in bold and shaded type.
9. "N/A" denotes MCP Method 1 GW-1 and GW-2 standards for C9-C10 aromatic hydrocarbons used.
10. "N/A" denotes no measurement for that date.
11. B denotes detected in associated laboratory method blank.
12. Groundwater sampling discontinued at well following three consecutive sampling results below MCP GW-1 standards (per MA DEP approval, February 22, 2002).
13. Estimated values below the quantitation limit ("J" values) were not reported for the June 2006 sampling event.

Table 1-3
Summary of Groundwater Sampling Results - BTEX, Naphthalene, MTBE, VPH, PAH, and EPH
Former GE Site, Wilmington, MA

[illegible]

Notes:

1. Unless otherwise specified, analytical results are megagrams per liter ($\mu\text{g/L}$)
2. " $<$ " denotes analyte was not detected at concentrations above the given quantitation limit.
3. "NA" denotes sample not analyzed for the specified analyte.
4. " $>$ " denotes the location was not sampled during the given period.
5. "L" denotes all analyses are below given quantitation limits.
6. "HCL" denotes all samples obtained using a Passive Diffusion Bag sampler from that date forward.
7. "MCP" Denotes sample was obtained using a Positive Diffusion Bag sampler from that date forward.
8. "GW-1" denotes values below the quantification limit following three consecutive sampling results below MCP GW-1 standards (per MA DEP approval February 27, 2007).
9. Estimated values below the quantification limit ("B" values) were not reported for the June 2005 sampling event.
10. Groundwater Standards are taken from the Massachusetts Contingency Plan (MCP) 310-CMR 40.0000. Exceedance of applicable Method 1 GW-1 Standard is indicated in bold and shaded type.
11. "D" Detected below lab quantitation limit; estimated value.
12. "N/A" denotes no measurement for that date.
13. B denotes detected in associated laboratory method blank.

Table 1-3
Summary of Groundwater Sampling Results - BTEX, Naphthalene, MTBE, VPH, PAH, and EPH
Former GE Site, Wilmington, MA

Area Name	Location Name	Screened Interval (feet bgs)	Type of Well	Sample Event Date	Total BTEX, MTBE and Naphthalene	Benzene	Ethylbenzene	Toluene	Xylenes, Total	Methyl tert-butyl ether (MTBE)	Total VPH	C8-C9 Aliphatic	C9-C10 Aromatic	C9-C11 Aliphatic	Total BMT	C8-C10 Aliphatic	C9-C11 Aromatic	Naphthalene (SVOC)	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Phenanthrene	Fluorene	Pyrene	Benzo(a)anthracene	Chrysene	Benzo(a)fluoranthene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene	Benzo(a)pyrene
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Notes:
1. Unless otherwise specified, analytical results in micrograms per liter (ug/L).
2. "c" denotes analyte was not detected at concentrations above the given quantitation limit.
3. "NA" denotes sample not analyzed for the specified analyte.
4. "n" denotes the location was not sampled during the given period.
5. "BDL" denotes all analytes are below given quantitation limits.
6. "n" denotes sample was obtained using a Passive Diffusion Bag sampler from that date forward.

7. Groundwater standards are taken from the Massachusetts Contingency Plan (MCP) 310 CMR 46.0000. Exceedance of applicable Method 1 (GW-1) Standard is indicated in bold and shaded type.
8. "n" denotes below lab quantitation limit, estimated value.
9. "NA" denotes no measurement for that date.
10. B denotes detected in associated laboratory method blank.
11. Groundwater sampling discontinued at well following three consecutive sampling results below MCP GW-1 standards (per MA DEP approval, February 22, 2007).
12. Estimated values below the quantitation limit ("J" values) were not reported for the June 2005 sampling event.

Table 2-1
Tank K SVE System Maintenance Monitoring
Former GE Site, Wilmington, MA

Date	PID Readings across GAC (ppm.)		
	Influent	Midpoint	Effluent
<i>Biweekly</i>			
8-Feb-01	< 1	< 1	< 1
9-Feb-01	< 1	< 1	< 1
21-Feb-01	< 1	< 1	< 1
23-Feb-01	< 1	< 1	< 1
27-Feb-01	< 1	< 1	< 1
2-Mar-01	< 1	< 1	< 1
7-Mar-01	< 1	< 1	< 1
23-Mar-01	< 1	< 1	< 1
<i>Monthly</i>			
Apr-01	< 1	< 1	< 1
May-01	< 1	< 1	< 1
Jun-01	< 1	< 1	< 1
Jul-01	1.2	< 1	< 1
Aug-01	1.4	< 1	< 1
Sep-01	1.2	< 1	< 1
Oct-01	<1	<1	<1
Nov-01	<1	< 1	< 1
Dec-01	<1	< 1	< 1
Jan-02	<1	< 1	< 1
Feb-02	<1	< 1	< 1
Mar-02	<1	< 1	< 1
Apr-02	NM	NM	NM
May-02	NM	NM	NM
Jun-02	<1	< 1	< 1
Jul-02	<1	< 1	< 1
Aug- 2002 ¹	58	43.5	5.1
Aug-2002 ^{1,2}	32	28	26
Sep-02	<1	< 1	< 1
Oct-02	<1	<1	<1
Nov-02	NM	NM	NM
Dec-02	<1	<1	<1
Dec-02	<1	<1	<1
Jan-03	<1	<1	<1
Feb-03	<1	<1	<1
Mar-03	<1	<1	<1
Apr-03	<1	<1	<1
May-03	<1	<1	<1
Jun-03	<1	<1	<1
Jul-03	<1	<1	<1
Aug-03	<1	<1	<1
Sep-03	<1	<1	<1
Sep-03	<1	<1	<1
Oct-03	<1	<1	<1
Oct-03	<1	<1	<1
Nov-03	<1	<1	<1
Nov-03	<1	<1	<1
Dec-03	<1	<1	<1
Dec-03	<1	<1	<1
Jan-04	<1	<1	<1
0112/04	<1	<1	<1
Jan-04	<1	<1	<1
Feb-04	<1	<1	<1
Feb-04	<1	<1	<1
Mar-04	<1	<1	<1
Mar-04	<1	<1	<1
Apr-04	<1	<1	<1
May-04	<1	<1	<1
Jun-04	<1	<1	<1
Jul-04	<1	<1	<1
Aug-04	<1	<1	<1
Sep-04	NM	NM	NM
Oct-04	<1	<1	<1
Nov-04	<1	<1	<1
Dec-04	<1	<1	<1
Jan-05	<1	<1	<1
Feb-05	<1	<1	<1
Mar-05	NM	NM	NM
Apr-05	<1	<1	<1
May-05	<1	<1	<1
Jun-05	<1	<1	<1
Jul-05	<1	<1	<1
Jul-05	<1	<1	<1
Aug-05	<1	<1	<1
Aug-05	<1	<1	<1
Sep-05	<1	<1	<1
Sep-05	<1	<1	<1
Oct-05	47*	145*	150*
Oct-05	<1	<1	<1
Nov-05	NM	<1	<1
Dec-05	2.2	NM	<1
Jan-06	<1	<1	<1
Feb-06	<1	<1	<1
Mar-06	<1	<1	<1
Apr-06	<1	<1	<1
May-06	<1	<1	<1

Notes:
GAC : Granular Activated Carbon.
NM: Not measured
1: VOC data biased high due to faulty PID.
2 : Second monthly measurement collected to evaluate air stream.
* = Observed spike at start-up during cycling phase.

Table 2-2
Tank K Remediation System - In-Field Groundwater Monitoring Data
Former GE Site, Wilmington, MA

Monitoring Well ID	Date	Depth to Water (feet)	ORP (mV)	DO (mg/L)	Temperature (oC)	pH	Pressure (in. w.c.)
PZ-8S	Feb-01	NM	67.80	0.61	12.90	5.98	0.00
	Mar-01	NM	NM	NM	NM	NM	NM
	Jun-01	NM	41.20	0.43	18.12	6.03	0.00
	Sep-01	NM	NM	NM	NM	NM	NM
	Dec-01	NM	NM	NM	NM	NM	NM
	Apr-02	NM	NM	NM	NM	NM	NM
	Sep-02	NM	NM	NM	NM	NM	NM
	Mar-03	NM	NM	NM	NM	NM	NM
	Sep-03	NM	NM	NM	NM	NM	NM
	Mar-04	NM	NM	NM	NM	NM	NM
	Sep-04	NM	NM	NM	NM	NM	NM
	Mar-05	NM	NM	NM	NM	NM	NM
TRC-104	Feb-01	2.82	146.90	1.74	6.74	5.81	0.00
	Mar-01	0.95	238.00	8.64	5.89	5.34	0.00
	Jun-01	4.31	47.50	0.35	22.18	5.50	0.00
	Sep-01	3.89	-13.70	0.34	25.45	6.11	0.00
	Dec-01	3.75	84.80	3.81	10.12	5.91	0.00
	Apr-02	3.21	92.60	5.93	10.85	5.79	NM
	Sep-02	4.00	-4.20	0.25	24.52	6.09	NM
	Mar-03	2.65	61.60	13.25	6.82	4.85	NM
	Sep-03	4.27	-273.00	0.36	23.89	6.30	NM
	Mar-04	2.60	196.40	10.14	9.21	5.20	NM
	Sep-04	3.19	150.70	0.45	23.28	5.59	NM
	Mar-05	0.55	239.00	13.67	5.81	6.05	NM
TRC-105D	Feb-01	2.88	112.20	0.75	11.27	5.84	0.00
	Mar-01	1.00	136.00	0.52	8.34	5.93	0.00
	Jun-01	4.35	61.30	0.48	20.11	6.03	0.00
	Sep-01	NM	NM	NM	NM	NM	NM
	Dec-01	NM	NM	NM	NM	NM	NM
	Apr-02	NM	NM	NM	NM	NM	NM
	Sep-02	NM	NM	NM	NM	NM	NM
	Mar-03	NM	NM	NM	NM	NM	NM
	Sep-03	NM	NM	NM	NM	NM	NM
	Mar-04	NM	NM	NM	NM	NM	NM
	Sep-04	NM	NM	NM	NM	NM	NM
	Mar-05	NM	NM	NM	NM	NM	NM
TRC-105S	Feb-01	NM	223.40	4.63	5.32	5.90	0.00
	Mar-01	0.63	171.00	10.32	5.52	6.48	0.00
	Jun-01	NM	151.20	3.18	23.21	5.83	0.00
	Sep-01	NM	NM	NM	NM	NM	NM
	Dec-01	NM	NM	NM	NM	NM	NM
	Apr-02	NM	NM	NM	NM	NM	NM
	Sep-02	NM	NM	NM	NM	NM	NM
	Mar-03	NM	NM	NM	NM	NM	NM
	Sep-03	NM	NM	NM	NM	NM	NM
	Mar-04	NM	NM	NM	NM	NM	NM
	Sep-04	NM	NM	NM	NM	NM	NM
	Mar-05	NM	NM	NM	NM	NM	NM
TRC-106	Feb-01	3.45	45.90	4.55	8.17	6.51	2.30
	Mar-01	NL	NL	NL	NL	NL	NL
	Jun-01	NM	NM	NM	NM	NM	NM
	Sep-01	NM	NM	NM	NM	NM	NM
	Dec-01	NM	NM	NM	NM	NM	NM
	Apr-02	NM	NM	NM	NM	NM	NM
	Sep-02	4.38	14.60	2.12	21.04	7.13	NM
	Mar-04	3.40	186.30	5.00	7.99	8.92	NM
	Sep-03	5.74	-141.30	0.82	20.60	8.02	NM
	Mar-04	4.15	-43.40	12.11	7.93	6.94	NM
	Sep-04	3.71	251.90	19.55	8.99	6.82	NM
	Mar-05	NM	NM	NM	NM	NM	NM
	Sep-05	5.61	122.00	2.93	20.68	6.79	NM
	May-06	4.00	12.00	3.87	9.78	7.87	NM

Table 2-2
Tank K Remediation System - In-Field Groundwater Monitoring Data
Former GE Site, Wilmington, MA

Monitoring Well ID	Date	Depth to Water (feet)	ORP (mV)	DO (mg/L)	Temperature (oC)	pH	Pressure (in. w.c.)
WE-2R	Feb-01	NM	NM	NM	NM	NM	NM
	Mar-01	NM	NM	NM	NM	NM	NM
	Jun-01	4.97	36.00	3.01	17.20	6.05	0.00
	Sep-01	4.21	179.90	3.22	16.38	5.45	0.00
	Dec-01	4.05	184.30	5.13	12.18	5.87	0.85
	Apr-02	3.38	192.20	4.74	13.75	5.64	NM
	Sep-02	NM	NM	NM	NM	NM	NM
	Mar-03	NM	NM	NM	NM	NM	NM
	Sep-03	NM	NM	NM	NM	NM	NM
	Mar-04	NM	NM	NM	NM	NM	NM
	Sep-04	NM	NM	NM	NM	NM	NM
	Mar-05	NM	NM	NM	NM	NM	NM
	Sep-05	NM	NM	NM	NM	NM	NM
	May-06	NM	NM	NM	NM	NM	NM
WE-4D	Feb-01	3.35	249.10	1.82	10.15	5.09	0.00
	Mar-01	1.45	190.00	8.88	7.83	5.74	0.00
	Jun-01	4.83	197.80	1.22	16.01	4.44	0.00
	Sep-01	4.31	207.70	0.83	19.63	4.80	0.00
	Dec-01	4.16	211.20	4.81	11.06	6.21	5.80
	Apr-02	NM	NM	NM	NM	NM	NM
	Sep-02	NM	NM	NM	NM	NM	NM
	Mar-03	NM	NM	NM	NM	NM	NM
	Sep-03	NM	NM	NM	NM	NM	NM
	Mar-04	NM	NM	NM	NM	NM	NM
	Sep-04	NM	NM	NM	NM	NM	NM
	Mar-05	NM	NM	NM	NM	NM	NM
	Sep-05	NM	NM	NM	NM	NM	NM
	May-06	NM	NM	NM	NM	NM	NM
WE-4S	Feb-01	3.37	306.40	11.83	6.29	5.29	12.50
	Mar-01	0.98	192.00	9.75	6.78	5.62	0.00
	Jun-01	3.21	240.30	6.05	22.10	6.20	0.00
	Sep-01	3.31	-28.30	0.33	25.15	5.97	0.00
	Dec-01	3.12	121.40	9.12	9.55	6.05	12.10
	Apr-02	3.71	136.20	9.27	11.16	6.04	NM
	Sep-02	4.75	84.30	0.80	23.82	5.97	NM
	Mar-03	3.23	48.90	3.19	6.71	5.67	NM
	Sep-03	4.27	-85.10	0.27	23.70	5.79	NM
	Mar-04	3.25	29.40	0.47	8.63	5.87	NM
	Sep-04	3.71	-40.90	0.86	23.39	5.97	NM
	Mar-05	2.00	139.00	2.28	6.40	5.86	NM
	Sep-05	5.16	143.80	0.18	24.61	5.31	NM
	May-06	3.29	136.70	3.37	12.58	5.58	NM
WE-7	Feb-01	3.09	16.80	1.41	4.80	6.07	0.00
	Mar-01	0.45	161.00	4.35	5.44	6.38	0.00
	Jun-01	4.11	-113.70	0.43	23.39	6.10	0.00
	Sep-01	3.61	-23.50	0.46	23.95	6.13	0.00
	Dec-01	3.48	-15.60	1.20	8.65	6.21	0.00
	Apr-02	3.17	-81.00	0.74	10.82	6.19	NM
	Sep-02	4.57	-79.90	0.22	23.77	6.14	NM
	Mar-03	2.81	50.70	0.54	3.76	6.40	NM
	Sep-03	4.20	21.40	1.44	24.13	6.64	NM
	Mar-04	2.90	94.30	3.20	7.74	6.18	NM
	Sep-04	3.66	59.40	0.69	23.62	5.84	NM
	Mar-05	2.22	106.00	4.80	5.81	6.49	NM
	Sep-05	5.13	-27.20	0.23	24.17	6.20	NM
	May-06	3.30	188.20	4.78	12.92	6.40	NM
WE-8	Feb-01	3.11	-24.20	0.90	8.99	6.26	0.00
	Mar-01	0.74	182.00	7.75	6.86	6.05	0.00
	Jun-01	4.13	56.00	5.90	20.20	6.10	0.00
	Sep-01	3.67	46.90	0.30	25.58	5.87	0.00
	Dec-01	3.54	61.70	0.72	9.31	6.03	0.00
	Apr-02	3.50	15.20	0.46	11.33	6.06	NM
	Sep-02	4.80	-58.70	0.33	22.58	6.43	NM
	Mar-03	2.70	-31.90	0.42	7.51	6.51	NM
	Sep-03	4.28	-62.10	0.95	23.48	6.43	NM
	Mar-04	3.10	-107.90	0.28	9.12	6.45	NM
	Sep-04	3.53	-74.50	0.20	21.01	6.64	NM
	Mar-05	2.10	-10.00	7.40	6.39	6.52	NM
	Sep-05	4.97	-63.30	0.17	22.21	6.00	NM
	May-06	3.00	117.00	6.23	12.38	5.89	NM

Table 2-2
Tank K Remediation System - In-Field Groundwater Monitoring Data
Former GE Site, Wilmington, MA

Monitoring Well ID	Date	Depth to Water (feet)	ORP (mV)	DO (mg/L)	Temperature (oC)	pH	Pressure (in. w.c.)
WE-9	Feb-01	3.24	9.10	1.91	6.14	6.07	0.00
	Mar-01	0.95	135.00	1.44	7.21	5.97	0.00
	Jun-01	4.35	-78.00	0.33	23.55	6.04	0.00
	Sep-01	3.89	-77.20	0.29	25.77	6.15	0.00
	Dec-01	3.75	60.10	0.36	9.42	6.14	0.00
	Apr-02	3.51	-148.30	0.21	11.11	6.26	NM
	Sep-02	4.85	-123.00	0.58	24.38	6.20	NM
	Mar-03	2.90	-47.00	1.25	5.06	6.41	NM
	Sep-03	4.28	-173.20	0.20	24.43	6.33	NM
	Mar-04	3.17	-195.10	0.36	7.91	6.40	NM
	Sep-04	3.63	-73.90	0.58	23.58	6.44	NM
	Mar-05	2.20	126.00	8.44	5.99	6.36	NM
	Sep-05	5.14	-136.00	0.33	24.70	6.39	NM
	May-06	3.56	-102.00	0.26	12.51	6.05	NM

Notes:
ORP = Oxidation/Reduction Potential
DO = Dissolved Oxygen
NM = Not Measured
NL = Not located

Table 3-1. Groundwater Treatment System - Groundwater Analytical Results
Former GE Facility, Wilmington, MA

Location Name	Date	A/S Influent																	NPDES Discharge Standards		Method
		8/15/2003	1/27/2005	7/28/2005	3/25/2005	4/26/2005	5/24/2005	6/17/2005	7/28/2005	8/24/2005	9/27/2005	10/26/2005	11/28/2005	12/28/2005	1/25/2006	2/21/2006	3/21/2006	4/17/2006	5/21/2006	MCLs	
Dichlorodifluoromethane	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Chloromethane	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Vinyl chloride	ug/L	51	<80	<40	<80	<40	<40	<80	<80	<60	<60	<60	<60	<20	<60	<60	<60	<60	7.9	2	2
Bromomethane	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Chloroethane	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Fluoromethane	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
1,1-Dichloroethane	ug/L	160	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Acetone	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Methyl iodide	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Carbon disulfide	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Methylene chloride	ug/L	14	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
trans-1,2-Dichloroethene	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Methyl tert-butyl ether	ug/L	420 E	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
1,1-Dichloroethane	ug/L	420 E	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Vinyl Acetate	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
2-Butanone (MEK)	ug/L	480 E	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
cis-1,2-Dichloroethane	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
2,2-Dichloropropane	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Bromochloromethane	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Chloroform	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
1,1,1-Trichloroethane	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
1,1-Dichloropropene	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Carbon tetrachloride	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
1,2-Dichloroethane	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Benzene	ug/L	18000	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Trichloroethene	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
1,2-Dichloropropane	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Dibromomethane	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Bromodichloromethane	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
cis-1,3-Dichloropropene	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
4-Methyl-2-pentanone	ug/L	12	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Toluene	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
trans-1,3-Dichloropropene	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
1,1,2-Trichloroethane	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
1,3-Dichloropropane	ug/L	14000	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Tetrachloroethene	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
2-Hexanone	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Chlorodibromomethane	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Ethylacetylbromide	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Chlorobenzene	ug/L	3 J	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
1,1,1,2-Tetrachloroethane	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Ethylbenzene	ug/L	1 J	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
o-Xylene	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
m & p-Xylene	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Xylenes (total)	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Styrene	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Bromoforn	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Isopropylbenzene	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
1,1,2,2-Tetrachloroethane	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
Bromobenzene	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
1,2,3-Trichloropropane	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
n-Propylbenzene	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
2-Chlorotoluene	ug/L	1 J	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
1,3,5-Trimethylbenzene	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
4-Chlorotoluene	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
tert-Butylbenzene	ug/L	<5	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
1,2,4-Trimethylbenzene	ug/L	2 J	<200	<100	<200	<100	<100	<200	<200	<150	<150	<150	<150	<50	<150	<150	<150	<150	<50		100
sec-Butylbenzene	ug/L	<5	<200	<100	<200</																

Notes:

1. "c" denotes analyte was not detected at concentrations above the given quantitation limit.
2. Method 1 MCP Standards are taken from the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000.
3. MCLs are taken from the USEPA National Primary Drinking Water Regulations (Winter 2004).

All detected analytes are shown in bold type.

B - Detected in associated laboratory method blank.
E - Estimated concentration; exceeds upper limit of calibration.
J - Estimated value.
- Not Analyzed.

4. All detected analytes are shown in bold type.
5. Compounds exceeding listed standards are shown in bold and shaded type.
6. "a" denotes test results evaluating system efficiency at 2 GPM
7. "aa" denotes test results evaluating system efficiency at 4 GPM
8. "b" = pH measured by laboratory was 6.4; TRC confirmation using same methodology in field on 4/27/06 was 7.55
9. "ba" = pH measured by laboratory was 6.2; TRC confirmation using same methodology in field on 6/16/06 was 7.03

**Table 3-2. Groundwater Treatment System Operating Parameters and Monitoring Results
Former GE Facility, Wilmington, MA**

Date and time of measurement	Groundwater Parameters						Vapor Stream Parameters													Comments		
	Total GW pumped ¹ gallons	Treated GW pH at discharge point	Liquid phase pressure measurements ² , psi				Vapor phase pressure and vacuum measurements, in.w.c.						Calculated			VOC Vapor concentrations ⁵ , ppmv			Temperature, °F			
			Bag Filter Inlet (PG-201)	LGAC-201 Inlet (PG-202)	LGAC-202 Inlet (PG-203)	Discharge (PG-204)	Air stripper vac. (PG-301)	Blower vac. (PG-302)	VGAC-301 Inlet pres. (PG-303)	VGAC-302 Inlet pres. (PG-304)	VGAC-302 discharge pres. (PG-305)	Diff. Pressure (PG-306)	air flow	VGAC-301	VGAC-302	Air Dryer Inlet (TG-301)	Air Dryer Outlet (TG-302)	VGAC-301 Inlet (TG-303)				
													rate ⁴	Inlet	Inlet				Discharge			
													CFM	(SP-301)	(SP-302)	(SP-303)						
8/15/03 14:00	0	6.7	10	8	8	8	18	23	8	4	0	0.27	181	10	ND	ND	65	45	63			
8/17/03 19:30	5,778	6.8	10	8	8	8	17	22	7	4	0	0.26	178	5	ND	ND	63	44	65			
8/20/03 11:00	12,636	6.8	9	8	8	8	18	23	8	4	0	0.3	191	4	ND	ND	65	43	64			
8/24/03 13:00	28,000																			System was shut down on 8-24-03 and re-started on 9-24-03		
9/24/03 10:30	28,000	7.8	10	9.2	9	8.6	13	18	9.2	5.6	3	0.3	191	1.2	ND	ND	62	50	85			
9/26/03 9:40	32,957	7.2	13	8	7.5	7	13	17.8	9	6	3	0.28	184	1	ND	ND	61	48	83			
9/29/03 9:15	40,510	7.4	14	7	6.5	6	14	18	9.5	5.7	3	0.3	191	1.2	ND	ND	60	45	80			
10/3/03 0:00	50,012																			System off on 10-3-03 due to power outage and was re-started on 10-6-03		
10/6/03 11:30	50,012	7.45	9.8	10.2	9.0	8.6	13	18.5	8.8	5.3	2.8	0.3	191	1.4	ND	ND	58	60	88			
10/9/03 2:00	57,308																			System was off on 10-09-03 due to high condensate level alarm and was re-started on 10-13-03. Chiller adjusted to prevent future alarm condition.		
10/13/03 10:00	57,308	7.28	10.0	9.0	9.0	8.4	13	18	8.8	5.2	2.8	0.3	191	1.2	ND	ND	60	60	90			
10/20/03 10:30	77,165	7.51	10.0	9.2	8.8	8.6	13	18	8.8	5.2	2.8	0.3	191	1.3	ND	ND	54	55	86			
11/3/03 11:00	118,251	7.32	11.0	9.0	8.8	8.7	13	18	8.8	5.2	2.8	0.29	188	1	ND	ND	52	54	85	GW samples NOT collected.		
11/18/03 10:00	161,650	7.65	10.0	8.5	8.3	8.0	13	18	8.8	5.2	2.9	0.31	194	1	ND	ND	50	53	83	A/S transfer pump minor adjustment was performed. GW samples collected.		
12/9/03 10:00	224,491	7.21	11.0	9.0	9.5	7.5	14	19	8.9	5.1	2.8	0.3	191	1.5	ND	ND	52	54	81	No adjustments were necessary.		
12/23/03 10:00	265,131	7.45	10.0	9.1	9.4	8.0	13	18	8.8	5.2	2.9	0.3	191	1	ND	ND	50	51	79	No adjustments were necessary. GW samples collected.		
1/20/04 13:00	348,024																			System off on 1-20-04 due to transfer pump failure and freeze-up. The system was repaired and re-started on 1-26-04		
1/26/04 18:00	348,024	7.61	9	8.5	8.3	8	13	18	8.8	5.1	2.8	0.31	194	1	ND	ND	51	51	80	The system was repaired and re-started on 1-26-04. GW samples collected.		
2/9/04 8:30	381,347		8	7.5	7.5	6	13	17	9	5.1	2.7	0.3	191	1	ND	ND	52	52	82	System on upon arrival. GW samples NOT collected		
2/25/04 18:00	426,134	7.45	8	7	6.5	6	13	17	8	4.5	2.7	0.28	184	1	ND	ND	52	51	79	System on upon arrival. GW samples collected.		
3/10/04 18:00	460,137		9	7.5	6	5.5	13	18	8	4.8	2.8	0.28	184	1	ND	ND	52	51	79	System on upon arrival. GW samples NOT collected		
3/24/04 11:00	493,888	7.73	9.5	7.5	6	5.5	13	17	9	5	2.7	0.3	191	1	ND	ND	54	54	88	System on upon arrival. GW samples collected.		
4/8/04 11:00	537,251	7.56	10	8.5	8	7.5	13	17	9	5.5	2.7	0.28	184	1	ND	ND	55	55	87	System on upon arrival. GW samples NOT collected		
4/26/04 14:00	591,138	7.51	10.5	8.5	8	8	13	17.5	9.5	5	2.8	0.3	191	1.2	ND	ND	56	56	86	System on upon arrival. GW samples collected.		
5/12/04 10:00	635,113		11	8	8	7	13	17.5	9.5	5	2.8	0.3	191	1	ND	ND	56	55	85	System on upon arrival. GW samples NOT collected		
5/27/04 11:00	678,103	7.57	11	8	8	7	14	18	9	4.8	2.8	0.3	191	1.2	ND	ND	56	58	87	System on upon arrival. GW samples collected.		
6/11/04 9:00	721,235		11.5	7.5	7.5	7	13	17.5	9.5	5	2.7	0.29	188	1	ND	ND	56	58	87	System on upon arrival. GW samples NOT collected		
6/24/04 10:00	758,128	7.58	12	7.5	7.5	6.5	14	18	9.5	5	2.8	0.28	184	1	ND	ND	55	57	86	System on upon arrival. GW samples collected.		
7/9/04 10:00	803,871		11	8	7.5	6.5	13	18	9	5.2	2.8	0.28	184	1.2	ND	ND	60	60	90	System on upon arrival. GW samples NOT collected		
7/23/04 10:00	845,903	7.43	12	7.5	7.5	6.5	13	17.5	9	5	2.7	0.29	188	1.2	ND	ND	64	64	98	System on upon arrival. GW samples collected.		
8/9/04 8:00	895,213		12	8	7.5	6.5	13	8	9	5	2.6	0.28	184	1.1	ND	ND	65	65	100	System on upon arrival. GW samples collected.		
8/27/04 9:00	945,872	7.51	12.5	8	7.5	7	14	18	9	5.1	2.8	0.28	184	1	ND	ND	60	60	90	System on upon arrival. GW samples collected.		
9/13/04 11:00	994,127		12.5	7.5	7.5	7	13	18	9.5	5	2.7	0.29	188	1	ND	ND	62	63	94	System on upon arrival. GW samples NOT collected		
9/23/04 10:00	1,022,357	7.45	12	8	7.5	7	14	18	9.5	5	2.8	0.29	188	1.1	ND	ND	65	65	100	System on upon arrival. GW samples collected.		
10/13/04 13:00	1,080,325		18	6	4.5	4	14	18	9	5	2.7	0.29	188	1	ND	ND	60	60	90	System on upon arrival. GW samples NOT collected		
10/27/04 11:00	1,124,895	7.64	19	6	4.5	4	13	17.5	9.5	5.2	2.8	0.29	188	1	ND	ND	61	60	91	System on upon arrival. GW samples collected.		
11/15/04 9:00	1,179,975		19	6.5	4.5	4	13	18	9.5	5	2.7	0.29	188	1	ND	ND	60	60	90	System on upon arrival. GW samples NOT collected		
11/24/04 11:00	1,205,972	7.52	20	6.5	4.5	4	14	18	9	5.1	2.8	0.28	184	1	ND	ND	61	60	91	System on upon arrival. GW samples collected.		
12/21/04 11:00	1,278,932	7.24	21	6.5	4.5	4	13	18	9	5.1	2.8	0.28	184	1.3	ND	ND	61	60	91	System on upon arrival. GW samples collected.		
1/12/05 10:00	1,344,396		21	6.5	5	4	13	17	9.5	5	2.9	0.29	188	1.1	ND	ND	58	60	86	System on upon arrival. GW samples NOT collected.		
1/27/05 10:30	1,388,871	7.37	22	7	4	3.5	13	17	9	5	2.8	0.29	188	1	ND	ND	60	59	90	System on upon arrival. GW samples collected.		
2/14/05 8:30	1,441,008		22	6.5	4	3.5	14	17	9	5.2	2.8	0.28	184	1.3	ND	ND	46	49	80	System on upon arrival. GW samples NOT collected.		
2/28/05 11:30	1,483,009	7.48	22	6	3.5	3	13	18	8	5	2.8	0.29	188	1	ND	ND	51	52	85	System on upon arrival. GW samples collected.		
3/18/05 10:00	1,535,728		22	6	3.5	3	13	17	8	5	2.8	0.29	188	1	ND	ND	54	54	88	System on upon arrival. GW samples NOT collected.		
3/25/05 10:30	1,556,432	7.31	21	6.5	3.5	3	14	18	8	5	2.8	0.28	184	1	ND	ND	55	56	89	System on upon arrival. GW samples collected.		
4/13/05 9:30	1,61414																					

Table 3-3
Source Control Monitoring - Groundwater Elevation Data
Former GE Facility, Wilmington, MA

Depth to groundwater from top of well casing, feet																				
Date	Pumping status	TRC-202R	GZA-105R	TRC-401R	BRW-1	EMW-11-R1	EMW-11-R2	EMW-11-R3	IP1-R1	IP1-R2	IP1-R3	IP2-R1	IP2-R2	IP2-R3	IP2-R4	IP3-R1	IP3-R2	IP4-R1	IP4-R2	IP4-R3
8/13/2003	Static	4.08	4.44		2.78	3.04	2.95	3.38	5.40	3.30	6.08	5.75	5.42	5.34	5.29	4.56	4.35	4.61	4.30	4.42
9/23/2003	Static	3.98	4.21		2.93	3.02	3.01	3.31	5.34	3.25	5.98	5.71	5.35	5.31	5.31	4.55	4.31	4.59	4.25	4.39
10/24/2003	Pumping @ 2 gpm	26.40	5.23		3.05	4.32	7.25	4.00	6.05	6.02	6.65	6.62	6.15	6.95	6.15	5.55	5.75	5.75	5.30	5.30
11/18/2003	Pumping @ 2 gpm	26.10	5.12		3.01	3.81	4.42	3.36	5.95	6.01	6.55	6.58	6.11	6.87	6.21	5.42	5.71	4.72	4.68	4.80
12/23/2003	Pumping @ 2 gpm	26.30	5.18		3.03	4.12	5.14	3.56	6.01	5.95	6.68	6.47	6.15	6.91	6.25	5.61	5.73	4.77	4.75	4.91
1/26/2004	Static	3.85	4.05		2.81	2.77	2.75	3.01	5.27	5.21	5.91	5.68	5.30	5.28	5.25	4.48	4.25	4.37	4.15	4.27
2/25/2004	Pumping @ 2 gpm	26.30	5.01		3.03	3.78	4.35	3.32	5.81	5.75	6.51	6.48	6.01	6.71	6.20	5.48	5.61	4.47	4.41	4.53
3/24/2004	Pumping @ 2 gpm	26.20	4.98		3.01	3.35	4.12	3.15	5.75	5.78	6.25	6.31	5.98	6.63	6.12	5.41	5.55	4.30	4.09	4.37
4/24/2004	Static (-4 hours)	3.98	NM		2.93	3.02	3.01	3.31	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
5/27/2004	Pumping @ 2 gpm	26.70	4.78		2.85	3.09	6.11	3.21	5.46	5.50	5.68	5.07	4.98	5.32	5.98	5.17	5.25	4.25	4.31	4.41
6/24/2004	Pumping @ 2 gpm	26.40	5.15		3.15	4.17	6.45	3.95	6.03	5.98	6.23	6.12	6.01	6.37	6.17	5.45	5.71	5.45	5.51	5.55
7/23/2004	Pumping @ 2.1 gpm	26.80	4.98		3.01	3.98	6.05	3.71	5.85	5.77	6.05	5.92	5.79	6.19	5.95	5.19	5.50	5.28	5.29	5.34
8/27/2004	Pumping @ 2 gpm	26.71	4.90		2.90	3.90	5.95	3.63	5.75	5.67	5.93	5.85	5.68	6.10	5.85	5.10	5.41	5.17	5.10	5.25
9/23/2004	Pumping @ 2 gpm	27.10	4.56		1.92	3.23	6.42	2.80	5.35	5.27	5.03	5.41	5.25	5.19	5.45	5.13	5.12	4.15	4.28	4.31
10/27/2004	Pumping @ 2.2 gpm	27.30	4.96		2.40	3.58	5.91	3.35	5.40	5.34	5.20	5.71	5.65	5.51	5.55	5.19	5.26	4.37	4.56	4.55
11/24/2004	Pumping @ 1.9 gpm	26.70	4.88		2.29	3.51	5.84	3.23	5.31	5.25	5.11	5.62	5.55	5.40	5.44	5.07	5.18	4.26	4.47	4.43
12/22/2004	Pumping @ 1.9 gpm	26.90	4.91		2.30	3.52	5.88	3.31	5.35	5.28	5.10	5.67	5.58	5.45	5.48	5.11	5.21	4.29	4.50	4.50
1/27/2005	Pumping @ 2.06 gpm	26.10	4.52		1.95	3.05	5.27	3.03	5.15	5.02	5.02	5.25	5.31	5.32	5.34	4.75	5.02	4.05	4.39	4.41
2/28/2005	Pumping @ 2.06 gpm	26.50	4.73		2.10	3.25	5.61	3.15	5.23	5.15	5.06	5.42	5.45	5.37	5.40	4.92	5.10	4.19	4.47	4.45
3/25/2005	Pumping @ 2.05 gpm	26.70	4.71		2.12	3.26	5.60	3.17	5.25	5.20	5.09	5.45	5.46	5.40	5.42	4.95	5.11	4.20	4.50	4.46
4/26/2005	Pumping @ 2.03 gpm	26.50	4.63		2.02	3.15	5.44	3.09	5.19	5.08	5.04	5.33	5.38	5.35	5.37	4.80	5.06	4.12	4.43	4.43
5/24/2005	Pumping @ 2.02 gpm	26.20	4.49		1.93	3.07	5.25	3.05	5.15	5.04	5.03	5.24	5.30	5.31	5.32	4.73	5.02	4.07	4.38	4.40
6/17/2005	Pumping @ 2.07 gpm	26.70	4.95		2.85	3.87	6.21	3.72	5.80	5.75	5.98	5.92	5.79	6.10	5.87	5.20	5.50	5.21	5.25	5.31
7/28/2005	Pumping @ 2.08 gpm	26.50	4.64		2.24	3.30	5.57	3.27	5.38	5.25	5.34	5.47	5.46	5.56	5.49	4.89	5.18	4.45	4.67	4.70
8/24/2005	Pumping @ 2.04 gpm	26.70	4.86		2.85	3.83	5.75	3.46	5.55	5.47	5.73	5.65	5.48	5.90	5.75	5.01	5.21	5.17	4.94	5.05
9/27/2005	Pumping @ 2.04 gpm	27.00	4.92		2.98	3.98	6.01	3.61	5.81	5.70	5.98	5.82	5.71	6.09	5.91	5.14	5.43	5.28	5.19	5.24
5/3/2006	Pumping @ 2.25 gpm	64.75	Out of Service	5.18	2.15	3.86	10.2	NM	NM	5.57	NM	5.59	NM	5.08	NM	NM	4.54	4.56	NM	4.86

Table 3-4. Summary of Cumulative Groundwater Treated, Former GE Site, Wilmington, Massachusetts

Date and Time	Cumulative GW withdrawn (gallons)	Average Pumping Rate (gpm) ³	Total COCs (ug/L) ¹	COCs Removed for Period (kg) ²	Cumulative COCs Removed (kg)	Cumulative COCs Removed (pounds)
8/15/2003 14:00	0	—	33,144	0.0	0.0	0.0
8/17/2003 19:30	5,778	1.8	12,180	0.50	0.50	1.09
8/20/2003 11:00	12,636	1.8	11,410	0.31	0.80	1.77
9/24/2003 10:30	28,000	0.31	10,417	0.64	1.44	3.16
9/26/2003 9:40	32,957	1.75	6,286	0.16	1.59	3.51
9/29/2003 9:15	40,510	1.76	8,000	0.20	1.8	3.96
10/6/2003 11:30	50,012	0.93	6,304	0.26	2.06	4.52
10/13/2003 10:00	57,308	0.73	11,898	0.25	2.31	5.08
10/20/2003 10:30	77,165	1.96	12,141	0.90	3.21	7.07
11/18/2003 10:00	161,650	2.02	8,189	3.25	6.46	14.22
12/23/2003 10:00	265,131	2.05	3,626	2.32	8.78	19.32
1/26/2004 18:00	348,024	1.68	3,380	1.1	9.88	21.74
2/25/2004 18:00	426,134	1.81	4,750	1.2	11.08	24.38
3/24/2004 11:00	493,888	1.7	3,110	1.01	12.09	26.6
4/26/2004 14:00	591,138	2.04	4,198	1.35	13.44	29.56
5/27/2004 11:00	678,103	1.96	7,530	1.93	15.37	33.81
6/24/2004 10:00	758,128	1.99	7,480	2.27	17.64	38.82
7/23/2004 10:00	845,903	2.1	5,620	2.18	19.82	43.61
8/27/2004 9:00	945,872	1.99	2,997	1.63	21.45	47.2
9/23/2004 10:00	1,022,357	1.96	8,070	1.6	23.06	50.72
10/27/2004 11:00	1,124,895	2.09	6,750	2.88	25.93	57.06
11/24/2004 11:00	1,205,972	2.01	7,680	2.22	28.15	61.93
12/21/2004 11:00	1,278,932	1.88	6,030	1.89	30.04	66.1
1/27/2005 10:30	1,388,871	2.06	2,180	1.71	31.75	69.86
2/28/2005 11:30	1,483,009	2.04	2,586	0.85	32.6	71.73
3/25/2005 10:30	1,556,432	2.04	4,199	0.94	33.55	73.8
4/26/2005 11:30	1,652,223	2.08	3,166	1.34	34.88	76.74
5/24/2005 10:30	1,733,973	2.03	2,892	0.94	35.82	78.81
6/17/2005 9:30	1,805,292	2.07	4,348	0.98	36.8	80.96
7/28/2005 9:00	1,920,030	1.94	3,254	1.65	38.45	84.59
8/24/2005 10:00	1,999,939	2.05	2,101	0.81	39.26	86.38
9/27/2005 11:00	2,099,227	2.03	2,722	0.91	40.17	88.37
10/26/2005 10:30	2,153,924	1.31	6,926	01.0	41.17	90.57
11/28/2005 10:00	2,245,695	1.93	5,232	2.11	43.28	95.22
12/28/2005 10:00	2,291,118	1.05	2,785	0.69	43.97	96.74
1/25/2006 10:00	2,354,995	1.58	5,208	0.97	44.94	98.86
2/21/2006	2,417,400	1.63	5,101	1.22	46.16	101.54
3/21/2006	2,498,708	2.02	5,740	1.67	47.83	105.22
4/17/2006 10:00	2,582,269	2.12	6,688	1.97	49.79	109.54
5/31/2006 10:00	2,623,782	0.66	7,193	1.09	50.88	111.95

Notes:

1. Total COCs from Table 3-1
2. COCs removed for period = Average of COC concentrations from previous period and current period x (gallons this period - gallons last period)/1,000,000,000 (convert ug to kg) /0.264 (convert liters to gallons)
3. Average pumping rate is average pumping rate between constituent sampling.

**Table 3-5. Summary of Influent and Effluent Monitoring of Vapor Phase
Former GE Site**

Parameter via EPA Method TO-15	Sample Date: Units	12/21/2004		12/28/2005	
		Influent Air Sample	Effluent Air Sample	Influent Air Sample	Effluent Air Sample
1,1,1-Trichloroethane	ppbV	5 U	0.5 U	5 U	0.5 U
1,1,2,2-Tetrachloroethane	ppbV	5 U	0.5 U	5 U	0.5 U
1,1,2-Trichloroethane	ppbV	5 U	0.5 U	5 U	0.5 U
1,1-Dichloroethane	ppbV	17.2	0.5 U	11.3	18.6
1,1-Dichloroethene	ppbV	5 U	0.5 U	5 U	1.10
1,2,4-Trichlorobenzene	ppbV	5 U	0.5 U	5 U	0.5 U
1,2,4-Trimethylbenzene	ppbV	5 U	0.5 U	5 U	0.5 U
1,2-Dibromoethane	ppbV	5 U	0.5 U	5 U	0.5 U
1,2-Dichlorobenzene	ppbV	5 U	0.5 U	5 U	0.5 U
1,2-Dichloroethane	ppbV	5 U	0.5 U	5 U	0.5 U
1,2-Dichloropropane	ppbV	5 U	0.5 U	5 U	0.5 U
1,3,5-Trimethylbenzene	ppbV	5 U	0.5 U	5 U	0.5 U
1,3-Butadiene	ppbV	5 U	0.5 U	5 U	0.5 U
1,3-Dichlorobenzene	ppbV	5 U	0.5 U	5 U	0.5 U
1,4-Dichlorobenzene	ppbV	5 U	0.5 U	5 U	0.5 U
1,4-Dioxane	ppbV	10 U	1 U	10 U	1 U
2,2,4-Trimethylpentane	ppbV	5 U	0.5 U	5 U	0.5 U
2-Butanone	ppbV	5 U	0.5 U	5 U	0.5 U
2-Hexanone	ppbV	5 U	0.5 U	5 U	0.5 U
3-Chloropropene	ppbV	5 U	0.5 U	5 U	0.5 U
4-Ethyltoluene	ppbV	5 U	0.5 U	5 U	0.5 U
Acetone	ppbV	20 U	2 U	5.33 J	0.86 J
Benzene	ppbV	5 U	0.5 U	5 U	0.5 U
Benzyl chloride	ppbV	5 U	0.5 U	5 U	0.5 U
Bromodichloromethane	ppbV	5 U	0.5 U	5 U	0.5 U
Bromoform	ppbV	5 U	0.5 U	5 U	0.5 U
Bromomethane	ppbV	5 U	0.5 U	5 U	0.5 U
Carbon disulfide	ppbV	5 U	0.5 U	5 U	0.5 U
Carbon tetrachloride	ppbV	5 U	0.5 U	5 U	0.5 U
Chlorobenzene	ppbV	5 U	0.5 U	5 U	0.5 U
Chloroethane	ppbV	5 U	0.5 U	5 U	0.5 U
Chloroform	ppbV	5 U	0.5 U	5 U	0.5 U
Chloromethane	ppbV	5 U	0.5 U	5 U	0.5 U
cis-1,2-Dichloroethene	ppbV	24.2	0.5 U	20.3	22.5
cis-1,3-Dichloropropene	ppbV	5 U	0.5 U	5 U	0.5 U
Cyclohexane	ppbV	5 U	0.5 U	5 U	0.5 U
Dibromochloromethane	ppbV	5 U	0.5 U	5 U	0.5 U
Dichlorodifluoromethane	ppbV	10 U	1 U	10 U	1 U
Ethyl Alcohol	ppbV	20 U	2 U	20 U	2 U
Ethyl Acetate	ppbV	5 U	0.5 U	5 U	0.5 U
Ethylbenzene	ppbV	5 U	0.5 U	5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	ppbV	5 U	0.5 U	5 U	0.5 U
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ppbV	5 U	0.5 U	5 U	0.5 U
Hexachlorobutadiene	ppbV	5 U	0.5 U	5 U	0.5 U
iso-Propyl Alcohol	ppbV	5 U	0.744	5 U	0.5 U
Methylene chloride	ppbV	10 U	1 U	10 U	1 U
4-Methyl-2-pentanone	ppbV	5 U	0.5 U	5 U	0.5 U
Methyl tert butyl ether	ppbV	5 U	0.5 U	5 U	0.5 U
p/m-Xylene	ppbV	5 U	0.5 U	10 U	1 U
o-Xylene	ppbV	5 U	0.5 U	5 U	0.5 U
Heptane	ppbV	5 U	0.5 U	5 U	0.5 U
n-Hexane	ppbV	10 U	1 U	10 U	1 U
Propylene	ppbV	10 U	1 U	5.78 J	1 U
Styrene	ppbV	5 U	0.5 U	5 U	0.5 U
Tetrachloroethene	ppbV	536	0.5 U	334	0.5 U
Tetrahydrofuran	ppbV	5 U	0.5 U	5 U	0.5 U
Toluene	ppbV	5 U	0.5 U	5 U	0.5 U
trans-1,2-Dichloroethene	ppbV	5 U	0.5 U	5 U	0.5 U
trans-1,3-Dichloropropene	ppbV	5 U	0.5 U	5 U	0.5 U
Trichloroethene	ppbV	903	0.5 U	533	0.5 U
Trichlorofluoromethane	ppbV	5 U	0.5 U	5 U	0.5 U
Vinyl acetate	ppbV	5 U	0.5 U	5 U	0.5 U
Vinyl bromide	ppbV	5 U	0.5 U	5 U	0.5 U
Vinyl chloride	ppbV	5 U	0.5 U	5 U	1.09

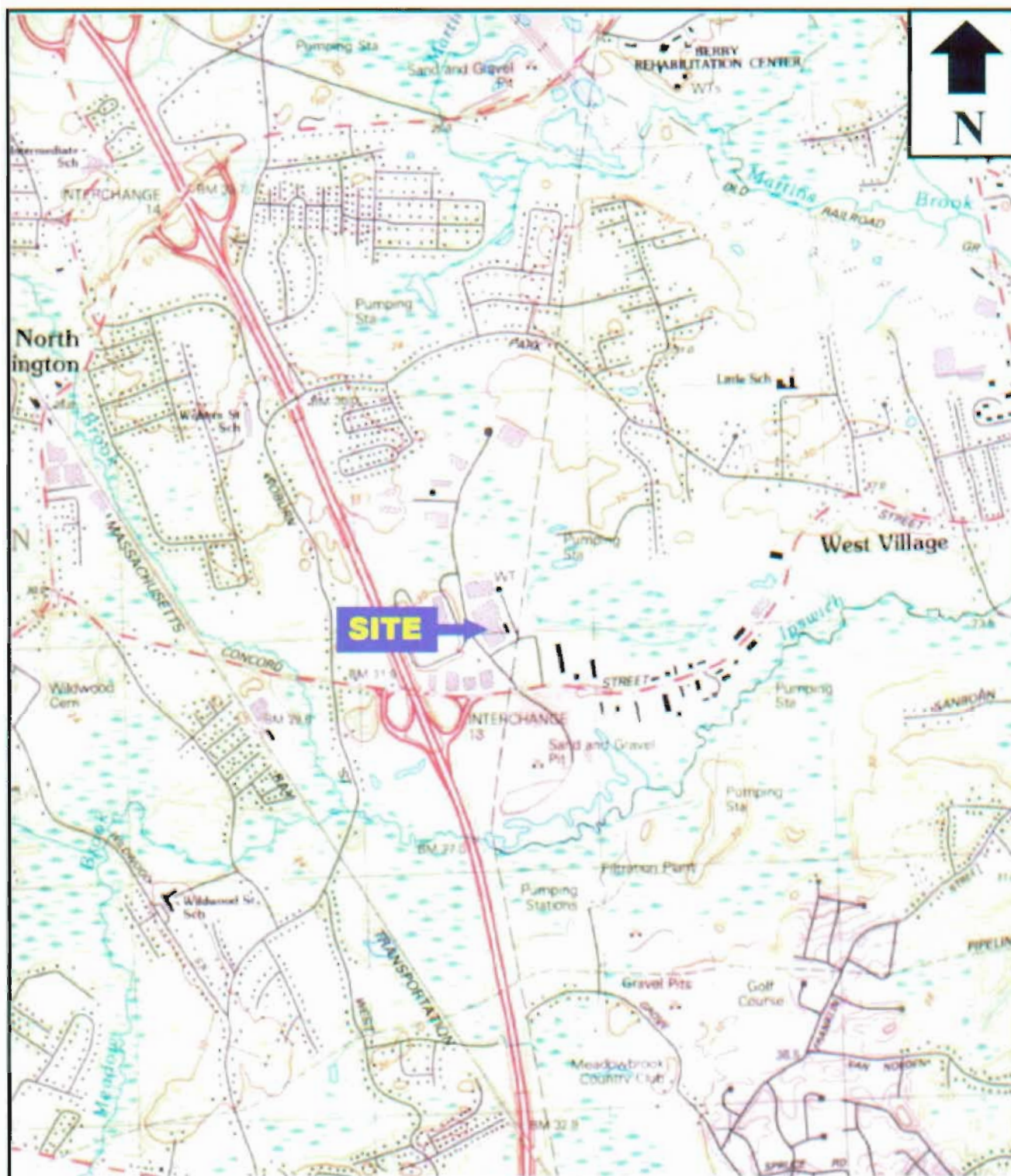
Notes:

U - Compound was not detected at specified quantitation limit.

J - Estimated value.

Values in Bold indicate the compound was detected.

FIGURES



BASE MAP IS A PORTION OF THE FOLLOWING 7.5' x 15' USGS
TOPOGRAPHIC QUADRANGLE: READING, MA 1987

0 1000 2000

Scale in Feet



MASS
QUADRANGLE
LOCATION

TRC

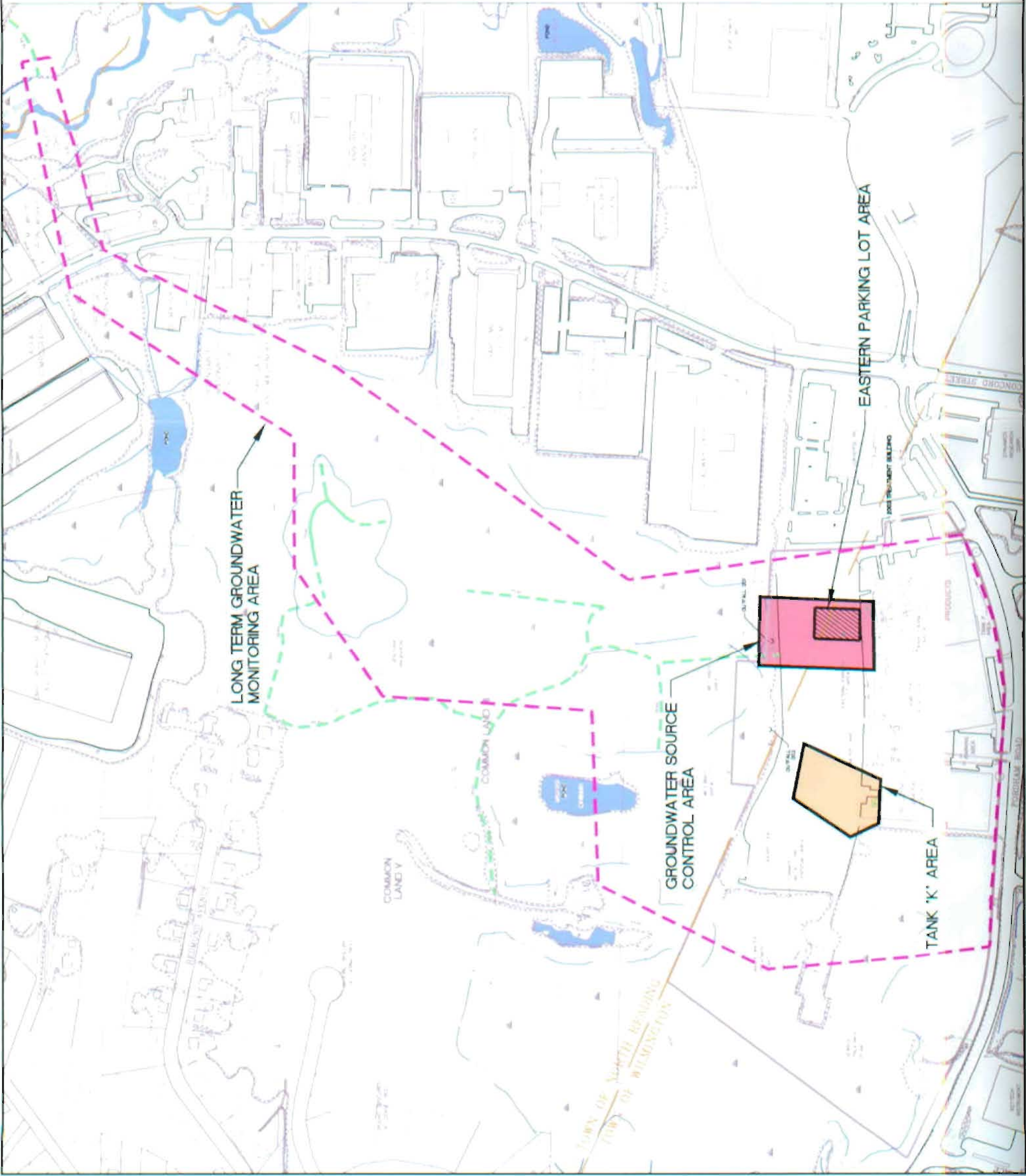
Boott Mills South
Foot of John Street
Lowell, MA 01852
(978) 970-5600

**FORMER GE SITE
WILMINGTON/NORTH READING, MASSACHUSETTS**

**FIGURE 1-1
SITE LOCATION MAP**

Date: 7/04

Project No. E9202



NOTES

1. TOPOGRAPHIC AND PLANIMETRIC FEATURES SHOWN WERE COMPILED PHOTOGRAMMETRICALLY FROM AERIAL PHOTOGRAPHY DATED APRIL 18, 1992 BY EAST COAST MAPPING INC., CONCORD, NEW HAMPSHIRE. MAPPING GROUND CONTROL ESTABLISHED BY FIELD SURVEYS CONDUCTED IN APRIL 1992.
2. THE GRID SYSTEM DEPICTED ON THIS PLAN IS BASED ON THE MASSACHUSETTS STATE PLAIN COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1929.
3. ELEVATIONS ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929.
4. MONITORING WELL LOCATIONS ARE APPROXIMATE.
5. PROPERTY AND TOWN LINE BOUNDARIES WERE ADAPTED FROM:
A) "REGIONAL EXPLORATION PLAN", GENERAL ELECTRIC COMPANY, 50 FORDHAM ROAD, WILMINGTON/NORTH READING, MASSACHUSETTS, BY GOLDBERG - ZONING & ASSOCIATES, INC., DATED APRIL 1992.
B) MODIFIED PER NORTH READING GIS DATA, JUNE 2002, AND C) DIGITIZED BY MASSGIS FROM A SET OF STABLE BASED FILM PRINTS OF THE 125-000 7.5' QUADRANGLES PURCHASED FROM THE USGS BY THE MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS.

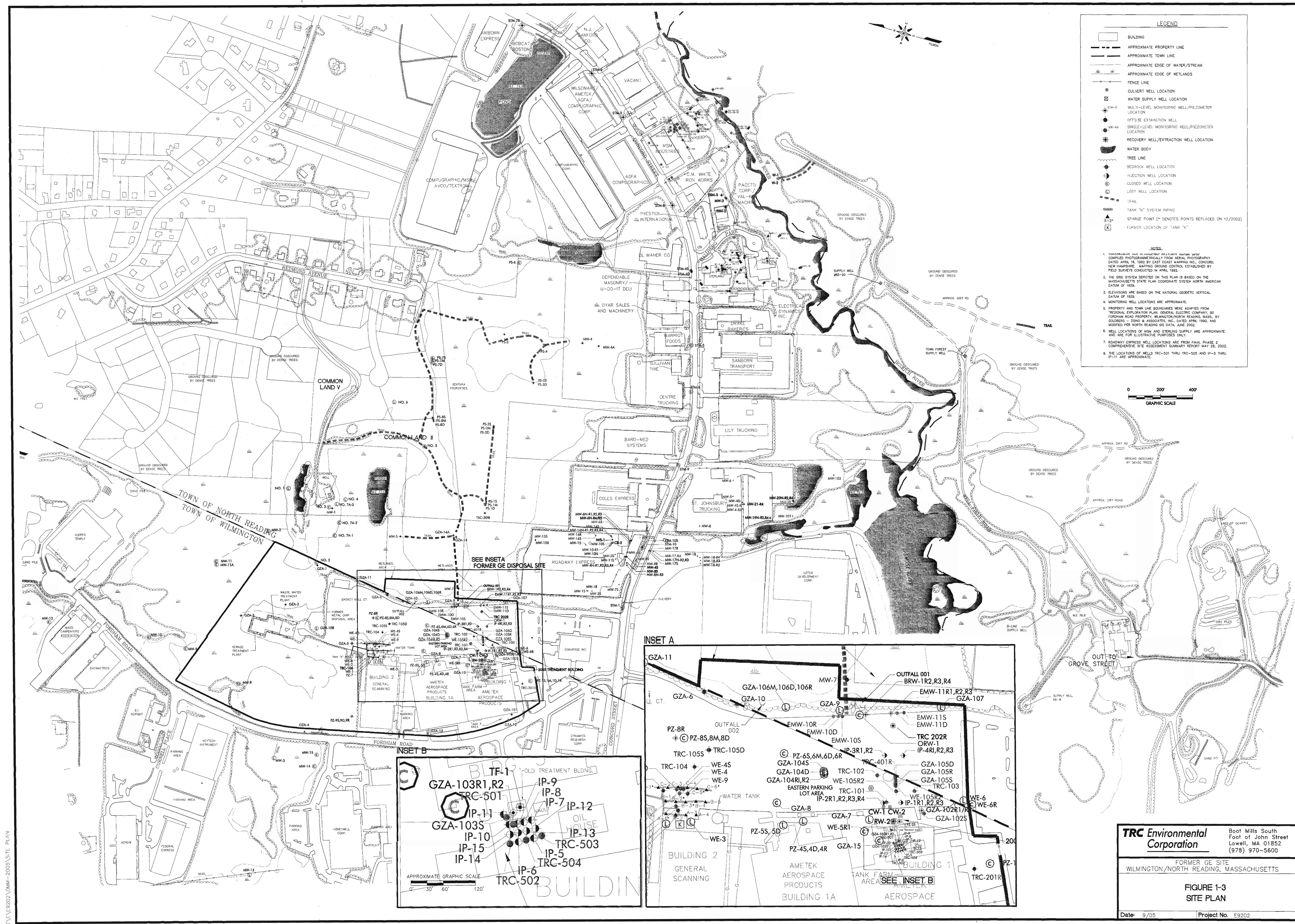


TRC Environmental Corporation
Booth Mills South
Foot of John Street
Lowell, MA 01852
(978) 970-5600

CONCORD, MASSACHUSETTS
WILMINGTON/NORTH READING, MASSACHUSETTS

FIGURE 1-2
APPROXIMATE LIMITS OF
MONITORING PROGRAM AREAS

T:\E9202\QW-2005\SITE PLAN



TRC Environmental Corporation

FORMER GE SITE
WILMINGTON/NORTH READING, MASSACHUSETTS

**FIGURE 1-3
SITE PLAN**

Boot Mills South
Foot of John Street
Lowell, MA 01852
(978) 970-5600

Date: 9/05

Project No. E9202

OUTFALL 001
INV. 77.90

ORW-1

BRW-1

EMW-11



0 10 20 30 FT
SCALE

10" ACCMP

TRC-202R

EASTERN PARKING
LOT AREA

TOWN OF NORTH READING
TOWN OF WILMINGTON

CB
RIM 81.20
INV. 78.60

TRC-102

1/2" HDPE
INJECTION PIPE

IP-3

IP-4

MAIN TRENCH WITH:
1/2" HDPE INJECTION PIPE,
1.25" WATER PIPE,
ELECTRICAL CONDUIT,
TRANSMITTER CABLE CONDUIT,
PACKER INFLATION AIR LINE

GZA-105D

GZA-105R

GZA-105S

WE-105R2

TRC-103

CONCRETE
PAD

TRC-101

1/2" HDPE
INJECTION PIPE

IP-2

CW-1

CW-2

EXISTING
METAL SHED

NEW TRENCH TO
STORM DRAIN FOR
TREATED WATER
DISCHARGE

RW-2

PZ-2

CHAIN LINK FENCE

GZA-102

GATE

SMH

GUARD
SHACK

SMH
RIM 82.25
INV. 76.36

GZA-7

WE-5R1

CB
RIM 82.00
INV. 79.56

BLDG. 3

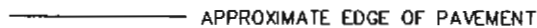
GZA-15

GZA-103

TF-1

NOTE:
PLAN WAS PROVIDED BY I.E.S. ENGINEERING OF NORWOOD, MA.

LEGEND

- | | | | | | |
|---|------------------------------|---|---------------------------------------|---|---------------------------------|
|  | BUILDING |  | MULTI-LEVEL MONITORING WELL LOCATION |  | PRODUCT RECOVERY WELL |
|  | APPROXIMATE EDGE OF PAVEMENT |  | SINGLE-LEVEL MONITORING WELL LOCATION |  | GROUNDWATER RECOVERY WELL |
|  | FENCE LINE |  | ABANDONED MONITORING WELL |  | NEW GROUNDWATER EXTRACTION WELL |
|  | CULVERT WELL | | |  | BIOREMEDIATION INJECTION WELL |

TRC

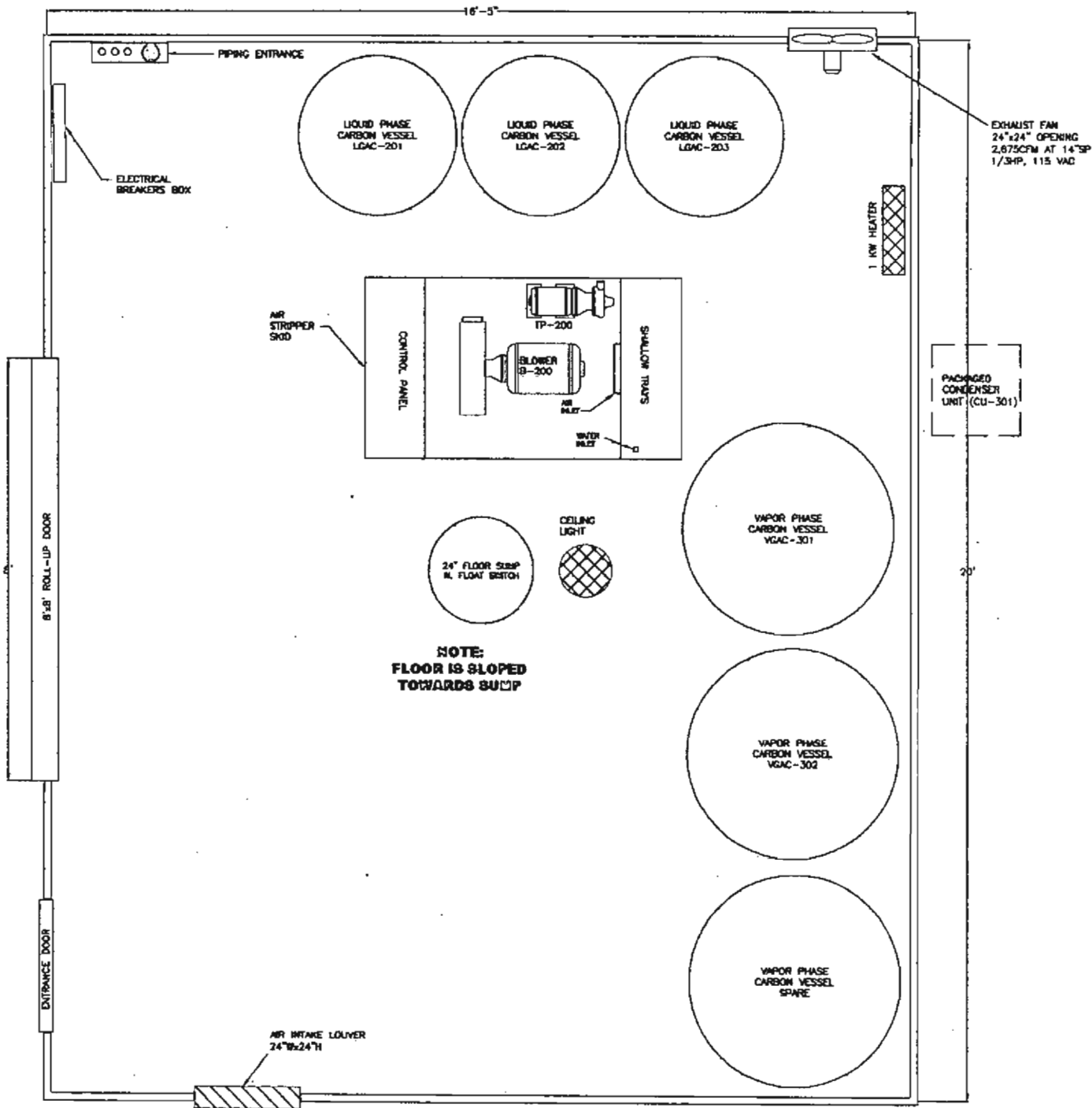
Boot Mills South
Foot of John Street
Lowell, MA 01852
(978) 970-5600

FORMER GE SITE
WILMINGTON/NORTH READING, MASSACHUSETTS

FIGURE 3-1
REMEDIAL SYSTEM GENERAL LAYOUT

Date 4/04

Project No. E9202



NOTE:
MODIFIED FROM A PLAN PROVIDED BY I.E.S. ENGINEERING OF
NORWOOD, MA.

TRC

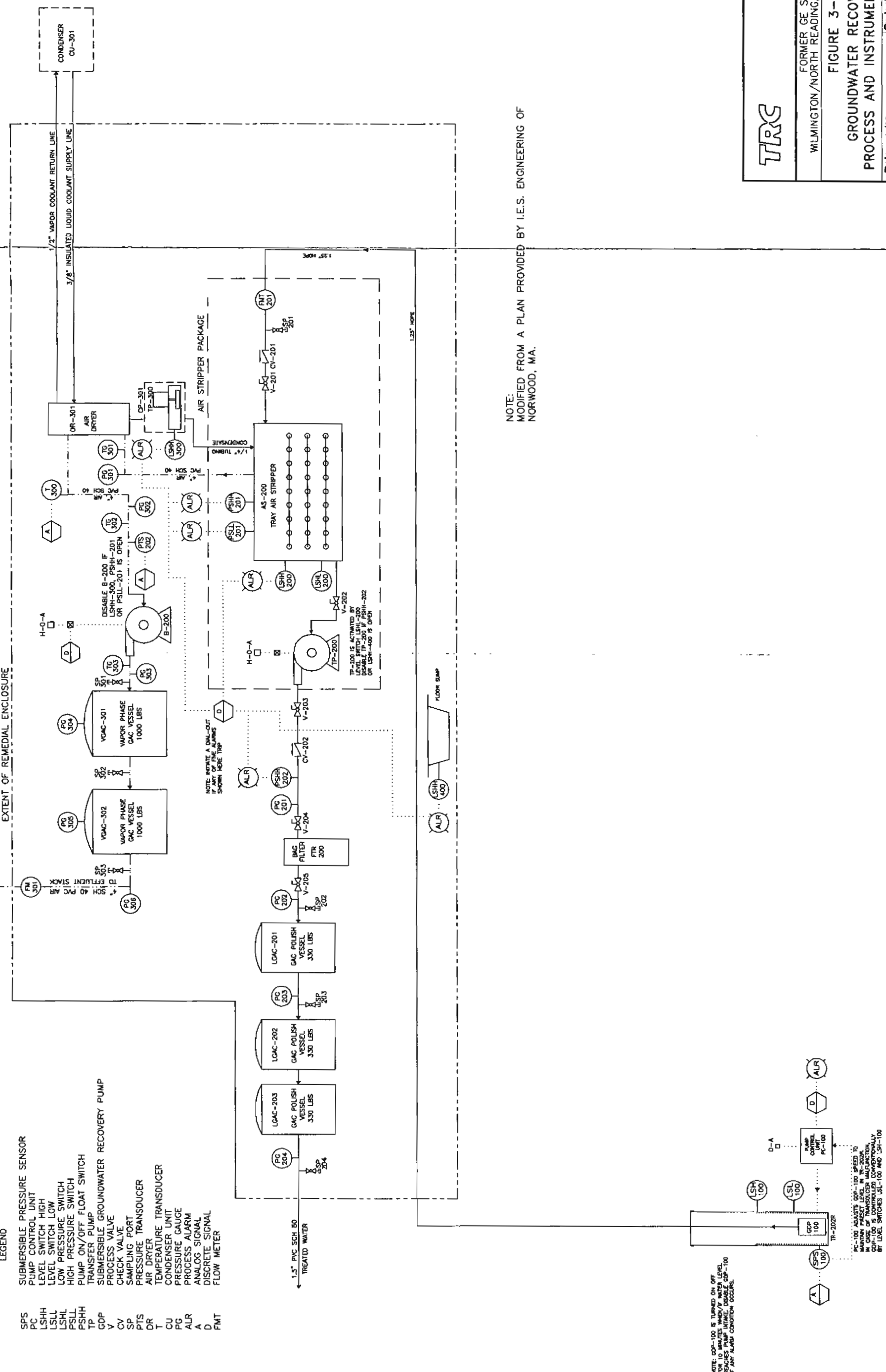
Boat Mills South
116 John Street
Lowell, MA 01852
(978) 970-5600

FORMER GE SITE
WILMINGTON/NORTH READING, MASSACHUSETTS

**FIGURE 3-2
REMEDIAL EQUIPMENT LAYOUT**

Date: 1/06

Project No. E9202



NOTE:
MODIFIED FROM A PLAN PROVIDED BY I.E.S. ENGINEERING OF
NORWOOD, MA.

TRC

Boat Mills South
116 John Street
Lowell, MA 01852
(978) 970-5600

FORMER GE SITE
WILMINGTON/NORTH READING, MASSACHUSETTS

FIGURE 3-3

GROUNDWATER RECOVERY SYSTEM
PROCESS AND INSTRUMENTATION DIAGRAM

Date: 1/06

Project No. E9202

NOTE: GCP-100 IS TURNED ON OFF
FOR 10 MINUTES WHEN/IF WATER LEVEL
REACHES PUMP INTAKE. DISABLE GCP-100
IF ANY ALARM CONDITION OCCURS.

PC-100 MAINTAINS GCP-100 SPEED TO
MAINTAIN PRESET LEVEL IN TP-202R.
IN CASE OF TRANSDUCER MALFUNCTION,
GCP-100 IS CONTROLLED CONVENTIONALLY
BY LEVEL SWITCHES LSL-100 AND LSH-100.

APPENDIX A

GROUNDWATER SAMPLING FIELD FORMS



Groundwater Low-Flow
Sampling Data Record

Project:
Former GE Site

Project No.:
E9202

Date/Time:
5/2/06/1246

Sheet 1 of 1

TRC Personnel:

Matthew Oliveira

Well Identification: TRC-104

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	☒	☐
Concrete Collar Intact	☒	☐
PVC Stick-up Intact	☒	☐
Well Cap Present	☒	☐
Security Lock Present	☐	☒

Protective Casing Stick-up NA ft.
(from ground)

Riser Stick-up NA ft.
(from ground)

WELL DIAMETER ☐ 2 inch
☐ 4 inch
☐ 6 inch
☒ 1.25"

WELL MATERIAL
☒ PVC ☐ SS

Well Depth 10 ft.

Water Depth 2.79 ft.

Depth of pump intake 9 ft.

Height of Water Column 7.21 ft. x

Volume of Water in Well = 6 gallon(s)

[Vol. = $r^2 h(0.163)$]

Reference Point: ☒ historical
☐ measured:
☐ notch
☐ north side
☐ high pt
☐ pen mark

☐ .16 gal/ft (2 in.)
☐ .65 gal/ft (4 in.)
☐ 1.5 gal/ft (6 in.)
☒ gal/ft (1.25 in.)

PID SCREENING (ppmV)

Background	NM
Well Mouth	NM

FIELD WATER QUALITY MEASUREMENTS

Time	1245	1250	1255	1300	1305	1310	1315	1320	1325	1330
Temp. (C)	11.17	11.76	11.95	11.99	12.17	12.30	12.25	12.18	12.11	12.05
Conduct. (µmhos/cm)	485	509	500	514	469	411	410	442	464	498
DO (mg/l)	5.02	6.08	6.28	6.09	6.26	6.66	6.73	6.75	6.59	6.49
pH (Std. Units)	5.97	6.09	6.04	6.03	6.08	6.03	5.94	5.85	5.75	5.69
Eh (millivolts)	124.1	113.0	100.5	98.9	98.5	105.4	106.2	107.5	120.1	128.8
Turb. (NTU)	NM	28.4	30.3	30.5	27.5	28.8	23.0	15.3	14.9	9.28
Flow (ml/min)	200	200	200	200	200	200	200	200	200	200
Depth To Water (ft)	3.90	4.35	4.31	4.05	3.90	4.16	4.27	4.38	4.55	4.86
Time	1335	1340	1345	1350	1355	1400	1405			
Temp. (C)	11.93	11.72	11.57	11.53	11.48	11.45	11.43			
Conduct. (µmhos/cm)	532	600	654	686	723	731	744			
DO (mg/l)	6.16	5.76	5.36	4.98	4.64	4.42	4.26			
pH (Std. Units)	5.60	5.49	5.41	5.34	5.29	5.28	5.29			
Eh (millivolts)	140.5	153.1	160.0	164.6	170.6	169.7	168.9			
Turb. (NTU)	6.91	4.73	4.94	2.30	1.96	2.10	2.38			
Flow (ml/min)	200	200	200	200	200	200	200			
Depth To Water (ft)	4.98	5.03	4.81	4.83	4.86	4.86	4.87			

Pump Type

Peristaltic Pump
Submersible Pump
Bladder Pump
Other:

Purge

Sample

Description of Sampling Equipment (Model and S/N):

See Field book LT6MP Volume A

Analytical Parameter	Filtered (Y/N)	Preservation	Volume/Containers	Time Collected	Sample ID
VPH	N	HCl, pH<2, Ice	2x40ml vials	1410	TRC-104

Signed: Matthew Oliveira

Rev: 1 Nov. 2005

TRCGroundwater Low-Flow
Sampling Data RecordProject:
Former GE SiteProject No.:
E9202Date/Time:
5/2/06/09:40Sheet 1 of 2

TRC Personnel:

Matthew Oliveira

Well Identification: TRC-106

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	☒	☐
Concrete Collar Intact	☒	☐
PVC Stick-up Intact	☒	☐
Well Cap Present	☒	☐
Security Lock Present	☐	☒

Protective
Casing Stick-up NA ft.
(from ground)Riser Stick-up NA ft.
(from ground)WELL DIAMETER
☐ 2 inch
☐ 4 inch
☐ 6 inch
☒ 1.25

WELL MATERIAL

☒ PVC ☐ SS ☐Well
Depth 12 ft.Water
Depth 4.00 ft.Depth of pump intake 29 ft.Height of
Water Column 8.00 ft. xVolume of Water in Well = 28 gallon(s)[Vol. = $r^2 h(0.163)$]Reference Point: ☒ historical
☒ measured:
☐ notch
☐ north side
☐ high pt
☐ pen mark☐ .16 gal/ft (2 in.)
☐ .65 gal/ft (4 in.)
☐ 1.5 gal/ft (6 in.)
☒ gal/ft (2.5 in.)

PID SCREENING (ppmV)

Background	NM
Well Mouth	NM

FIELD WATER QUALITY MEASUREMENTS

Time	0945	0950	0955	1000	1005	1010	1015	1020	1025	1030
Temp. (C)	9.63	9.68	9.66	9.73	9.80	9.80	9.81	9.79	9.86	9.81
Conduct. (µmhos/cm)	184	174	174	173	172	173	173	173	174	174
DO (mg/l)	6.25	4.33	4.06	3.59	3.41	3.25	3.19	3.32	3.20	3.20
pH (Std. Units)	7.39	6.94	6.86	6.80	6.83	7.51	7.74	7.97	7.93	8.14
Eh (millivolts)	204.6	205.9	204.6	206.5	203.5	181.4	169.1	159.2	153.1	133.5
Turb. (NTU)	NM	9.44	8.29	9.43	7.16	5.33	3.73	3.13	2.18	2.06
Flow (ml/min)	160	150	150	160	210	210	210	210	210	210
Depth To Water (ft)	5.50	5.71	5.56	6.75	5.75	5.45	5.48	5.95	5.95	5.85
Time	1035	1040	1045	1050	1055	1100	1105			
Temp. (C)	9.80	9.81	9.79	9.84	9.74	9.77	9.72			
Conduct. (µmhos/cm)	174	173	173	174	174	174	173			
DO (mg/l)	3.52	3.40	3.41	3.67	4.39	5.27	6.46			
pH (Std. Units)	8.28	8.09	8.00	7.83	8.10	8.13	8.13			
Eh (millivolts)	109.7	109.2	96.3	86.6	62.2	53.0	43.4			
Turb. (NTU)	1.64	1.66	1.41	4.16	4.86	4.40	4.16			
Flow (ml/min)	210	210	210	210	210	210	210			
Depth To Water (ft)	5.86	5.55	5.20	5.30	5.05	5.10	5.15			

Pump Type

Peristaltic Pump
Submersible Pump
Bladder Pump
Other:

Purge

Sample

Description of Sampling Equipment (Model and S/N):

See Field book LTGMP Volume A

Analytical Parameter	Filtered (Y/N)	Preservation	Volume/Containers	Time Collected	Sample ID
VPH	N	HCl, pH<2, Ice	2x40ml VOA's	12:15	TRC-106

Signed: Matthew Oliveira

Rev: 1- Nov. 2005

TRCGroundwater Low-Flow
Sampling Data RecordProject:
Former GE SiteProject No.:
E9202Date/Time:
5/2/06Sheet 2 of 2

TRC Personnel:

Matthew Oliveira

Well Identification: TRC-106

WELL INTEGRITY

Protect. Casing Secure ☒ YES ☐ NO
 Concrete Collar Intact ☒ YES ☐ NO
 PVC Stick-up Intact ☒ YES ☐ NO
 Well Cap Present ☒ YES ☐ NO
 Security Lock Present ☒ YES ☐ NO

Protective
Casing Stick-up
(from ground) NA ft.Riser Stick-up
(from ground) NA ft.WELL DIAMETER ☐ 2 inch
☐ 4 inch
☐ 6 inch
☒ 1.25 ft

WELL MATERIAL

☒ PVC☐ SSWell
Depth 12 ft.Water
Depth 4.00 ft.Depth of pump Intake 29 ft.

Height of

Water Column

Volume of Water in Well = _____ gallon(s)

[Vol. = $r^2 h(0.163)$]

Reference Point:

☒ historical
☐ measured:
☐ notch
☐ north side
☐ high pt
☐ pen mark☐ .16 gal/ft (2 in.)☐ .65 gal/ft (4 in.)☐ 1.5 gal/ft (6 in.)☒ gal/ft (1.25 in.)8Total gallons
purged

PID SCREENING (ppmV)

Background NM
 Well Mouth NM

FIELD WATER QUALITY MEASUREMENTS

Time	1110	1115	1120	1125	1130	1135	1140	1145	1150	1155
Temp. (C)	9.80	9.78	9.69	9.72	9.83	9.78	9.95	9.80	9.75	9.79
Conduct. (µmhos/cm)	173	173	173	172	172	171	172	172	171	171
DO (mg/l)	6.89	6.94	7.60	7.87	6.86	6.21	5.53	5.19	4.64	4.20
pH (Std. Units)	8.03	8.00	7.79	7.62	7.55	7.53	7.78	7.78	7.67	7.81
Eh (millivolts)	45.0	42.6	41.2	41.5	40.2	38.2	20.4	23.8	28.0	13.0
Turb. (NTU)	4.07	3.60	4.84	4.41	4.25	4.14	3.75	4.11	4.88	3.91
Flow (ml/min)	210	210	210	210	210	210	210	210	210	210
Depth To Water (ft)	4.90	4.77	NM	NM	NM	NM	NM	NM	5.60	5.80
Time	1200	1205	1210							
Temp. (C)	9.77	9.75	9.78							
Conduct. (µmhos/cm)	171	171	172							
DO (mg/l)	3.96	3.82	3.87							
pH (Std. Units)	7.80	7.80	7.87							
Eh (millivolts)	15.1	18.2	12.0							
Turb. (NTU)	3.55	4.04	4.56							
Flow (ml/min)	210	210	210							
Depth To Water (ft)	5.60	5.66	5.60							

Pump Type

Peristaltic Pump ☒
 Submersible Pump ☐
 Bladder Pump ☐
 Other: ☐

Purge

Sample

Description of Sampling Equipment (Model and S/N):

See Field book - LT6M-P Volume A

Analytical Parameter	Filtered (Y/N)	Preservation	Volume/Containers	Time Collected	Sample ID
VPH	N	HCl, pH<2, Ice	2x40ml VOA's	12:15	TRC-106

Signed: Matthew Oliveira

Rev: 1 Nov. 2005

TRCGroundwater Low-Flow
Sampling Data RecordProject:
Former GE SiteProject No.:
E9202Date/Time:
5/3/06/10:10Sheet 1 of 1

TRC Personnel:

Matthew Oliveira

Well Identification: WE-45

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	☒	☐
Concrete Collar Intact	☒	☐
PVC Stick-up Intact	☒	☐
Well Cap Present	☒	☐
Security Lock Present	☐	☒

*Needs EON flush mount
cap. Current cap is breaking
but still keeps plot
runner out of well*

PID SCREENING (ppmV)

Background	NM
Well Mouth	NM

Protective
Casing Stick-up NA ft.
(from ground)Riser Stick-up NA ft.
(from ground)WELL DIAMETER ☒ 2 inch
☐ 4 inch
☐ 6 inch

WELL MATERIAL

☒ PVC ☐ SS ☐Well
Depth 13 ft.Water
Depth 3.29 ft.Depth of pump intake 10 ft.Height of
Water Column 9.71 ft. xVolume of Water in Well = 1.55 gallon(s)[Vol. = $r^2 h(0.163)$]

Reference Point:

☒ historical
☒ top of riser
☐ top of casing☐ measured;
☐ notch
☐ north side
☐ high pt
☐ pen mark☒ .16 gal/ft (2 in.)
☐ .65 gal/ft (4 in.)
☐ 1.5 gal/ft (6 in.)
☐ gal/ft (in.)≈ 4 Total gallons
purged

FIELD WATER QUALITY MEASUREMENTS

Time	1015	1020	1025	1030	1035	1040	1045	1050	1055	1100
Temp. (C)	12.15	12.34	12.40	12.48	12.57	12.67	12.59	12.76	12.74	12.42
Conduct. (µmhos/cm)	316	207	170	164	188	239	260	297	336	347
DO (mg/l)	5.45	5.97	6.88	6.77	5.73	4.45	4.18	4.15	3.62	3.58
pH (Std. Units)	6.30	6.20	6.08	5.96	5.86	5.76	5.71	5.63	5.61	5.60
Eh (millivolts)	127.2	137.4	148.9	159.8	165.6	169.2	161.8	157.3	146.9	143.1
Turb. (NTU)	14.3	11.2	6.58	5.92	3.63	3.11	2.57	2.09	1.99	1.91
Flow (ml/min)	200	200	200	200	200	250	250	250	250	200
Depth To Water (ft)	3.48	3.47	3.48	3.48	3.48	3.48	3.48	3.48	3.45	3.45
Time	1105	1110	1115							
Temp. (C)	12.51	12.57	12.58							
Conduct. (µmhos/cm)	356	370	370							
DO (mg/l)	3.55	3.29	3.37							
pH (Std. Units)	5.59	5.60	5.58							
Eh (millivolts)	140.7	138.2	136.7							
Turb. (NTU)	2.24	2.18	2.04							
Flow (ml/min)	200	200	200							
Depth To Water (ft)	3.45	3.48	3.48							

Pump Type

Peristaltic Pump
Submersible Pump
Bladder Pump
Other:

Purge

Sample

Description of Sampling Equipment (Model and S/N):

See Field book LTGMP Volume A

Analytical Parameter	Filtered (Y/N)	Preservation	Volume/Containers	Time Collected	Sample ID
VPH	N	HCl, pH<2, Ice	2x40ml VOA's	11:20	WE-45
VPH	N	HCl, pH<2, Ice	6x40ml VOA's	11:20	MW-901 (P5/0UP)

Signed: Matthew Oliveira

Rev. 1 Nov. 2005



Groundwater Low-Flow
Sampling Data Record

Project:
Former GE Site

Project No.:
E9202

Date/Time:
5/3/06/08:30

Sheet 1 of 1

TRC Personnel:
Matthew Oliveira

Well Identification: WE-7

WELL INTEGRITY

Protect. Casing Secure ☒ YES ☐ NO
Concrete Collar Intact ☒ YES ☐ NO
PVC Stick-up Intact ☒ YES ☐ NO
Well Cap Present ☒ YES ☐ NO
Security Lock Present ☐ YES ☒ NO

PID SCREENING (ppmV)

Background NM
Well Mouth NM

Protective Casing Stick-up NA ft.
(from ground)

Riser Stick-up NA ft.
(from ground)

WELL DIAMETER ☐ 2 inch
☐ 4 inch
☐ 6 inch
☒ 1.5

WELL MATERIAL

☒ PVC ☐ SS ☐

Well Depth 12 ft.

Water Depth 3.30 ft.

Depth of pump intake 9 ft.

Height of Water Column 8.70 ft. x

Volume of Water in Well = 3.5 gallon(s)

[Vol. = $r^2 h(0.163)$]

Reference Point: ☒ historical
☐ measured:
☐ notch
☐ north side
☐ high pt
☐ pen mark

☐ .16 gal/ft (2 in.)
☐ .65 gal/ft (4 in.)
☐ 1.5 gal/ft (6 in.)
☒ gal/ft (1.5 in.)
3.5 Total gallons
purged

FIELD WATER QUALITY MEASUREMENTS

Time	0835	0840	0845	0850	0855	0900	0905	0910	0915	0920
Temp. (C)	13.08	13.21	13.20	13.06	12.94	13.07	13.06	13.05	12.99	13.01
Conduct. (umhos/cm))	439	444	463	483	492	499	515	530	547	564
DO (mg/l)	7.20	7.08	6.52	6.30	6.04	5.72	5.71	5.14	5.01	4.95
pH (Std. Units)	6.91	6.81	6.72	6.66	6.62	6.57	6.35	6.51	6.48	6.45
Eh (millivolts)	205.1	205.7	210.2	212.1	207.6	203.7	198.3	196.0	193.9	192.7
Turb. (NTU)	7.60	7.01	5.90	5.09	4.66	4.13	3.35	3.09	2.64	2.26
Flow (ml/min)	210	210	200	200	200	200	200	200	200	200
Depth To Water (ft)	3.45	3.42	3.45	3.43	3.43	3.43	3.43	3.43	3.43	3.43
Time	0925	0930	0935							
Temp. (C)	12.97	12.96	12.92							
Conduct. (umhos/cm)	579	586	589							
DO (mg/l)	4.92	4.97	4.78							
pH (Std. Units)	6.42	6.40	6.40							
Eh (millivolts)	190.8	189.7	188.2							
Turb. (NTU)	1.98	2.14	2.08							
Flow (ml/min)	200	200	200							
Depth To Water (ft)	3.43	3.43	3.43							

Pump Type

Peristaltic Pump ☒
Submersible Pump ☐
Bladder Pump ☐
Other: ☐

Purge

Sample

Description of Sampling Equipment (Model and S/N):

See Field book LTGMP Volume A

Analytical Parameter	Filtered (Y/N)	Preservation	Volume/Containers	Time Collected	Sample ID
VPH	N	HCl, pH<2, Ice	2x40ml VOA's	0940	WE-7

Signed: Matthew Oliveira

Rev: 1 Nov. 2005

TRCGroundwater Low-Flow
Sampling Data RecordProject:
Former GE SiteProject No.:
E9202Date/Time:
5/2/06/1625

Sheet 1 of 1

TRC Personnel:

Matthew Oliveira

Well Identification: WE-8

WELL INTEGRITY

Protect. Casing Secure ☒ YES ☐ NO
 Concrete Collar Intact ☒ YES ☐ NO
 PVC Stick-up Intact ☒ YES ☐ NO
 Well Cap Present ☒ YES ☐ NO
 Security Lock Present ☒ YES ☐ NO

concrete sinking + cracked

PID SCREENING (ppmV)

Background NM
 Well Mouth NM

Protective Casing Stick-up NA ft.
(from ground)Riser Stick-up NA ft.
(from ground)

WELL DIAMETER ☐ 2 inch
☒ 4 inch
☐ 6 inch

WELL MATERIAL

☒ PVC ☐ SS ☐

Well Depth 17 ft.Water Depth 3.00 ft.Depth of pump intake 13 ft.

Height of

Water Column 14.0 ft. xVolume of Water in Well = 9.1 gallon(s)[Vol. = $r^2 h(0.163)$]

Reference Point:

☒ top of riser
☐ top of casing

☒ historical
☐ measured:
☐ notch
☐ north side
☐ high pt
☐ pen mark

☐ .16 gal/ft (2 in.)☒ .65 gal/ft (4 in.)☐ 1.5 gal/ft (6 in.)☐ gal/ft (in.)~3 Total gallons purged

FIELD WATER QUALITY MEASUREMENTS

Time	1630	1635	1640	1645	1650	1655	1700	1705	1710	1715
Temp. (C)	12.16	12.30	12.27	12.25	12.24	12.35	12.25	12.38	12.41	12.38
Conduct. (umhos/cm))	87	78	75	75	73	72	72	71	71	71
DO (mg/l)	7.27	6.95	6.91	6.83	6.74	6.69	6.59	6.50	6.41	6.23
pH (Std. Units)	6.55	6.32	6.17	6.06	5.97	5.92	5.93	5.91	5.91	5.89
Eh (millivolts)	49.0	70.1	79.8	89.0	100.6	97.4	97.0	108.4	112.4	117.0
Turb. (NTU)	187	193	175	160	181	179	207	163	154	152
Flow (ml/min)	225	225	200	200	200	250	210	210	210	210
Depth To Water (ft)	3.35	3.60	3.75	3.80	3.88	3.97	3.94	3.94	3.94	3.94
Time										
Temp. (C)										
Conduct. (umhos/cm)										
DO (mg/l)										
pH (Std. Units)										
Eh (millivolts)										
Turb. (NTU)										
Flow (ml/min)										
Depth To Water (ft)										

Pump Type

Peristaltic Pump ☒
 Submersible Pump ☐
 Bladder Pump ☐
 Other: ☐

Purge

Sample

Description of Sampling Equipment (Model and S/N):

See Field book LT6MP Volume A

Analytical Parameter	Filtered (Y/N)	Preservation	Volume/Containers	Time Collected	Sample ID
VPH	N	HCl, pH<2, Ice	2x40ml VOA's	1720	WE-8

Signed: Matthew Oliveira

Rev: 1 Nov. 2005



Groundwater Low-Flow
Sampling Data Record

Project:
Former GE Site

Project No.:
E9202

Date/Time:
5/2/06/1440

Sheet 1 of 1

TRC Personnel:

Matthew Oliveira

Well Identification: WE-9

WELL INTEGRITY

Protect. Casing Secure ☒ YES ☐ NO
Concrete Collar Intact ☒ YES ☐ NO
PVC Stick-up Intact ☒ YES ☐ NO
Well Cap Present ☒ YES ☐ NO
Security Lock Present ☐ YES ☒ NO

Protective Casing Stick-up (from ground) NA ft.

Riser Stick-up (from ground) NA ft.

WELL DIAMETER ☒ 2 inch
☐ 4 inch
☐ 6 inch

WELL MATERIAL

☒ PVC ☐ SS ☐

Well Depth 12 ft.

Water Depth 3.56 ft.

Depth of pump intake _____ ft.

Reference Point: ☒

☒ top of riser
☐ top of casing

☒ historical
☐ measured:
☐ notch
☐ north side
☐ high pt
☐ pen mark

☒ .16 gal/ft (2 in.)
☐ .65 gal/ft (4 in.)
☐ 1.5 gal/ft (6 in.)
☐ _____ gal/ft (____ in.)

Height of Water Column 8.44 ft. x

Volume of Water in Well = 1.35 gallon(s)

~4.5 Total gallons purged

[Vol. = $r^2 h(0.163)$]

PID SCREENING (ppmV)

Background NM
Well Mouth NM

FIELD WATER QUALITY MEASUREMENTS

Time	1445	1450	1455	1500	1505	1510	1515	1520	1525	1530
Temp. (C)	12.64	12.64	12.69	12.66	12.63	12.59	12.60	12.53	12.51	12.56
Conduct. (umhos/cm)	672	670	670	668	666	665	665	664	664	664
DO (mg/l)	0.83	0.23	0.21	0.22	0.24	0.26	0.29	0.34	0.30	0.25
pH (Std. Units)	6.33	6.31	6.27	6.24	6.21	6.16	6.13	6.11	6.10	6.08
Eh (millivolts)	-78.6	-109.6	-124.8	-132.0	-96.8	-103.7	-105.2	-126.0	-122.1	-112.8
Turb. (NTU)	NM	NM	NM	14.8	7.13	5.69	5.00	2.67	2.41	2.45
Flow (ml/min)	200	225	225	225	225	225	225	225	225	225
Depth To Water (ft)	3.65	3.69	3.70	3.72	3.72	3.72	3.72	3.72	3.72	3.72
Time	1535	1540	1545	1550						
Temp. (C)	12.54	12.52	12.52	12.51						
Conduct. (umhos/cm)	664	663	663	663						
DO (mg/l)	0.25	0.28	0.28	0.26						
pH (Std. Units)	6.08	6.06	6.05	6.05						
Eh (millivolts)	-109.4	-102.9	-98.0	-102.0						
Turb. (NTU)	2.08	1.99	1.62	1.68						
Flow (ml/min)	225	225	225	225						
Depth To Water (ft)	3.72	3.72	3.72	3.72						

Pump Type

Peristaltic Pump ☒
Submersible Pump ☐
Bladder Pump ☐
Other: ☐

Purge ☒

Sample ☒

Description of Sampling Equipment (Model and S/N):

See Field book LTGMP Volume A

Analytical Parameter	Filtered (Y/N)	Preservation	Volume/Containers	Time Collected	Sample ID
VPH	N	HCl, pH<2, Ice	2x40ml VOA's	1555 5/5/06 1440	WE-9

NM - not measured - visibly out of range

Signed:

Rev. 1 Nov. 2005

TRC Field Instrument Calibration Log

Date: 5/3/06

Site Name: Former GE Site

Water Quality Instrument Type / ID: YSI-600XL: SN=01KD505

Turbidity Instrument Type / ID: Lanette 20-20: SN=2432-0901

Date of Last Temperature Probe Check: _____

Dissolved Oxygen (DO)

Time	Barometric Pressure (mm Hg)	Temperature (°Celsius)	100% Saturation Calibration (On Instrument)	Actual 100% Saturation Calibration (Refer to Attachment A)	Oxygen Solubility at Indicated Pressure (mg/L) (On Instrument)	Actual Oxygen Solubility at Indicated Pressure (mg/L) (Refer to Attachment B)	Zero DO Check (mg/L)	Comments	Initials
0735	759.2	16.41	107.9	100	10.56	9.73			MAO
1206	759.2	13.06	101.4	100	10.91	10.74			MAO

pH

Time	Solution Temperature (°Celsius)	pH 7	pH 4	pH 10	pH 7 Check	Comments	Initials
0739	16.42	7.14					MAO
0743	15.85		3.93				MAO
0747	15.86			9.90			MAO
0751	15.75			MAO 9.90			MAO
1210	13.89	6.99					
1213	14.02		4.02				
1216	14.07			10.06			

Specific Conductance

Time	Specific Conductance Reading (umhos/cm3)	Comments	Initials
0754	1389		MAO
1219	1384		MAO

Oxidation Reduction Potential (ORP)

Time	Solution Temperature (°Celsius)	ORP Reading (mV) (Refer to Attachment C)	Actual ORP Reading (mV) (On Instrument)	Comments	Initials
0756	16.10	243.7	229.2		MAO
1222	13.31	246.0	248.0		MAO

Turbidity

Time	Zero Standard	Standard #1 (1 NTUs)	Standard #2 (10 NTUs)	Comments	Initials
0737		1.03			MAO
0744			9.20		MAO
1215		1.26			MAO
1218			9.88		MAO

Calibration Fluid ID / Expiration Date: See Field book LTGMP Volume A

Zero DO: _____

Specific Conductance: _____

pH 4: _____

pH 7: _____

pH 10: _____

ORP: _____

Zero Turbidity: _____

Turbidity Std. # 1: _____

Turbidity Std. # 2: _____

Signed

Matthew

APPENDIX B

LABORATORY REPORTS AND DATA
VALIDATION

LTGMP May 2006 Sampling Event: Data Validation

Samples collected during this sampling event were submitted to Alpha Woods Hole Laboratory in Westborough, MA for analysis. Samples were analyzed for volatile organic compounds (VOCs) using SW-846 method 8260B and/or volatile petroleum hydrocarbons (VPH) using the MassDEP method. The analyses were performed as per the requirements outlined in the Compendium of Analytical Methods (CAM), MCP CAM-IIA for VOCs and MCP CAM-IVA for VPH. The samples included in this review are listed below and were collected May 2 and 3, 2006.

VOCs

BRW-1R2	IP-2R3
BRW-1R4	IP-1R2
EMW-11R1	IP-4R3
EMW-11R2	IP-4R1
TRC-401R-B	IP-3R2
IP-2R1	

VPH

WE-4S	WE-9
WE-7	TRC-104
WE-8	TRC-106

TRC performed a limited validation of the VOC and VPH analytical data associated with these samples. The sample results were assessed using the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review (10/99)*. Modification of the Functional Guidelines was done to accommodate the non-CLP methodologies used by the laboratory. Qualification of sample data was not performed.

The limited validation was based upon the following parameters: holding times, cooler temperatures, blanks (laboratory method blanks and trip blanks), surrogate spike recoveries, laboratory control sample (LCS) results, LCS duplicate results, matrix spike/matrix spike duplicate (MS/MSD) results, laboratory duplicate results, field duplicate results, and an evaluation of sample quantitation limits. These parameters provide an adequate assessment of the overall accuracy and precision of the data set.

In general, the data appear to be valid as reported and may be used for decision-making purposes. It should be noted that Presumptive Certainty was obtained for this data set.

Accuracy

All samples were received with cooler temperatures within the method-specified range. All samples were analyzed within the method-specified holding time.

Target compounds were not detected in any of the laboratory method blanks or trip blanks for VOC and VPH analyses. All samples exhibited acceptable surrogate recoveries in the VOC and VPH analyses.

The VPH LCS and LCS Duplicates associated with this data set exhibited acceptable recoveries of all target compounds. One VOC LCS/LCS Duplicate exhibited high recovery of trichlorofluoromethane (134%) and low recoveries of acetone (64%), carbon disulfide (69%), ethyl ether (66%), and isopropyl ether (67%) in either the LCS or LCS Duplicate. Data usability was not affected for trichlorofluoromethane as this compound was not detected in the associated samples and therefore not affected by the potential high bias. Data usability was not affected for the remaining compounds as either the quantitation limits were significantly below the project action levels or a project action level does not exist; it should be noted that these compounds are also not contaminants of concern at this site.

MS analyses were performed on sample WE-4S for VPH and MS/MSD analyses were performed on sample IP-4R1 for VOCs. The recoveries of all target compounds were within the acceptance limits in the VPH analyses. The recoveries of methyl tert butyl ether (66%/59%), 2,2-dichloropropane (68%/62%), and carbon disulfide (68%) fell below the acceptance limits in the VOC MS and/or MSD. Data usability was not affected for these compounds as the methyl tert butyl ether quantitation limit was significantly below the project action level and a project action level does not exist for carbon disulfide and 2,2-dichloropropane; it should be noted that these compounds are also not contaminants of concern at this site.

Precision

Samples IP-4R1/MW-902 and WE-4S/MW-901 were submitted as the field duplicate pairs with this sample set. The relative percent differences (RPDs) of the detected compounds were within the acceptance criteria in both field duplicate pairs.

The RPDs of the target compounds were within the acceptance limits in the VPH LCS/LCS duplicate and VOC MS/MSD analyses. The RPDs of ethyl tertiary butyl ether (29), tertiary amyl methyl ether (26), and methyl tert butyl ether (43) in one VOC LCS/LCS Duplicate exceeded the acceptance criteria. Data usability was not adversely affected by these slight nonconformances.

VPH laboratory duplicate analyses were performed on sample WE-4S; all criteria were met.

Quantitation Limits

No dilutions were performed for the VPH analyses. The quantitation limits were below the GW-1 standards in all samples.

Select samples were analyzed on dilution for VOC analyses due to the concentrations of target compounds which would have exceeded the calibration range if not diluted. The following dilutions were performed: BRW-1R2 (10-fold), BRW-1R4 (10-fold), EMW-11R1 (10-fold), EMW-11R2 (10-fold), IP-4R1 (10-fold), TRC-401R-B (100-fold), IP-

4R3 (100-fold), IP-2R1 (25-fold), IP-2R3 (25-fold), IP-1R2 (200-fold), and IP-3R2 (50-fold). Quantitation limits for these samples were elevated accordingly by the laboratory and exceed GW-1 standards for select compounds.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client:	TRC Environmental Corporation	Laboratory Job Number:	L0606646
Address:	Boott Mills South 116 John Street Lowell, MA 01852	Date Received:	04-MAY-2006
Attn:	Mr. Ken Cormier	Date Reported:	11-MAY-2006
Project Number:	E9202	Delivery Method:	Alpha
Site:	FORMER GE SITE		

The following questions pertain only to MCP Analytical Methods

An affirmative response to questions A,B,C & D is required for "Presumptive Certainty" status

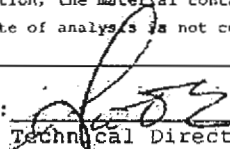
- A. Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set? YES
- B. Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? YES
- C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? YES
- D. VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3? YES

A response to questions E and F is required for "Presumptive Certainty" status

- E. Were all QC performance standards and recommendations for the specified method(s) achieved? YES
- F. Were results for all analyte-list compounds/elements for the specified method(s) reported? YES

Any answers of NO to the above questions are addressed in the case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: 
Technical Director

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0606646

Date Reported: 11-MAY-2006

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0606646-01	TRC-106	WILMINGTON, MA
L0606646-02	TRC-104	WILMINGTON, MA
L0606646-03	WE-9	WILMINGTON, MA
L0606646-04	WE-8	WILMINGTON, MA
L0606646-05	WE-7	WILMINGTON, MA
L0606646-06	WE-4S	WILMINGTON, MA
L0606646-07	MW-901	WILMINGTON, MA
L0606646-08	TB-01	WILMINGTON, MA

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0606646

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Report Submission

All MCP required questions were answered with affirmative responses, therefore, there are no relevant data issues to discuss.

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number:	L0606646-01	Date Collected:	02-MAY-2006 12:15
	TRC-106	Date Received :	04-MAY-2006
Sample Matrix:	WATER	Date Reported :	11-MAY-2006
Condition of Sample:	Satisfactory	Field Prep:	None
Number & Type of Containers:	2-Vial		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons				59 VPH-04-1.1		0505 15:07 TT	
---------------------------------	--	--	--	---------------	--	---------------	--

Quality Control Information

Condition of sample received:	Satisfactory
Aqueous preservative:	Laboratory Provided Preserved Container
Sample temperature upon receipt:	Received on Ice
Were all QA/QC procedures REQUIRED by the method followed?	YES
Were all performance/acceptance standards for the required procedures achieved?	YES
Were significant modifications made to the method as specified in Sect 11.3?	NO
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.	

C5-C8 Aliphatics	98.2	ug/l	50.0
C9-C12 Aliphatics	239	ug/l	50.0
C9-C10 Aromatics	154	ug/l	50.0
C5-C8 Aliphatics, Adjusted	87.7	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0
Benzene	2.52	ug/l	2.00
Toluene	8.02	ug/l	2.00
Ethylbenzene	10.2	ug/l	2.00
p/m-Xylene	22.0	ug/l	2.00
o-Xylene	9.81	ug/l	2.00
Methyl tert butyl ether	ND	ug/l	3.00
Naphthalene	ND	ug/l	10.0
Surrogate(s)	Recovery		QC Criteria
2,5-Dibromotoluene-PID	104	%	70-130
2,5-Dibromotoluene-FID	103	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606646-02 Date Collected: 02-MAY-2006 14:10
 Sample Matrix: WATER Date Received: 04-MAY-2006
 Condition of Sample: Satisfactory Date Reported: 11-MAY-2006
 Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
-----------	--------	-------	-----	------------	-------------------	----

Volatile Petroleum Hydrocarbons 59 VPH-04-1117 0505 15:59 TT

Quality Control Information

Condition of sample received: Satisfactory
 Aqueous preservative: Laboratory Provided Preserved Container
 Sample temperature upon receipt: Received on Ice
 Were all QA/QC procedures REQUIRED by the method followed? YES
 Were all performance/acceptance standards for the required procedures achieved? YES
 Were significant modifications made to the method as specified in Sect 11.3? NO
 The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.

C5-C8 Aliphatics	ND	ug/l	50.0
C9-C12 Aliphatics	ND	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0
Benzene	ND	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	ND	ug/l	2.00
p/m-Xylene	ND	ug/l	2.00
o-Xylene	ND	ug/l	2.00
Methyl tert butyl ether	ND	ug/l	3.00
Naphthalene	ND	ug/l	10.0
Surrogate(s)	Recovery		QC Criteria
2,5-Dibromotoluene-PID	91.0	%	70-130
2,5-Dibromotoluene-FID	91.0	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606646-03

Date Collected: 02-MAY-2006 15:55

WE-9

Date Received : 04-MAY-2006

Sample Matrix:

WATER

Date Reported : 11-MAY-2006

Condition of Sample:

Satisfactory

Field Prep:

None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons

59 VPH-04-1-1

0505-16:50:11

Quality Control Information

Condition of sample received:

Satisfactory

Aqueous preservative:

Laboratory Provided Preserved Container

Sample temperature upon receipt:

Received on Ice

Were all QA/QC procedures REQUIRED by the method followed?

YES

Were all performance/acceptance standards for the required procedures achieved?

YES

Were significant modifications made to the method as specified in Sect 11.3?

NO

The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.

C5-C8 Aliphatics	340	ug/l	50.0
C9-C12 Aliphatics	864	ug/l	50.0
C9-C10 Aromatics	648	ug/l	50.0
C5-C8 Aliphatics, Adjusted	340	ug/l	50.0
C9-C12 Aliphatics, Adjusted	161	ug/l	50.0
Benzene	ND	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	49.8	ug/l	2.00
p/m-Xylene	3.01	ug/l	2.00
o-Xylene	2.24	ug/l	2.00
Methyl tert butyl ether	ND	ug/l	3.00
Naphthalene	20.8	ug/l	10.0

Surrogate(s)

Recovery

QC Criteria

2,5-Dibromotoluene-PID

93.0

%

70-130

2,5-Dibromotoluene-FID

92.0

%

70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606646-04

WE-8

Sample Matrix: WATER

Date Collected: 02-MAY-2006 17:20

Date Received : 04-MAY-2006

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons				59 VEH-04-111		0505 17:42 TT	
---------------------------------	--	--	--	---------------	--	---------------	--

Quality Control Information

Condition of sample received:

Satisfactory

Aqueous preservative:

Laboratory Provided Preserved Container

Sample temperature upon receipt:

Received on Ice

Were all QA/QC procedures REQUIRED by the method followed?

YES

Were all performance/acceptance standards for the required procedures achieved?

YES

Were significant modifications made to the method as specified in Sect 11.3?

NO

The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.

C5-C8 Aliphatics	ND	ug/l	50.0
C9-C12 Aliphatics	ND	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0
Benzene	ND	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	ND	ug/l	2.00
p/m-Xylene	ND	ug/l	2.00
o-Xylene	ND	ug/l	2.00
Methyl tert butyl ether	ND	ug/l	3.00
Naphthalene	ND	ug/l	10.0
Surrogate(s)	Recovery		QC Criteria
2,5-Dibromotoluene-PID	86.0	%	70-130
2,5-Dibromotoluene-FID	87.0	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606646-05

WE-7

Sample Matrix:

WATER

Date Collected: 03-MAY-2006 09:40

Date Received : 04-MAY-2006

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons				59.VPH-04-171		0505-18:33	TT
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Quality Control Information

Condition of sample received:

Satisfactory

Aqueous preservative:

Laboratory Provided Preserved Container

Sample temperature upon receipt:

Received on Ice

Were all QA/QC procedures REQUIRED by the method followed?

YES

Were all performance/acceptance standards for the required procedures achieved?

YES

Were significant modifications made to the method as specified in Sect 11.3?

NO

The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.

C5-C8 Aliphatics	ND	ug/l	50.0
C9-C12 Aliphatics	ND	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0
Benzene	ND	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	ND	ug/l	2.00
p/m-Xylene	ND	ug/l	2.00
o-Xylene	ND	ug/l	2.00
Methyl tert butyl ether	ND	ug/l	3.00
Naphthalene	ND	ug/l	10.0

Surrogate(s)	Recovery	QC Criteria
2,5-Dibromotoluene-PID	100 %	70-130
2,5-Dibromotoluene-FID	101 %	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606646-06

Date Collected: 03-MAY-2006 11:20

WE-4S

Date Received : 04-MAY-2006

Sample Matrix:

WATER

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons 59-VEH-04-1.1 0505 19:25 TT

Quality Control Information

Condition of sample received:

Satisfactory

Aqueous preservative:

Laboratory Provided Preserved Container

Sample temperature upon receipt:

Received on Ice

Were all QA/QC procedures REQUIRED by the method followed?

YES

Were all performance/acceptance standards for the required procedures achieved?

YES

Were significant modifications made to the method as specified in Sect 11.3?

NO

The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.

C5-C8 Aliphatics	ND	ug/l	50.0
C9-C12 Aliphatics	130	ug/l	50.0
C9-C10 Aromatics	79.1	ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0
Benzene	ND	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	4.77	ug/l	2.00
p/m-Xylene	21.0	ug/l	2.00
o-Xylene	ND	ug/l	2.00
Methyl tert butyl ether	ND	ug/l	3.00
Naphthalene	ND	ug/l	10.0

Surrogate(s)

Recovery

QC Criteria

2,5-Dibromotoluene-PID

96.0

%

70-130

2,5-Dibromotoluene-FID

97.0

%

70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606646-07

Date Collected: 03-MAY-2006 11:20

MW-901

Date Received : 04-MAY-2006

Sample Matrix:

WATER

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 6-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons				59 VPH-04-1.1		0505 20:16 TT	
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Quality Control Information

Condition of sample received:

Satisfactory

Aqueous preservative:

Laboratory Provided Preserved Container

Sample temperature upon receipt:

Received on Ice

Were all QA/QC procedures REQUIRED by the method followed?

YES

Were all performance/acceptance standards for the required procedures achieved?

YES

Were significant modifications made to the method as specified in Sect 11.3?

NO

The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.

C5-C8 Aliphatics	ND	ug/l	50.0
C9-C12 Aliphatics	126	ug/l	50.0
C9-C10 Aromatics	77.6	ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0
Benzene	ND	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	4.69	ug/l	2.00
p/m-Xylene	20.7	ug/l	2.00
o-Xylene	ND	ug/l	2.00
Methyl tert butyl ether	ND	ug/l	3.00
Naphthalene	ND	ug/l	10.0

Surrogate(s)	Recovery	QC Criteria
2,5-Dibromotoluene-PID	92.0 %	70-130
2,5-Dibromotoluene-FID	93.0 %	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606646-08 Date Collected: 27-APR-2006 16:30
TB-01 Date Received : 04-MAY-2006
Sample Matrix: WATER Date Reported : 11-MAY-2006
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

Volatile Petroleum Hydrocarbons				59.VPH-04-1-1		0505-21:08	TT
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Quality Control Information

Condition of sample received: Satisfactory
Aqueous preservative: Laboratory Provided Preserved Container
Sample temperature upon receipt: Received on Ice
Were all QA/QC procedures REQUIRED by the method followed? YES
Were all performance/acceptance standards for the required procedures achieved? YES
Were significant modifications made to the method as specified in Sect 11.3? NO
The normal acceptance range for the surrogate, 2,5-Dibromotoluene, is 70-130%.

C5-C8 Aliphatics	ND	ug/l	50.0
C9-C12 Aliphatics	ND	ug/l	50.0
C9-C10 Aromatics	ND	ug/l	50.0
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0
Benzene	ND	ug/l	2.00
Toluene	ND	ug/l	2.00
Ethylbenzene	ND	ug/l	2.00
p/m-Xylene	ND	ug/l	2.00
o-Xylene	ND	ug/l	2.00
Methyl tert butyl ether	ND	ug/l	3.00
Naphthalene	ND	ug/l	10.0
Surrogate(s)	Recovery		QC Criteria
2,5-Dibromotoluene-PID	91.0	%	70-130
2,5-Dibromotoluene-FID	91.0	%	70-130

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0606646

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Volatile Petroleum Hydrocarbons for sample(s) 01-08 (L0606646-07, WG238578-7)					
C5-C8 Aliphatics	ND	ND	ug/l	NC	50
C9-C12 Aliphatics	126	121	ug/l	4	50
C9-C10 Aromatics	77.6	73.0	ug/l	6	50
C5-C8 Aliphatics, Adjusted	ND	ND	ug/l	NC	50
C9-C12 Aliphatics, Adjusted	ND	ND	ug/l	NC	50
Benzene	ND	ND	ug/l	NC	50
Toluene	ND	ND	ug/l	NC	50
Ethylbenzene	4.69	4.55	ug/l	3	50
p/m-Xylene	20.7	20.4	ug/l	1	50
o-Xylene	ND	ND	ug/l	NC	50
Methyl tert butyl ether	ND	ND	ug/l	NC	50
Naphthalene	ND	ND	ug/l	NC	50
Surrogate(s)	Recovery				QC Criteria
2,5-Dibromotoluene-PID	92.0	88.0	%		70-130
2,5-Dibromotoluene-FID	93.0	87.0	%		70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0606646

Parameter	% Recovery	QC Criteria
Volatile Petroleum Hydrocarbons SPIKE for sample(s) 01-08 (L0606646-07, WG238578-4)		
C5-C8 Aliphatics	117	70-130
C9-C12 Aliphatics	117	70-130
C9-C10 Aromatics	88	70-130
Benzene	99	70-130
Toluene	98	70-130
Ethylbenzene	99	70-130
p/m-Xylene	101	70-130
o-Xylene	99	70-130
Methyl tert butyl ether	93	70-130
Naphthalene	111	70-130
Surrogate(s)		
2,5-Dibromotoluene-PID	99	70-130
2,5-Dibromotoluene-FID	100	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0606646

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Petroleum Hydrocarbons for sample(s) 01-08 (WG238578-1, WG238578-2)					
C5-C8 Aliphatics	81	86	6	25	70-130
C9-C12 Aliphatics	74	83	11	25	70-130
C9-C10 Aromatics	76	83	8	25	70-130
Benzene	77	88	14	25	70-130
Toluene	76	88	15	25	70-130
Ethylbenzene	76	87	13	25	70-130
p/m-Xylene	77	84	9	25	70-130
o-Xylene	77	85	9	25	70-130
Methyl tert butyl ether	72	82	14	25	70-130
Naphthalene	75	85	13	25	70-130
Surrogate(s)					
2,5-Dibromotoluene-PID	74	83	11		70-130
2,5-Dibromotoluene-FID	75	84	11		70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606646

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 01-08 (WG238578-3)						
Volatile Petroleum Hydrocarbons				39 VPH-04-1-1		0505-09-10-TT
C5-C8 Aliphatics	ND	ug/l	50.0			
C9-C12 Aliphatics	ND	ug/l	50.0			
C9-C10 Aromatics	ND	ug/l	50.0			
C5-C8 Aliphatics, Adjusted	ND	ug/l	50.0			
C9-C12 Aliphatics, Adjusted	ND	ug/l	50.0			
Benzene	ND	ug/l	2.00			
Toluene	ND	ug/l	2.00			
Ethylbenzene	ND	ug/l	2.00			
p/m-Xylene	ND	ug/l	2.00			
o-Xylene	ND	ug/l	2.00			
Methyl tert butyl ether	ND	ug/l	3.00			
Naphthalene	ND	ug/l	10.0			
Surrogate(s)	Recovery			QC Criteria		
2,5-Dibromotoluene-PID	78.0	%		70-130		
2,5-Dibromotoluene-FID	79.0	%		70-130		

**ALPHA ANALYTICAL LABORATORIES
ADDENDUM I**

REFERENCES

59. Method for the Determination of Volatile Petroleum Hydrocarbons (VPH).
Massachusetts Department of Environmental Protection, DEA/ORS/BWSC. May 2004,
Revision 1.1.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.
METHOD Method number by which analysis was performed.
ID Initials of the analyst.
ND Not detected in comparison to the reported detection limit.
NI Not Ignitable.
ug/cart Micrograms per Cartridge.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

**ALPHA ANALYTICAL LABORATORIES
LOGIN SPECIFIC INFORMATION**

Laboratory Job Number: L0606646

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0606646-01A	Vial HCl preserved	A	N/A	3.7 C	Y	Absent	VPH-DELUX-04
L0606646-01B	Vial HCl preserved	A	N/A	3.7 C	Y	Absent	VPH-DELUX-04
L0606646-02A	Vial HCl preserved	A	N/A	3.7 C	Y	Absent	VPH-DELUX-04
L0606646-02B	Vial HCl preserved	A	N/A	3.7 C	Y	Absent	VPH-DELUX-04
L0606646-03A	Vial HCl preserved	A	N/A	3.7 C	Y	Absent	VPH-DELUX-04
L0606646-03B	Vial HCl preserved	A	N/A	3.7 C	Y	Absent	VPH-DELUX-04
L0606646-04A	Vial HCl preserved	A	N/A	3.7 C	Y	Absent	VPH-DELUX-04
L0606646-04B	Vial HCl preserved	A	N/A	3.7 C	Y	Absent	VPH-DELUX-04
L0606646-05A	Vial HCl preserved	A	N/A	3.7 C	Y	Absent	VPH-DELUX-04
L0606646-05B	Vial HCl preserved	A	N/A	3.7 C	Y	Absent	VPH-DELUX-04
L0606646-06A	Vial HCl preserved	A	N/A	3.7 C	Y	Absent	VPH-DELUX-04
L0606646-06B	Vial HCl preserved	A	N/A	3.7 C	Y	Absent	VPH-DELUX-04
L0606646-07A	Vial HCl preserved	A	N/A	3.7 C	Y	Absent	VPH-DELUX-04
L0606646-07B	Vial HCl preserved	A	N/A	3.7 C	Y	Absent	VPH-DELUX-04
L0606646-07C	Vial HCl preserved	A	N/A	3.7 C	Y	Absent	VPH-DELUX-04
L0606646-07D	Vial HCl preserved	A	N/A	3.7 C	Y	Absent	VPH-DELUX-04
L0606646-07E	Vial HCl preserved	A	N/A	3.7 C	Y	Absent	VPH-DELUX-04
L0606646-07F	Vial HCl preserved	A	N/A	3.7 C	Y	Absent	VPH-DELUX-04
L0606646-08A	Vial HCl preserved	A	N/A	3.7 C	Y	Absent	VPH-DELUX-04

Container Comments

Container ID Comments

CHAIN OF CUSTODY

PAGE ____ OF ____

ALPHA

WESTBORO, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: TRC-LOW-M

Address:

Phone:

Fax:

Email:

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Relog of 20606340-01 → 06

Project Information

Project Name:

Project Location:

Project #:

Project Manager:

ALPHA Quote #:

Turn-Around Time

☐ Standard

☐ RUSH (only confirmed if pre-authorized)

Date Due: 5/12

Time:

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By:

Date/Time:

Received By:

Date/Time:

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

ALPHA Job #: 20606646

Date Rec'd In Lab: 5/10

Billing Information

☐ FAX ☐ EMAIL ☐ Add'l Deliverables

☐ Same as Client Info ☐ PO #:

Regulatory Requirements/Report Limits

State / Fed Program

Criteria

MA MCP PRESUMPTIVE CERTAINTY - CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

SAMPLE HANDLING		Sample Specific Comments
Filtration		
☐ Done	☐ Not needed	Please specify below
☐ Lab to do	☐ Lab to do	
☐ Preservation	☐ Lab to do	
☐ Lab to do	☐ Lab to do	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials	ANALYSIS	TOTAL SAMPLES
6646	TRC-106	5/2	1215	GRU			2
2	TRC-104		1410				2
3	WE-9		1515				2
4	WE-8		1720				2
5	WE-7	5/3	0940				2
6	WE-45		1120				2
7	MX-901		1120				6
8	TB-01	4/27	1630				1

CHAIN OF CUSTODY

PAGE 1 OF 3

ALPHA

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

RAVINHAMMA

TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: TRC Environmental Corp.
Address: 116 John St.
Lowell, MA 01852
Phone: 978-970-5600
Fax: 978-453-1995
Email: KCormier@trcsolutions.com

Project Name: Former GE Site
Project Location: Wilmington, MA
Project #: E9202
Project Manager: Ken Cormier
ALPHA Quote #: _____

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed pre-approval)
Date Due: 5/11 Time: _____

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Samples shipped on ice. Temp blank in cooler.
Presumptive certainty required.

Report Information - Data Deliverables

☐ FAX ☒ EMAIL ☐ Add'l Deliverables
☒ ADEx

Date Rec'd In Lab: 5/4

ALPHA Job # LO606340

Regulatory Requirements/Report Limits

State/Fed Program: MCP Criteria: GW-1

MA MCP PRESUMPTIVE CERTAINTY - CT REASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS	VOL 8260	VPH Delvxt	SAMPLE HANDLING	Sample Specific Comments
			Filtration ☐ Done ☒ Not needed ☐ Lab to do Preservation ☐ Lab to do (Please specify below)	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials	Container Type	Preservative	Date/Time
62401	TRC-106	5/2/06	12:15	GW	MAD	V	V	5/4/06 11:20
2	TRC-104	5/2/06	14:10	GW	MAO	B	B	5/4/06 11:20
3	WE-9	5/2/06	15:55	GW	MAO			5/4/06 17:10
4	WE-8	5/2/06	17:20	GW	MAO			
5	WE-7	5/3/06	09:40	GW	MAO			
6	WE-45	5/3/06	11:20	GW	MAO			
7	MW-901	5/3/06	11:20	GW	MAO			
8	TB-01	4/27/06	16:30	ADEx	LAB			
9	BRW-1R2	5/3/06	13:05	GW	MAO			
10	BRW-1R4	5/3/06	13:20	GW	MAO			

MS/DWP

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?
YES

Relinquished By: [Signature]

Date/Time: 5/4/06 11:20

Received By: [Signature]

Date/Time: 5/4/06 11:20

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client:	TRC Environmental Corporation	Laboratory Job Number:	L0606340
Address:	Boott Mills South 116 John Street Lowell, MA 01852	Date Received:	04-MAY-2006
Attn:	Mr. Ken Cormier	Date Reported:	11-MAY-2006
Project Number:	E9202	Delivery Method:	Alpha
Site:	FORMER GE SITE		

The following questions pertain only to MCP Analytical Methods

An affirmative response to questions A,B,C & D is required for "Presumptive Certainty" status

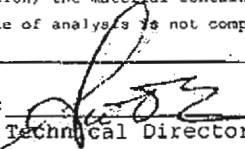
- A. Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set? YES
- B. Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? YES
- C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? YES
- D. VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3? N/A

A response to questions E and F is required for "Presumptive Certainty" status

- E. Were all QC performance standards and recommendations for the specified method(s) achieved? NO
- F. Were results for all analyte-list compounds/elements for the specified method(s) reported? YES

Any answers of NO to the above questions are addressed in the case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: 
Technical Director

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0606340

Date Reported: 11-MAY-2006

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0606340-01	TRC-106	WILMINGTON, MA
L0606340-02	TRC-104	WILMINGTON, MA
L0606340-03	WE-9	WILMINGTON, MA
L0606340-04	WE-8	WILMINGTON, MA
L0606340-05	WE-7	WILMINGTON, MA
L0606340-06	WE-4S	WILMINGTON, MA
L0606340-07	MW-901	WILMINGTON, MA
L0606340-08	TB-01	WILMINGTON, MA
L0606340-09	BRW-1R2	WILMINGTON, MA
L0606340-10	BRW-1R4	WILMINGTON, MA
L0606340-11	EMW-11R1	WILMINGTON, MA
L0606340-12	EMW-11R2	WILMINGTON, MA
L0606340-13	TRC-401R-B	WILMINGTON, MA
L0606340-14	IP-2R1	WILMINGTON, MA
L0606340-15	IP-2R3	WILMINGTON, MA
L0606340-16	IP-1R2	WILMINGTON, MA
L0606340-17	IP-4R3	WILMINGTON, MA
L0606340-18	IP-4R1	WILMINGTON, MA
L0606340-19	MW-902	WILMINGTON, MA
L0606340-20	IP-3R2	WILMINGTON, MA
L0606340-21	TB-02	WILMINGTON, MA

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0606340

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Volatile Organics

The following samples have elevated limits of detection due to the dilutions required by the elevated concentrations of target compounds in the samples:

L0606340-09, -10, -11, -12, -18, -19: 10x

L0606340-13, -17: 100x

L0606340-14, -15: 25x

L0606340-16: 200x

L0606340-20: 50x

In reference to question E:

WG238889-1,2:

The following LCS/LCSD RPDs are above the acceptance criteria for the method: Methyl tert butyl ether, Ethyl tert butyl ether and Tertiary amyl methyl ether.

WG239140-3,4:

The LCS % recovery for Trichlorofluoromethane is above the acceptance criteria for the method.

The following LCSD % recoveries are below the acceptance criteria for the method: Ethyl ether, Acetone, Carbon disulfide, and Diisopropyl ether.

WG239140-2:

The MS/MSD % recoveries for Methyl tert butyl ether and 2,2-Dichloropropane are below the acceptance criteria for the method.

The MSD % recovery for Carbon disulfide is below the acceptance criteria for the method.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-01 Date Collected: 02-MAY-2006 12:15
TRC-106 Date Received : 04-MAY-2006
Sample Matrix: WATER Date Reported : 11-MAY-2006
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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***** THIS SAMPLE IS ON HOLD *****

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
| CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-02

TRC-104

Sample Matrix:

WATER

Date Collected: 02-MAY-2006 14:10

Date Received : 04-MAY-2006

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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***** THIS SAMPLE IS ON HOLD *****

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-03

WE-9

Sample Matrix:

WATER

Condition of Sample:

Satisfactory

Date Collected: 02-MAY-2006 15:55

Date Received : 04-MAY-2006

Date Reported : 11-MAY-2006

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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***** THIS SAMPLE IS ON HOLD *****

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-04

WE-8

Sample Matrix:

WATER

Date Collected: 02-MAY-2006 17:20

Date Received : 04-MAY-2006

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

***** THIS SAMPLE IS ON HOLD *****

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-05 Date Collected: 03-MAY-2006 09:40
WE-7 Date Received : 04-MAY-2006
Sample Matrix: WATER Date Reported : 11-MAY-2006
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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***** THIS SAMPLE IS ON HOLD *****

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-06

WE-4S

Sample Matrix:

WATER

Date Collected: 03-MAY-2006 11:20

Date Received : 04-MAY-2006

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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***** THIS SAMPLE IS ON HOLD *****

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-07

MW-901

Sample Matrix:

WATER

Date Collected: 03-MAY-2006 11:20

Date Received : 04-MAY-2006

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 6-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

***** THIS SAMPLE IS ON HOLD *****

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-08

TB-01

Sample Matrix:

WATER

Date Collected: 27-APR-2006 16:30

Date Received : 04-MAY-2006

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	

***** THIS SAMPLE IS ON HOLD *****

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-09

Date Collected: 03-MAY-2006 13:05

BRW-1R2

Date Received : 04-MAY-2006

Sample Matrix: WATER

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP-8260B				60-8260B		050914:22:RY	
Methylene chloride	ND	ug/l	50.				
1,1-Dichloroethane	11	ug/l	7.5				
Chloroform	ND	ug/l	7.5				
Carbon tetrachloride	ND	ug/l	5.0				
1,2-Dichloropropane	ND	ug/l	18.				
Dibromochloromethane	ND	ug/l	5.0				
1,1,2-Trichloroethane	ND	ug/l	7.5				
Tetrachloroethene	120	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
Trichlorofluoromethane	ND	ug/l	25.				
1,2-Dichloroethane	ND	ug/l	5.0				
1,1,1-Trichloroethane	ND	ug/l	5.0				
Bromodichloromethane	ND	ug/l	5.0				
trans-1,3-Dichloropropene	ND	ug/l	5.0				
cis-1,3-Dichloropropene	ND	ug/l	5.0				
1,1-Dichloropropene	ND	ug/l	25.				
Bromoform	ND	ug/l	20.				
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0				
Benzene	ND	ug/l	5.0				
Toluene	ND	ug/l	7.5				
Ethylbenzene	ND	ug/l	5.0				
Chloromethane	ND	ug/l	25.				
Bromomethane	ND	ug/l	10.				
Vinyl chloride	ND	ug/l	10.				
Chloroethane	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	5.0				
trans-1,2-Dichloroethene	ND	ug/l	7.5				
Trichloroethene	460	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	25.				
1,3-Dichlorobenzene	ND	ug/l	25.				
1,4-Dichlorobenzene	ND	ug/l	25.				
Methyl tert butyl ether	ND	ug/l	10.				
p/m-Xylene	ND	ug/l	10.				
o-Xylene	ND	ug/l	10.				
cis-1,2-Dichloroethene	62	ug/l	5.0				
Dibromomethane	ND	ug/l	50.				
1,2,3-Trichloropropane	ND	ug/l	50.				
Styrene	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606340-09
BRW-1R2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B		0509:14:22	RY
Dichlorodifluoromethane	ND	ug/l	50.				
Acetone	ND	ug/l	50.				
Carbon disulfide	ND	ug/l	50.				
2-Butanone	ND	ug/l	50.				
4-Methyl-2-pentanone	ND	ug/l	50.				
2-Hexanone	ND	ug/l	50.				
Bromochloromethane	ND	ug/l	25.				
Tetrahydrofuran	ND	ug/l	100				
2,2-Dichloropropane	ND	ug/l	25.				
1,2-Dibromoethane	ND	ug/l	20.				
1,3-Dichloropropane	ND	ug/l	25.				
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0				
Bromobenzene	ND	ug/l	25.				
n-Butylbenzene	ND	ug/l	5.0				
sec-Butylbenzene	ND	ug/l	5.0				
tert-Butylbenzene	ND	ug/l	25.				
o-Chlorotoluene	ND	ug/l	25.				
p-Chlorotoluene	ND	ug/l	25.				
1,2-Dibromo-3-chloropropane	ND	ug/l	25.				
Hexachlorobutadiene	ND	ug/l	6.0				
Isopropylbenzene	ND	ug/l	5.0				
p-Isopropyltoluene	ND	ug/l	5.0				
Naphthalene	ND	ug/l	25.				
n-Propylbenzene	ND	ug/l	5.0				
1,2,3-Trichlorobenzene	ND	ug/l	25.				
1,2,4-Trichlorobenzene	ND	ug/l	25.				
1,3,5-Trimethylbenzene	ND	ug/l	25.				
1,2,4-Trimethylbenzene	ND	ug/l	25.				
Ethyl ether	ND	ug/l	25.				
Isopropyl Ether	ND	ug/l	20.				
Ethyl-Tert-Butyl-Ether	ND	ug/l	20.				
Tertiary-Amyl Methyl Ether	ND	ug/l	20.				
1,4-Dioxane	ND	ug/l	2500				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	114	%	70-130				
Toluene-d8	96.0	%	70-130				
4-Bromofluorobenzene	111	%	70-130				
Dibromofluoromethane	107	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-10

BRW-1R4

Date Collected: 03-MAY-2006 13:20

Date Received : 04-MAY-2006

Sample Matrix:

WATER

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B		0509 14:59:57	
Methylene chloride	ND	ug/l	50.				
1,1-Dichloroethane	11	ug/l	7.5				
Chloroform	ND	ug/l	7.5				
Carbon tetrachloride	ND	ug/l	5.0				
1,2-Dichloropropane	ND	ug/l	18.				
Dibromochloromethane	ND	ug/l	5.0				
1,1,2-Trichloroethane	ND	ug/l	7.5				
Tetrachloroethene	200	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
Trichlorofluoromethane	ND	ug/l	25.				
1,2-Dichloroethane	ND	ug/l	5.0				
1,1,1-Trichloroethane	ND	ug/l	5.0				
Bromodichloromethane	ND	ug/l	5.0				
trans-1,3-Dichloropropene	ND	ug/l	5.0				
cis-1,3-Dichloropropene	ND	ug/l	5.0				
1,1-Dichloropropene	ND	ug/l	25.				
Bromoform	ND	ug/l	20.				
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0				
Benzene	ND	ug/l	5.0				
Toluene	ND	ug/l	7.5				
Ethylbenzene	ND	ug/l	5.0				
Chloromethane	ND	ug/l	25.				
Bromomethane	ND	ug/l	10.				
Vinyl chloride	ND	ug/l	10.				
Chloroethane	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	5.0				
trans-1,2-Dichloroethene	ND	ug/l	7.5				
Trichloroethene	470	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	25.				
1,3-Dichlorobenzene	ND	ug/l	25.				
1,4-Dichlorobenzene	ND	ug/l	25.				
Methyl tert butyl ether	ND	ug/l	10.				
p/m-Xylene	ND	ug/l	10.				
o-Xylene	ND	ug/l	10.				
cis-1,2-Dichloroethene	28	ug/l	5.0				
Dibromomethane	ND	ug/l	50.				
1,2,3-Trichloropropane	ND	ug/l	50.				
Styrene	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606340-10
BRW-1R4

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B		0509 14:59:RY	
Dichlorodifluoromethane	ND	ug/l	50.				
Acetone	ND	ug/l	50.				
Carbon disulfide	ND	ug/l	50.				
2-Butanone	ND	ug/l	50.				
4-Methyl-2-pentanone	ND	ug/l	50.				
2-Hexanone	ND	ug/l	50.				
Bromochloromethane	ND	ug/l	25.				
Tetrahydrofuran	ND	ug/l	100				
2,2-Dichloropropane	ND	ug/l	25.				
1,2-Dibromoethane	ND	ug/l	20.				
1,3-Dichloropropane	ND	ug/l	25.				
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0				
Bromobenzene	ND	ug/l	25.				
n-Butylbenzene	ND	ug/l	5.0				
sec-Butylbenzene	ND	ug/l	5.0				
tert-Butylbenzene	ND	ug/l	25.				
o-Chlorotoluene	ND	ug/l	25.				
p-Chlorotoluene	ND	ug/l	25.				
1,2-Dibromo-3-chloropropane	ND	ug/l	25.				
Hexachlorobutadiene	ND	ug/l	6.0				
Isopropylbenzene	ND	ug/l	5.0				
p-Isopropyltoluene	ND	ug/l	5.0				
Naphthalene	ND	ug/l	25.				
n-Propylbenzene	ND	ug/l	5.0				
1,2,3-Trichlorobenzene	ND	ug/l	25.				
1,2,4-Trichlorobenzene	ND	ug/l	25.				
1,3,5-Trimethylbenzene	ND	ug/l	25.				
1,2,4-Trimethylbenzene	ND	ug/l	25.				
Ethyl ether	ND	ug/l	25.				
Isopropyl Ether	ND	ug/l	20.				
Ethyl-Tert-Butyl-Ether	ND	ug/l	20.				
Tertiary-Amyl Methyl Ether	ND	ug/l	20.				
1,4-Dioxane	ND	ug/l	2500				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	117	%	70-130				
Toluene-d8	96.0	%	70-130				
4-Bromofluorobenzene	111	%	70-130				
Dibromofluoromethane	106	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-11

EMW-11R1

Date Collected: 03-MAY-2006 13:45

Date Received : 04-MAY-2006

Sample Matrix:

WATER

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B					60-8260B	0509 15:36-RY	
Methylene chloride	ND	ug/l	50.				
1,1-Dichloroethane	7.6	ug/l	7.5				
Chloroform	ND	ug/l	7.5				
Carbon tetrachloride	ND	ug/l	5.0				
1,2-Dichloropropane	ND	ug/l	18.				
Dibromochloromethane	ND	ug/l	5.0				
1,1,2-Trichloroethane	ND	ug/l	7.5				
Tetrachloroethene	200	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
Trichlorofluoromethane	ND	ug/l	25.				
1,2-Dichloroethane	ND	ug/l	5.0				
1,1,1-Trichloroethane	ND	ug/l	5.0				
Bromodichloromethane	ND	ug/l	5.0				
trans-1,3-Dichloropropene	ND	ug/l	5.0				
cis-1,3-Dichloropropene	ND	ug/l	5.0				
1,1-Dichloropropene	ND	ug/l	25.				
Bromoform	ND	ug/l	20.				
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0				
Benzene	ND	ug/l	5.0				
Toluene	ND	ug/l	7.5				
Ethylbenzene	ND	ug/l	5.0				
Chloromethane	ND	ug/l	25.				
Bromomethane	ND	ug/l	10.				
Vinyl chloride	ND	ug/l	10.				
Chloroethane	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	5.0				
trans-1,2-Dichloroethene	ND	ug/l	7.5				
Trichloroethene	320	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	25.				
1,3-Dichlorobenzene	ND	ug/l	25.				
1,4-Dichlorobenzene	ND	ug/l	25.				
Methyl tert butyl ether	ND	ug/l	10.				
p/m-Xylene	ND	ug/l	10.				
o-Xylene	ND	ug/l	10.				
cis-1,2-Dichloroethene	25	ug/l	5.0				
Dibromomethane	ND	ug/l	50.				
1,2,3-Trichloropropane	ND	ug/l	50.				
Styrene	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606340-11
EMW-11R1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B: cont'd				60-8260B		0509-15:36:RY	
Dichlorodifluoromethane	ND	ug/l	50.				
Acetone	ND	ug/l	50.				
Carbon disulfide	ND	ug/l	50.				
2-Butanone	ND	ug/l	50.				
4-Methyl-2-pentanone	ND	ug/l	50.				
2-Hexanone	ND	ug/l	50.				
Bromochloromethane	ND	ug/l	25.				
Tetrahydrofuran	ND	ug/l	100				
2,2-Dichloropropane	ND	ug/l	25.				
1,2-Dibromoethane	ND	ug/l	20.				
1,3-Dichloropropane	ND	ug/l	25.				
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0				
Bromobenzene	ND	ug/l	25.				
n-Butylbenzene	ND	ug/l	5.0				
sec-Butylbenzene	ND	ug/l	5.0				
tert-Butylbenzene	ND	ug/l	25.				
o-Chlorotoluene	ND	ug/l	25.				
p-Chlorotoluene	ND	ug/l	25.				
1,2-Dibromo-3-chloropropane	ND	ug/l	25.				
Hexachlorobutadiene	ND	ug/l	6.0				
Isopropylbenzene	ND	ug/l	5.0				
p-Isopropyltoluene	ND	ug/l	5.0				
Naphthalene	ND	ug/l	25.				
n-Propylbenzene	ND	ug/l	5.0				
1,2,3-Trichlorobenzene	ND	ug/l	25.				
1,2,4-Trichlorobenzene	ND	ug/l	25.				
1,3,5-Trimethylbenzene	ND	ug/l	25.				
1,2,4-Trimethylbenzene	ND	ug/l	25.				
Ethyl ether	ND	ug/l	25.				
Isopropyl Ether	ND	ug/l	20.				
Ethyl-Tert-Butyl-Ether	ND	ug/l	20.				
Tertiary-Amyl Methyl Ether	ND	ug/l	20.				
1,4-Dioxane	ND	ug/l	2500				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	123	%		70-130			
Toluene-d8	98.0	%		70-130			
4-Bromofluorobenzene	111	%		70-130			
Dibromofluoromethane	106	%		70-130			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-12

EMW-11R2

Sample Matrix:

WATER

Date Collected: 03-MAY-2006 14:05

Date Received : 04-MAY-2006

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B							
Methylene chloride	ND	ug/l	50.				
1,1-Dichloroethane	10	ug/l	7.5				
Chloroform	ND	ug/l	7.5				
Carbon tetrachloride	ND	ug/l	5.0				
1,2-Dichloropropane	ND	ug/l	18.				
Dibromochloromethane	ND	ug/l	5.0				
1,1,2-Trichloroethane	ND	ug/l	7.5				
Tetrachloroethene	180	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
Trichlorofluoromethane	ND	ug/l	25.				
1,2-Dichloroethane	ND	ug/l	5.0				
1,1,1-Trichloroethane	ND	ug/l	5.0				
Bromodichloromethane	ND	ug/l	5.0				
trans-1,3-Dichloropropene	ND	ug/l	5.0				
cis-1,3-Dichloropropene	ND	ug/l	5.0				
1,1-Dichloropropene	ND	ug/l	25.				
Bromoform	ND	ug/l	20.				
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0				
Benzene	ND	ug/l	5.0				
Toluene	ND	ug/l	7.5				
Ethylbenzene	ND	ug/l	5.0				
Chloromethane	ND	ug/l	25.				
Bromomethane	ND	ug/l	10.				
Vinyl chloride	16	ug/l	10				
Chloroethane	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	5.0				
trans-1,2-Dichloroethene	ND	ug/l	7.5				
Trichloroethene	490	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	25.				
1,3-Dichlorobenzene	ND	ug/l	25.				
1,4-Dichlorobenzene	ND	ug/l	25.				
Methyl tert butyl ether	ND	ug/l	10.				
p/m-Xylene	ND	ug/l	10.				
o-Xylene	ND	ug/l	10.				
cis-1,2-Dichloroethene	63	ug/l	5.0				
Dibromomethane	ND	ug/l	50.				
1,2,3-Trichloropropane	ND	ug/l	50.				
Styrene	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0606340-12
EMW-11R2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP-8260B Cont'd				60 8260B	05091613RY		
Dichlorodifluoromethane	ND	ug/l	50.				
Acetone	ND	ug/l	50.				
Carbon disulfide	ND	ug/l	50.				
2-Butanone	ND	ug/l	50.				
4-Methyl-2-pentanone	ND	ug/l	50.				
2-Hexanone	ND	ug/l	50.				
Bromochloromethane	ND	ug/l	25.				
Tetrahydrofuran	ND	ug/l	100				
2,2-Dichloropropane	ND	ug/l	25.				
1,2-Dibromoethane	ND	ug/l	20.				
1,3-Dichloropropane	ND	ug/l	25.				
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0				
Bromobenzene	ND	ug/l	25.				
n-Butylbenzene	ND	ug/l	5.0				
sec-Butylbenzene	ND	ug/l	5.0				
tert-Butylbenzene	ND	ug/l	25.				
o-Chlorotoluene	ND	ug/l	25.				
p-Chlorotoluene	ND	ug/l	25.				
1,2-Dibromo-3-chloropropane	ND	ug/l	25.				
Hexachlorobutadiene	ND	ug/l	6.0				
Isopropylbenzene	ND	ug/l	5.0				
p-Isopropyltoluene	ND	ug/l	5.0				
Naphthalene	ND	ug/l	25.				
n-Propylbenzene	ND	ug/l	5.0				
1,2,3-Trichlorobenzene	ND	ug/l	25.				
1,2,4-Trichlorobenzene	ND	ug/l	25.				
1,3,5-Trimethylbenzene	ND	ug/l	25.				
1,2,4-Trimethylbenzene	ND	ug/l	25.				
Ethyl ether	ND	ug/l	25.				
Isopropyl Ether	ND	ug/l	20.				
Ethyl-Tert-Butyl-Ether	ND	ug/l	20.				
Tertiary-Amyl Methyl Ether	ND	ug/l	20.				
1,4-Dioxane	ND	ug/l	2500				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	115	%	70-130				
Toluene-d8	96.0	%	70-130				
4-Bromofluorobenzene	106	%	70-130				
Dibromofluoromethane	109	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-13

TRC-401R-B

Date Collected: 03-MAY-2006 14:35

Date Received : 04-MAY-2006

Sample Matrix:

WATER

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Volatile Organics by MCP 8260B						
Methylene chloride	ND	ug/l	500			0509,16:49 RY
1,1-Dichloroethane	190	ug/l	75			
Chloroform	ND	ug/l	75.			
Carbon tetrachloride	ND	ug/l	50.			
1,2-Dichloropropane	ND	ug/l	180			
Dibromochloromethane	ND	ug/l	50.			
1,1,2-Trichloroethane	ND	ug/l	75.			
Tetrachloroethene	1600	ug/l	50			
Chlorobenzene	ND	ug/l	50.			
Trichlorofluoromethane	ND	ug/l	250			
1,2-Dichloroethane	ND	ug/l	50.			
1,1,1-Trichloroethane	ND	ug/l	50.			
Bromodichloromethane	ND	ug/l	50.			
trans-1,3-Dichloropropene	ND	ug/l	50.			
cis-1,3-Dichloropropene	ND	ug/l	50.			
1,1-Dichloropropene	ND	ug/l	250			
Bromoform	ND	ug/l	200			
1,1,2,2-Tetrachloroethane	ND	ug/l	50.			
Benzene	ND	ug/l	50.			
Toluene	ND	ug/l	75.			
Ethylbenzene	ND	ug/l	50.			
Chloromethane	ND	ug/l	250			
Bromomethane	ND	ug/l	100			
Vinyl chloride	ND	ug/l	100			
Chloroethane	ND	ug/l	100			
1,1-Dichloroethene	ND	ug/l	50.			
trans-1,2-Dichloroethene	ND	ug/l	75.			
Trichloroethene	5600	ug/l	50			
1,2-Dichlorobenzene	ND	ug/l	250			
1,3-Dichlorobenzene	ND	ug/l	250			
1,4-Dichlorobenzene	ND	ug/l	250			
Methyl tert butyl ether	ND	ug/l	100			
p/m-Xylene	ND	ug/l	100			
o-Xylene	ND	ug/l	100			
cis-1,2-Dichloroethene	81	ug/l	50			
Dibromomethane	ND	ug/l	500			
1,2,3-Trichloropropane	ND	ug/l	500			
Styrene	ND	ug/l	100			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0606340-13
TRC-401R-B

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	0509 16:49'RY		
Dichlorodifluoromethane	ND	ug/l	500				
Acetone	ND	ug/l	500				
Carbon disulfide	ND	ug/l	500				
2-Butanone	ND	ug/l	500				
4-Methyl-2-pentanone	ND	ug/l	500				
2-Hexanone	ND	ug/l	500				
Bromochloromethane	ND	ug/l	250				
Tetrahydrofuran	ND	ug/l	1000				
2,2-Dichloropropane	ND	ug/l	250				
1,2-Dibromoethane	ND	ug/l	200				
1,3-Dichloropropane	ND	ug/l	250				
1,1,1,2-Tetrachloroethane	ND	ug/l	50.				
Bromobenzene	ND	ug/l	250				
n-Butylbenzene	ND	ug/l	50.				
sec-Butylbenzene	ND	ug/l	50.				
tert-Butylbenzene	ND	ug/l	250				
o-Chlorotoluene	ND	ug/l	250				
p-Chlorotoluene	ND	ug/l	250				
1,2-Dibromo-3-chloropropane	ND	ug/l	250				
Hexachlorobutadiene	ND	ug/l	60.				
Isopropylbenzene	ND	ug/l	50.				
p-Isopropyltoluene	ND	ug/l	50.				
Naphthalene	ND	ug/l	250				
n-Propylbenzene	ND	ug/l	50.				
1,2,3-Trichlorobenzene	ND	ug/l	250				
1,2,4-Trichlorobenzene	ND	ug/l	250				
1,3,5-Trimethylbenzene	ND	ug/l	250				
1,2,4-Trimethylbenzene	ND	ug/l	250				
Ethyl ether	ND	ug/l	250				
Isopropyl Ether	ND	ug/l	200				
Ethyl-Tert-Butyl-Ether	ND	ug/l	200				
Tertiary-Amyl Methyl Ether	ND	ug/l	200				
1,4-Dioxane	ND	ug/l	25000				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	126	%	70-130				
Toluene-d8	103	%	70-130				
4-Bromofluorobenzene	108	%	70-130				
Dibromofluoromethane	115	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-14

IP-2R1

Sample Matrix:

WATER

Date Collected: 03-MAY-2006 15:00

Date Received : 04-MAY-2006

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B				608260B	0509 17:50	RY
Methylene chloride	ND	ug/l	120			
1,1-Dichloroethane	78	ug/l	19			
Chloroform	ND	ug/l	19.			
Carbon tetrachloride	ND	ug/l	12.			
1,2-Dichloropropane	ND	ug/l	44.			
Dibromochloromethane	ND	ug/l	12.			
1,1,2-Trichloroethane	ND	ug/l	19.			
Tetrachloroethene	360	ug/l	12			
Chlorobenzene	ND	ug/l	12.			
Trichlorofluoromethane	ND	ug/l	62.			
1,2-Dichloroethane	ND	ug/l	12.			
1,1,1-Trichloroethane	ND	ug/l	12.			
Bromodichloromethane	ND	ug/l	12.			
trans-1,3-Dichloropropene	ND	ug/l	12.			
cis-1,3-Dichloropropene	ND	ug/l	12.			
1,1-Dichloropropene	ND	ug/l	62.			
Bromoform	ND	ug/l	50.			
1,1,2,2-Tetrachloroethane	ND	ug/l	12.			
Benzene	ND	ug/l	12.			
Toluene	ND	ug/l	19.			
Ethylbenzene	ND	ug/l	12.			
Chloromethane	ND	ug/l	62.			
Bromomethane	ND	ug/l	25.			
Vinyl chloride	ND	ug/l	25.			
Chloroethane	ND	ug/l	25.			
1,1-Dichloroethene	ND	ug/l	12.			
trans-1,2-Dichloroethene	ND	ug/l	19.			
Trichloroethene	1100	ug/l	12			
1,2-Dichlorobenzene	ND	ug/l	62.			
1,3-Dichlorobenzene	ND	ug/l	62.			
1,4-Dichlorobenzene	ND	ug/l	62.			
Methyl tert butyl ether	ND	ug/l	25.			
p/m-Xylene	ND	ug/l	25.			
o-Xylene	ND	ug/l	25.			
cis-1,2-Dichloroethene	29	ug/l	12			
Dibromomethane	ND	ug/l	120			
1,2,3-Trichloropropane	ND	ug/l	120			
Styrene	ND	ug/l	25.			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606340-14
IP-2R1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B cont'd						
Dichlorodifluoromethane	ND	ug/l	120		68.8260B	0509-17:50 RY
Acetone	ND	ug/l	120			
Carbon disulfide	ND	ug/l	120			
2-Butanone	ND	ug/l	120			
4-Methyl-2-pentanone	ND	ug/l	120			
2-Hexanone	ND	ug/l	120			
Bromochloromethane	ND	ug/l	62.			
Tetrahydrofuran	23J	ug/l	250			
2,2-Dichloropropane	ND	ug/l	62.			
1,2-Dibromoethane	ND	ug/l	50.			
1,3-Dichloropropane	ND	ug/l	62.			
1,1,1,2-Tetrachloroethane	ND	ug/l	12.			
Bromobenzene	ND	ug/l	62.			
n-Butylbenzene	ND	ug/l	12.			
sec-Butylbenzene	ND	ug/l	12.			
tert-Butylbenzene	ND	ug/l	62.			
o-Chlorotoluene	ND	ug/l	62.			
p-Chlorotoluene	ND	ug/l	62.			
1,2-Dibromo-3-chloropropane	ND	ug/l	62.			
Hexachlorobutadiene	ND	ug/l	15.			
Isopropylbenzene	ND	ug/l	12.			
p-Isopropyltoluene	ND	ug/l	12.			
Naphthalene	ND	ug/l	62.			
n-Propylbenzene	ND	ug/l	12.			
1,2,3-Trichlorobenzene	ND	ug/l	62.			
1,2,4-Trichlorobenzene	ND	ug/l	62.			
1,3,5-Trimethylbenzene	ND	ug/l	62.			
1,2,4-Trimethylbenzene	ND	ug/l	62.			
Ethyl ether	ND	ug/l	62.			
Isopropyl Ether	ND	ug/l	50.			
Ethyl-Tert-Butyl-Ether	ND	ug/l	50.			
Tertiary-Amyl Methyl Ether	ND	ug/l	50.			
1,4-Dioxane	ND	ug/l	6200			
Surrogate(s)	Recovery		QC Criteria			
1,2-Dichloroethane-d4	123	%	70-130			
Toluene-d8	95.0	%	70-130			
4-Bromofluorobenzene	109	%	70-130			
Dibromofluoromethane	109	%	70-130			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-15

IP-2R3

Date Collected: 03-MAY-2006 15:25

Date Received : 04-MAY-2006

Sample Matrix:

WATER

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP/8260B					60-8260B	0509-18-26	RY
Methylene chloride	ND	ug/l	120				
1,1-Dichloroethane	100	ug/l	19				
Chloroform	ND	ug/l	19.				
Carbon tetrachloride	ND	ug/l	12.				
1,2-Dichloropropane	ND	ug/l	44.				
Dibromochloromethane	ND	ug/l	12.				
1,1,2-Trichloroethane	ND	ug/l	19.				
Tetrachloroethene	150	ug/l	12				
Chlorobenzene	ND	ug/l	12.				
Trichlorofluoromethane	ND	ug/l	62.				
1,2-Dichloroethane	ND	ug/l	12.				
1,1,1-Trichloroethane	ND	ug/l	12.				
Bromodichloromethane	ND	ug/l	12.				
trans-1,3-Dichloropropene	ND	ug/l	12.				
cis-1,3-Dichloropropene	ND	ug/l	12.				
1,1-Dichloropropene	ND	ug/l	62.				
Bromoform	ND	ug/l	50.				
1,1,2,2-Tetrachloroethane	ND	ug/l	12.				
Benzene	ND	ug/l	12.				
Toluene	ND	ug/l	19.				
Ethylbenzene	ND	ug/l	12.				
Chloromethane	ND	ug/l	62.				
Bromomethane	ND	ug/l	25.				
Vinyl chloride	ND	ug/l	25.				
Chloroethane	ND	ug/l	25.				
1,1-Dichloroethene	12	ug/l	12				
trans-1,2-Dichloroethene	ND	ug/l	19.				
Trichloroethene	1300	ug/l	12				
1,2-Dichlorobenzene	ND	ug/l	62.				
1,3-Dichlorobenzene	ND	ug/l	62.				
1,4-Dichlorobenzene	ND	ug/l	62.				
Methyl tert butyl ether	ND	ug/l	25.				
p/m-Xylene	ND	ug/l	25.				
o-Xylene	ND	ug/l	25.				
cis-1,2-Dichloroethene	44	ug/l	12				
Dibromomethane	ND	ug/l	120				
1,2,3-Trichloropropane	ND	ug/l	120				
Styrene	ND	ug/l	25.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606340-15
IP-2R3

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B-cont'd				60 8260B		0509.18:26	RY
Dichlorodifluoromethane	ND	ug/l	120				
Acetone	ND	ug/l	120				
Carbon disulfide	ND	ug/l	120				
2-Butanone	ND	ug/l	120				
4-Methyl-2-pentanone	ND	ug/l	120				
2-Hexanone	ND	ug/l	120				
Bromochloromethane	ND	ug/l	62.				
Tetrahydrofuran	ND	ug/l	250				
2,2-Dichloropropane	ND	ug/l	62.				
1,2-Dibromoethane	ND	ug/l	50.				
1,3-Dichloropropane	ND	ug/l	62.				
1,1,1,2-Tetrachloroethane	ND	ug/l	12.				
Bromobenzene	ND	ug/l	62.				
n-Butylbenzene	ND	ug/l	12.				
sec-Butylbenzene	ND	ug/l	12.				
tert-Butylbenzene	ND	ug/l	62.				
o-Chlorotoluene	ND	ug/l	62.				
p-Chlorotoluene	ND	ug/l	62.				
1,2-Dibromo-3-chloropropane	ND	ug/l	62.				
Hexachlorobutadiene	ND	ug/l	15.				
Isopropylbenzene	ND	ug/l	12.				
p-Isopropyltoluene	ND	ug/l	12.				
Naphthalene	ND	ug/l	62.				
n-Propylbenzene	ND	ug/l	12.				
1,2,3-Trichlorobenzene	ND	ug/l	62.				
1,2,4-Trichlorobenzene	ND	ug/l	62.				
1,3,5-Trimethylbenzene	ND	ug/l	62.				
1,2,4-Trimethylbenzene	ND	ug/l	62.				
Ethyl ether	ND	ug/l	62.				
Isopropyl Ether	ND	ug/l	50.				
Ethyl-Tert-Butyl-Ether	ND	ug/l	50.				
Tertiary-Amyl Methyl Ether	ND	ug/l	50.				
1,4-Dioxane	ND	ug/l	6200				
Surrogate (s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	120	%	70-130				
Toluene-d8	99.0	%	70-130				
4-Bromofluorobenzene	111	%	70-130				
Dibromofluoromethane	110	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-16

IP-1R2

Date Collected: 03-MAY-2006 15:50

Date Received : 04-MAY-2006

Sample Matrix:

WATER

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B		0509/22:08:RY	
Methylene chloride	ND	ug/l	1000				
1,1-Dichloroethane	150	ug/l	150				
Chloroform	ND	ug/l	150				
Carbon tetrachloride	ND	ug/l	100				
1,2-Dichloropropane	ND	ug/l	350				
Dibromochloromethane	ND	ug/l	100				
1,1,2-Trichloroethane	ND	ug/l	150				
Tetrachloroethene	520	ug/l	100				
Chlorobenzene	ND	ug/l	100				
Trichlorofluoromethane	ND	ug/l	500				
1,2-Dichloroethane	ND	ug/l	100				
1,1,1-Trichloroethane	ND	ug/l	100				
Bromodichloromethane	ND	ug/l	100				
trans-1,3-Dichloropropene	ND	ug/l	100				
cis-1,3-Dichloropropene	ND	ug/l	100				
1,1-Dichloropropene	ND	ug/l	500				
Bromoform	ND	ug/l	400				
1,1,2,2-Tetrachloroethane	ND	ug/l	100				
Benzene	ND	ug/l	100				
Toluene	ND	ug/l	150				
Ethylbenzene	ND	ug/l	100				
Chloromethane	ND	ug/l	500				
Bromomethane	ND	ug/l	200				
Vinyl chloride	ND	ug/l	200				
Chloroethane	ND	ug/l	200				
1,1-Dichloroethene	ND	ug/l	100				
trans-1,2-Dichloroethene	ND	ug/l	150				
Trichloroethene	5400	ug/l	100				
1,2-Dichlorobenzene	ND	ug/l	500				
1,3-Dichlorobenzene	ND	ug/l	500				
1,4-Dichlorobenzene	ND	ug/l	500				
Methyl tert butyl ether	ND	ug/l	200				
p/m-Xylene	ND	ug/l	200				
o-Xylene	ND	ug/l	200				
cis-1,2-Dichloroethene	110	ug/l	100				
Dibromomethane	ND	ug/l	1000				
1,2,3-Trichloropropane	ND	ug/l	1000				
Styrene	ND	ug/l	200				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0606340-16
IP-1R2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B. cont'd							
Dichlorodifluoromethane	ND	ug/l	1000				
Acetone	ND	ug/l	1000				
Carbon disulfide	ND	ug/l	1000				
2-Butanone	ND	ug/l	1000				
4-Methyl-2-pentanone	ND	ug/l	1000				
2-Hexanone	ND	ug/l	1000				
Bromochloromethane	ND	ug/l	500				
Tetrahydrofuran	ND	ug/l	2000				
2,2-Dichloropropane	ND	ug/l	500				
1,2-Dibromoethane	ND	ug/l	400				
1,3-Dichloropropane	ND	ug/l	500				
1,1,1,2-Tetrachloroethane	ND	ug/l	100				
Bromobenzene	ND	ug/l	500				
n-Butylbenzene	ND	ug/l	100				
sec-Butylbenzene	ND	ug/l	100				
tert-Butylbenzene	ND	ug/l	500				
o-Chlorotoluene	ND	ug/l	500				
p-Chlorotoluene	ND	ug/l	500				
1,2-Dibromo-3-chloropropane	ND	ug/l	500				
Hexachlorobutadiene	ND	ug/l	120				
Isopropylbenzene	ND	ug/l	100				
p-Isopropyltoluene	ND	ug/l	100				
Naphthalene	ND	ug/l	500				
n-Propylbenzene	ND	ug/l	100				
1,2,3-Trichlorobenzene	ND	ug/l	500				
1,2,4-Trichlorobenzene	ND	ug/l	500				
1,3,5-Trimethylbenzene	ND	ug/l	500				
1,2,4-Trimethylbenzene	ND	ug/l	500				
Ethyl ether	ND	ug/l	500				
Isopropyl Ether	ND	ug/l	400				
Ethyl-Tert-Butyl-Ether	ND	ug/l	400				
Tertiary-Amyl Methyl Ether	ND	ug/l	400				
1,4-Dioxane	ND	ug/l	50000				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	115	%	70-130				
Toluene-d8	109	%	70-130				
4-Bromofluorobenzene	108	%	70-130				
Dibromofluoromethane	103	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-17

IP-4R3

Sample Matrix:

WATER

Date Collected: 03-MAY-2006 16:10

Date Received : 04-MAY-2006

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B					60-8260B	0509 22:44 RT	
Methylene chloride	ND	ug/l	500				
1,1-Dichloroethane	88	ug/l	75				
Chloroform	ND	ug/l	75.				
Carbon tetrachloride	ND	ug/l	50.				
1,2-Dichloropropane	ND	ug/l	180				
Dibromochloromethane	ND	ug/l	50.				
1,1,2-Trichloroethane	ND	ug/l	75.				
Tetrachloroethene	690	ug/l	50				
Chlorobenzene	ND	ug/l	50.				
Trichlorofluoromethane	ND	ug/l	250				
1,2-Dichloroethane	ND	ug/l	50.				
1,1,1-Trichloroethane	ND	ug/l	50.				
Bromodichloromethane	ND	ug/l	50.				
trans-1,3-Dichloropropene	ND	ug/l	50.				
cis-1,3-Dichloropropene	ND	ug/l	50.				
1,1-Dichloropropene	ND	ug/l	250				
Bromoform	ND	ug/l	200				
1,1,2,2-Tetrachloroethane	ND	ug/l	50.				
Benzene	ND	ug/l	50.				
Toluene	ND	ug/l	75.				
Ethylbenzene	ND	ug/l	50.				
Chloromethane	ND	ug/l	250				
Bromomethane	ND	ug/l	100				
Vinyl chloride	ND	ug/l	100				
Chloroethane	ND	ug/l	100				
1,1-Dichloroethene	ND	ug/l	50.				
trans-1,2-Dichloroethene	ND	ug/l	75.				
Trichloroethene	2400	ug/l	50				
1,2-Dichlorobenzene	ND	ug/l	250				
1,3-Dichlorobenzene	ND	ug/l	250				
1,4-Dichlorobenzene	ND	ug/l	250				
Methyl tert butyl ether	ND	ug/l	100				
p/m-Xylene	ND	ug/l	100				
o-Xylene	ND	ug/l	100				
cis-1,2-Dichloroethene	39J	ug/l	50				
Dibromomethane	ND	ug/l	500				
1,2,3-Trichloropropane	ND	ug/l	500				
Styrene	ND	ug/l	100				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606340-17
IP-4R3

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B cont'd				608260B	0509 22:44	RY
Dichlorodifluoromethane	ND	ug/l	500			
Acetone	ND	ug/l	500			
Carbon disulfide	ND	ug/l	500			
2-Butanone	ND	ug/l	500			
4-Methyl-2-pentanone	ND	ug/l	500			
2-Hexanone	ND	ug/l	500			
Bromochloromethane	ND	ug/l	250			
Tetrahydrofuran	ND	ug/l	1000			
2,2-Dichloropropane	ND	ug/l	250			
1,2-Dibromoethane	ND	ug/l	200			
1,3-Dichloropropane	ND	ug/l	250			
1,1,1,2-Tetrachloroethane	ND	ug/l	50.			
Bromobenzene	ND	ug/l	250			
n-Butylbenzene	ND	ug/l	50.			
sec-Butylbenzene	ND	ug/l	50.			
tert-Butylbenzene	ND	ug/l	250			
o-Chlorotoluene	ND	ug/l	250			
p-Chlorotoluene	ND	ug/l	250			
1,2-Dibromo-3-chloropropane	ND	ug/l	250			
Hexachlorobutadiene	ND	ug/l	60.			
Isopropylbenzene	ND	ug/l	50.			
p-Isopropyltoluene	ND	ug/l	50.			
Naphthalene	ND	ug/l	250			
n-Propylbenzene	ND	ug/l	50.			
1,2,3-Trichlorobenzene	ND	ug/l	250			
1,2,4-Trichlorobenzene	ND	ug/l	250			
1,3,5-Trimethylbenzene	ND	ug/l	250			
1,2,4-Trimethylbenzene	ND	ug/l	250			
Ethyl ether	ND	ug/l	250			
Isopropyl Ether	ND	ug/l	200			
Ethyl-Tert-Butyl-Ether	ND	ug/l	200			
Tertiary-Amyl Methyl Ether	ND	ug/l	200			
1,4-Dioxane	ND	ug/l	25000			
Surrogate(s)	Recovery		QC Criteria			
1,2-Dichloroethane-d4	117	%	70-130			
Toluene-d8	106	%	70-130			
4-Bromofluorobenzene	108	%	70-130			
Dibromofluoromethane	104	%	70-130			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-18

IP-4R1

Sample Matrix:

WATER

Date Collected: 03-MAY-2006 16:25

Date Received : 04-MAY-2006

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B					60-8260B	0509-23-20	RY
Methylene chloride	ND	ug/l	50.				
1,1-Dichloroethane	7.3J	ug/l	7.5				
Chloroform	ND	ug/l	7.5				
Carbon tetrachloride	ND	ug/l	5.0				
1,2-Dichloropropane	ND	ug/l	18.				
Dibromochloromethane	ND	ug/l	5.0				
1,1,2-Trichloroethane	ND	ug/l	7.5				
Tetrachloroethene	28	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
Trichlorofluoromethane	ND	ug/l	25.				
1,2-Dichloroethane	ND	ug/l	5.0				
1,1,1-Trichloroethane	ND	ug/l	5.0				
Bromodichloromethane	ND	ug/l	5.0				
trans-1,3-Dichloropropene	ND	ug/l	5.0				
cis-1,3-Dichloropropene	ND	ug/l	5.0				
1,1-Dichloropropene	ND	ug/l	25.				
Bromoform	ND	ug/l	20.				
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0				
Benzene	ND	ug/l	5.0				
Toluene	ND	ug/l	7.5				
Ethylbenzene	ND	ug/l	5.0				
Chloromethane	ND	ug/l	25.				
Bromomethane	ND	ug/l	10.				
Vinyl chloride	23	ug/l	10				
Chloroethane	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	5.0				
trans-1,2-Dichloroethene	ND	ug/l	7.5				
Trichloroethene	240	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	25.				
1,3-Dichlorobenzene	ND	ug/l	25.				
1,4-Dichlorobenzene	ND	ug/l	25.				
Methyl tert butyl ether	ND	ug/l	10.				
p/m-Xylene	ND	ug/l	10.				
o-Xylene	ND	ug/l	10.				
cis-1,2-Dichloroethene	41	ug/l	5.0				
Dibromomethane	ND	ug/l	50.				
1,2,3-Trichloropropane	ND	ug/l	50.				
Styrene	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0606340-18
IP-4R1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP-8260B cont'd				60 8260B	050923:20:RY		
Dichlorodifluoromethane	ND	ug/l	50.				
Acetone	ND	ug/l	50.				
Carbon disulfide	ND	ug/l	50.				
2-Butanone	ND	ug/l	50.				
4-Methyl-2-pentanone	ND	ug/l	50.				
2-Hexanone	ND	ug/l	50.				
Bromochloromethane	ND	ug/l	25.				
Tetrahydrofuran	ND	ug/l	100				
2,2-Dichloropropane	ND	ug/l	25.				
1,2-Dibromoethane	ND	ug/l	20.				
1,3-Dichloropropane	ND	ug/l	25.				
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0				
Bromobenzene	ND	ug/l	25.				
n-Butylbenzene	ND	ug/l	5.0				
sec-Butylbenzene	ND	ug/l	5.0				
tert-Butylbenzene	ND	ug/l	25.				
o-Chlorotoluene	ND	ug/l	25.				
p-Chlorotoluene	ND	ug/l	25.				
1,2-Dibromo-3-chloropropane	ND	ug/l	25.				
Hexachlorobutadiene	ND	ug/l	6.0				
Isopropylbenzene	ND	ug/l	5.0				
p-Isopropyltoluene	ND	ug/l	5.0				
Naphthalene	ND	ug/l	25.				
n-Propylbenzene	ND	ug/l	5.0				
1,2,3-Trichlorobenzene	ND	ug/l	25.				
1,2,4-Trichlorobenzene	ND	ug/l	25.				
1,3,5-Trimethylbenzene	ND	ug/l	25.				
1,2,4-Trimethylbenzene	ND	ug/l	25.				
Ethyl ether	ND	ug/l	25.				
Isopropyl Ether	ND	ug/l	20.				
Ethyl-Tert-Butyl-Ether	ND	ug/l	20.				
Tertiary-Amyl Methyl Ether	ND	ug/l	20.				
1,4-Dioxane	ND	ug/l	2500				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	113	%	70-130				
Toluene-d8	105	%	70-130				
4-Bromofluorobenzene	112	%	70-130				
Dibromofluoromethane	101	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-19

MW-902

Sample Matrix:

WATER

Date Collected: 03-MAY-2006 16:25

Date Received : 04-MAY-2006

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 6-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B	0509 23:56 RY		
Methylene chloride	ND	ug/l	50.				
1,1-Dichloroethane	6.6J	ug/l	7.5				
Chloroform	ND	ug/l	7.5				
Carbon tetrachloride	ND	ug/l	5.0				
1,2-Dichloropropane	ND	ug/l	18.				
Dibromochloromethane	ND	ug/l	5.0				
1,1,2-Trichloroethane	ND	ug/l	7.5				
Tetrachloroethene	25	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
Trichlorofluoromethane	ND	ug/l	25.				
1,2-Dichloroethane	ND	ug/l	5.0				
1,1,1-Trichloroethane	ND	ug/l	5.0				
Bromodichloromethane	ND	ug/l	5.0				
trans-1,3-Dichloropropene	ND	ug/l	5.0				
cis-1,3-Dichloropropene	ND	ug/l	5.0				
1,1-Dichloropropene	ND	ug/l	25.				
Bromoform	ND	ug/l	20.				
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0				
Benzene	ND	ug/l	5.0				
Toluene	ND	ug/l	7.5				
Ethylbenzene	ND	ug/l	5.0				
Chloromethane	ND	ug/l	25.				
Bromomethane	ND	ug/l	10.				
Vinyl chloride	26	ug/l	10				
Chloroethane	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	5.0				
trans-1,2-Dichloroethene	ND	ug/l	7.5				
Trichloroethene	250	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	25.				
1,3-Dichlorobenzene	ND	ug/l	25.				
1,4-Dichlorobenzene	ND	ug/l	25.				
Methyl tert butyl ether	ND	ug/l	10.				
p/m-Xylene	ND	ug/l	10.				
o-Xylene	ND	ug/l	10.				
cis-1,2-Dichloroethene	43	ug/l	5.0				
Dibromomethane	ND	ug/l	50.				
1,2,3-Trichloropropane	ND	ug/l	50.				
Styrene	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0606340-19
MW-902

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd							
Dichlorodifluoromethane	ND	ug/l	50.				0509/23/96 RY
Acetone	ND	ug/l	50.				
Carbon disulfide	ND	ug/l	50.				
2-Butanone	ND	ug/l	50.				
4-Methyl-2-pentanone	ND	ug/l	50.				
2-Hexanone	ND	ug/l	50.				
Bromochloromethane	ND	ug/l	25.				
Tetrahydrofuran	ND	ug/l	100				
2,2-Dichloropropane	ND	ug/l	25.				
1,2-Dibromoethane	ND	ug/l	20.				
1,3-Dichloropropane	ND	ug/l	25.				
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0				
Bromobenzene	ND	ug/l	25.				
n-Butylbenzene	ND	ug/l	5.0				
sec-Butylbenzene	ND	ug/l	5.0				
tert-Butylbenzene	ND	ug/l	25.				
o-Chlorotoluene	ND	ug/l	25.				
p-Chlorotoluene	ND	ug/l	25.				
1,2-Dibromo-3-chloropropane	ND	ug/l	25.				
Hexachlorobutadiene	ND	ug/l	6.0				
Isopropylbenzene	ND	ug/l	5.0				
p-Isopropyltoluene	ND	ug/l	5.0				
Naphthalene	ND	ug/l	25.				
n-Propylbenzene	ND	ug/l	5.0				
1,2,3-Trichlorobenzene	ND	ug/l	25.				
1,2,4-Trichlorobenzene	ND	ug/l	25.				
1,3,5-Trimethylbenzene	ND	ug/l	25.				
1,2,4-Trimethylbenzene	ND	ug/l	25.				
Ethyl ether	ND	ug/l	25.				
Isopropyl Ether	ND	ug/l	20.				
Ethyl-Tert-Butyl-Ether	ND	ug/l	20.				
Tertiary-Amyl Methyl Ether	ND	ug/l	20.				
1,4-Dioxane	ND	ug/l	2500				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	117	%	70-130				
Toluene-d8	110	%	70-130				
4-Bromofluorobenzene	114	%	70-130				
Dibromofluoromethane	103	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-20

IP-3R2

Date Collected: 03-MAY-2006 17:05

Date Received : 04-MAY-2006

Sample Matrix:

WATER

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60/8260B		0510 01:44	RY
Methylene chloride	ND	ug/l	250				
1,1-Dichloroethane	93	ug/l	38				
Chloroform	ND	ug/l	38.				
Carbon tetrachloride	ND	ug/l	25.				
1,2-Dichloropropane	ND	ug/l	88.				
Dibromochloromethane	ND	ug/l	25.				
1,1,2-Trichloroethane	ND	ug/l	38.				
Tetrachloroethene	210	ug/l	25				
Chlorobenzene	ND	ug/l	25.				
Trichlorofluoromethane	ND	ug/l	120				
1,2-Dichloroethane	ND	ug/l	25.				
1,1,1-Trichloroethane	ND	ug/l	25.				
Bromodichloromethane	ND	ug/l	25.				
trans-1,3-Dichloropropene	ND	ug/l	25.				
cis-1,3-Dichloropropene	ND	ug/l	25.				
1,1-Dichloropropene	ND	ug/l	120				
Bromoform	ND	ug/l	100				
1,1,2,2-Tetrachloroethane	ND	ug/l	25.				
Benzene	ND	ug/l	25.				
Toluene	ND	ug/l	38.				
Ethylbenzene	ND	ug/l	25.				
Chloromethane	ND	ug/l	120				
Bromomethane	ND	ug/l	50.				
Vinyl chloride	ND	ug/l	50.				
Chloroethane	ND	ug/l	50.				
1,1-Dichloroethene	ND	ug/l	25.				
trans-1,2-Dichloroethene	ND	ug/l	38.				
Trichloroethene	1500	ug/l	25				
1,2-Dichlorobenzene	ND	ug/l	120				
1,3-Dichlorobenzene	ND	ug/l	120				
1,4-Dichlorobenzene	ND	ug/l	120				
Methyl tert butyl ether	ND	ug/l	50.				
p/m-Xylene	ND	ug/l	50.				
o-Xylene	ND	ug/l	50.				
cis-1,2-Dichloroethene	43	ug/l	25				
Dibromomethane	ND	ug/l	250				
1,2,3-Trichloropropane	ND	ug/l	250				
Styrene	ND	ug/l	50.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0606340-20
IP-3R2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics, by MCP-8260B cont'd				60 8260B		0510 01:44	RY
Dichlorodifluoromethane	ND	ug/l	250				
Acetone	ND	ug/l	250				
Carbon disulfide	ND	ug/l	250				
2-Butanone	ND	ug/l	250				
4-Methyl-2-pentanone	ND	ug/l	250				
2-Hexanone	ND	ug/l	250				
Bromochloromethane	ND	ug/l	120				
Tetrahydrofuran	ND	ug/l	500				
2,2-Dichloropropane	ND	ug/l	120				
1,2-Dibromoethane	ND	ug/l	100				
1,3-Dichloropropane	ND	ug/l	120				
1,1,1,2-Tetrachloroethane	ND	ug/l	25.				
Bromobenzene	ND	ug/l	120				
n-Butylbenzene	ND	ug/l	25.				
sec-Butylbenzene	ND	ug/l	25.				
tert-Butylbenzene	ND	ug/l	120				
o-Chlorotoluene	ND	ug/l	120				
p-Chlorotoluene	ND	ug/l	120				
1,2-Dibromo-3-chloropropane	ND	ug/l	120				
Hexachlorobutadiene	ND	ug/l	30.				
Isopropylbenzene	ND	ug/l	25.				
p-Isopropyltoluene	ND	ug/l	25.				
Naphthalene	ND	ug/l	120				
n-Propylbenzene	ND	ug/l	25.				
1,2,3-Trichlorobenzene	ND	ug/l	120				
1,2,4-Trichlorobenzene	ND	ug/l	120				
1,3,5-Trimethylbenzene	ND	ug/l	120				
1,2,4-Trimethylbenzene	ND	ug/l	120				
Ethyl ether	ND	ug/l	120				
Isopropyl Ether	ND	ug/l	100				
Ethyl-Tert-Butyl-Ether	ND	ug/l	100				
Tertiary-Amyl Methyl Ether	ND	ug/l	100				
1,4-Dioxane	ND	ug/l	12000				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	111	%	70-130				
Toluene-d8	107	%	70-130				
4-Bromofluorobenzene	110	%	70-130				
Dibromofluoromethane	101	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum 1

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0606340-21

TB-02

Date Collected: 27-APR-2006 16:30

Date Received : 04-MAY-2006

Sample Matrix: WATER

Date Reported : 11-MAY-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP-8260B				60-8260B		0509 21:32 RY	
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	1.0				
o-Xylene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	1.0				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: 10606340-21
TB-02

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B: cont'd				60 8260B	0509, 21:32:RY		
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	0.60				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Isopropyl Ether	ND	ug/l	2.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0				
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0				
1,4-Dioxane	ND	ug/l	250				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	118	%	70-130				
Toluene-d8	108	%	70-130				
4-Bromofluorobenzene	111	%	70-130				
Dibromofluoromethane	102	%	70-130				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0606340

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 09-15 (WG238889-1, WG238889-2)					
Methylene chloride	108	108	0	25	70-130
1,1-Dichloroethane	124	107	15	25	70-130
Chloroform	118	114	3	25	70-130
Carbon tetrachloride	116	115	1	25	70-130
1,2-Dichloropropane	118	110	7	25	70-130
Dibromochloromethane	94	92	2	25	70-130
1,1,2-Trichloroethane	108	105	3	25	70-130
Tetrachloroethene	106	98	8	25	70-130
Chlorobenzene	105	102	3	25	70-130
Trichlorofluoromethane	129	122	6	25	70-130
1,2-Dichloroethane	128	126	2	25	70-130
1,1,1-Trichloroethane	124	116	7	25	70-130
Bromodichloromethane	116	106	9	25	70-130
trans-1,3-Dichloropropene	102	97	5	25	70-130
cis-1,3-Dichloropropene	106	100	6	25	70-130
1,1-Dichloropropene	115	109	5	25	70-130
Bromoform	98	94	4	50	70-130
1,1,2,2-Tetrachloroethane	100	100	0	25	70-130
Benzene	113	107	5	25	70-130
Toluene	104	99	5	25	70-130
Ethylbenzene	108	102	6	25	70-130
Chloromethane	109	103	6	50	70-130
Bromomethane	108	81	29	50	70-130
Vinyl chloride	118	111	6	25	70-130
Chloroethane	107	103	4	25	70-130
1,1-Dichloroethene	113	106	6	25	70-130
trans-1,2-Dichloroethene	113	108	5	25	70-130
Trichloroethene	112	108	4	25	70-130
1,2-Dichlorobenzene	96	94	2	25	70-130
1,3-Dichlorobenzene	99	95	4	25	70-130
1,4-Dichlorobenzene	99	96	3	25	70-130
Methyl tert butyl ether	111	72	43	25	70-130
p/m-Xylene	106	103	3	25	70-130
o-Xylene	101	96	5	25	70-130
cis-1,2-Dichloroethene	119	105	13	25	70-130
Dibromomethane	121	116	4	25	70-130
1,2,3-Trichloropropane	110	110	0	25	70-130
Styrene	102	100	2	25	70-130
Dichlorodifluoromethane	125	118	6	50	70-130
Acetone	83	115	32	50	70-130
Carbon disulfide	88	84	5	25	70-130
2-Butanone	112	96	15	50	70-130
4-Methyl-2-pentanone	93	96	3	50	70-130
2-Hexanone	90	91	1	50	70-130
Bromochloromethane	118	112	5	25	70-130
Tetrahydrofuran	111	100	10	25	70-130
2,2-Dichloropropane	122	78	44	50	70-130
1,2-Dibromoethane	110	106	4	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0606340

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
- Volatile Organics by MCP 8260B for sample(s) 09-15 (WG238889-1, WG238889-2)					
1,3-Dichloropropane	105	103	2	25	70-130
1,1,1,2-Tetrachloroethane	107	100	7	25	70-130
Bromobenzene	95	95	0	25	70-130
n-Butylbenzene	95	93	2	25	70-130
sec-Butylbenzene	97	93	4	25	70-130
tert-Butylbenzene	97	92	5	25	70-130
o-Chlorotoluene	101	100	1	25	70-130
p-Chlorotoluene	98	96	2	25	70-130
1,2-Dibromo-3-chloropropane	94	92	2	50	70-130
Hexachlorobutadiene	94	89	5	25	70-130
Isopropylbenzene	113	110	3	25	70-130
p-Isopropyltoluene	98	95	3	25	70-130
Naphthalene	85	88	3	25	70-130
n-Propylbenzene	98	94	4	25	70-130
1,2,3-Trichlorobenzene	98	97	1	25	70-130
1,2,4-Trichlorobenzene	90	90	0	25	70-130
1,3,5-Trimethylbenzene	98	96	2	25	70-130
1,2,4-Trimethylbenzene	101	96	5	25	70-130
Ethyl ether	90	87	3	25	70-130
Isopropyl Ether	91	87	4	25	70-130
Ethyl-Tert-Butyl-Ether	102	76	29	25	70-130
Tertiary-Amyl Methyl Ether	101	78	26	25	70-130
1,4-Dioxane	118	118	0	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	119	117	2		70-130
Toluene-d8	98	97	1		70-130
4-Bromofluorobenzene	101	102	1		70-130
Dibromofluoromethane	111	103	7		70-130
- Volatile Organics by MCP 8260B for sample(s) 16-21 (WG239140-3, WG239140-4)					
Methylene chloride	102	92	10	25	70-130
1,1-Dichloroethane	114	100	13	25	70-130
Chloroform	108	97	11	25	70-130
Carbon tetrachloride	116	102	13	25	70-130
1,2-Dichloropropane	106	94	12	25	70-130
Dibromochloromethane	94	92	2	25	70-130
1,1,2-Trichloroethane	104	100	4	25	70-130
Tetrachloroethene	108	102	6	25	70-130
Chlorobenzene	106	102	4	25	70-130
Trichlorofluoromethane	134	111	19	25	70-130
1,2-Dichloroethane	120	110	9	25	70-130
1,1,1-Trichloroethane	117	105	11	25	70-130
Bromodichloromethane	103	92	11	25	70-130
trans-1,3-Dichloropropene	102	96	6	25	70-130
cis-1,3-Dichloropropene	93	87	7	25	70-130
1,1-Dichloropropene	108	95	13	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0606340

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s): 16-21, (WG239140-3, WG239140-4)					
Bromoform	95	90	5	50	70-130
1,1,2,2-Tetrachloroethane	98	100	2	25	70-130
Benzene	104	93	11	25	70-130
Toluene	104	95	9	25	70-130
Ethylbenzene	109	101	8	25	70-130
Chloromethane	98	86	13	50	70-130
Bromomethane	88	93	6	50	70-130
Vinyl chloride	118	101	16	25	70-130
Chloroethane	103	96	7	25	70-130
1,1-Dichloroethene	105	92	13	25	70-130
trans-1,2-Dichloroethene	107	94	13	25	70-130
Trichloroethene	103	95	8	25	70-130
1,2-Dichlorobenzene	100	98	2	25	70-130
1,3-Dichlorobenzene	101	99	2	25	70-130
1,4-Dichlorobenzene	100	97	3	25	70-130
Methyl tert butyl ether	83	80	4	25	70-130
p/m-Xylene	107	100	7	25	70-130
o-Xylene	98	91	7	25	70-130
cis-1,2-Dichloroethene	109	96	13	25	70-130
Dibromomethane	113	105	7	25	70-130
1,2,3-Trichloropropane	108	108	0	25	70-130
Styrene	98	90	9	25	70-130
Dichlorodifluoromethane	122	105	15	50	70-130
Acetone	80	64	22	50	70-130
Carbon disulfide	81	69	16	25	70-130
2-Butanone	82	75	9	50	70-130
4-Methyl-2-pentanone	76	72	5	50	70-130
2-Hexanone	78	74	5	50	70-130
Bromochloromethane	106	94	12	25	70-130
Tetrahydrofuran	98	80	20	25	70-130
2,2-Dichloropropane	108	103	5	50	70-130
1,2-Dibromoethane	104	101	3	25	70-130
1,3-Dichloropropane	103	98	5	25	70-130
1,1,1,2-Tetrachloroethane	104	97	7	25	70-130
Bromobenzene	99	98	1	25	70-130
n-Butylbenzene	101	97	4	25	70-130
sec-Butylbenzene	104	98	6	25	70-130
tert-Butylbenzene	103	98	5	25	70-130
o-Chlorotoluene	107	104	3	25	70-130
p-Chlorotoluene	103	100	3	25	70-130
1,2-Dibromo-3-chloropropane	92	83	10	50	70-130
Hexachlorobutadiene	108	100	8	25	70-130
Isopropylbenzene	118	108	9	25	70-130
p-Isopropyltoluene	103	99	4	25	70-130
Naphthalene	76	84	10	25	70-130
n-Propylbenzene	104	97	7	25	70-130
1,2,3-Trichlorobenzene	93	99	6	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0606340

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 16-21 (WG239140-3, WG239140-4)					
1,2,4-Trichlorobenzene	92	94	2	25	70-130
1,3,5-Trimethylbenzene	103	99	4	25	70-130
1,2,4-Trimethylbenzene	104	102	2	25	70-130
Ethyl ether	71	66	7	25	70-130
Isopropyl Ether	74	67	10	25	70-130
Ethyl-Tert-Butyl-Ether	80	76	5	25	70-130
Tertiary-Amyl Methyl Ether	78	75	4	25	70-130
1,4-Dioxane	92	80	14	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	117	116	1		70-130
Toluene-d8	103	102	1		70-130
4-Bromofluorobenzene	104	105	1		70-130
Dibromofluoromethane	111	106	5		70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0606340

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by MCP-8260B for sample(s) 16-21 (L0606340-19, WG239140-2)					
Methylene chloride	94	92	2	30	70-130
1,1-Dichloroethane	103	101	2	30	70-130
Chloroform	96	92	4	30	70-130
Carbon tetrachloride	98	95	3	30	70-130
1,2-Dichloropropane	98	96	2	30	70-130
Dibromochloromethane	92	90	2	30	70-130
1,1,2-Trichloroethane	91	88	3	30	70-130
Tetrachloroethene	102	93	9	30	70-130
Chlorobenzene	95	91	4	30	70-130
Trichlorofluoromethane	101	119	16	30	70-130
1,2-Dichloroethane	98	99	1	30	70-130
1,1,1-Trichloroethane	101	97	4	30	70-130
Bromodichloromethane	94	92	2	30	70-130
trans-1,3-Dichloropropene	90	85	6	30	70-130
cis-1,3-Dichloropropene	90	90	0	30	70-130
1,1-Dichloropropene	96	94	2	30	70-130
Bromoform	95	89	7	30	70-130
1,1,2,2-Tetrachloroethane	88	89	1	30	70-130
Benzene	98	95	3	30	70-130
Toluene	97	94	3	30	70-130
Ethylbenzene	97	92	5	30	70-130
Chloromethane	82	84	2	30	70-130
Bromomethane	80	84	5	30	70-130
Vinyl chloride	91	88	3	30	70-130
Chloroethane	88	86	2	30	70-130
1,1-Dichloroethene	95	96	1	30	70-130
trans-1,2-Dichloroethene	94	94	0	30	70-130
Trichloroethene	171	160	7	30	70-130
1,2-Dichlorobenzene	92	89	3	30	70-130
1,3-Dichlorobenzene	88	87	1	30	70-130
1,4-Dichlorobenzene	90	92	2	30	70-130
Methyl tert butyl ether	66	59	11	30	70-130
p/m-Xylene	95	92	3	30	70-130
o-Xylene	94	92	2	30	70-130
cis-1,2-Dichloroethene	117	112	4	30	70-130
Dibromomethane	104	100	4	30	70-130
1,2,3-Trichloropropane	105	103	2	30	70-130
Styrene	94	90	4	30	70-130
Dichlorodifluoromethane	82	80	2	30	70-130
Acetone	91	99	8	30	70-130
Carbon disulfide	70	68	3	30	70-130
2-Butanone	85	78	9	30	70-130
4-Methyl-2-pentanone	84	84	0	30	70-130
2-Hexanone	83	81	2	30	70-130
Bromochloromethane	98	94	4	30	70-130
Tetrahydrofuran	104	94	10	30	70-130
2,2-Dichloropropane	68	62	9	30	70-130
1,2-Dibromoethane	96	93	3	30	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0606340

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by MCP 8260B for sample(s) 16-21 (L0606340-19, WG239140-2)					
1,3-Dichloropropane	95	90	5	30	70-130
1,1,1,2-Tetrachloroethane	94	92	2	30	70-130
Bromobenzene	92	92	0	30	70-130
n-Butylbenzene	84	80	5	30	70-130
sec-Butylbenzene	93	91	2	30	70-130
tert-Butylbenzene	96	93	3	30	70-130
o-Chlorotoluene	95	90	5	30	70-130
p-Chlorotoluene	88	87	1	30	70-130
1,2-Dibromo-3-chloropropane	83	83	0	30	70-130
Hexachlorobutadiene	94	88	7	30	70-130
Isopropylbenzene	107	99	8	30	70-130
p-Isopropyltoluene	92	91	1	30	70-130
Naphthalene	83	85	2	30	70-130
n-Propylbenzene	95	92	3	30	70-130
1,2,3-Trichlorobenzene	80	78	3	30	70-130
1,2,4-Trichlorobenzene	80	78	3	30	70-130
1,3,5-Trimethylbenzene	94	92	2	30	70-130
1,2,4-Trimethylbenzene	92	90	2	30	70-130
Ethyl ether	105	101	4	30	70-130
Isopropyl Ether	96	96	0	30	70-130
Ethyl-Tert-Butyl-Ether	81	76	6	30	70-130
Tertiary-Amyl Methyl Ether	80	77	4	30	70-130
1,4-Dioxane	86	87	1	30	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	106	103	3		70-130
Toluene-d8	100	100	0		70-130
4-Bromofluorobenzene	98	99	1		70-130
Dibromofluoromethane	103	103	0		70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606340

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 09-15 (WG238889-3)						
Volatile Organics by MCP 8260B				60 8260B	0509 12:27 RY	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	1.0			
o-Xylene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,2,3-Trichloropropane	ND	ug/l	5.0			
Styrene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	5.0			
Acetone	ND	ug/l	5.0			
Carbon disulfide	ND	ug/l	5.0			
2-Butanone	ND	ug/l	5.0			
4-Methyl-2-pentanone	ND	ug/l	5.0			
2-Hexanone	ND	ug/l	5.0			
Bromochloromethane	ND	ug/l	2.5			
Tetrahydrofuran	ND	ug/l	10.			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606340

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE	ID
					PREP	ANAL
Blank Analysis for sample(s) 09-15 (WG238889-3)						
Volatile Organics by MCP 8260B cont'd				60 8260B	0509 12:27 RY	
2,2-Dichloropropane	ND	ug/l	2.5			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
Bromobenzene	ND	ug/l	2.5			
n-Butylbenzene	ND	ug/l	0.50			
sec-Butylbenzene	ND	ug/l	0.50			
tert-Butylbenzene	ND	ug/l	2.5			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	0.60			
Isopropylbenzene	ND	ug/l	0.50			
p-Isopropyltoluene	ND	ug/l	0.50			
Naphthalene	ND	ug/l	2.5			
n-Propylbenzene	ND	ug/l	0.50			
1,2,3-Trichlorobenzene	ND	ug/l	2.5			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			
1,3,5-Trimethylbenzene	ND	ug/l	2.5			
1,2,4-Trimethylbenzene	ND	ug/l	2.5			
Ethyl ether	ND	ug/l	2.5			
Isopropyl Ether	ND	ug/l	2.0			
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0			
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0			
1,4-Dioxane	ND	ug/l	250			
Surrogate(s)	Recovery		QC Criteria			
1,2-Dichloroethane-d4	117	%	70-130			
Toluene-d8	97.0	%	70-130			
4-Bromofluorobenzene	109	%	70-130			
Dibromofluoromethane	107	%	70-130			
Blank Analysis for sample(s) 16-21 (WG239140-5)						
Volatile Organics by MCP 8260B				60 8260B	0509 20:56 RY	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606340

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 16-21 (WG239140-5)							
Volatile Organics by MCP 8260B cont'd							
Bromodichloromethane	ND	ug/l	0.50				0509 20:56:RY
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	1.0				
o-Xylene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	0.60				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0606340

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 16-21 (WG239140-5)							
Volatile Organics by MCP 8260B (cont'd)				60-8260B	0509-20156.RY		
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Isopropyl Ether	ND	ug/l	2.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0				
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0				
1,4-Dioxane	ND	ug/l	250				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	113	%		70-130			
Toluene-d8	106	%		70-130			
4-Bromofluorobenzene	109	%		70-130			
Dibromofluoromethane	104	%		70-130			

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

60. Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

GLOSSARY OF TERMS AND SYMBOLS

REF	Reference number in which test method may be found.
METHOD	Method number by which analysis was performed.
ID	Initials of the analyst.
ND	Not detected in comparison to the reported detection limit.
NI	Not Ignitable.
J	Analyte concentration is below quantitation limit (RDL), but above the Method Detection Limit (MDL). Value is estimated.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

**ALPHA ANALYTICAL LABORATORIES
LOGIN SPECIFIC INFORMATION**

Laboratory Job Number: L0606340

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler pH	Temp	Pres Seal	Analysis
L0606340-01A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	HOLD
L0606340-01B	Vial HCl preserved	A	N/A 3.7 C	Y Absent	HOLD
L0606340-02A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	HOLD
L0606340-02B	Vial HCl preserved	A	N/A 3.7 C	Y Absent	HOLD
L0606340-03A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	HOLD
L0606340-03B	Vial HCl preserved	A	N/A 3.7 C	Y Absent	HOLD
L0606340-04A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	HOLD
L0606340-04B	Vial HCl preserved	A	N/A 3.7 C	Y Absent	HOLD
L0606340-05A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	HOLD
L0606340-05B	Vial HCl preserved	A	N/A 3.7 C	Y Absent	HOLD
L0606340-06A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	HOLD
L0606340-06B	Vial HCl preserved	A	N/A 3.7 C	Y Absent	HOLD
L0606340-07A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	HOLD
L0606340-07B	Vial HCl preserved	A	N/A 3.7 C	Y Absent	HOLD
L0606340-07C	Vial HCl preserved	A	N/A 3.7 C	Y Absent	HOLD
L0606340-07D	Vial HCl preserved	A	N/A 3.7 C	Y Absent	HOLD
L0606340-07E	Vial HCl preserved	A	N/A 3.7 C	Y Absent	HOLD
L0606340-07F	Vial HCl preserved	A	N/A 3.7 C	Y Absent	HOLD
L0606340-08A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	HOLD
L0606340-09A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-09B	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-10A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-10B	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-11A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-11B	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-12A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-12B	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-13A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-13B	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-14A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-14B	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-15A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-15B	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-16A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-16B	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-17A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-17B	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-18A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-18B	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-19A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-19B	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04

**ALPHA ANALYTICAL LABORATORIES
LOGIN SPECIFIC INFORMATION**

Laboratory Job Number: L0606340

Continued

Container ID	Container Type	Cooler pH	Temp	Pres Seal	Analysis
L0606340-19C	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-19D	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-19E	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-19F	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-20A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-20B	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04
L0606340-21A	Vial HCl preserved	A	N/A 3.7 C	Y Absent	MCP-8260-04

Container Comments

Container ID Comments

L0606340-07A This container has not been properly returned to CUSTODY! It was last assigned to TTORSKI for department CUSTODY on 05/06/06 10:16 .

CHAIN OF CUSTODY

PAGE 1 OF 3

Date Rec'd In Lab: 5/4

ALPHA Job #: 6060340

ALPHA

WESTBORO, MA
TEL: 508-890-9220
FAX: 508-890-9228

Client Information

Client: TRC Environmental Corp.

Address: 116 John St.

Lowell, MA 01852

Phone: 978-970-5600

Fax: 978-453-1995

Email: K.Cormier@trcsolutions.com

Project Information

Project Name: Former GE Site

Project Location: Wilmington, MA

Project #: E9202

Project Manager: Ken Cormier

ALPHA Quote #:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ Add'l Deliverables

Billing Information

☒ Same as Client info

PO #:

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

MCP GW-1

MA MCP PRESUMPTIVE CERTAINTY - CT REASONABLE CONFIDENCE PROTOCOLS

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 5/11

Time:

Other Project Specific Requirements/Comments/Detection Limits:

Samples shipped on ice. Temp blank in cooler.

Presumptive certainty required.

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Samples shipped on ice. Temp blank in cooler.

Presumptive certainty required.

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials	ANALYSIS	Sample Handling	Sample Specific Comments
6340-1	TRC-106	5/2/06	12:15	GW	MAD	X	☒ Filtration ☒ Done ☒ Not needed ☒ Lab to do ☒ Preservation ☒ Lab to do (Please specify below)	
6340-2	TRC-104	5/2/06	14:10	GW	MAD	X		
6340-3	WE-9	5/2/06	15:55	GW	MAD	X		
6340-4	WE-8	5/2/06	17:20	GW	MAD	X		
6340-5	WE-7	5/3/06	09:40	GW	MAD	X		
6340-6	WE-45	5/3/06	11:20	GW	MAD	X		
6340-7	MW-901	5/3/06	11:20	GW	MAD	X		
6340-8	TB-01	4/27/06	16:30	Aqueous	LAB	X		
6340-9	BRW-1R2	5/3/06	13:05	GW	MAD	X		MS/DUP
6340-10	BRW-1R4	5/3/06	13:20	GW	MAD	X		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT

MA MCP or CT RCP?

YES

Relinquished By:

[Signature]

Date/Time

5/4/06 11:20
5/4 1710

Received By:

[Signature]

Date/Time

5-4-06 112
5/4 1710

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

CHAIN OF CUSTODY

PAGE 2 OF 3

ALPHA

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

Project Information

Project Name: Former GE Site
Project Location: Wilmington, MA
Project #: E9202
Project Manager: Ken Cormier

Client Information

Client: TRC Environmental Corp

Address: 116 John St.

Lowell, MA 01852

Phone: 978-970-5600

Fax: 978-453-1995

Email: kcormier@trcsolutions.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Samples shipped on ice. Temp blank in cooler.
Presumptive certainty required.

Turn-Around Time

Standard ☒ RUSH ☐

Date Due: 5/11 Time: _____

☒ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

MA MCP PRESUMPTIVE CERTAINTY - CT REASONABLE CONFIDENCE PROTOCOLS

State of Fed Program MA Criteria GW-1

Regulatory Requirements/Report Limits

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

Billing Information

ALPHA Job #: 70606340

Date Rec'd In Lab: 5/4

PLEASE ANSWER QUESTIONS ABOVE

IS YOUR PROJECT
MA MCP OF CT RCP?
YES

Relinquished By: Ken Cormier

Date/Time: 5/4/06 11:20

Received By: Ken Cormier

Date/Time: 5/4/06 11:20

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

ANALYSIS	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials	Sample Handling	Sample Specific Comments	TOTAL
<u>VOL 8260</u>	6340-11	5/3/06	1345	GW	MAD	☐ Filtration ☐ Done ☒ Not needed ☐ Lab to do ☐ Preservation ☐ Lab to do (Please specify below)		2
	12	5/3/06	1405	GW	MAD			2
	13	5/3/06	1435	GW	MAD			2
	14	5/3/06	1500	GW	MAD			2
	15	5/3/06	1525	GW	MAD			2
	16	5/3/06	1550	GW	MAD			2
	17	5/3/06	1610	GW	MAD			2
	18	5/3/06	1625	GW	MAD			2
	19	5/3/06	1625	GW	MAD			2
	20	5/3/06	1705	GW	MAD		MS/MSD	6
								2

CHAIN OF CUSTODY

PAGE 3 OF 3

ALPHA Job #: **LO606340**

5/4

Date Rec'd in Lab:

ALPHA
WESTBORO, MA
TEL: 508-422-9300
FAX: 508-422-3288

Client Information

Client: **TRC Environmental Corp.**

Address: **116 John St.**

Lovell, MA 01853

Phone: **978-970-5600**

Fax: **978-453-1995**

Email: **KCormier@trcsolutions.com**

Other Project Specific Requirements/Comments/Detection Limits:

Samples shipped on ice. Temp blank in cooler. Presumptive certainty required.

Project Information

Project Name: **Former GE Site**

Project Location: **Wilmington, MA**

Project #: **E9202**

Project Manager: **Ken Cormier**

ALPHA Quota #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-authorized)

Date Due: **5/11** Time:

Report Information - Data Deliverables

☐ FAX ☒ EMAIL

☒ ADEX ☐ Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program

MA DEP

MA MCP PRESUMPTIVE CERTAINTY - C-TPREASONABLE CONFIDENCE PROTOCOLS

☒ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS

OK 8260

SAMPLE HANDLING
Filtration
☐ Done
☒ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)

6340-21

Sample ID

TB-02

Collection Date

4/27/06

Sample Matrix

ADAMS LAB X

Sampler's Initials

LAB X

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT

MA MCP or CT RCP?

YES

Relinquished By:

Ken Cormier

Date/Time

5/4/06 11:20

Received By:

Ken Cormier

Date/Time

5-4-06 12:12

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

Source Control OM&M Sampling Events : Air Sampling: Data Validation

Air samples collected during this sampling event were submitted to Alpha Woods Hole Laboratory in Westborough, MA for analysis. Both samples were collected in SUMMA® canisters and analyzed for volatile organic compounds (VOCs) using EPA Method TO-15. The samples included in this review are listed below. These samples were collected on December 28, 2005.

VGAC-301 (Influent)

VGAC-302 (Effluent)

TRC performed a limited validation of the VOC analytical data associated with these sampling events. The sample results were assessed using the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review* (10/99). Modification of the Functional Guidelines was done to accommodate the non-CLP methodology used by the laboratory. Qualification of sample data was not performed.

The limited validation was based upon the following parameters: holding times, laboratory method blanks, laboratory control sample (LCS) results, laboratory duplicate results, and an evaluation of sample quantitation limits. These parameters provide an adequate assessment of the overall accuracy and precision of the data set.

In general, the data appear to be valid as reported and may be used for decision-making purposes.

Accuracy

All samples were analyzed within the method-specified holding time.

Target compounds were not detected in the laboratory method blank.

One LCS was associated with this data set. This LCS exhibited low recoveries of 1,2,4-trichlorobenzene (40%) and hexachlorobutadiene (60%). Since these compounds are not contaminants of concern at this site, the overall decision-making process was not adversely affected by the potential low bias of these results.

Precision

The laboratory reported the results of a duplicate analysis performed on sample VGAC-302 (Effluent). The relative percent differences of all detected compounds were within the acceptance limits, indicating acceptable analytical precision.

Quantitation Limits

Sample VGAC-301 Influent was analyzed at a 10-fold dilution due to the concentrations of trichloroethene and tetrachloroethene which would have exceeded the calibration range if analyzed undiluted. The quantitation limits of this sample were elevated accordingly by the laboratory; the elevated quantitation limits did not affect the overall usability of the data.

APPENDIX C

TANK K- FIELD MONITORING FORMS

FORMER GE SITE - TANK K AREA
PHASE V OM&M FIELD FORM

TRC

Personnel: D.G. Gailor

System Functional Upon Arrival? Yes

Date: 1/09/06

SYSTEM MAINTENANCE & SYSTEM REPAIRS

Time System Was Down:

BIOSPARGING COMPONENT

	Inlet Pressure	Outlet Pressure	Inlet Temp (F)	Outlet Temp (F)
Cooling Loop	6.0	6.5	115	70
Sparge Points	Flow (CFM)	Pressure (psi)	O&M Notes	
A1	2	1		
A2	2	1		
A3	2	6.5		
A4	2	1		
B-1	2	6.5		
B-2	2	1		
B-3	2	1		
B-4	2	6		
B-5	2	1		
C-1	—	—		
C-2	—	—		
C-3	—	—		
C-4	—	—		
C-5	—	—		
C-6	—	—		

MW-4S GW EL. (ft): Not Found

Comments: Greased Fittings/checked oil - OK.

SVE COMPONENT

VOC Screening Instrument	Model No.	Lamp (eV)	Calibrated (Y/N)	Standard Used
PE Photovac	2020	10.6	Y	ISO 100
Parameters			O&M Notes	
Knockout Inlet Vacuum (In.w.c.)	Knockout Outlet Vacuum (In.w.c.)	Blower Discharge Pressure (In.w.c.)		
14	18	23		
GAC Inlet Vapor Conc. (ppm)	GAC Midstream Conc. (ppm)	GAC Outlet Vapor Conc. (ppm)		
0	0	0		
Lateral ID	Vacuum (In.w.c.)	VOCs in Air (ppm)		
Lateral A	10	0		
Lateral B	10	0		
Lateral C	10	0		

FORMER GE SITE - TANK K AREA
PHASE V OM&M FIELD FORM

TRC

Personnel: *Daniel G. Gailor*

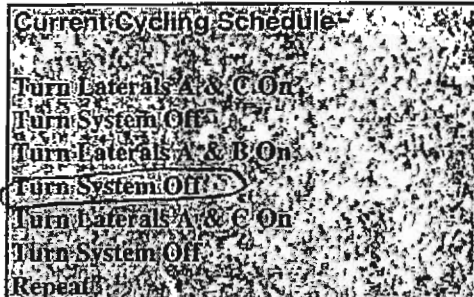
System Functional Upon Arrival? *Yes*

Date: *1/25/06*

SYSTEM MAINTENANCE & SYSTEM REPAIRS

Time System Was Down:

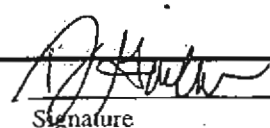
BIOSPARGING COMPONENT

	Inlet Pressure	Outlet Pressure	Inlet Temp (F)	Outlet Temp (F)
Cooling Loop	5.5	6.0	120	70
Sparge Points	Flow (CFM)	Pressure (psi)	O&M Notes	
A1	3.5	5.5		
A2	2.5	5.5		
A3	>1	5.5		
A4	3.5	5.0		
B-1	>1	5.0		
B-2	3.0	4.5		
B-3	4.5	4.0		
B-4	4.8	5.0		
B-5	3.5	5.5		
C-1	—	—		
C-2	—	—		
C-3	—	—		
C-4	—	—		
C-5	—	—		
C-6	—	—		

MW-4S GW EL. (ft): *Not Found*

Comments: *Greased Fittings.*

SVE COMPONENT

VOC Screening Instrument	Model No.	Lamp (eV)	Calibrated (Y/N)	Standard Used
<i>PE Photovac</i>	<i>2020</i>	<i>10.6</i>	<i>Y</i>	<i>140 100</i>
Parameters			O&M Notes	
Knockout Inlet Vacuum (In.w.c.)	Knockout Outlet Vacuum (In.w.c.)	Blower Discharge Pressure (In.w.c.)		
<i>14</i>	<i>18</i>	<i>24</i>		
GAC Inlet Vapor Conc. (ppm)	GAC Midstream Conc. (ppm)	GAC Outlet Vapor Conc. (ppm)		
<i>0</i>	<i>0</i>	<i>0</i>		
Lateral ID	Vacuum (In.w.c.)	VOCs in Air (ppm)		
Lateral A	<i>10</i>	<i>0</i>		
Lateral B	<i>11</i>	<i>0</i>		
Lateral C	<i>10</i>	<i>0</i>		

FORMER GE SITE - TANK K AREA
PHASE V OM&M FIELD FORM

TRC

Personnel: *D. G. Gailor*

System Functional Upon Arrival? *No*

Date: *2/6/06*

SYSTEM MAINTENANCE & SYSTEM REPAIRS

Time System Was Down: *15 min.*

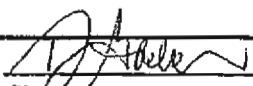
BIOSPARGING COMPONENT

	Inlet Pressure	Outlet Pressure	Inlet Temp (F)	Outlet Temp (F)
Cooling Loop	1	6	150	60
Sparge Points	Flow (CFM)	Pressure (psi)	O&M Notes	
A1	3	6	Current Cycling Schedule Turn Laterals A & C On Turn System Off Turn Laterals A & B On Turn System Off Turn Laterals A & C On Turn System Off Repeat Tested interlock (switches) changed oil Greased fittings Check Belts - OK Five Extinguisher - OK First Aid Kit - OK	
A2	2	6		
A3	1	7		
A4	4	7		
B-1	—	—		
B-2	—	—		
B-3	—	—		
B-4	—	—		
B-5	—	—		
C-1	4	5		
C-2	2	6		
C-3	4	9		
C-4	4	5		
C-5	4	6		
C-6	No leakage	9		
MW-4S GW EL. (ft): 2.56				

Comments

Ran system for approx. 2 hrs before completing monitoring. Shut down 5-min. to screen laterals.

SVE COMPONENT

VOC Screening Instrument	Model No.	Lamp (eV)	Calibrated (Y/N)	Standard Used
<i>Photovac</i>	<i>2020</i>	<i>10.6</i>	<i>Y</i>	<i>150/100</i>
Parameters			O&M Notes	
Knockout Inlet Vacuum (In.w.c.)	Knockout Outlet Vacuum (In.w.c.)	Blower Discharge Pressure (In.w.c.)		
<i>14</i>	<i>18</i>	<i>23.5</i>		
GAC Inlet Vapor Conc. (ppm)	GAC Midstream Conc. (ppm)	GAC Outlet Vapor Conc. (ppm)		
<i>0.0</i>	<i>0.0</i>	<i>0.0</i>		
Lateral ID	Vacuum (In.w.c.)	VOCs in Air (ppm)		
Lateral A	<i>10</i>	<i>0.0</i>	 Signature	
Lateral B	<i>10</i>	<i>0.0</i>		
Lateral C	<i>10</i>	<i>0.0</i>		

FORMER GE SITE - TANK K AREA
PHASE V OM&M FIELD FORM

TRC

Personnel: *D.G. Gailor*

System Functional Upon Arrival? *yes*

Date: *7/21/06*

SYSTEM MAINTENANCE & SYSTEM REPAIRS

Time System Was Down:

BIOSPARGING COMPONENT

	Inlet Pressure	Outlet Pressure	Inlet Temp (F)	Outlet Temp (F)
Cooling Loop	7	6	145	70
Sparge Points	Flow (CFM)	Pressure (psi)	O&M Notes	
A1	3	5	Current Cycling Schedule Turn Laterals A & C On Turn System Off Turn Laterals A & B On Turn System Off Turn Laterals A & C On Turn System Off Repeat	
A2	0	6		
A3	2	5		
A4	3	6		
		—		
B-1	—	—		
B-2	—	—		
B-3	—	—		
B-4	—	—		
B-5	—	—		
C-1	1.5	6		
C-2	0	6.5		
C-3	1	4		
C-4	8	5		
C-5	5	5		
C-6	—	9		

MW-4S GW EL. (ft): *3.25*

Comments (2) laterals showing no flow (A-3 & C-2).
system shut down - Next cycle = A+B
greased fittings

SVE COMPONENT

VOC Screening Instrument	Model No.	Lamp (eV)	Calibrated (Y/N)	Standard Used
<i>PhotoV3C</i>	<i>2020</i>	<i>10.0</i>	<i>Y</i>	<i>ISO 100</i>
Parameters			O&M Notes	
Knockout Inlet Vacuum (In.w.c.)	Knockout Outlet Vacuum (In.w.c.)	Blower Discharge Pressure (In.w.c.)		
<i>14</i>	<i>18</i>	<i>24</i>		
GAC Inlet Vapor Conc. (ppm)	GAC Midstream Conc. (ppm)	GAC Outlet Vapor Conc. (ppm)		
<i>0.0</i>	<i>0.0</i>	<i>0.0</i>		
Lateral ID	Vacuum (In.w.c.)	VOCs in Air (ppm)		
Lateral A	<i>10</i>	<i>0.0</i>		
Lateral B	<i>10</i>	<i>0.0</i>		
Lateral C	<i>10</i>	<i>0.0</i>		

[Signature]
Signature

FORMER GE SITE - TANK K AREA
PHASE V OM&M FIELD FORM

TRC

Personnel: *D. G. Gailor*

System Functional Upon Arrival? *No*

Date: *7/8/06*

SYSTEM MAINTENANCE & SYSTEM REPAIRS

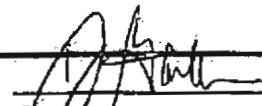
Time System Was Down:

BIOSPARGING COMPONENT

	Inlet Pressure	Outlet Pressure	Inlet Temp (F)	Outlet Temp (F)
Cooling Loop	<i>5</i>	<i>6</i>	<i>60</i>	<i>150</i>
Sparge Points	Flow (CFM)	Pressure (psi)	O&M Notes	
A1	<i>2.5</i>	<i>5</i>	Current Cycling Schedule Turn Laterals A & C On Turn System Off Turn Laterals A & B On Turn System Off Turn Laterals A & C On Turn System Off Repeat <i>Grease fittings</i> <i>check belts</i> <i>check switches</i>	
A2	<i>1.0</i>	<i>6</i>		
A3	<i>1.0</i>	<i>6</i>		
A4	<i>3.0</i>	<i>6</i>		
B-1	<i>1.5</i>	<i>5.5</i>		
B-2	<i>2.0</i>	<i>6</i>		
B-3	<i>5.0</i>	<i>6</i>		
B-4	<i>8.0</i>	<i>4</i>		
B-5	<i>4.0</i>	<i>6</i>		
C-1	<i>—</i>	<i>—</i>		
C-2	<i>—</i>	<i>—</i>		
C-3	<i>—</i>	<i>—</i>		
C-4	<i>—</i>	<i>—</i>		
C-5	<i>—</i>	<i>—</i>		
C-6	<i>—</i>	<i>—</i>		
MW-4S GW EL (ft):	<i>3.10</i>			

Comments

SVE COMPONENT

VOC Screening Instrument	Model No.	Lamp (eV)	Calibrated (Y/N)	Standard Used
<i>Photovac</i>	<i>2020</i>	<i>10.6</i>	<i>Y</i>	<i>150 100</i>
Parameters			O&M Notes	
Knockout Inlet Vacuum (In.w.c.)	Knockout Outlet Vacuum (In.w.c.)	Blower Discharge Pressure (In.w.c.)		
<i>13</i>	<i>17</i>	<i>24</i>		
GAC Inlet Vapor Conc. (ppm)	GAC Midstream Conc. (ppm)	GAC Outlet Vapor Conc. (ppm)		
<i>0.0</i>	<i>0.0</i>	<i>0.0</i>		
Lateral ID	Vaccum (In.w.c.)	VOCs in Air (ppm)		
Lateral A	<i>0</i>	<i>0.0</i>	 Signature	
Lateral B	<i>10</i>	<i>0.0</i>		
Lateral C	<i>10</i>	<i>0.0</i>		

FORMER GE SITE - TANK K AREA
PHASE V OM&M FIELD FORM

TRC

Personnel: D. Gailor

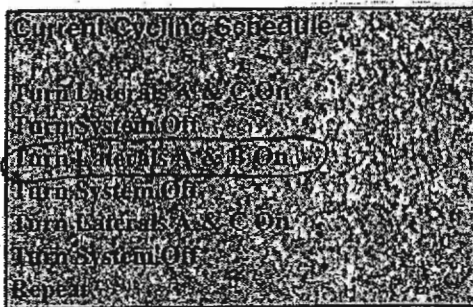
System Functional Upon Arrival? Yes

Date: 2/21/06

SYSTEM MAINTENANCE & SYSTEM REPAIRS

Time System Was Down:

BIOSPARGING COMPONENT

	Inlet Pressure	Outlet Pressure	Inlet Temp (F)	Outlet Temp (F)
Cooling Loop	5.5	5.5	150	70
Sparge Points	Flow (CFM)	Pressure (psi)	O&M Notes	
A1	3.0	4.5	 * This lateral appears to be laboring to maintain 2.5 psi.	
A2	2.0	5.5		
A3	0.5	6.0		
A4	3.25	5.5		
B-1	0.5	5.5		
B-2	5.5	6.0		
B-3	5.0	6.0		
* B-4	7.5	2.5		
B-5	4.5	2.5		
C-1	—	—		
C-2	—	—		
C-3	—	—		
C-4	—	—		
C-5	—	—		
C-6	—	—		

MW-4S GW EL (ft): 3.50

Comments B-4

Greased fittings and inspected belts - System OK.

SVE COMPONENT

VOC Screening Instrument	Model No.	Lamp (eV)	Calibrated (Y/N)	Standard Used
PhotoVOC	7020	10.6	Y	150 100
Parameters			O&M Notes	
Knockout Inlet Vacuum (In.w.c.)	Knockout Outlet Vacuum (In.w.c.)	Blower Discharge Pressure (In.w.c.)		
14	18	24		
GAC Inlet Vapor Conc. (ppm)	GAC Midstream Conc. (ppm)	GAC Outlet Vapor Conc. (ppm)		
0.0	0.0	0.0		
Lateral ID	Vacuum (In.w.c.)	VOCs in Air (ppm)		
Lateral A	10	0.0		
Lateral B	11	0.0		
Lateral C	10	0.0		

Signature

FORMER GE SITE - TANK K AREA
PHASE V OM&M FIELD FORM

TRC

Personnel: *D. G. Gailor*

System Functional Upon Arrival? *No*

Date: *4/04/06*

SYSTEM MAINTENANCE & SYSTEM REPAIRS

Time System Was Down: *2 weeks*

BIOSPARGING COMPONENT

	Inlet Pressure	Outlet Pressue	Inlet Temp (F)	Outlet Temp (F)
Cooling Loop	6.5	7.0	150	50
Sparge Points	Flow (CFM)	Presssure (psi)	O&M Notes	
A1	2.0	5.5	Current Cycling Schedule Turn lateral A & C On Turn System Off Turn lateral A & B On Turn System Off Turn lateral A & C On Turn System Off Repeat	
A2	1.0	5		
A3	1.0	6		
A4	2.0	6		
B-1	—	—		
B-2	—	—		
B-3	—	—		
B-4	—	—		
B-5	—	—		
C-1	5.0	6		
C-2	2.0	6		
C-3	4.5	5.5		
C-4	1.0	2.0		
C-5	3.0	6.0		
C-6	3.5	6.0		
MW-4S GW EL (ft): 3.36-ft				

Current Cycling Schedule
 Turn Lateral A & C On
 Turn System On
 Turn Lateral A & C On
 Turn System On
 Turn Lateral A & C On
 Turn System On
 Repeat

Comments: *Greased fittings and changed oil.*

SVE COMPONENT

VOC Screening Instrument	Model No.	Lamp (eV)	Calibrated (Y/N)	Standard Used
<i>Photovolt</i>	<i>7020</i>	<i>10.4</i>	<i>Y</i>	<i>150 100</i>
Parameters			O&M Notes	
Knockout Inlet Vacuum (In.w.c.)	Knockout Outlet Vacuum (In.w.c.)	Blower Discharge Pressure (In.w.c.)		
<i>13</i>	<i>17</i>	<i>23</i>		
GAC Inlet Vapor Conc. (ppm)	GAC Midstream Conc. (ppm)	GAC Outlet Vapor Conc. (ppm)		
<i>0.0</i>	<i>0.0</i>	<i>0.0</i>		
Lateral ID	Vaccum (In.w.c.)	VOCs in Air (ppm)		
Lateral A	<i>0</i>	<i>0.0</i>		
Lateral B	<i>0</i>	<i>0.0</i>	Signature: <i>[Signature]</i>	
Lateral C	<i>0</i>	<i>0.0</i>		

FORMER GE SITE - TANK K AREA
PHASE V OM&M FIELD FORM

TRC

Personnel: D. G. Gailor

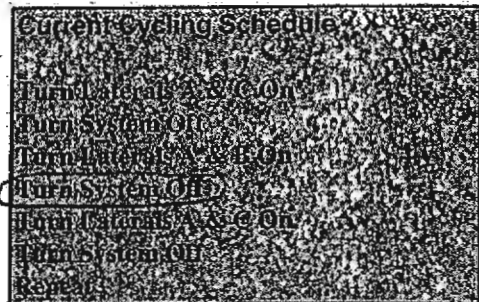
System Functional Upon Arrival?

Date: 4/17/06

SYSTEM MAINTENANCE & SYSTEM REPAIRS

Time System Was Down:

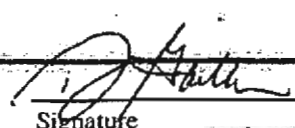
BIOSPARGING COMPONENT

	Inlet Pressure	Outlet Pressure	Inlet Temp (F)	Outlet Temp (F)
Cooling Loop	0.0	5.5	160	90
Sparge Points	Flow (CFM)	Pressure (psi)	O&M Notes	
A1	3.5	5.0	 Next cycle = A & B	
A2	1.0	5.5		
A3	1.5	0.5		
A4	3.5	0.0		
B-1	—	—		
B-2	—	—		
B-3	—	—		
B-4	—	—		
B-5	—	—		
C-1	4.0	0.5		
C-2	2.0	1.0		
C-3	2.0	0.0		
C-4	1.0	2.5		
C-5	5.0	0.0		
C-6	No Gauge	9.0		
MW-4S GW EL. (ft): 3.03				

Comments

checked oil in pump - ok
grease fittings
Turned on fan.

SVE COMPONENT

VOC Screening Instrument	Model No.	Lamp (eV)	Calibrated (Y/N)	Standard Used
Photovac	2020	10.0	Y	160 100
Parameters			O&M Notes	
Knockout Inlet Vacuum (In.w.c.)	Knockout Outlet Vacuum (In.w.c.)	Blower Discharge Pressure (In.w.c.)		
13	10	23.5		
GAC Inlet Vapor Conc. (ppm)	GAC Midstream Conc. (ppm)	GAC Outlet Vapor Conc. (ppm)		
0.1	0.0	0.0		
Lateral ID	Vacuum (In.w.c.)	VOCs in Air (ppm)		
Lateral A	10	0.0	 Signature	
Lateral B	10	0.0		
Lateral C	10	0.0		

**FORMER GE SITE - TANK K AREA
PHASE V OM&M FIELD FORM**

TRC

Personnel: *D.G. Gailor*

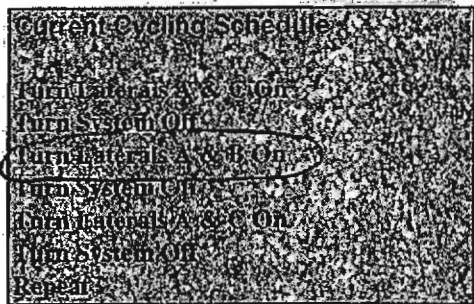
System Functional Upon Arrival?

Date: *5/2/00*

SYSTEM MAINTENANCE & SYSTEM REPAIRS

Time System Was Down: *2 wks.*

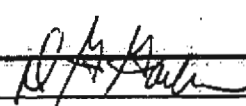
BIOSPARGING COMPONENT

	Inlet Pressure	Outlet Pressure	Inlet Temp (F)	Outlet Temp (F)
Cooling Loop	<i>0.5</i>	<i>1.0</i>	<i>155</i>	<i>50</i>
Sparge Points	Flow (CFM)	Pressure (psi)	O&M Notes	
A1	<i>3.0</i>	<i>6.0</i>		
A2	<i>1.0</i>	<i>0.5</i>		
A3	<i>0.5</i>	<i>1.0</i>		
A4	<i>3.5</i>	<i>1.0</i>		
B-1	<i>1.5</i>	<i>6.0</i>		
B-2	<i>3.5</i>	<i>5.0</i>		
B-3	<i>2.5</i>	<i>4.5</i>		
B-4	<i>1.0</i>	<i>2.0</i>		
B-5	<i>3.0</i>	<i>6.5</i>		
C-1	—	—		
C-2	—	—		
C-3	—	—		
C-4	—	—		
C-5	—	—		
C-6	—	—		
MW-4S GW El. (ft):	<i>3.36</i>	—		

Comments

*Changed oil in pump. checked Belts - OK.
Greased Fittings*

SVE COMPONENT

VOC Screening Instrument	Model No.	Lamp (eV)	Calibrated (Y/N)	Standard Used
<i>Photovac</i>	<i>2020</i>	<i>10.6</i>	<i>Y</i>	<i>150 100</i>
Parameters			O&M Notes	
Knockout Inlet Vacuum (In.w.c.)	Knockout Outlet Vacuum (In.w.c.)	Blower Discharge Pressure (In.w.c.)		
<i>13.5</i>	<i>18</i>	<i>13</i>		
GAC Inlet Vapor Conc. (ppm)	GAC Midstream Conc. (ppm)	GAC Outlet Vapor Conc. (ppm)		
<i>0.0</i>	<i>0.0</i>	<i>0.0</i>		
Lateral ID	Vacuum (In.w.c.)	VOCs in Air (ppm)		
Lateral A	<i>10</i>	<i>0.0</i>		
Lateral B	<i>10</i>	<i>0.0</i>		
Lateral C	<i>10</i>	<i>0.0</i>		

FORMER GE SITE - TANK K AREA
PHASE V OM&M FIELD FORM

TRC

Personnel: D.G. Gialor

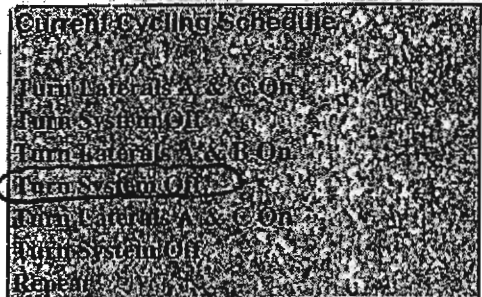
System Functional Upon Arrival? Yes

Date: 6/14/06

SYSTEM MAINTENANCE & SYSTEM REPAIRS

Time System Was Down:

BIOSPARGING COMPONENT

	Inlet Pressure	Outlet Pressure	Inlet Temp (F)	Outlet Temp (F)
Cooling Loop	7.0	7.0	170	80
Spurge Points	Flow (CFM)	Pressure (psi)	O&M Notes	
A1	3.5	5.5		
A2	3.25	6.5		
A3	1.0	7.0		
A4	4.0	7.0		
B-1	1.0	6.5		
B-2	4.0	5.0		
B-3	2.0	5.0		
B-4	7.0	2.0		
B-5	3.5	6.0		
C-1	—	—		
C-2	—	—		
C-3	—	—		
C-4	—	—		
C-5	—	—		
C-6	—	—		

MW-4S GW EL. (ft): NM

Comments: No water in pit or surrounding area.

SVE COMPONENT

VOC Screening Instrument	Model No.	Lamp (eV)	Calibrated (Y/N)	Standard Used
NA	NA	NA	NA	NA
Parameters			O&M Notes	
Knockout Inlet Vacuum (In.w.c.)	Knockout Outlet Vacuum (In.w.c.)	Blower Discharge Pressure (In.w.c.)	<u>NM = Not measured, unscheduled site visit due to long term heavy rain. No PID.</u> <u>NA = Not Applicable</u>  Signature	
13.5	18	24		
GAC Inlet Vapor Conc. (ppm)	GAC Midstream Conc. (ppm)	GAC Outlet Vapor Conc. (ppm)		
NM	NM	NM		
Lateral ID	Vacuum (In.w.c.)	VOCs in Air (ppm)		
Lateral A	10	NM		
Lateral B	10	NM		
Lateral C	10	NM		

FORMER GE SITE - TANK K AREA
PHASE V OM&M FIELD FORM

TRC

Personnel: *D. G. Mailor*

System Functional Upon Arrival?

Date: *5/23/06*

SYSTEM MAINTENANCE & SYSTEM REPAIRS

Time System Was Down: *2 weeks*

BIOSPARGING COMPONENT

	Inlet Pressure	Outlet Pressure	Inlet Temp (F)	Outlet Temp (F)
Cooling Loop	6.5	6.0	180	70
Sparge Points	Flow (CFM)	Pressure (psi)	O&M Notes	
A1	1.5	6.0	Current Cycling Schedule Turn Lateral A & C On Turn System On Turn Lateral A & C On Turn System Off Turn Lateral A & C On Turn System Off Repeat	
A2	0	6.0		
A3	0.5	6.0		
A4	3.0	6.0		
B-1	—	—		
B-2	—	—		
B-3	—	—		
B-4	—	—		
B-5	—	—		
C-1	6.0	7.0		
C-2	2.5	7.0		
C-3	4.5	6.5		
C-4	4.0	1.0		
C-5	2.5	6.5		
C-6	—	10.0		
MW-4S GW EL (ft): 2.61				

Current Cycling Schedule:
 Turn Lateral A & C On
 Turn System On
 Turn Lateral A & B On
 Turn System Off
 Turn Lateral A & C On
 Turn System On
 Repeat

Comments *Changed Pump oil
 Greased Fittings*

SVE COMPONENT

VOC Screening Instrument	Model No.	Lamp (eV)	Calibrated (Y/N)	Standard Used
<i>Photovac</i>	<i>2020</i>	<i>10.6</i>	<i>Y</i>	<i>150 100</i>
Parameters			O&M Notes	
Knockout Inlet Vacuum (In.w.c.)	Knockout Outlet Vacuum (In.w.c.)	Blower Discharge Pressure (In.w.c.)		
<i>14.0</i>	<i>16</i>	<i>23</i>		
GAC Inlet Vapor Conc. (ppm)	GAC Midstream Conc. (ppm)	GAC Outlet Vapor Conc. (ppm)		
<i>0</i>	<i>0</i>	<i>0</i>		
Lateral ID	Vaccum (In.w.c.)	VOCs in Air (ppm)		
Lateral A	<i>10</i>	<i>0</i>		
Lateral B	<i>10</i>	<i>0</i>	<i>[Signature]</i> Signature	
Lateral C	<i>10</i>	<i>0</i>		

APPENDIX D

GROUNDWATER SOURCE CONTROL AREA -
FIELD MONITORING FORMS

RECEIVED

JAN 22 2007

DEP
NORTHEAST REGIONAL OFFICE

Groundwater Remediation System OM&M Field Monitoring Form

Wilmington, Ma

Date: 10/12/05

Name:

BD + DG

GROUNDWATER PARAMETERS

Parameter	As Measured	Adjusted	Normal Range	Comments
Total GW pumped, gallons	32312*	NA	NA	
Average pumping rate, gpm			2 to 5	
Treated GW pH at discharge point	NA		6 to 8	
Pressure, psi	Bag filter inlet pressure (PG-201)	18.5	7 to 20	
	LGAC-201 inlet pressure (PG-202)	3.0	5 to 10	
	LGAC-202 inlet pressure (PG-203)	<1	5 to 10	
	Discharge pressure (PG-204)	<1	5 to 10	
	TRC-202R packer pressure	175	80 to 200	

Notes

System was "out" upon arrival!
 * Add last heading.

Check-up only - no sampling

VAPOR STREAM PARAMETERS

Parameter	As Measured	Adjusted	Normal Range	Comments
Pressure, in. w.c.	Air Stripper (PG-301)		10 to 25	
	Blower Inlet (PG-302)	20.0	15 to 30	
	VGAC-301 (PG-303)	16.0	5 to 15	
	VGAC-302 (PG-304)	6.4	3 to 10	
	VGAC-302 (PG-305)	4.2	2 to 7	
	Pitot Tube Differential (PG-306)	0.3	0.2 to 0.4	
Vapors, ppm	VGAC-301 Inlet (SP-301)	1	0 to 5	
	VGAC-302 Inlet (SP-302)	ND	<1	
	Discharge (SP-303)	ND	<1	
Temp, °F	Air dryer Inlet, (TG-301)	59	50 to 70	
	Air dryer Outlet, (TG-302)	59	40 to 70	
	VGAC-301 Inlet, (TG-303)	94	60 to 90	

Notes

Vapor monitoring performed w. ~~other~~ Flumo 580A PID.
 Calibration w. 100 ppm isobut and zero air

Groundwater Remediation System OM&M Field Monitoring Form

Wilmington, Ma

Date: 10/26/05

Name: A. V.

GROUNDWATER PARAMETERS

Parameter		As Measured	Adjusted	Normal Range	Comments
Total GW pumped, gallons		54697	NA	NA	
Average pumping rate, gpm				2 to 5	
Treated GW pH at discharge point		7.23		6 to 8	
Pressure, psi	Bag filter inlet pressure (PG-201)	19.0		7 to 20	
	LGAC-201 inlet pressure (PG-202)	3.0		5 to 10	
	LGAC-202 inlet pressure (PG-203)	1.0		5 to 10	
	Discharge pressure (PG-204)	1.0		5 to 10	
	TRC-202R packer pressure	80	200	80 to 200	

Notes

VAPOR STREAM PARAMETERS

Parameter		As Measured	Adjusted	Normal Range	Comments
Pressure, in. w.c.	Air Stripper (PG-301)	19.5		10 to 25	
	Blower Inlet (PG-302)	15.0		15 to 30	
	VGAC-301 (PG-303)	6.0		5 to 15	
	VGAC-302 (PG-304)	4.0		3 to 10	
	VGAC-302 (PG-305)	2.9		2 to 7	
	Pitot Tube Differential (PG-306)	0.28		0.2 to 0.4	
Vapors, ppm	VGAC-301 Inlet (SP-301)	3.0		0 to 5	
	VGAC-302 Inlet (SP-302)	0		<1	
	Discharge (SP-303)	0		<1	
Temp, °F	Air dryer Inlet, (TG-301)	56		50 to 70	
	Air dryer Outlet, (TG-302)	55		40 to 70	
	VGAC-301 Inlet, (TG-303)	89		60 to 90	

Notes

pH Meter: Beta pH/Temp/conduct meter.
3-point calibration w. 4, 7, and 10 buffers

Groundwater Remediation System OM&M Field Monitoring Form

Wilmington, Ma

Date: 11/8/05

Name: h o.

GROUNDWATER PARAMETERS

Parameter		As Measured	Adjusted	Normal Range	Comments
Total GW pumped, gallons		93/57	NA	NA	
Average pumping rate, gpm				2 to 5	
Treated GW pH at discharge point		NA		6 to 8	
Pressure, psi	Bag filter inlet pressure (PG-201)	19		7 to 20	
	LGAC-201 inlet pressure (PG-202)	3		5 to 10	
	LGAC-202 inlet pressure (PG-203)	1		5 to 10	
	Discharge pressure (PG-204)	1		5 to 10	
	TRC-202R packer pressure	200psi		80 to 200	

Notes

System "ON" upon arrival.
 Check only - no sampling.
 Packer inflated to 200psi.

VAPOR STREAM PARAMETERS

Parameter		As Measured	Adjusted	Normal Range	Comments
Pressure, in. w.c.	Air Stripper (PG-301)	19		10 to 25	
	Blower Inlet (PG-302)	15		15 to 30	
	VGAC-301 (PG-303)	7		5 to 15	
	VGAC-302 (PG-304)	5		3 to 10	
	VGAC-302 (PG-305)	2.8		2 to 7	
	Pitot Tube Differential (PG-306)	0.28		0.2 to 0.4	
Vapors, ppm	VGAC-301 Inlet (SP-301)	2		0 to 5	
	VGAC-302 Inlet (SP-302)	NO		<1	
	Discharge (SP-303)	NO		<1	
Temp, °F	Air dryer Inlet, (TG-301)	62		50 to 70	
	Air dryer Outlet, (TG-302)	61		40 to 70	
	VGAC-301 Inlet, (TG-303)	93		60 to 90	

Notes

P10-580H Thermo, calibrated
 with 100ppm isobut + zero air.

**FORMER GE SITE - GROUNDWATER SOURCE CONTROL AREA
PHASE V OM&M FIELD FORM**

TRC

Personnel: D. G. Gaylor

System Functional Upon Arrival? yes

Date: 1/09/06

SYSTEM MAINTENANCE & SYSTEM REPAIRS

Time System Was Down:

GROUNDWATER MONITORING

Parameter	As Measured	Adjusted	Normal Range	Comments
Total GW pumped (gallons)	222870	NA	NA	
Average pumping rate (gpm)	1.86		2 to 5	
Pump Speed Setting	—		NA	
Treated GW pH at discharge point	7.20		6 to 8	
Pressure, psi	Bag filter inlet pressure (PG-201)	17	7 to 20	
	LGAC-201 inlet pressure (PG-202)	0.5	5 to 10	
	LGAC-202 inlet pressure (PG-203)	0	5 to 10	
	Discharge pressure (PG-204)	0	5 to 10	
	TRC-202R packer pressure	155	80 to 200	

NPDES Samples Collected (Y/N): No

Notes: pH Meter: Orion 250 calibrated w/ (3) standard buffers

VAPOR STREAM MONITORING

VOC Screening Instrument	Model #	Lamp (eV)	Calibrated (Y/N)	Calibration Standard
<u>FE Photovac</u>	<u>2020</u>	<u>10.6</u>	<u>Yes</u>	<u>150 100</u>
Parameter	As Measured	Adjusted	Normal Range	Comments
Pressure, in. w.c.	Air Stripper (PG-301)	19	10 to 25	
	Blower Inlet (PG-302)	23	15 to 30	
	VGAC-301 (PG-303)	7.4	5 to 15	
	VGAC-302 (PG-304)	4.5	3 to 10	
	VGAC-302 (PG-305)		2 to 7	
	Pitot Tube Differential (PG-306)	0.74	0.2 to 0.4	
Vapors (ppm)	VGAC-301 Inlet (SP-301)	2.4	0 to 5	
	VGAC-302 Inlet (SP-302)	0.3	<1	
	Discharge (SP-303)	0.0	<1	
Temp (°F)	Air dryer Inlet, (TG-301)	51	50 to 70	
	Air dryer Outlet, (TG-302)	50	40 to 70	
	VGAC-301 Inlet, (TG-303)	88	60 to 90	

Notes

See Page 2 for Parameter Details

[Signature]
Signature

FORMER GE SITE - GROUNDWATER SOURCE CONTROL AREA
PHASE V OM&M FIELD FORM

TRC

Personnel: D.G. Gailor

System Functional Upon Arrival? Yes

Date: 1/25/06

SYSTEM MAINTENANCE & SYSTEM REPAIRS

shut down system to change-out bag filter and clean-out flow meter - OK. system allowed (2) cycles prior to sampling.

Time System Was Down: 30 min.

GROUNDWATER MONITORING

pH Meter		Model #	Calibrated	Cal. Stand.(pH)	Cal. Check Reading
N/A			Yes / No		
Parameter		As Measured	Adjusted	Normal Range	Comments
Total GW pumped (gallons)		255168	NA	NA	
Average pumping rate (gpm)		1.97		2 to 5	
Pump Speed Setting Adjusted		—	NA	NA	
Treated GW pH at discharge point		@ Lab.	—	6 to 8	
Pressure, psi	Bag filter inlet pressure (PG-201)	20	1.1	7 to 20	changed out
	LGAC-201 inlet pressure (PG-202)	5.2		5 to 10	
	LGAC-202 inlet pressure (PG-203)	1		5 to 10	
	Discharge pressure (PG-204)	1		5 to 10	
	TRC-202R packer pressure	110	200	80 to 200	nitrogen charged

NPDES Samples Collected (Y/N): Y

Notes *Fit to be performed @ lab on TSS sample.*

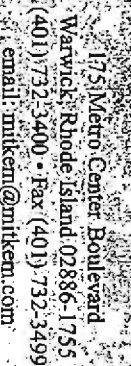
VAPOR STREAM MONITORING

VOC Screening Instrument		Model #	Lamp (eV)	Calibrated (Y/N)	Calibration Standard
PhotoVoc		2020	10.6	Y	ISO 100
Parameter		As Measured	Adjusted	Normal Range	Comments
Pressure, in. w.c.	Air Stripper (PG-301)	18		10 to 25	
	Blower Inlet (PG-302)	22		15 to 30	
	VGAC-301 (PG-303)	8		5 to 15	
	VGAC-302 (PG-304)	6.0		3 to 10	
	VGAC-302 (PG-305)	—		2 to 7	
	Pitot Tube Differential (PG-306)	.29		0.2 to 0.4	
Vapors (ppm)	VGAC-301 Inlet (SP-301)	1.5/1.2		0 to 5	Re-screened.
	VGAC-302 Inlet (SP-302)	0.0		<1	
	Discharge (SP-303)	0.0		<1	
Temp (°F)	Air dryer Inlet, (TG-301)	50°F		50 to 70	
	Air dryer Outlet, (TG-302)	52°F		40 to 70	
	VGAC-301 Inlet, (TG-303)	86°F		60 to 90	

Notes

See Page 2 for Parameter Details

Daniel Gailor
 Signature



Page 1 of 1

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**FORMER GE SITE - GROUNDWATER SOURCE CONTROL AREA
PHASE V OM&M FIELD FORM**

TRC

Personnel: *D. G. Gailor*

System Functional Upon Arrival? *Yes*

Date: *2/01/06*

SYSTEM MAINTENANCE & SYSTEM REPAIRS

Time System Was Down: *15 min.*

GROUNDWATER MONITORING

pH Meter	Model #	Calibrated	Cal. Stand.(pH)	Cal. Check Reading
NA		Yes / No		
Parameter	As Measured	Adjusted	Normal Range	Comments
Total GW pumped (gallons)	<i>283337</i>	NA	NA	
Average pumping rate (gpm)	<i>1.82</i>	<i>2.18</i>	2 to 5	
Pump Speed Setting Adjusted	<i>2.18</i>	NA	NA	
Treated GW pH at discharge point	NA		6 to 8	<i>Monthly @ Lab.</i>
Pressure, psi	Bag filter inlet pressure (PG-201)	<i>18</i>	7 to 20	
	LGAC-201 inlet pressure (PG-202)	<i>5</i>	5 to 10	
	LGAC-202 inlet pressure (PG-203)	<i>0</i>	5 to 10	
	Discharge pressure (PG-204)	<i>0</i>	5 to 10	
	TRC-202R packer pressure	<i>100</i>	80 to 200	

NPDES Samples Collected (Y/N): *No*

Notes

Inspect and clean flow meter following adjustment of pump rate.

VAPOR STREAM MONITORING

VOC Screening Instrument	Model #	Lamp (eV)	Calibrated (Y/N)	Calibration Standard
<i>Photovac</i>	<i>2020</i>	<i>10.6</i>	<i>Y</i>	<i>150100</i>
Parameter	As Measured	Adjusted	Normal Range	Comments
Pressure, in.w.c.	Air Stripper (PG-301)	<i>16</i>	10 to 25	
	Blower Inlet (PG-302)	<i>22</i>	15 to 30	
	VGAC-301 (PG-303)	<i>8</i>	5 to 15	
	VGAC-302 (PG-304)	<i>4.8</i>	3 to 10	
	VGAC-302 (PG-305)	<i>-</i>	2 to 7	<i>Eliminated</i>
	Pitot Tube Differential (PG-306)	<i>.74</i>	0.2 to 0.4	
Vapors (ppm)	VGAC-301 Inlet (SP-301)	<i>0.0</i>	0 to 5	
	VGAC-302 Inlet (SP-302)	<i>0.0</i>	<1	
	Discharge (SP-303)	<i>0.0</i>	<1	
Temp (F)	Air dryer Inlet, (TG-301)	<i>62</i>	50 to 70	
	Air dryer Outlet, (TG-302)	<i>32</i>	40 to 70	
	VGAC-301 Inlet, (TG-303)	<i>80</i>	60 to 90	

Notes

*Boris Dinkin on-site for month of Feb. (quarterly inspection)
Greg Mischel on-site.*

[Signature]

Signature

See Page 2 for Parameter Details

FORMER GE SITE - GROUNDWATER SOURCE CONTROL AREA
PHASE V OM&M FIELD FORM

TRC

Personnel: *D.G. Hailor*

System Functional Upon Arrival? *No*

Date: *2/21/08*

SYSTEM MAINTENANCE & SYSTEM REPAIRS

system down upon arrival (groundwater and vapor). Re-set vapor system removed and cleaned flow meter. Reset groundwater system. Both systems functioning properly. Run 20 min. prior to sampling

Time System Was Down: *?*

GROUNDWATER MONITORING

Parameter	As Measured	Adjusted	Normal Range	Comments
Total GW pumped (gallons)	<i>118173</i>	NA	NA	
Average pumping rate (gpm)	<i>2.24</i>	<i>2.81</i>	2 to 5	
Pump Speed Setting	<i>9900 2.24</i>	<i>10,700</i>	NA	<i>max.</i>
Treated GW pH at discharge point	<i>0</i>		6 to 8	
Pressure, psi	Bag filter inlet pressure (PG-201)	<i>18</i>	7 to 20	
	LGAC-201 inlet pressure (PG-202)	<i>0.2</i>	5 to 10	
	LGAC-202 inlet pressure (PG-203)	<i>0</i>	5 to 10	
	Discharge pressure (PG-204)	<i>0</i>	5 to 10	
	TRC-202R packer pressure	<i>115</i>	<i>200</i>	80 to 200

NPDES Samples Collected (Y/N): *Y*

Notes *GW Pump rate raised to maximum 10,700 rpm. Rate ranges between 2.81 - 2.92 gpm.*

VAPOR STREAM MONITORING

VOC Screening Instrument	Model #	Lamp (eV)	Calibrated (Y/N)	Calibration Standard
<i>Photovac 2020</i>	<i>2020</i>	<i>10.4</i>	<i>Y</i>	<i>100 100</i>
Parameter	As Measured	Adjusted	Normal Range	Comments
Pressure, in. w.c.	Air Stripper (PG-301)	<i>16</i>	10 to 25	
	Blower Inlet (PG-302)	<i>26</i>	15 to 30	
	VGAC-301 (PG-303)	<i>1.8</i>	5 to 15	
	VGAC-302 (PG-304)	<i>4.6</i>	3 to 10	
	VGAC-302 (PG-305)	<i>—</i>	2 to 7	
	Pitot Tube Differential (PG-306)	<i>.75</i>	0.2 to 0.4	
Vapors (ppm)	VGAC-301 Inlet (SP-301)	<i>0.0</i>	0 to 5	
	VGAC-302 Inlet (SP-302)	<i>0.0</i>	<1	
	Discharge (SP-303)	<i>0.0</i>	<1	
Temp (F)	Air dryer Inlet, (TG-301)	<i>60</i>	50 to 70	
	Air dryer Outlet, (TG-302)	<i>49</i>	40 to 70	
	VGAC-301 Inlet, (TG-303)	<i>82</i>	60 to 90	

Notes

See Page 2 for Parameter Details

D.G. Hailor
Signature

**FORMER GE SITE - GROUNDWATER SOURCE CONTROL AREA
PHASE V OM&M FIELD FORM**

TRC

Personnel: *D.G. Gailor*

System Functional Upon Arrival? *No*

Date: *3/8/06*
4/8/06

SYSTEM MAINTENANCE & SYSTEM REPAIRS

Boris Dyunkin, PE to assist TRC in troubleshooting system on Friday 3/10/06 @ 9:30am. System shut-down until that time. DGG

Time System Was Down: *7*

GROUNDWATER MONITORING

Parameter	As Measured	Adjusted	Normal Range	Comments
Total GW pumped (gallons)	<i>200040</i>	NA	NA	
Average pumping rate (gpm)	<i>4.65</i>		2 to 5	<i>@ start then 0.00</i>
Pump Speed Setting	<i>10,100 RPM</i>	<i>9,200</i>	NA	
Treated GW pH at discharge point			6 to 8	
Pressure, psi	Bag filter inlet pressure (PG-201)		7 to 20	
	LGAC-201 inlet pressure (PG-202)		5 to 10	
	LGAC-202 inlet pressure (PG-203)		5 to 10	
	Discharge pressure (PG-204)		5 to 10	
	TRC-202R packer pressure	<i>150</i>	80 to 200	

NPDES Samples Collected (Y/N):

Notes

System started after communication system installed (auto-dialer) check & clean flow meter and reset system - grounds "green" light flashing. Pump will not start. System down

VAPOR STREAM MONITORING

VOC Screening Instrument	Model #	Lamp (eV)	Calibrated (Y/N)	Calibration Standard
<i>Photovac</i>	<i>2020</i>	<i>10.4</i>	<i>Y</i>	<i>100 100</i>
Parameter	As Measured	Adjusted	Normal Range	Comments
Pressure, in.w.c.	Air Stripper (PG-301)	<i>15</i>	10 to 25	
	Blower Inlet (PG-302)	<i>20.5</i>	15 to 30	
	VGAC-301 (PG-303)	<i>90</i>	5 to 15	
	VGAC-302 (PG-304)	<i>6</i>	3 to 10	
	VGAC-302 (PG-305)	<i>—</i>	2 to 7	
	Pitot Tube Differential (PG-306)	<i>.44</i>	0.2 to 0.4	
Vapors (ppm)	VGAC-301 Inlet (SP-301)	<i>0.0</i>	0 to 5	
	VGAC-302 Inlet (SP-302)	<i>0.0</i>	<1	
	Discharge (SP-303)	<i>0.0</i>	<1	
Temp (F)	Air dryer Inlet, (TG-301)	<i>52</i>	50 to 70	
	Air dryer Outlet, (TG-302)	<i>58</i>	40 to 70	
	VGAC-301 Inlet, (TG-303)	<i>88</i>	60 to 90	

Notes

See Page 2 for Parameter Details

D. Gailor
Signature

FORMER GE SITE - GROUNDWATER SOURCE CONTROL AREA
PHASE V OM&M FIELD FORM

TRC

Personnel: *D.G. Gailor*

System Functional Upon Arrival? *yes*

Date: *3/21/06*

SYSTEM MAINTENANCE & SYSTEM REPAIRS

*System running smoothly - Approx. 10 min. cycles
Did not shut down system for flow meter cleaning as system
meter are functioning properly.*

Time System Was Down:

GROUNDWATER MONITORING

Parameter	As Measured	Adjusted	Normal Range	Comments
Total GW pumped (gallons)	<i>39948.1</i>	NA	NA	
Average pumping rate (gpm)	<i>2.23</i>		2 to 5	<i>steady @ 2.23</i>
Pump Speed Setting	<i>1,200 RPM</i>	NO	NA	<i>in "min" mode</i>
Treated GW pH at discharge point	<i>At Lab.</i>		6 to 8	
Pressure, psi	Bag filter inlet pressure (PG-201)	<i>17 psi</i>	7 to 20	
	LGAC-201 inlet pressure (PG-202)	<i>4.5</i>	5 to 10	
	LGAC-202 inlet pressure (PG-203)	<i>0</i>	5 to 10	
	Discharge pressure (PG-204)	<i>0</i>	5 to 10	
	TRC-202R packer pressure	<i>105</i>	<i>100</i>	80 to 200

NPDES Samples Collected (Y/N): *Y*

Notes *Water is infiltrating TRC-202R vault @ bottom of
northeast corner. Approx. 2" deep.*

VAPOR STREAM MONITORING

VOC Screening Instrument	Model #	Lamp (eV)	Calibrated (Y/N)	Calibration Standard
<i>Photovac</i>	<i>1020</i>	<i>10.4</i>	<i>Y</i>	<i>100 100</i>
Parameter	As Measured	Adjusted	Normal Range	Comments
Pressure, in. w.c.	Air Stripper (PG-301)	<i>18</i>	10 to 25	
	Blower Inlet (PG-302)	<i>23</i>	15 to 30	
	VGAC-301 (PG-303)	<i>8</i>	5 to 15	
	VGAC-302 (PG-304)	<i>4.8</i>	3 to 10	
	VGAC-302 (PG-305)	<i>---</i>	2 to 7	
	Pitot Tube Differential (PG-306)	<i>.300</i>	0.2 to 0.4	
Vapors (ppm)	VGAC-301 Inlet (SP-301)	<i>0.0</i>	0 to 5	
	VGAC-302 Inlet (SP-302)	<i>0.0</i>	<1	
	Discharge (SP-303)	<i>0.0</i>	<1	
Temp (F)	Air dryer Inlet, (TG-301)	<i>51</i>	50 to 70	
	Air dryer Outlet, (TG-302)	<i>51</i>	40 to 70	
	VGAC-301 Inlet, (TG-303)	<i>80</i>	60 to 90	

Notes

See Page 2 for Parameter Details

D. Gailor
Signature

**FORMER GE SITE - GROUNDWATER SOURCE CONTROL AREA
PHASE V OM&M FIELD FORM**

TRC

Personnel: *D.G. Grallor*

System Functional Upon Arrival? **NO**

Date: *4/04/06*

SYSTEM MAINTENANCE & SYSTEM REPAIRS

*Removed and cleaned Flow Meter
- Reset switches and system started.*

Time System Was Down: *?*

GROUNDWATER MONITORING

Parameter	As Measured	Adjusted	Normal Range	Comments
Total GW pumped (gallons)	<i>439908</i>	NA	NA	
Average pumping rate (gpm)	<i>2.58</i>	—	2 to 5	
Pump Speed Setting	<i>1100 RPM</i>	<i>from 1,000</i>	NA	
Treated GW pH at discharge point	—	—	6 to 8	
Pressure, psi	Bag filter inlet pressure (PG-201)	<i>17</i>	7 to 20	
	LGAC-201 inlet pressure (PG-202)	<i>4.5</i>	5 to 10	
	LGAC-202 inlet pressure (PG-203)	<i>0</i>	5 to 10	
	Discharge pressure (PG-204)	<i>0</i>	5 to 10	
	TRC-202R packer pressure	<i>110 lbs.</i>	<i>200 psi.</i>	80 to 200

NPDES Samples Collected (Y/N): **No**

Notes

*Groundwater elevation @ TRC-202R = 2.0' from top of well
could only advance probe to 8ft.*

VAPOR STREAM MONITORING

VOC Screening Instrument	Model #	Lamp (eV)	Calibrated (Y/N)	Calibration Standard
<i>Photovac</i>	<i>2020</i>	<i>10.6</i>	<i>Y</i>	<i>150 100</i>
Parameter	As Measured	Adjusted	Normal Range	Comments
Pressure, in. w.c.	Air Stripper (PG-301)	<i>18</i>	10 to 25	
	Blower Inlet (PG-302)	<i>22.5</i>	15 to 30	
	VGAC-301 (PG-303)	<i>7.0</i>	5 to 15	
	VGAC-302 (PG-304)	<i>4.6</i>	3 to 10	
	VGAC-302 (PG-305)	—	2 to 7	
	Pitot Tube Differential (PG-306)	<i>0.18</i>	0.2 to 0.4	<i>?</i>
Vapors (ppm)	VGAC-301 Inlet (SP-301)	<i>0</i>	0 to 5	
	VGAC-302 Inlet (SP-302)	<i>0</i>	<1	
	Discharge (SP-303)	<i>0</i>	<1	
Temp (F)	Air dryer Inlet, (TG-301)	<i>62</i>	50 to 70	
	Air dryer Outlet, (TG-302)	<i>52</i>	40 to 70	
	VGAC-301 Inlet, (TG-303)	<i>89</i>	60 to 90	

Notes

System shut down - pump not functioning - low level water alarm.

See Page 2 for Parameter Details

[Signature]
Signature

**FORMER GE SITE - GROUNDWATER SOURCE CONTROL AREA
PHASE V OM&M FIELD FORM**

TRC

Personnel: *D.G. Gailor*

System Functional Upon Arrival?

Date: *4/14/06*

SYSTEM MAINTENANCE & SYSTEM REPAIRS

Time System Was Down:

GROUNDWATER MONITORING

Parameter	As Measured	Adjusted	Normal Range	Comments
Total GW pumped (gallons)	<i>406942</i>	NA	NA	
Average pumping rate (gpm)	<i>1.93</i>		2 to 5	
Pump Speed Setting	<i>1200rpm</i>	—	NA	
Treated GW pH at discharge point	<i>6.8</i>		6 to 8	
Pressure, psi	Bag filter inlet pressure (PG-201)	<i>17psi</i>	7 to 20	
	LGAC-201 inlet pressure (PG-202)	<i>4.2</i>	5 to 10	
	LGAC-202 inlet pressure (PG-203)	<i>0</i>	5 to 10	
	Discharge pressure (PG-204)	<i>0</i>	5 to 10	
	TRC-202R packer pressure	<i>140</i>	80 to 200	

NPDES Samples Collected (Y/N): *Y*

Notes *New Grundfos pump monitoring panel and sump Hi-level switch were installed by IES on 4/14/06. System OK.*

VAPOR STREAM MONITORING

VOC Screening Instrument	Model #	Lamp (eV)	Calibrated (Y/N)	Calibration Standard
<i>Photovac</i>	<i>2020</i>	<i>10.6</i>	<i>Y</i>	<i>150 100</i>
Parameter	As Measured	Adjusted	Normal Range	Comments
Pressure, in. w.c.	Air Stripper (PG-301)	<i>18</i>	10 to 25	
	Blower Inlet (PG-302)	<i>22.8</i>	15 to 30	
	VGAC-301 (PG-303)	<i>1.8</i>	5 to 15	
	VGAC-302 (PG-304)	<i>4.6</i>	3 to 10	
	VGAC-302 (PG-305)	—	2 to 7	
	Pitot Tube Differential (PG-306)	<i>0.34</i>	0.2 to 0.4	
Vapors (ppm)	VGAC-301 Inlet (SP-301)	<i>0.2</i>	0 to 5	
	VGAC-302 Inlet (SP-302)	<i>0.0</i>	<1	
	Discharge (SP-303)	<i>0.0</i>	<1	
Temp (F)	Air dryer Inlet, (TG-301)	<i>54</i>	50 to 70	
	Air dryer Outlet, (TG-302)	<i>54</i>	40 to 70	
	VGAC-301 Inlet, (TG-303)	<i>92</i>	60 to 90	

Notes

**FORMER GE SITE - GROUNDWATER SOURCE CONTROL AREA
PHASE V OM&M FIELD FORM**

TRC

Personnel: D. G. Gailor

System Functional Upon Arrival? Yes

Date: 9/20/04

SYSTEM MAINTENANCE & SYSTEM REPAIRS

Time System Was Down:

GROUNDWATER MONITORING

Parameter	As Measured	Adjusted	Normal Range	Comments
Total GW pumped (gallons)	<u>498144</u>	NA	NA	
Average pumping rate (gpm)	<u>2.17</u>	—	2 to 5	
Pump Speed Setting	<u>1,000 rpm</u>	<u>min. mode</u>	NA	<u>OK</u>
Treated GW pH at discharge point	—	—	6 to 8	
Pressure, psi	Bag filter inlet pressure (PG-201)	<u>17</u>	7 to 20	
	LGAC-201 inlet pressure (PG-202)	<u>6.1</u>	5 to 10	
	LGAC-202 inlet pressure (PG-203)	<u>0</u>	5 to 10	
	Discharge pressure (PG-204)	<u>0</u>	5 to 10	
	TRC-202R packer pressure	<u>140</u>	80 to 200	

NPDES Samples Collected (Y/N): No

Notes

VAPOR STREAM MONITORING

VOC Screening Instrument	Model #	Lamp (eV)	Calibrated (Y/N)	Calibration Standard
<u>Photovac</u>	<u>2020</u>	<u>10.6</u>	<u>Y</u>	<u>150 100</u>
Parameter	As Measured	Adjusted	Normal Range	Comments
Pressure, in. w.c.	Air Stripper (PG-301)	<u>19</u>	10 to 25	
	Blower Inlet (PG-302)	<u>23</u>	15 to 30	
	VGAC-301 (PG-303)	<u>1.8</u>	5 to 15	
	VGAC-302 (PG-304)	<u>4.0</u>	3 to 10	
	VGAC-302 (PG-305)	—	2 to 7	
	Pitot Tube Differential (PG-306)	<u>0.30</u>	0.2 to 0.4	
Vapors (ppm)	VGAC-301 Inlet (SP-301)	<u>0.0</u>	0 to 5	
	VGAC-302 Inlet (SP-302)	<u>0.0</u>	<1	
	Discharge (SP-303)	<u>0.0</u>	<1	
Temp (F)	Air dryer Inlet, (TG-301)	<u>55</u>	50 to 70	
	Air dryer Outlet, (TG-302)	<u>55</u>	40 to 70	
	VGAC-301 Inlet, (TG-303)	<u>89</u>	60 to 90	

Notes

See Page 2 for Parameter Details


Signature

FORMER GE SITE - GROUNDWATER SOURCE CONTROL AREA
PHASE V OM&M FIELD FORM

TRC

Personnel: *D. G. Gailor*

System Functional Upon Arrival? *Yes*

Date: *10/20/06*

SYSTEM MAINTENANCE & SYSTEM REPAIRS

Time System Was Down: *60 min.*

GROUNDWATER MONITORING

Parameter	As Measured	Adjusted	Normal Range	Comments
Total GW pumped (gallons)		NA	NA	
Average pumping rate (gpm)	<i>2.25</i>	<i>0.97-1.15</i>	2 to 5	
Pump Speed Setting			NA	
Treated GW pH at discharge point			6 to 8	
Pressure, psi	Bag filter inlet pressure (PG-201)		7 to 20	
	LGAC-201 inlet pressure (PG-202)		5 to 10	
	LGAC-202 inlet pressure (PG-203)		5 to 10	
	Discharge pressure (PG-204)		5 to 10	
	TRC-202R packer pressure	<i>80 psi</i>	<i>200 psi</i>	<i>80 to 200</i> Recharged w/ Nitrogen

NPDES Samples Collected (Y/N): *N*

Notes *Quaged $\pm$ elevation in pump well (vault) 64.75 ft.*
Reduce pump rate to 0.97-1.15 gpm and stand by 60 min. for stabilization
 $\pm$ measured at 62.00 ft. 1 hour after pump adjustment.

VAPOR STREAM MONITORING

VOC Screening Instrument	Model #	Lamp (eV)	Calibrated (Y/N)	Calibration Standard
Parameter	As Measured	Adjusted	Normal Range	Comments
Pressure, in.w.c.	Air Stripper (PG-301)		10 to 25	
	Blower Inlet (PG-302)		15 to 30	
	VGAC-301 (PG-303)		5 to 15	
	VGAC-302 (PG-304)		3 to 10	
	VGAC-302 (PG-305)		2 to 7	
	Pitot Tube Differential (PG-306)		0.2 to 0.4	
Vapors (ppm)	VGAC-301 Inlet (SP-301)		0 to 5	
	VGAC-302 Inlet (SP-302)		<1	
	Discharge (SP-303)		<1	
Temp (F)	Air dryer Inlet, (TG-301)		50 to 70	
	Air dryer Outlet, (TG-302)		40 to 70	
	VGAC-301 Inlet, (TG-303)		60 to 90	

Notes

See Page 2 for Parameter Details

[Signature]
Signature

**FORMER GE SITE - GROUNDWATER SOURCE CONTROL AREA
PHASE V OM&M FIELD FORM**

TRC

Personnel: D.G. Gailor

System Functional Upon Arrival? No

Date: 9/14/06

SYSTEM MAINTENANCE & SYSTEM REPAIRS

Upon arrival, sump full and system off (High level sump) light is illuminated. Floor of bldg. wet. Pump out sump and shut off main power to system @ elec. panel. Sump filled w/ rain water.

Time System Was Down:

GROUNDWATER MONITORING

Parameter	As Measured	Adjusted	Normal Range	Comments
Total GW pumped (gallons)	<u>92406</u>	NA	NA	
Average pumping rate (gpm)			2 to 5	
Pump Speed Setting			NA	
Treated GW pH at discharge point			6 to 8	
Pressure, psi	Bag filter inlet pressure (PG-201)		7 to 20	
	LGAC-201 inlet pressure (PG-202)		5 to 10	
	LGAC-202 inlet pressure (PG-203)		5 to 10	
	Discharge pressure (PG-204)		5 to 10	
	TRC-202R packer pressure		80 to 200	

NPDES Samples Collected (Y/N): N

Notes:

VAPOR STREAM MONITORING

VOC Screening Instrument	Model #	Lamp (eV)	Calibrated (Y/N)	Calibration Standard
Parameter	As Measured	Adjusted	Normal Range	Comments
Pressure, in.w.c.	Air Stripper (PG-301)		10 to 25	
	Blower Inlet (PG-302)		15 to 30	
	VGAC-301 (PG-303)		5 to 15	
	VGAC-302 (PG-304)		3 to 10	
	VGAC-302 (PG-305)		2 to 7	
	Pitot Tube Differential (PG-306)		0.2 to 0.4	
Vapors (ppm)	VGAC-301 Inlet (SP-301)		0 to 5	
	VGAC-302 Inlet (SP-302)		<1	
	Discharge (SP-303)		<1	
Temp (F)	Air dryer Inlet, (TG-301)		50 to 70	
	Air dryer Outlet, (TG-302)		40 to 70	
	VGAC-301 Inlet, (TG-303)		60 to 90	

Notes:

See Page 2 for Parameter Details

Signature: [Signature]

FORMER GE SITE - GROUNDWATER SOURCE CONTROL AREA
PHASE V OM&M FIELD FORM

TRC

Personnel: *D. Gailor*

System Functional Upon Arrival? *No*

Date: *5/24/06*

SYSTEM MAINTENANCE & SYSTEM REPAIRS

Time System Was Down:

GROUNDWATER MONITORING

Parameter	As Measured	Adjusted	Normal Range	Comments
Total GW pumped (gallons)	<i>524506</i>	NA	NA	
Average pumping rate (gpm)			2 to 5	
Pump Speed Setting	<i>7,000 rpm (min)</i>		NA	
Treated GW pH at discharge point			6 to 8	
Pressure, psi	Bag filter inlet pressure (PG-201)		7 to 20	
	LGAC-201 inlet pressure (PG-202)		5 to 10	
	LGAC-202 inlet pressure (PG-203)		5 to 10	
	Discharge pressure (PG-204)		5 to 10	
	TRC-202R packer pressure	<i>90 lbs.</i>	<i>200 psi</i>	80 to 200

NPDES Samples Collected (Y/N): *N*

Notes *Power up system and "Well Pump Low Level Alarm" indicator light is illuminated. Attempt adjustments and trouble shooting however, pump does not start.*

VAPOR STREAM MONITORING

VOC Screening Instrument	Model #	Lamp (eV)	Calibrated (Y/N)	Calibration Standard
Parameter	As Measured	Adjusted	Normal Range	Comments
Pressure, in.w.c.	Air Stripper (PG-301)		10 to 25	
	Blower Inlet (PG-302)		15 to 30	
	VGAC-301 (PG-303)		5 to 15	
	VGAC-302 (PG-304)		3 to 10	
	VGAC-302 (PG-305)		2 to 7	
	Pitot Tube Differential (PG-306)		0.2 to 0.4	
Vapors (ppm)	VGAC-301 Inlet (SP-301)		0 to 5	
	VGAC-302 Inlet (SP-302)		<1	
	Discharge (SP-303)		<1	
Temp (F)	Air dryer Inlet, (TG-301)		50 to 70	
	Air dryer Outlet, (TG-302)		40 to 70	
	VGAC-301 Inlet, (TG-303)		60 to 90	

Notes *Vapor stream not screened as GW system is not operational.*

[Signature]
 Signature

FORMER GE SITE - GROUNDWATER SOURCE CONTROL AREA
PHASE V OM&M FIELD FORM

TRC

Personnel: D. G. Hailor / Boris Dynkin

System Functional Upon Arrival? No

Date: 6/31/06

SYSTEM MAINTENANCE & SYSTEM REPAIRS

Removed pressure gauge @ inlet (before flow meter) defective and needs to be replaced. Valve closed.

Time System Was Down: 2 weeks

GROUNDWATER MONITORING

Parameter	As Measured	Adjusted	Normal Range	Comments
Total GW pumped (gallons)	524,000	NA	NA	
Average pumping rate (gpm)	1.22	2.24	2 to 5	
Pump Speed Setting	7,000 rpm	8,000 rpm	NA	
Treated GW pH at discharge point	—		6 to 8	
Pressure, psi	Bag filter inlet pressure (PG-201)	18	7 to 20	
	LGAC-201 inlet pressure (PG-202)	6.0	5 to 10	
	LGAC-202 inlet pressure (PG-203)	0.0	5 to 10	
	Discharge pressure (PG-204)	0.0	5 to 10	
	TRC-202R packer pressure	700 psi	80 to 200	

NPDES Samples Collected (Y/N): Yes

Notes: Pulled pump from 202-R. Found severed wire. Repaired wire and replaced pump into well. Adjusted pump rate and gauged level

VAPOR STREAM MONITORING

VOC Screening Instrument	Model #	Lamp (eV)	Calibrated (Y/N)	Calibration Standard
N/A				
Parameter	As Measured	Adjusted	Normal Range	Comments
Pressure, in. w.c.	Air Stripper (PG-301)	10	10 to 25	
	Blower Inlet (PG-302)	20	15 to 30	
	VGAC-301 (PG-303)	7.4	5 to 15	
	VGAC-302 (PG-304)	4.2	3 to 10	
	VGAC-302 (PG-305)	0.000	2 to 7	
	Pitot Tube Differential (PG-306)	0.32	0.2 to 0.4	
Vapors (ppm)	VGAC-301 Inlet (SP-301)	—	0 to 5	} Not screened
	VGAC-302 Inlet (SP-302)	—	<1	
	Discharge (SP-303)	—	<1	
Temp (F)	Air dryer Inlet, (TG-301)	60	50 to 70	
	Air dryer Outlet, (TG-302)	60	40 to 70	
	VGAC-301 Inlet, (TG-303)	98	60 to 90	

Notes: Check pump down/recovery rate w/ Pump @ 8,000 rpm 2.24 gpm

2.24 ft = 1.08 min. Level @ 42.8 ft. * Stabilized @ 43.20 ft @ 2:00

Gauge $\pm$ elev. in 202-R @

See Page 2 for Parameter Details

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