DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No ) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

# Environmental Monitoring Reporting Form

**Notice:** This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

## Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

## Solid Waste Monitoring Data Submittal Information

**Name of entity submitting data (laboratory, consultant, facility owner):**

Engineering & Environmental Science Company

**Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:**

Name: T. Patrick Shillington, PE Phone: (919)781-7798

E-mail: e2s@bellsouth.net

| Facility name: | Facility Address: | Facility Permit # | NC Landfill Rule: (.0500 or .1600) | Actual sampling dates (e.g., October 20-24, 2006) |
|---|---|---|---|---|
| Chatham County MSW Landfill | 811 County Landfill Rd. | 19-01 | | May 23, 2012 |

**Environmental Status: (Check all that apply)**

☐ Initial/Background Monitoring ☒ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

**Type of data submitted: (Check all that apply)**

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify) _____

**Notification attached?**

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

## Certification

**To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.**

T. Patrick Shillington, PE — President — (919)781-7798

Facility Representative Name (Print) — Title — (Area Code) Telephone Number

T. Patrick Shillington — 06/08/12

Signature — Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA PROFESSIONAL SEAL 15472 ENGINEER T. PATRICK SHILLINGTON

06/08/12

3008 Anderson Dr. Suite 102, Raleigh, NC 27609

Facility Representative Address

C-2591

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

E²S

ENGINEERING & ENVIRONMENTAL SCIENCE COMPANY

3008 ANDERSON DRIVE, SUITE 102

RALEIGH, NC 27609

(919) 781-7798

June 7, 2012

Ms. Sonya Gilliland
Solid Waste Coordinator
P.O. Box 1540
Pittsboro, NC 27312

RE: Monitoring Well Test Results
May 23, 2012 Sampling Event
Chatham County MSW Landfill
Permit No. 19-01

Dear Ms. Gilliland:

Submitted are the test results for the water sampled from the five (5) monitoring wells of the Chatham County MSW Landfill, and the two (2) surface water samples collected upstream and downstream of the Chatham County MSW Landfill. The test results for each well and surface water sample are summarized in Table 1 in Attachment A. Figure 1 in Attachment A shows the sample locations. Attachment B contains the test results as submitted by Con-Test Analytical Laboratory.

Prior to sampling each monitoring well, the water level depth was determined in reference to the top of the well casing. Teflon disposable bailers attached to nylon rope were used to purge the wells of at least three times the volume of static well water. Surface water sampling was performed by dipping the containers into the stream.

The collected samples were placed on ice for transportation to the laboratory. Temperature, pH, conductivity, and Total Suspended Solids were determined in the field with the Hanna water test instrument prior to sample collection.

We appreciate serving Chatham County on the well and surface water sampling and testing. Please contact us if you have any questions concerning the test results.

Sincerely,

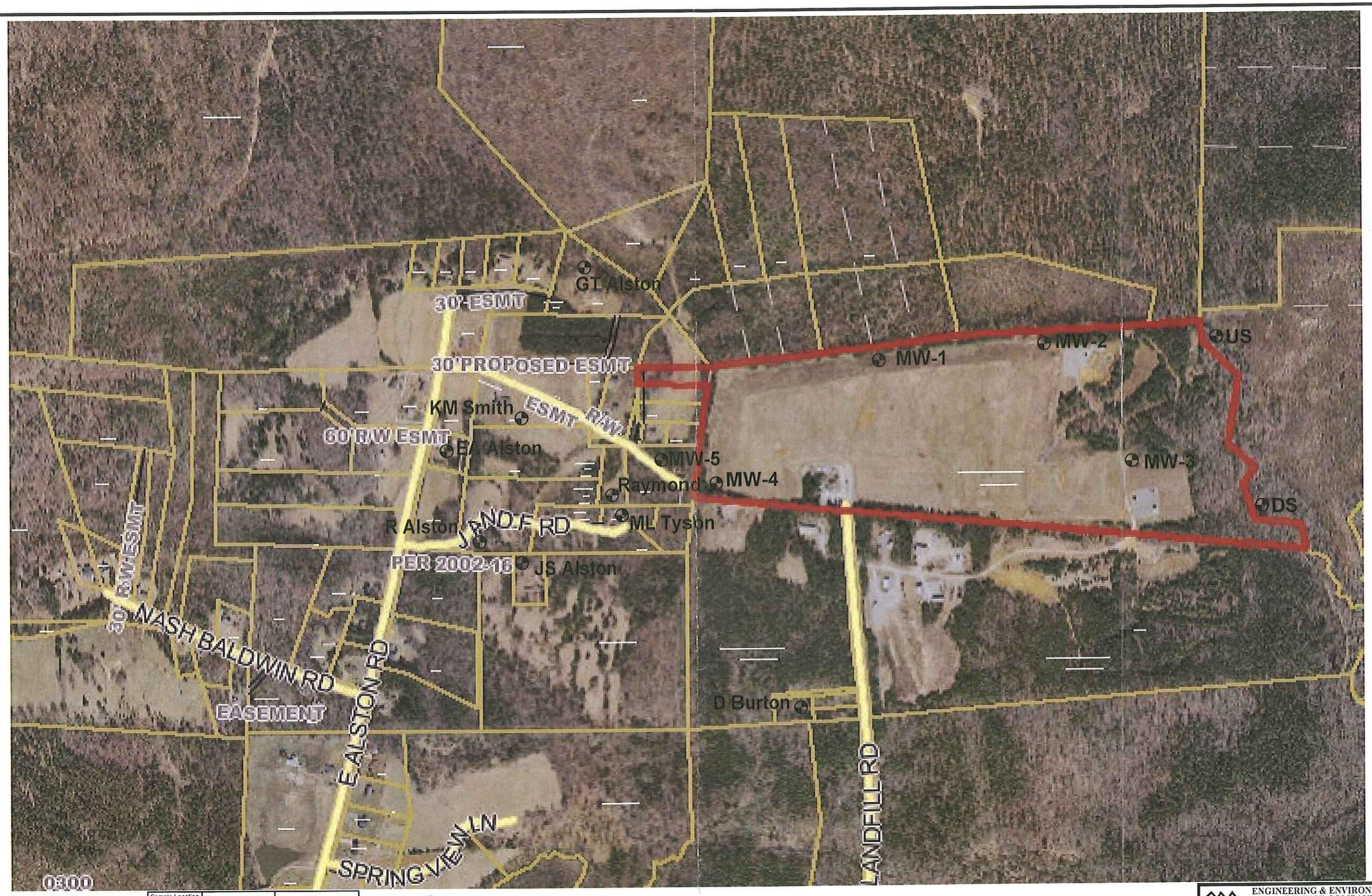
T. Patrick Shillington, P.E.
President

NORTH CAROLINA PROFESSIONAL SEAL 15472 ENGINEER T. PATRICK SHILLINGTON

Robert W. Brantly, E.I.
Project Engineer

Attachment A: Table 1 and Figure 1
Attachment B: Analytical Test Results

**ATTACHMENT A:**
**Table 1 & Figure 1**




| Sample Location Designation | Property Owner | Address |
|---|---|---|
| ML Tyson | Mark & Linette Tyson | 658-E East Alston Road |
| Raymond | Raymond Alston | 220 Alvis Alston Road |
| R Alston | Ruth Alston | 70 J and F Road |
| JS Alston | Johnie & Sylvia Alston | 82 J and F Road |
| EA Alston | Ernest & Ann Alston | 772 East Alston |
| KM Smith | Kenny & Mildred Smith | 82 Alvis Aston Road |
| GT Alston | George & Teresa Alston | 930 East Alston Road |
| D Burton | Diena Burton | 579 Landfill Road |

Scale: 1"=600'

ENGINEERING & ENVIRONMENTAL SCIENCE COMPANY
3008 Anderson Drive
Raleigh, NC 27609
(919) 781-7798

Sampling Locations
Chatham County Landfill
811 County Landfill Road
Pittsboro, NC 27312

Chatham County
PO Box 189
Pittsboro, NC 27312

DATE 06/08/12
DRAWN: rwb
REVISED
SCALE See Drawing
Sheet No 1 of 1

Table 1- 5/23/2012 Summarized Results

| FACILITY PERMIT | WELL ID | CAS Number | SWS ID | PARAMETER | RESULT | UNITS | QUALIFIER | METHOD | MDL | MRL | SWSL | 2L | 2B | DILUTION FACTOR | COLLECT DATE | EXTRACTION DATE | ANALYSIS DATE | NC LAB CERTIFICATION NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19-01 | MW-1N | 106-46-7 | 71 | 1,4 Dichlorobenzene | 0.76 | ug/L | J | SW846 8260B | 0.11 | 1 | 1 | 6 | - | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | MW-1N | 75-34-3 | 75 | 1,1 Dichloroethane | 0.76 | ug/L | J | SW846 8260B | 0.09 | 1 | 5 | 6 | - | 1 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-1N | 7440-39-3 | 15 | Barium | **270** | ug/L | | SW846 6020A | 0.67 | 20 | 100 | 700 | - | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-1N | 7440-47-3 | 51 | Chromium | 10 | ug/L | | SW846 6020A | 1.7 | 5 | 10 | 10 | - | 5 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | MW-1N | 7439-92-1 | 131 | Lead | 0.43 | ug/L | J | SW846 6020A | 0.095 | 2 | 10 | 15 | - | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-1N | 7782-49-2 | 183 | Selenium | 3.3 | ug/L | J | SW846 6020A | 1.1 | 10 | 10 | 20 | - | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-1N | | | Well Elevation | 481.73 | ft. | | | | | | | | | | | | |
| 19-01 | MW-1N | | | Groundwater Depth | 4.23 | ft. | | | | | | | | | | | | |
| 19-01 | MW-1N | | | Water Level Elevation | 477.5 | ft. | | | | | | | | | | | | |
| 19-01 | MW-1N | | | Temperature | 16.2 | C | | | | | | | | | | | | |
| 19-01 | MW-1N | | | pH | 6.4 | | | | | | | | | | | | | |
| 19-01 | MW-1N | | | Conductivity | 194 | mV | | | | | | | | | | | | |
| 19-01 | MW-1N | | | Total Suspended Solids | 157 | ppm | | | | | | | | | | | | |
| 19-01 | MW-2N | 67-64-1 | 3 | Acetone | 3.6 | ug/L | J | SW846 8260B | 0.54 | 50 | 100 | 6000 | - | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | MW-2N | 71-43-2 | 16 | Benzene | 1.4 | ug/L | | SW846 8260B | 0.05 | 1 | 1 | 1 | - | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | MW-2N | 108-90-7 | 39 | Chlorobenzene | **3.4** | ug/L | | SW846 8260B | 0.05 | 1 | 3 | 50 | - | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | MW-2N | 75-00-3 | 41 | Chloroethane | 0.53 | ug/L | J | SW846 8260B | 0.33 | 2 | 10 | 3000 | - | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | |
| 19-01 | MW-2N | 106-46-7 | 71 | 1,4-Dichlorobenzene | **1.8** | ug/L | | SW846 8260B | 0.11 | 1 | 1 | 6 | - | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | MW-2N | 156-59-2 | 78 | cis-1,2-Dichloroethylene | 0.27 | ug/L | J | SW846 8260B | 0.05 | 1 | 5 | 70 | - | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | |
| 19-01 | MW-2N | 108-88-3 | 196 | Toluene | 0.14 | ug/L | J | SW846 8260B | 0.04 | 1 | 1 | 600 | - | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | MW-2N | 1330-20-7 | 346 | m+p Xylene | 0.18 | ug/L | J | SW846 8260B | 0.07 | 2 | 5 | 500 | - | 1 | 5/23/2012 | 5/29/2012 | 5/29/2012 | |
| 19-01 | MW-2N | 7440-38-2 | 14 | Arsenic | 0.9 | ug/L | | SW846 6020A | 0.5 | 0.8 | 10 | 10 | - | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | |
| 19-01 | MW-2N | 7440-39-3 | 15 | Barium | **400** | ug/L | | SW846 6020A | 0.67 | 20 | 100 | 700 | - | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-2N | 7440-43-9 | 34 | Cadmium | 0.15 | ug/L | J | SW846 6020A | 0.058 | 1 | 1 | 2 | - | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-2N | 7440-47-3 | 51 | Chromium | 7.5 | ug/L | | SW846 6020A | 1.7 | 5 | 10 | 10 | - | 5 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | MW-2N | 7439-92-1 | 131 | Lead | 3 | ug/L | | SW846 6020A | 0.095 | 2 | 10 | 15 | - | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-2N | 7782-49-2 | 183 | Selenium | 6.2 | ug/L | | SW846 6020A | 2.5 | 5 | 10 | 20 | - | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-2N | | | Well Elevation | 465.36 | ft. | | | | | | | | | | | | |

| FACILITY PERMIT | WELL ID | CAS Number | SWS ID | PARAMETER | RESULT | UNITS | QUALIFIER | METHOD | MDL | MRL | SWSL | 2L | 2B | DILUTION FACTOR | COLLECT DATE | EXTRACTION DATE | ANALYSIS DATE | NC LAB CERTIFICATION NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19-01 | MW-2N | | | Groundwater Depth | 10.05 | ft. | | | | | | | | | | | | |
| 19-01 | MW-2N | | | Water Level Elevation | 455.31 | ft. | | | | | | | | | | | | |
| 19-01 | MW-2N | | | Temperature | 16.6 | C | | | | | | | | | | | | |
| 19-01 | MW-2N | | | pH | 6.5 | | | | | | | | | | | | | |
| 19-01 | MW-2N | | | Conductivity | 174 | mV | | | | | | | | | | | | |
| 19-01 | MW-2N | | | Total Suspended Solids | 188 | ppm | | | | | | | | | | | | |
| 19-01 | MW-3N | 67-64-1 | 3 | Acetone | 4.8 | ug/L | J | SW846 8260B | 0.54 | 50 | 100 | 6000 | - | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | MW-3N | 106-46-7 | 71 | 1,4-Dichlorobenzene | 0.26 | ug/L | J | SW846 8260B | 0.11 | 1 | 1 | 6 | - | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | MW-3N | 7440-39-3 | 15 | Barium | **150** | ug/L | | SW846 6020A | 0.67 | 20 | 100 | 700 | - | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-3N | 7440-43-9 | 34 | Cadmium | 0.31 | ug/L | J | SW846 6020A | 0.058 | 1 | 1 | 2 | - | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-3N | 7440-47-3 | 51 | Chromium | 7.4 | ug/L | | SW846 6020A | 1.7 | 5 | 10 | 10 | - | 5 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-3N | 7439-92-1 | 131 | Lead | 26 | ug/L | J | SW846 6020A | 0.12 | 1 | 10 | 15 | - | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-3N | 7782-49-2 | 183 | Selenium | 1.2 | ug/L | | SW846 6020A | 2.5 | 5 | 10 | 20 | - | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-3N | | | Well Elevation | 465.85 | ft. | | | | | | | | | | | | |
| 19-01 | MW-3N | | | Groundwater Depth | 7.3 | ft. | | | | | | | | | | | | |
| 19-01 | MW-3N | | | Water Level Elevation | 458.55 | ft. | | | | | | | | | | | | |
| 19-01 | MW-3N | | | Temperature | 16.1 | C | | | | | | | | | | | | |
| 19-01 | MW-3N | | | pH | 6.4 | | | | | | | | | | | | | |
| 19-01 | MW-3N | | | Conductivity | 89 | mV | | | | | | | | | | | | |
| 19-01 | MW-3N | | | Total Suspended Solids | 182 | ppm | | | | | | | | | | | | |
| 19-01 | MW-4N | 67-64-1 | 3 | Acetone | 22 | ug/L | J | SW846 8260B | 0.54 | 50 | 100 | 6000 | - | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | MW-4N | 71-43-2 | 16 | Benzene | 0.82 | ug/L | J | SW846 8260B | 0.05 | 1 | 1 | 1 | - | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | MW-4N | 108-90-7 | 39 | Chlorobenzene | 1.1 | ug/L | | SW846 8260B | 0.05 | 1 | 3 | 50 | - | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | MW-4N | 106-46-7 | 71 | 1,4 Dichlorobenzene | **1.4** | ug/L | | SW846 8260B | 0.11 | 1 | 1 | 6 | - | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | MW-4N | 75-34-3 | 75 | 1,1 Dichloroethane | 0.57 | ug/L | J | SW846 8260B | 0.09 | 1 | 5 | 6 | - | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | MW-4N | 156-59-2 | 78 | cis-1,2-Dichloroethylene | 0.6 | ug/L | J | SW846 8260B | 0.05 | 1 | 5 | 70 | - | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | MW-4N | 108-88-3 | 196 | Toluene | 0.52 | ug/L | J | SW846 8260B | 0.04 | 1 | 1 | 600 | - | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | MW-4N | 75-01-4 | 211 | Vinyl Chloride | 0.65 | ug/L | J | SW846 8260B | 0.16 | 2 | 1 | 0.03 | - | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |

| FACILITY PERMIT | WELL ID | CAS Number | SWS ID | PARAMETER | RESULT | UNITS | QUALIFIER | METHOD | MDL | MRL | SWSL | 2L | 2B | DILUTION FACTOR | COLLECT DATE | EXTRACTION DATE | ANALYSIS DATE | NC LAB CERTIFICATION NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19-01 | MW-4N | 96-47-6 | 408 | o-Xylene | 0.15 | ug/L | J | SW846 8260B | 0.05 | 1 | 5 | 500 | - | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | |
| 19-01 | MW-4N | 7440-39-3 | 15 | Barium | 31 | ug/L | | SW846 6020A | 0.67 | 20 | 100 | 700 | - | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-4N | 7440-47-3 | 51 | Chromium | 3.2 | ug/L | J | SW846 6020A | 1.7 | 5 | 10 | 10 | - | 5 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-4N | 7439-92-1 | 131 | Lead | 0.97 | ug/L | J | SW846 6020A | 0.095 | 2 | 10 | 15 | - | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-4N | 7782-49-2 | 183 | Selenium | 2 | ug/L | J | SW846 6020A | 2.5 | 5 | 10 | 20 | - | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-4N | | | Well Elevation | 522.84 | ft. | | | | | | | | | | | | |
| 19-01 | MW-4N | | | Groundwater Depth | 47.78 | ft. | | | | | | | | | | | | |
| 19-01 | MW-4N | | | Water Level Elevation | 475.06 | ft. | | | | | | | | | | | | |
| 19-01 | MW-4N | | | Temperature | 16 | C | | | | | | | | | | | | |
| 19-01 | MW-4N | | | pH | 5.8 | | | | | | | | | | | | | |
| 19-01 | MW-4N | | | Conductivity | 107 | mV | | | | | | | | | | | | |
| 19-01 | MW-4N | | | Total Suspended Solids | 231 | ppm | | | | | | | | | | | | |
| 19-01 | MW-5N | 67-64-1 | 3 | Acetone | 7.3 | ug/L | J | SW846 8260B | 0.54 | 50 | 100 | 6000 | - | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | MW-5N | 7440-39-3 | 15 | Barium | 4.7 | ug/L | J | SW846 6020A | 0.67 | 20 | 100 | 700 | - | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-5N | 7440-43-9 | 34 | Cadmium | 0.28 | ug/L | J | SW846 6020A | 0.058 | 1 | 1 | 2 | - | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-5N | 7440-47-3 | 51 | Chromium | 4.6 | ug/L | J | SW846 6020A | 1.7 | 5 | 10 | 10 | - | 5 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-5N | 7439-92-1 | 131 | Lead | 3.7 | ug/L | | SW846 6020A | 0.095 | 2 | 10 | 15 | - | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | MW-5N | | | Well Elevation | 515.58 | ft. | | | | | | | | | | | | |
| 19-01 | MW-5N | | | Groundwater Depth | 36.17 | ft. | | | | | | | | | | | | |
| 19-01 | MW-5N | | | Water Level Elevation | 479.41 | ft. | | | | | | | | | | | | |
| 19-01 | MW-5N | | | Temperature | 15.9 | C | | | | | | | | | | | | |
| 19-01 | MW-5N | | | pH | 6.1 | | | | | | | | | | | | | |
| 19-01 | MW-5N | | | Conductivity | 163 | mV | | | | | | | | | | | | |
| 19-01 | MW-5N | | | Total Suspended Solids | 375 | ppm | | | | | | | | | | | | |
| 19-01 | DS | 67-64-1 | 3 | Acetone | 2.8 | ug/L | J | SW846 8260B | 0.54 | 50 | 100 | 6000 | 2000 | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | DS | 7440-39-3 | 15 | Barium | 21 | ug/L | | SW846 6020A | 0.67 | 20 | 100 | 700 | 200 | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | DS | 7440-43-9 | 34 | Cadmium | 0.17 | ug/L | J | SW846 6020A | 0.058 | 1 | 1 | 2 | 2 | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | DS | 7440-47-3 | 51 | Chromium | 7.6 | ug/L | | SW846 6020A | 1.7 | 5 | 10 | 10 | 50 | 5 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |

| FACILITY PERMIT | WELL ID | CAS Number | SWS ID | PARAMETER | RESULT | UNITS | QUALIFIER | METHOD | MDL | MRL | SWSL | 2L | 2B | DILUTION FACTOR | COLLECT DATE | EXTRACTION DATE | ANALYSIS DATE | NC LAB CERTIFICATION NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19-01 | DS | 7439-92-1 | 131 | Lead | 0.72 | ug/L | J | SW846 6020A | 0.12 | 1 | 10 | 15 | 25 | 1 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | DS | | | Temperature | 17.3 | C | | | | | | | | | | | | |
| 19-01 | DS | | | pH | 6.4 | | | | | | | | | | | | | |
| 19-01 | DS | | | Conductivity | 82 | mV | | | | | | | | | | | | |
| 19-01 | DS | | | Total Suspended Solids | 102 | ppm | | | | | | | | | | | | |
| 19-01 | US | 67-64-1 | 3 | Acetone | 3.1 | ug/L | J | SW846 8260B | 0.54 | 50 | 100 | 6000 | 2000 | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | US | 108-88-3 | 196 | Toluene | 0.24 | ug/L | J | SW846 8260B | 0.04 | 1 | 1 | 600 | 11 | 1 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | US | 7440-39-3 | 15 | Barium | 29 | ug/L | | SW846 6020A | 0.67 | 20 | 100 | 700 | 200 | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | US | 7440-43-9 | 34 | Cadmium | 0.78 | ug/L | J | SW846 6020A | 0.058 | 1 | 1 | 2 | 2 | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | US | 7440-47-3 | 51 | Chromium | 6.9 | ug/L | | SW846 6020A | 1.7 | 5 | 10 | 10 | 50 | 5 | 5/23/2012 | 5/29/2012 | 5/30/2012 | 652 |
| 19-01 | US | 7439-92-1 | 131 | Lead | 0.41 | ug/L | J | SW846 6020A | 0.12 | 1 | 10 | 15 | 25 | 2 | 5/23/2012 | 5/29/2012 | 5/29/2012 | 652 |
| 19-01 | US | | | Temperature | 17.4 | C | | | | | | | | | | | | |
| 19-01 | US | | | pH | 6.3 | | | | | | | | | | | | | |
| 19-01 | US | | | Conductivity | 118 | mV | | | | | | | | | | | | |
| 19-01 | US | | | Total Suspended Solids | 129 | ppm | | | | | | | | | | | | |

Bolded values exceed SWSL

Red values exceed 2L Standards

**ATTACHMENT B:**
**Analytical Test Results**

E²S

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

June 5, 2012

Pat Shillington
E2S
3008 Anderson Drive, Suite 102
Raleigh, NC 27609

Project Location: Chatam Co Landfill
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 12E0990

Enclosed are results of analyses for samples received by the laboratory on May 24, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa Worthington

Lisa A. Worthington
Project Manager



E2S

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ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

E2S
3008 Anderson Drive, Suite 102
Raleigh, NC 27609
ATTN: Pat Shillington

REPORT DATE: 6/5/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 12E0990

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Chatam Co Landfill

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|---|---|---|---|---|---|
| MW-1N | 12E0990-01 | Ground Water | | SW-846 6020A | |
| | | | | SW-846 7470A | |
| | | | | SW-846 8260B | |
| MW-2N | 12E0990-02 | Ground Water | | SW-846 6020A | |
| | | | | SW-846 7470A | |
| | | | | SW-846 8260B | |
| MW-3N | 12E0990-03 | Ground Water | | SW-846 6020A | |
| | | | | SW-846 7470A | |
| | | | | SW-846 8260B | |
| MW-4N | 12E0990-04 | Ground Water | | SW-846 6020A | |
| | | | | SW-846 7470A | |
| | | | | SW-846 8260B | |
| MW-5 | 12E0990-05 | Ground Water | | SW-846 6020A | |
| | | | | SW-846 7470A | |
| | | | | SW-846 8260B | |
| US | 12E0990-06 | Surface Water | | SW-846 6020A | |
| | | | | SW-846 7470A | |
| | | | | SW-846 8260B | |
| DS | 12E0990-07 | Surface Water | | SW-846 6020A | |
| | | | | SW-846 7470A | |
| | | | | SW-846 8260B | |

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## CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

### SW-846 6020A

**Qualifications:**

Elevated reporting limit due to high concentration of an interfering analyte(s).

**Analyte & Samples(s) Qualified:**

**Arsenic**
12E0990-01[MW-1N]

### SW-846 8260B

**Qualifications:**

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

**Analyte & Samples(s) Qualified:**

**Iodomethane**
B052366-BS1, B052366-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

**Analyte & Samples(s) Qualified:**

**Bromomethane**
B052366-BS1, B052366-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill
Sample Description:
Work Order: 12E0990

Date Received: 5/24/2012

**Field Sample #: MW-1N**
Sampled: 5/23/2012 14:50

**Sample ID: 12E0990-01**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 50 | 0.54 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Acrylonitrile | ND | 5.0 | 0.51 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Benzene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Bromochloromethane | ND | 1.0 | 0.10 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Bromodichloromethane | ND | 0.50 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Bromoform | ND | 1.0 | 0.25 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Bromomethane | ND | 2.0 | 0.38 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| 2-Butanone (MEK) | ND | 20 | 0.41 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Carbon Disulfide | ND | 2.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Carbon Tetrachloride | ND | 5.0 | 0.090 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Chlorobenzene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Chlorodibromomethane | ND | 0.50 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Chloroethane | ND | 2.0 | 0.33 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Chloroform | ND | 2.0 | 0.040 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Chloromethane | ND | 2.0 | 0.13 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | 0.48 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | 0.14 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Dibromomethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| 1,2-Dichlorobenzene | ND | 1.0 | 0.060 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| 1,4-Dichlorobenzene | 0.76 | 1.0 | 0.11 | µg/L | 1 | J | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | 0.77 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| 1,1-Dichloroethane | 0.76 | 1.0 | 0.090 | µg/L | 1 | J | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| 1,2-Dichloroethane | ND | 1.0 | 0.090 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| 1,1-Dichloroethylene | ND | 1.0 | 0.10 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| cis-1,2-Dichloroethylene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| trans-1,2-Dichloroethylene | ND | 1.0 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| 1,2-Dichloropropane | ND | 1.0 | 0.20 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| cis-1,3-Dichloropropene | ND | 0.50 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| trans-1,3-Dichloropropene | ND | 0.50 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Ethylbenzene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| 2-Hexanone (MBK) | ND | 10 | 0.66 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Iodomethane | ND | 10 | 0.80 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Methylene Chloride | ND | 5.0 | 2.3 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | 0.22 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Styrene | ND | 1.0 | 0.060 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.18 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Tetrachloroethylene | ND | 1.0 | 0.14 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Toluene | ND | 1.0 | 0.040 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| 1,1,1-Trichloroethane | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Trichloroethylene | ND | 1.0 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| 1,2,3-Trichloropropane | ND | 2.0 | 0.21 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill
Sample Description:
Work Order: 12E0990

Date Received: 5/24/2012

**Field Sample #: MW-1N**
Sampled: 5/23/2012 14:50

**Sample ID: 12E0990-01**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | ND | 20 | 12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| Vinyl Chloride | ND | 2.0 | 0.16 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| m+p Xylene | ND | 2.0 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |
| o-Xylene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:23 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | 70-130 | | 5/30/12 8:23 |
| Toluene-d8 | 100 | 70-130 | | 5/30/12 8:23 |
| 4-Bromofluorobenzene | 97.9 | 70-130 | | 5/30/12 8:23 |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill
Sample Description:
Work Order: 12E0990
Date Received: 5/24/2012
**Field Sample #: MW-1N**
Sampled: 5/23/2012 14:50
**Sample ID: 12E0990-01**
Sample Matrix: Ground Water

**Metals Analyses (Total)**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | 2.0 | 1.2 | µg/L | 5 | DL-04 | SW-846 6020A | 5/29/12 | 5/30/12 13:06 | KSH |
| Barium | 270 | 20 | 0.67 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:28 | KSH |
| Cadmium | ND | 1.0 | 0.058 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:28 | KSH |
| Chromium | 10 | 5.0 | 1.7 | µg/L | 5 | | SW-846 6020A | 5/29/12 | 5/30/12 13:06 | KSH |
| Lead | 0.43 | 2.0 | 0.095 | µg/L | 2 | J | SW-846 6020A | 5/29/12 | 5/29/12 17:28 | KSH |
| Mercury | ND | 0.10 | 0.047 | µg/L | 1 | | SW-846 7470A | 5/29/12 | 5/29/12 13:36 | AMR |
| Selenium | 3.3 | 10 | 1.1 | µg/L | 2 | J | SW-846 6020A | 5/29/12 | 5/29/12 17:28 | KSH |
| Silver | ND | 1.0 | 0.33 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:28 | KSH |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill
Sample Description:
Work Order: 12E0990

Date Received: 5/24/2012

**Field Sample #: MW-2N**
Sampled: 5/23/2012 14:14

**Sample ID: 12E0990-02**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 3.6 | 50 | 0.54 | µg/L | 1 | J | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Acrylonitrile | ND | 5.0 | 0.51 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Benzene | 1.4 | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Bromochloromethane | ND | 1.0 | 0.10 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Bromodichloromethane | ND | 0.50 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Bromoform | ND | 1.0 | 0.25 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Bromomethane | ND | 2.0 | 0.38 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| 2-Butanone (MEK) | ND | 20 | 0.41 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Carbon Disulfide | ND | 2.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Carbon Tetrachloride | ND | 5.0 | 0.090 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Chlorobenzene | 3.4 | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Chlorodibromomethane | ND | 0.50 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Chloroethane | 0.53 | 2.0 | 0.33 | µg/L | 1 | J | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Chloroform | ND | 2.0 | 0.040 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Chloromethane | ND | 2.0 | 0.13 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | 0.48 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | 0.14 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Dibromomethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| 1,2-Dichlorobenzene | ND | 1.0 | 0.060 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| 1,4-Dichlorobenzene | 1.8 | 1.0 | 0.11 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | 0.77 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| 1,1-Dichloroethane | ND | 1.0 | 0.090 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| 1,2-Dichloroethane | ND | 1.0 | 0.090 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| 1,1-Dichloroethylene | ND | 1.0 | 0.10 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| cis-1,2-Dichloroethylene | 0.27 | 1.0 | 0.050 | µg/L | 1 | J | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| trans-1,2-Dichloroethylene | ND | 1.0 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| 1,2-Dichloropropane | ND | 1.0 | 0.20 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| cis-1,3-Dichloropropene | ND | 0.50 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| trans-1,3-Dichloropropene | ND | 0.50 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Ethylbenzene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| 2-Hexanone (MBK) | ND | 10 | 0.66 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Iodomethane | ND | 10 | 0.80 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Methylene Chloride | ND | 5.0 | 2.3 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | 0.22 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Styrene | ND | 1.0 | 0.060 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.18 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Tetrachloroethylene | ND | 1.0 | 0.14 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Toluene | 0.14 | 1.0 | 0.040 | µg/L | 1 | J | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| 1,1,1-Trichloroethane | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Trichloroethylene | ND | 1.0 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| 1,2,3-Trichloropropane | ND | 2.0 | 0.21 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill
Sample Description:
Work Order: 12E0990

Date Received: 5/24/2012

**Field Sample #: MW-2N**
Sampled: 5/23/2012 14:14

**Sample ID: 12E0990-02**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | ND | 20 | 12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| Vinyl Chloride | ND | 2.0 | 0.16 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| m+p Xylene | 0.18 | 2.0 | 0.070 | µg/L | 1 | J | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |
| o-Xylene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 8:53 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | 70-130 | | 5/30/12 8:53 |
| Toluene-d8 | 102 | 70-130 | | 5/30/12 8:53 |
| 4-Bromofluorobenzene | 97.8 | 70-130 | | 5/30/12 8:53 |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill
Sample Description:
Work Order: 12E0990

Date Received: 5/24/2012

**Field Sample #: MW-2N**
Sampled: 5/23/2012 14:14

**Sample ID: 12E0990-02**

Sample Matrix: Ground Water

**Metals Analyses (Total)**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 0.90 | 0.80 | 0.50 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:31 | KSH |
| Barium | 400 | 20 | 0.67 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:31 | KSH |
| Cadmium | 0.15 | 1.0 | 0.058 | µg/L | 2 | J | SW-846 6020A | 5/29/12 | 5/29/12 17:31 | KSH |
| Chromium | 7.5 | 5.0 | 1.7 | µg/L | 5 | | SW-846 6020A | 5/29/12 | 5/30/12 13:09 | KSH |
| Lead | 3.0 | 2.0 | 0.095 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:31 | KSH |
| Mercury | ND | 0.10 | 0.047 | µg/L | 1 | | SW-846 7470A | 5/29/12 | 5/29/12 13:38 | AMR |
| Selenium | 6.2 | 10 | 1.1 | µg/L | 2 | J | SW-846 6020A | 5/29/12 | 5/29/12 17:31 | KSH |
| Silver | ND | 1.0 | 0.33 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:31 | KSH |

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill
Sample Description:
Work Order: 12E0990

Date Received: 5/24/2012

**Field Sample #: MW-3N**
Sampled: 5/23/2012 15:20

**Sample ID: 12E0990-03**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 4.8 | 50 | 0.54 | µg/L | 1 | J | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Acrylonitrile | ND | 5.0 | 0.51 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Benzene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Bromochloromethane | ND | 1.0 | 0.10 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Bromodichloromethane | ND | 0.50 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Bromoform | ND | 1.0 | 0.25 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Bromomethane | ND | 2.0 | 0.38 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| 2-Butanone (MEK) | ND | 20 | 0.41 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Carbon Disulfide | ND | 2.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Carbon Tetrachloride | ND | 5.0 | 0.090 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Chlorobenzene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Chlorodibromomethane | ND | 0.50 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Chloroethane | ND | 2.0 | 0.33 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Chloroform | ND | 2.0 | 0.040 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Chloromethane | ND | 2.0 | 0.13 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | 0.48 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | 0.14 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Dibromomethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| 1,2-Dichlorobenzene | ND | 1.0 | 0.060 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| 1,4-Dichlorobenzene | 0.26 | 1.0 | 0.11 | µg/L | 1 | J | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | 0.77 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| 1,1-Dichloroethane | ND | 1.0 | 0.090 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| 1,2-Dichloroethane | ND | 1.0 | 0.090 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| 1,1-Dichloroethylene | ND | 1.0 | 0.10 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| cis-1,2-Dichloroethylene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| trans-1,2-Dichloroethylene | ND | 1.0 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| 1,2-Dichloropropane | ND | 1.0 | 0.20 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| cis-1,3-Dichloropropene | ND | 0.50 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| trans-1,3-Dichloropropene | ND | 0.50 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Ethylbenzene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| 2-Hexanone (MBK) | ND | 10 | 0.66 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Iodomethane | ND | 10 | 0.80 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Methylene Chloride | ND | 5.0 | 2.3 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | 0.22 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Styrene | ND | 1.0 | 0.060 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.18 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Tetrachloroethylene | ND | 1.0 | 0.14 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Toluene | ND | 1.0 | 0.040 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| 1,1,1-Trichloroethane | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Trichloroethylene | ND | 1.0 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| 1,2,3-Trichloropropane | ND | 2.0 | 0.21 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |

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ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill
Sample Description:
Work Order: 12E0990
Date Received: 5/24/2012
**Field Sample #: MW-3N**
Sampled: 5/23/2012 15:20
**Sample ID: 12E0990-03**
Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | ND | 20 | 12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| Vinyl Chloride | ND | 2.0 | 0.16 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| m+p Xylene | ND | 2.0 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |
| o-Xylene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:23 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | 70-130 | | 5/30/12 9:23 |
| Toluene-d8 | 99.6 | 70-130 | | 5/30/12 9:23 |
| 4-Bromofluorobenzene | 97.9 | 70-130 | | 5/30/12 9:23 |

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ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill
Sample Description:
Work Order: 12E0990
Date Received: 5/24/2012
**Field Sample #: MW-3N**
Sampled: 5/23/2012 15:20
**Sample ID: 12E0990-03**
Sample Matrix: Ground Water

**Metals Analyses (Total)**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | 0.80 | 0.50 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:35 | KSH |
| Barium | 150 | 20 | 0.67 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:35 | KSH |
| Cadmium | 0.31 | 1.0 | 0.058 | µg/L | 2 | J | SW-846 6020A | 5/29/12 | 5/29/12 17:35 | KSH |
| Chromium | 7.4 | 5.0 | 1.7 | µg/L | 5 | | SW-846 6020A | 5/29/12 | 5/30/12 13:13 | KSH |
| Lead | 26 | 2.0 | 0.095 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:35 | KSH |
| Mercury | ND | 0.10 | 0.047 | µg/L | 1 | | SW-846 7470A | 5/29/12 | 5/29/12 13:53 | AMR |
| Selenium | 1.2 | 10 | 1.1 | µg/L | 2 | J | SW-846 6020A | 5/29/12 | 5/29/12 17:35 | KSH |
| Silver | ND | 1.0 | 0.33 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:35 | KSH |

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill | Sample Description: | Work Order: 12E0990

Date Received: 5/24/2012

**Field Sample #: MW-4N** | Sampled: 5/24/2012 13:50

**Sample ID: 12E0990-04**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 22 | 50 | 0.54 | µg/L | 1 | J | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Acrylonitrile | ND | 5.0 | 0.51 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Benzene | 0.82 | 1.0 | 0.050 | µg/L | 1 | J | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Bromochloromethane | ND | 1.0 | 0.10 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Bromodichloromethane | ND | 0.50 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Bromoform | ND | 1.0 | 0.25 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Bromomethane | ND | 2.0 | 0.38 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| 2-Butanone (MEK) | ND | 20 | 0.41 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Carbon Disulfide | ND | 2.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Carbon Tetrachloride | ND | 5.0 | 0.090 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Chlorobenzene | 1.1 | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Chlorodibromomethane | ND | 0.50 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Chloroethane | ND | 2.0 | 0.33 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Chloroform | ND | 2.0 | 0.040 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Chloromethane | ND | 2.0 | 0.13 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | 0.48 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | 0.14 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Dibromomethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| 1,2-Dichlorobenzene | ND | 1.0 | 0.060 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| 1,4-Dichlorobenzene | 1.4 | 1.0 | 0.11 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | 0.77 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| 1,1-Dichloroethane | 0.57 | 1.0 | 0.090 | µg/L | 1 | J | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| 1,2-Dichloroethane | ND | 1.0 | 0.090 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| 1,1-Dichloroethylene | ND | 1.0 | 0.10 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| cis-1,2-Dichloroethylene | 0.60 | 1.0 | 0.050 | µg/L | 1 | J | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| trans-1,2-Dichloroethylene | ND | 1.0 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| 1,2-Dichloropropane | ND | 1.0 | 0.20 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| cis-1,3-Dichloropropene | ND | 0.50 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| trans-1,3-Dichloropropene | ND | 0.50 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Ethylbenzene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| 2-Hexanone (MBK) | ND | 10 | 0.66 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Iodomethane | ND | 10 | 0.80 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Methylene Chloride | ND | 5.0 | 2.3 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | 0.22 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Styrene | ND | 1.0 | 0.060 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.18 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Tetrachloroethylene | ND | 1.0 | 0.14 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Toluene | 0.52 | 1.0 | 0.040 | µg/L | 1 | J | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| 1,1,1-Trichloroethane | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Trichloroethylene | ND | 1.0 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| 1,2,3-Trichloropropane | ND | 2.0 | 0.21 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill
Sample Description:
Work Order: 12E0990

Date Received: 5/24/2012

**Field Sample #: MW-4N**
Sampled: 5/24/2012 13:50

**Sample ID: 12E0990-04**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | ND | 20 | 12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| Vinyl Chloride | 0.65 | 2.0 | 0.16 | µg/L | 1 | J | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| m+p Xylene | ND | 2.0 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |
| o-Xylene | 0.15 | 1.0 | 0.050 | µg/L | 1 | J | SW-846 8260B | 5/29/12 | 5/30/12 11:24 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | 70-130 | | 5/30/12 11:24 |
| Toluene-d8 | 100 | 70-130 | | 5/30/12 11:24 |
| 4-Bromofluorobenzene | 97.0 | 70-130 | | 5/30/12 11:24 |

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ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill
Sample Description:
Work Order: 12E0990
Date Received: 5/24/2012
**Field Sample #: MW-4N**
Sampled: 5/24/2012 13:50
**Sample ID: 12E0990-04**
Sample Matrix: Ground Water

**Metals Analyses (Total)**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | 0.80 | 0.50 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:38 | KSH |
| Barium | 31 | 20 | 0.67 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:38 | KSH |
| Cadmium | ND | 1.0 | 0.058 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:38 | KSH |
| Chromium | 3.2 | 5.0 | 1.7 | µg/L | 5 | J | SW-846 6020A | 5/29/12 | 5/30/12 13:17 | KSH |
| Lead | 0.97 | 2.0 | 0.095 | µg/L | 2 | J | SW-846 6020A | 5/29/12 | 5/29/12 17:38 | KSH |
| Mercury | ND | 0.10 | 0.047 | µg/L | 1 | | SW-846 7470A | 5/29/12 | 5/29/12 13:55 | AMR |
| Selenium | 2.0 | 10 | 1.1 | µg/L | 2 | J | SW-846 6020A | 5/29/12 | 5/29/12 17:38 | KSH |
| Silver | ND | 1.0 | 0.33 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:38 | KSH |



E²S

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill
Sample Description:
Work Order: 12E0990

Date Received: 5/24/2012

**Field Sample #: MW-5**
Sampled: 5/24/2012 14:30

**Sample ID: 12E0990-05**

Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 7.3 | 50 | 0.54 | µg/L | 1 | J | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Acrylonitrile | ND | 5.0 | 0.51 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Benzene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Bromochloromethane | ND | 1.0 | 0.10 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Bromodichloromethane | ND | 0.50 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Bromoform | ND | 1.0 | 0.25 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Bromomethane | ND | 2.0 | 0.38 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| 2-Butanone (MEK) | ND | 20 | 0.41 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Carbon Disulfide | ND | 2.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Carbon Tetrachloride | ND | 5.0 | 0.090 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Chlorobenzene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Chlorodibromomethane | ND | 0.50 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Chloroethane | ND | 2.0 | 0.33 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Chloroform | ND | 2.0 | 0.040 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Chloromethane | ND | 2.0 | 0.13 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | 0.48 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | 0.14 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Dibromomethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| 1,2-Dichlorobenzene | ND | 1.0 | 0.060 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| 1,4-Dichlorobenzene | ND | 1.0 | 0.11 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | 0.77 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| 1,1-Dichloroethane | ND | 1.0 | 0.090 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| 1,2-Dichloroethane | ND | 1.0 | 0.090 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| 1,1-Dichloroethylene | ND | 1.0 | 0.10 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| cis-1,2-Dichloroethylene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| trans-1,2-Dichloroethylene | ND | 1.0 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| 1,2-Dichloropropane | ND | 1.0 | 0.20 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| cis-1,3-Dichloropropene | ND | 0.50 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| trans-1,3-Dichloropropene | ND | 0.50 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Ethylbenzene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| 2-Hexanone (MBK) | ND | 10 | 0.66 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Iodomethane | ND | 10 | 0.80 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Methylene Chloride | ND | 5.0 | 2.3 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | 0.22 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Styrene | ND | 1.0 | 0.060 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.18 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Tetrachloroethylene | ND | 1.0 | 0.14 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Toluene | ND | 1.0 | 0.040 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| 1,1,1-Trichloroethane | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Trichloroethylene | ND | 1.0 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| 1,2,3-Trichloropropane | ND | 2.0 | 0.21 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |

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ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill
Sample Description:
Work Order: 12E0990
Date Received: 5/24/2012
**Field Sample #: MW-5**
Sampled: 5/24/2012 14:30
**Sample ID: 12E0990-05**
Sample Matrix: Ground Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | ND | 20 | 12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| Vinyl Chloride | ND | 2.0 | 0.16 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| m+p Xylene | ND | 2.0 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |
| o-Xylene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 9:54 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 | | 5/30/12 9:54 |
| Toluene-d8 | 101 | 70-130 | | 5/30/12 9:54 |
| 4-Bromofluorobenzene | 98.0 | 70-130 | | 5/30/12 9:54 |

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ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill
Sample Description:
Work Order: 12E0990

Date Received: 5/24/2012

**Field Sample #: MW-5**
Sampled: 5/24/2012 14:30

**Sample ID: 12E0990-05**

Sample Matrix: Ground Water

**Metals Analyses (Total)**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | 0.80 | 0.50 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:54 | KSH |
| Barium | 4.7 | 20 | 0.67 | µg/L | 2 | J | SW-846 6020A | 5/29/12 | 5/29/12 17:54 | KSH |
| Cadmium | 0.28 | 1.0 | 0.058 | µg/L | 2 | J | SW-846 6020A | 5/29/12 | 5/29/12 17:54 | KSH |
| Chromium | 4.6 | 5.0 | 1.7 | µg/L | 5 | J | SW-846 6020A | 5/29/12 | 5/30/12 13:20 | KSH |
| Lead | 3.7 | 2.0 | 0.095 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:54 | KSH |
| Mercury | ND | 0.10 | 0.047 | µg/L | 1 | | SW-846 7470A | 5/29/12 | 5/29/12 13:56 | AMR |
| Selenium | ND | 10 | 1.1 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:54 | KSH |
| Silver | ND | 1.0 | 0.33 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:54 | KSH |



E²S

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill
Sample Description:
Work Order: 12E0990
Date Received: 5/24/2012
**Field Sample #: US**
Sampled: 5/23/2012 15:50
**Sample ID: 12E0990-06**
Sample Matrix: Surface Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 3.1 | 50 | 0.54 | µg/L | 1 | J | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Acrylonitrile | ND | 5.0 | 0.51 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Benzene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Bromochloromethane | ND | 1.0 | 0.10 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Bromodichloromethane | ND | 0.50 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Bromoform | ND | 1.0 | 0.25 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Bromomethane | ND | 2.0 | 0.38 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| 2-Butanone (MEK) | ND | 20 | 0.41 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Carbon Disulfide | ND | 2.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Carbon Tetrachloride | ND | 5.0 | 0.090 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Chlorobenzene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Chlorodibromomethane | ND | 0.50 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Chloroethane | ND | 2.0 | 0.33 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Chloroform | ND | 2.0 | 0.040 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Chloromethane | ND | 2.0 | 0.13 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | 0.48 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | 0.14 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Dibromomethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| 1,2-Dichlorobenzene | ND | 1.0 | 0.060 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| 1,4-Dichlorobenzene | ND | 1.0 | 0.11 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | 0.77 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| 1,1-Dichloroethane | ND | 1.0 | 0.090 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| 1,2-Dichloroethane | ND | 1.0 | 0.090 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| 1,1-Dichloroethylene | ND | 1.0 | 0.10 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| cis-1,2-Dichloroethylene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| trans-1,2-Dichloroethylene | ND | 1.0 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| 1,2-Dichloropropane | ND | 1.0 | 0.20 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| cis-1,3-Dichloropropene | ND | 0.50 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| trans-1,3-Dichloropropene | ND | 0.50 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Ethylbenzene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| 2-Hexanone (MBK) | ND | 10 | 0.66 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Iodomethane | ND | 10 | 0.80 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Methylene Chloride | ND | 5.0 | 2.3 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | 0.22 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Styrene | ND | 1.0 | 0.060 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.18 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Tetrachloroethylene | ND | 1.0 | 0.14 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Toluene | 0.24 | 1.0 | 0.040 | µg/L | 1 | J | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| 1,1,1-Trichloroethane | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Trichloroethylene | ND | 1.0 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| 1,2,3-Trichloropropane | ND | 2.0 | 0.21 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |

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ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill
Sample Description:
Work Order: 12E0990

Date Received: 5/24/2012

**Field Sample #: US**
Sampled: 5/23/2012 15:50

**Sample ID: 12E0990-06**

Sample Matrix: Surface Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | ND | 20 | 12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| Vinyl Chloride | ND | 2.0 | 0.16 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| m+p Xylene | ND | 2.0 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |
| o-Xylene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:24 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 | | 5/30/12 10:24 |
| Toluene-d8 | 102 | 70-130 | | 5/30/12 10:24 |
| 4-Bromofluorobenzene | 94.4 | 70-130 | | 5/30/12 10:24 |

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ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill
Sample Description:
Work Order: 12E0990
Date Received: 5/24/2012
**Field Sample #: US**
Sampled: 5/23/2012 15:50
**Sample ID: 12E0990-06**
Sample Matrix: Surface Water

**Metals Analyses (Total)**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | 0.80 | 0.50 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:58 | KSH |
| Barium | 29 | 20 | 0.67 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:58 | KSH |
| Cadmium | 0.78 | 1.0 | 0.058 | µg/L | 2 | J | SW-846 6020A | 5/29/12 | 5/29/12 17:58 | KSH |
| Chromium | 6.9 | 5.0 | 1.7 | µg/L | 5 | | SW-846 6020A | 5/29/12 | 5/30/12 13:24 | KSH |
| Lead | 0.41 | 2.0 | 0.095 | µg/L | 2 | J | SW-846 6020A | 5/29/12 | 5/29/12 17:58 | KSH |
| Mercury | ND | 0.10 | 0.047 | µg/L | 1 | | SW-846 7470A | 5/29/12 | 5/29/12 13:58 | AMR |
| Selenium | ND | 10 | 1.1 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:58 | KSH |
| Silver | ND | 1.0 | 0.33 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 17:58 | KSH |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill | Sample Description: | Work Order: 12E0990

Date Received: 5/24/2012

**Field Sample #: DS** | Sampled: 5/23/2012 16:30

**Sample ID: 12E0990-07**

Sample Matrix: Surface Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetone | 2.8 | 50 | 0.54 | µg/L | 1 | J | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Acrylonitrile | ND | 5.0 | 0.51 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Benzene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Bromochloromethane | ND | 1.0 | 0.10 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Bromodichloromethane | ND | 0.50 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Bromoform | ND | 1.0 | 0.25 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Bromomethane | ND | 2.0 | 0.38 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| 2-Butanone (MEK) | ND | 20 | 0.41 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Carbon Disulfide | ND | 2.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Carbon Tetrachloride | ND | 5.0 | 0.090 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Chlorobenzene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Chlorodibromomethane | ND | 0.50 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Chloroethane | ND | 2.0 | 0.33 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Chloroform | ND | 2.0 | 0.040 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Chloromethane | ND | 2.0 | 0.13 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | 0.48 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | 0.14 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Dibromomethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| 1,2-Dichlorobenzene | ND | 1.0 | 0.060 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| 1,4-Dichlorobenzene | ND | 1.0 | 0.11 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | 0.77 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| 1,1-Dichloroethane | ND | 1.0 | 0.090 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| 1,2-Dichloroethane | ND | 1.0 | 0.090 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| 1,1-Dichloroethylene | ND | 1.0 | 0.10 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| cis-1,2-Dichloroethylene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| trans-1,2-Dichloroethylene | ND | 1.0 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| 1,2-Dichloropropane | ND | 1.0 | 0.20 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| cis-1,3-Dichloropropene | ND | 0.50 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| trans-1,3-Dichloropropene | ND | 0.50 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Ethylbenzene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| 2-Hexanone (MBK) | ND | 10 | 0.66 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Iodomethane | ND | 10 | 0.80 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Methylene Chloride | ND | 5.0 | 2.3 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | 0.22 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Styrene | ND | 1.0 | 0.060 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | 0.18 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Tetrachloroethylene | ND | 1.0 | 0.14 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Toluene | ND | 1.0 | 0.040 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| 1,1,1-Trichloroethane | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| 1,1,2-Trichloroethane | ND | 1.0 | 0.080 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Trichloroethylene | ND | 1.0 | 0.12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| 1,2,3-Trichloropropane | ND | 2.0 | 0.21 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |

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ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill
Sample Description:
Work Order: 12E0990
Date Received: 5/24/2012
**Field Sample #: DS**
Sampled: 5/23/2012 16:30
**Sample ID: 12E0990-07**
Sample Matrix: Surface Water

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Vinyl Acetate | ND | 20 | 12 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| Vinyl Chloride | ND | 2.0 | 0.16 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| m+p Xylene | ND | 2.0 | 0.070 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |
| o-Xylene | ND | 1.0 | 0.050 | µg/L | 1 | | SW-846 8260B | 5/29/12 | 5/30/12 10:54 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | 70-130 | | 5/30/12 10:54 |
| Toluene-d8 | 102 | 70-130 | | 5/30/12 10:54 |
| 4-Bromofluorobenzene | 97.1 | 70-130 | | 5/30/12 10:54 |

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ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Chatam Co Landfill
Sample Description:
Work Order: 12E0990
Date Received: 5/24/2012
**Field Sample #: DS**
Sampled: 5/23/2012 16:30
**Sample ID: 12E0990-07**
Sample Matrix: Surface Water

**Metals Analyses (Total)**

| Analyte | Results | RL | DL | Units | Dilution | Flag | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | 0.80 | 0.50 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 18:01 | KSH |
| Barium | 21 | 20 | 0.67 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 18:01 | KSH |
| Cadmium | 0.17 | 1.0 | 0.058 | µg/L | 2 | J | SW-846 6020A | 5/29/12 | 5/29/12 18:01 | KSH |
| Chromium | 7.6 | 5.0 | 1.7 | µg/L | 5 | | SW-846 6020A | 5/29/12 | 5/30/12 13:40 | KSH |
| Lead | 0.28 | 2.0 | 0.095 | µg/L | 2 | J | SW-846 6020A | 5/29/12 | 5/29/12 18:01 | KSH |
| Mercury | ND | 0.10 | 0.047 | µg/L | 1 | | SW-846 7470A | 5/29/12 | 5/29/12 14:00 | AMR |
| Selenium | ND | 10 | 1.1 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 18:01 | KSH |
| Silver | ND | 1.0 | 0.33 | µg/L | 2 | | SW-846 6020A | 5/29/12 | 5/29/12 18:01 | KSH |

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## Sample Extraction Data

**Prep Method: SM 3030C-SW-846 6020A**

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 12E0990-01 [MW-1N] | B052374 | 50.0 | 50.0 | 05/29/12 |
| 12E0990-02 [MW-2N] | B052374 | 50.0 | 50.0 | 05/29/12 |
| 12E0990-03 [MW-3N] | B052374 | 50.0 | 50.0 | 05/29/12 |
| 12E0990-04 [MW-4N] | B052374 | 50.0 | 50.0 | 05/29/12 |
| 12E0990-05 [MW-5] | B052374 | 50.0 | 50.0 | 05/29/12 |
| 12E0990-06 [US] | B052374 | 50.0 | 50.0 | 05/29/12 |
| 12E0990-07 [DS] | B052374 | 50.0 | 50.0 | 05/29/12 |

**Prep Method: SW-846 7470A Prep-SW-846 7470A**

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 12E0990-03 [MW-3N] | B052335 | 6.00 | 6.00 | 05/29/12 |
| 12E0990-04 [MW-4N] | B052335 | 6.00 | 6.00 | 05/29/12 |
| 12E0990-05 [MW-5] | B052335 | 6.00 | 6.00 | 05/29/12 |
| 12E0990-06 [US] | B052335 | 6.00 | 6.00 | 05/29/12 |
| 12E0990-07 [DS] | B052335 | 6.00 | 6.00 | 05/29/12 |

**Prep Method: SW-846 7470A Prep-SW-846 7470A**

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 12E0990-01 [MW-1N] | B052354 | 6.00 | 6.00 | 05/29/12 |
| 12E0990-02 [MW-2N] | B052354 | 6.00 | 6.00 | 05/29/12 |

**Prep Method: SW-846 5030B-SW-846 8260B**

| Lab Number [Field ID] | Batch | Initial [mL] | Final [mL] | Date |
|---|---|---|---|---|
| 12E0990-01 [MW-1N] | B052366 | 5 | 5.00 | 05/29/12 |
| 12E0990-02 [MW-2N] | B052366 | 5 | 5.00 | 05/29/12 |
| 12E0990-03 [MW-3N] | B052366 | 5 | 5.00 | 05/29/12 |
| 12E0990-04 [MW-4N] | B052366 | 5 | 5.00 | 05/29/12 |
| 12E0990-05 [MW-5] | B052366 | 5 | 5.00 | 05/29/12 |
| 12E0990-06 [US] | B052366 | 5 | 5.00 | 05/29/12 |
| 12E0990-07 [DS] | B052366 | 5 | 5.00 | 05/29/12 |

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## QUALITY CONTROL

### Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B052366 - SW-846 5030B** | | | | | | | | | | |
| **Blank (B052366-BLK1)** | | | | Prepared: 05/29/12 Analyzed: 05/30/12 | | | | | | |
| Acetone | 2.5 | 50 | µg/L | | | | | | | J |
| Acrylonitrile | ND | 5.0 | µg/L | | | | | | | |
| Benzene | ND | 1.0 | µg/L | | | | | | | |
| Bromochloromethane | ND | 1.0 | µg/L | | | | | | | |
| Bromodichloromethane | ND | 0.50 | µg/L | | | | | | | |
| Bromoform | ND | 1.0 | µg/L | | | | | | | |
| Bromomethane | 1.8 | 2.0 | µg/L | | | | | | | J |
| 2-Butanone (MEK) | ND | 20 | µg/L | | | | | | | |
| Carbon Disulfide | 0.12 | 2.0 | µg/L | | | | | | | J |
| Carbon Tetrachloride | ND | 5.0 | µg/L | | | | | | | |
| Chlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| Chlorodibromomethane | ND | 0.50 | µg/L | | | | | | | |
| Chloroethane | ND | 2.0 | µg/L | | | | | | | |
| Chloroform | ND | 2.0 | µg/L | | | | | | | |
| Chloromethane | ND | 2.0 | µg/L | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 5.0 | µg/L | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.50 | µg/L | | | | | | | |
| Dibromomethane | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 2.0 | µg/L | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | | | | | | | |
| 1,1-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| cis-1,2-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| trans-1,2-Dichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.50 | µg/L | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.50 | µg/L | | | | | | | |
| Ethylbenzene | ND | 1.0 | µg/L | | | | | | | |
| 2-Hexanone (MBK) | ND | 10 | µg/L | | | | | | | |
| Iodomethane | 0.87 | 10 | µg/L | | | | | | | J |
| Methylene Chloride | ND | 5.0 | µg/L | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 10 | µg/L | | | | | | | |
| Styrene | ND | 1.0 | µg/L | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | µg/L | | | | | | | |
| Tetrachloroethylene | ND | 1.0 | µg/L | | | | | | | |
| Toluene | ND | 1.0 | µg/L | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | | | | | | | |
| Trichloroethylene | ND | 1.0 | µg/L | | | | | | | |
| Trichlorofluoromethane (Freon 11) | ND | 2.0 | µg/L | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | µg/L | | | | | | | |
| Vinyl Acetate | ND | 20 | µg/L | | | | | | | |
| Vinyl Chloride | ND | 2.0 | µg/L | | | | | | | |
| m+p Xylene | ND | 2.0 | µg/L | | | | | | | |
| o-Xylene | ND | 1.0 | µg/L | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *26.4* | | µg/L | 25.0 | | 106 | 70-130 | | | |
| Surrogate: Toluene-d8 | *25.1* | | µg/L | 25.0 | | 100 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | *24.4* | | µg/L | 25.0 | | 97.5 | 70-130 | | | |

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## QUALITY CONTROL

### Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B052366 - SW-846 5030B** | | | | | | | | | | | |
| **LCS (B052366-BS1)** | | | | Prepared: 05/29/12 Analyzed: 05/30/12 | | | | | | | |
| Acetone | 93.6 | 50 | µg/L | 100 | | 93.6 | 70-160 | | 25 | | † |
| Acrylonitrile | 9.79 | 5.0 | µg/L | 10.0 | | 97.9 | 70-130 | | 25 | | |
| Benzene | 10.8 | 1.0 | µg/L | 10.0 | | 108 | 70-130 | | 25 | | |
| Bromochloromethane | 11.3 | 1.0 | µg/L | 10.0 | | 113 | 70-130 | | 25 | | |
| Bromodichloromethane | 10.0 | 0.50 | µg/L | 10.0 | | 100 | 70-130 | | 25 | | |
| Bromoform | 10.5 | 1.0 | µg/L | 10.0 | | 105 | 70-130 | | 25 | | |
| Bromomethane | 7.30 | 2.0 | µg/L | 10.0 | | 73.0 | 40-160 | | 25 | V-20 | † |
| 2-Butanone (MEK) | 93.0 | 20 | µg/L | 100 | | 93.0 | 40-160 | | 25 | | † |
| Carbon Disulfide | 10.7 | 2.0 | µg/L | 10.0 | | 107 | 70-130 | | 25 | | |
| Carbon Tetrachloride | 10.6 | 5.0 | µg/L | 10.0 | | 106 | 70-130 | | 25 | | |
| Chlorobenzene | 11.7 | 1.0 | µg/L | 10.0 | | 117 | 70-130 | | 25 | | |
| Chlorodibromomethane | 10.2 | 0.50 | µg/L | 10.0 | | 102 | 70-130 | | 25 | | |
| Chloroethane | 8.64 | 2.0 | µg/L | 10.0 | | 86.4 | 70-130 | | 25 | | |
| Chloroform | 11.3 | 2.0 | µg/L | 10.0 | | 113 | 70-130 | | 25 | | |
| Chloromethane | 8.89 | 2.0 | µg/L | 10.0 | | 88.9 | 40-160 | | 25 | | † |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10.7 | 5.0 | µg/L | 10.0 | | 107 | 70-130 | | 25 | | |
| 1,2-Dibromoethane (EDB) | 11.2 | 0.50 | µg/L | 10.0 | | 112 | 70-130 | | 25 | | |
| Dibromomethane | 10.7 | 1.0 | µg/L | 10.0 | | 107 | 70-130 | | 25 | | |
| 1,2-Dichlorobenzene | 12.1 | 1.0 | µg/L | 10.0 | | 121 | 70-130 | | 25 | | |
| 1,4-Dichlorobenzene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | 70-130 | | 25 | | |
| trans-1,4-Dichloro-2-butene | 7.60 | 2.0 | µg/L | 10.0 | | 76.0 | 70-130 | | 25 | | |
| 1,1-Dichloroethane | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | | 25 | | |
| 1,2-Dichloroethane | 11.9 | 1.0 | µg/L | 10.0 | | 119 | 70-130 | | 25 | | |
| 1,1-Dichloroethylene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | 70-130 | | 25 | | |
| cis-1,2-Dichloroethylene | 10.7 | 1.0 | µg/L | 10.0 | | 107 | 70-130 | | 25 | | |
| trans-1,2-Dichloroethylene | 10.9 | 1.0 | µg/L | 10.0 | | 109 | 70-130 | | 25 | | |
| 1,2-Dichloropropane | 10.3 | 1.0 | µg/L | 10.0 | | 103 | 70-130 | | 25 | | |
| cis-1,3-Dichloropropene | 9.71 | 0.50 | µg/L | 10.0 | | 97.1 | 70-130 | | 25 | | |
| trans-1,3-Dichloropropene | 11.5 | 0.50 | µg/L | 10.0 | | 115 | 70-130 | | 25 | | |
| Ethylbenzene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | | 25 | | |
| 2-Hexanone (MBK) | 98.8 | 10 | µg/L | 100 | | 98.8 | 70-160 | | 25 | | † |
| **Iodomethane** | 19.1 | 10 | µg/L | 10.0 | | **191** | * 70-130 | | 25 | L-02 | |
| Methylene Chloride | 9.59 | 5.0 | µg/L | 10.0 | | 95.9 | 70-130 | | 25 | | |
| 4-Methyl-2-pentanone (MIBK) | 96.4 | 10 | µg/L | 100 | | 96.4 | 70-160 | | 25 | | † |
| Styrene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | 70-130 | | 25 | | |
| 1,1,1,2-Tetrachloroethane | 10.4 | 1.0 | µg/L | 10.0 | | 104 | 70-130 | | 25 | | |
| 1,1,2,2-Tetrachloroethane | 10.1 | 0.50 | µg/L | 10.0 | | 101 | 70-130 | | 25 | | |
| Tetrachloroethylene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | 70-130 | | 25 | | |
| Toluene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | | 25 | | |
| 1,1,1-Trichloroethane | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | | 25 | | |
| 1,1,2-Trichloroethane | 10.3 | 1.0 | µg/L | 10.0 | | 103 | 70-130 | | 25 | | |
| Trichloroethylene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | 70-130 | | 25 | | |
| Trichlorofluoromethane (Freon 11) | 11.2 | 2.0 | µg/L | 10.0 | | 112 | 70-130 | | 25 | | |
| 1,2,3-Trichloropropane | 10.9 | 2.0 | µg/L | 10.0 | | 109 | 70-130 | | 25 | | |
| Vinyl Acetate | 94.4 | 20 | µg/L | 100 | | 94.4 | 70-130 | | 25 | | |
| Vinyl Chloride | 9.09 | 2.0 | µg/L | 10.0 | | 90.9 | 40-160 | | 25 | | † |
| m+p Xylene | 23.6 | 2.0 | µg/L | 20.0 | | 118 | 70-130 | | 25 | | |
| o-Xylene | 12.0 | 1.0 | µg/L | 10.0 | | 120 | 70-130 | | 25 | | |
| Surrogate: 1,2-Dichloroethane-d4 | *26.4* | | µg/L | 25.0 | | 106 | 70-130 | | | | |
| Surrogate: Toluene-d8 | *24.9* | | µg/L | 25.0 | | 99.8 | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *24.7* | | µg/L | 25.0 | | 98.7 | 70-130 | | | | |

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## QUALITY CONTROL

### Volatile Organic Compounds by GC/MS - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B052366 - SW-846 5030B** | | | | | | | | | | | | |
| **LCS Dup (B052366-BSD1)** | | | | Prepared: 05/29/12 Analyzed: 05/30/12 | | | | | | | | |
| Acetone | 90.2 | 50 | µg/L | 100 | | 90.2 | | 70-160 | 3.71 | 25 | | † |
| Acrylonitrile | 9.65 | 5.0 | µg/L | 10.0 | | 96.5 | | 70-130 | 1.44 | 25 | | |
| Benzene | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | 2.72 | 25 | | |
| Bromochloromethane | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | 1.79 | 25 | | |
| Bromodichloromethane | 9.97 | 0.50 | µg/L | 10.0 | | 99.7 | | 70-130 | 0.600 | 25 | | |
| Bromoform | 10.8 | 1.0 | µg/L | 10.0 | | 108 | | 70-130 | 3.18 | 25 | | |
| Bromomethane | 8.42 | 2.0 | µg/L | 10.0 | | 84.2 | | 40-160 | 14.2 | 25 | V-20 | † |
| 2-Butanone (MEK) | 90.2 | 20 | µg/L | 100 | | 90.2 | | 40-160 | 2.98 | 25 | | † |
| Carbon Disulfide | 10.2 | 2.0 | µg/L | 10.0 | | 102 | | 70-130 | 4.60 | 25 | | |
| Carbon Tetrachloride | 10.2 | 5.0 | µg/L | 10.0 | | 102 | | 70-130 | 3.83 | 25 | | |
| Chlorobenzene | 11.5 | 1.0 | µg/L | 10.0 | | 115 | | 70-130 | 1.21 | 25 | | |
| Chlorodibromomethane | 10.3 | 0.50 | µg/L | 10.0 | | 103 | | 70-130 | 1.17 | 25 | | |
| Chloroethane | 8.75 | 2.0 | µg/L | 10.0 | | 87.5 | | 70-130 | 1.27 | 25 | | |
| Chloroform | 11.0 | 2.0 | µg/L | 10.0 | | 110 | | 70-130 | 2.50 | 25 | | |
| Chloromethane | 8.63 | 2.0 | µg/L | 10.0 | | 86.3 | | 40-160 | 2.97 | 25 | | † |
| 1,2-Dibromo-3-chloropropane (DBCP) | 10.4 | 5.0 | µg/L | 10.0 | | 104 | | 70-130 | 2.37 | 25 | | |
| 1,2-Dibromoethane (EDB) | 10.8 | 0.50 | µg/L | 10.0 | | 108 | | 70-130 | 3.37 | 25 | | |
| Dibromomethane | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | 3.85 | 25 | | |
| 1,2-Dichlorobenzene | 11.8 | 1.0 | µg/L | 10.0 | | 118 | | 70-130 | 2.43 | 25 | | |
| 1,4-Dichlorobenzene | 11.0 | 1.0 | µg/L | 10.0 | | 110 | | 70-130 | 4.37 | 25 | | |
| trans-1,4-Dichloro-2-butene | 7.50 | 2.0 | µg/L | 10.0 | | 75.0 | | 70-130 | 1.32 | 25 | | |
| 1,1-Dichloroethane | 10.7 | 1.0 | µg/L | 10.0 | | 107 | | 70-130 | 2.68 | 25 | | |
| 1,2-Dichloroethane | 11.8 | 1.0 | µg/L | 10.0 | | 118 | | 70-130 | 1.35 | 25 | | |
| 1,1-Dichloroethylene | 10.7 | 1.0 | µg/L | 10.0 | | 107 | | 70-130 | 2.40 | 25 | | |
| cis-1,2-Dichloroethylene | 10.3 | 1.0 | µg/L | 10.0 | | 103 | | 70-130 | 3.53 | 25 | | |
| trans-1,2-Dichloroethylene | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | 2.61 | 25 | | |
| 1,2-Dichloropropane | 10.6 | 1.0 | µg/L | 10.0 | | 106 | | 70-130 | 3.17 | 25 | | |
| cis-1,3-Dichloropropene | 9.71 | 0.50 | µg/L | 10.0 | | 97.1 | | 70-130 | 0.00 | 25 | | |
| trans-1,3-Dichloropropene | 11.7 | 0.50 | µg/L | 10.0 | | 117 | | 70-130 | 1.63 | 25 | | |
| Ethylbenzene | 11.3 | 1.0 | µg/L | 10.0 | | 113 | | 70-130 | 0.978 | 25 | | |
| 2-Hexanone (MBK) | 94.1 | 10 | µg/L | 100 | | 94.1 | | 70-160 | 4.82 | 25 | | † |
| **Iodomethane** | 15.8 | 10 | µg/L | 10.0 | | **158** | * | 70-130 | 19.0 | 25 | L-02 | |
| Methylene Chloride | 9.66 | 5.0 | µg/L | 10.0 | | 96.6 | | 70-130 | 0.727 | 25 | | |
| 4-Methyl-2-pentanone (MIBK) | 94.0 | 10 | µg/L | 100 | | 94.0 | | 70-160 | 2.58 | 25 | | † |
| Styrene | 11.4 | 1.0 | µg/L | 10.0 | | 114 | | 70-130 | 0.440 | 25 | | |
| 1,1,1,2-Tetrachloroethane | 10.5 | 1.0 | µg/L | 10.0 | | 105 | | 70-130 | 0.864 | 25 | | |
| 1,1,2,2-Tetrachloroethane | 9.55 | 0.50 | µg/L | 10.0 | | 95.5 | | 70-130 | 5.30 | 25 | | |
| Tetrachloroethylene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | 2.30 | 25 | | |
| Toluene | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | 0.358 | 25 | | |
| 1,1,1-Trichloroethane | 11.2 | 1.0 | µg/L | 10.0 | | 112 | | 70-130 | 0.178 | 25 | | |
| 1,1,2-Trichloroethane | 10.4 | 1.0 | µg/L | 10.0 | | 104 | | 70-130 | 1.06 | 25 | | |
| Trichloroethylene | 11.1 | 1.0 | µg/L | 10.0 | | 111 | | 70-130 | 0.988 | 25 | | |
| Trichlorofluoromethane (Freon 11) | 10.9 | 2.0 | µg/L | 10.0 | | 109 | | 70-130 | 2.63 | 25 | | |
| 1,2,3-Trichloropropane | 10.6 | 2.0 | µg/L | 10.0 | | 106 | | 70-130 | 2.71 | 25 | | |
| Vinyl Acetate | 80.5 | 20 | µg/L | 100 | | 80.5 | | 70-130 | 15.9 | 25 | | |
| Vinyl Chloride | 8.93 | 2.0 | µg/L | 10.0 | | 89.3 | | 40-160 | 1.78 | 25 | | † |
| m+p Xylene | 23.4 | 2.0 | µg/L | 20.0 | | 117 | | 70-130 | 0.935 | 25 | | |
| o-Xylene | 12.2 | 1.0 | µg/L | 10.0 | | 122 | | 70-130 | 1.82 | 25 | | |
| Surrogate: 1,2-Dichloroethane-d4 | *25.9* | | µg/L | 25.0 | | 104 | | 70-130 | | | | |
| Surrogate: Toluene-d8 | *25.1* | | µg/L | 25.0 | | 100 | | 70-130 | | | | |
| Surrogate: 4-Bromofluorobenzene | *25.3* | | µg/L | 25.0 | | 101 | | 70-130 | | | | |

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## QUALITY CONTROL

### Metals Analyses (Total) - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B052335 - SW-846 7470A Prep** | | | | | | | | | | |
| **Blank (B052335-BLK1)** | | | | Prepared & Analyzed: 05/29/12 | | | | | | |
| Mercury | ND | 0.10 | µg/L | | | | | | | |
| **LCS (B052335-BS1)** | | | | Prepared & Analyzed: 05/29/12 | | | | | | |
| Mercury | 2.04 | 0.10 | µg/L | 2.00 | | 102 | 80-120 | | 20 | |
| **LCS Dup (B052335-BSD1)** | | | | Prepared & Analyzed: 05/29/12 | | | | | | |
| Mercury | 1.97 | 0.10 | µg/L | 2.00 | | 98.4 | 80-120 | 3.36 | 20 | |
| **Duplicate (B052335-DUP1)** | **Source: 12E0990-03** | | | Prepared & Analyzed: 05/29/12 | | | | | | |
| Mercury | ND | 0.10 | µg/L | | ND | | | NC | 20 | |
| **Matrix Spike (B052335-MS1)** | **Source: 12E0990-03** | | | Prepared & Analyzed: 05/29/12 | | | | | | |
| Mercury | 1.89 | 0.10 | µg/L | 2.00 | ND | 94.5 | 75-125 | | 20 | |
| **Batch B052354 - SW-846 7470A Prep** | | | | | | | | | | |
| **Blank (B052354-BLK1)** | | | | Prepared & Analyzed: 05/29/12 | | | | | | |
| Mercury | ND | 0.10 | µg/L | | | | | | | |
| **LCS (B052354-BS1)** | | | | Prepared & Analyzed: 05/29/12 | | | | | | |
| Mercury | 1.85 | 0.10 | µg/L | 2.00 | | 92.5 | 80-120 | | 20 | |
| **LCS Dup (B052354-BSD1)** | | | | Prepared & Analyzed: 05/29/12 | | | | | | |
| Mercury | 1.86 | 0.10 | µg/L | 2.00 | | 92.8 | 80-120 | 0.368 | 20 | |
| **Batch B052374 - SM 3030C** | | | | | | | | | | |
| **Blank (B052374-BLK1)** | | | | Prepared & Analyzed: 05/29/12 | | | | | | |
| Arsenic | ND | 0.80 | µg/L | | | | | | | |
| Barium | ND | 20 | µg/L | | | | | | | |
| Cadmium | ND | 1.0 | µg/L | | | | | | | |
| Chromium | 3.8 | 5.0 | µg/L | | | | | | | J |
| Lead | ND | 2.0 | µg/L | | | | | | | |
| Selenium | ND | 10 | µg/L | | | | | | | |
| Silver | ND | 1.0 | µg/L | | | | | | | |
| **LCS (B052374-BS1)** | | | | Prepared & Analyzed: 05/29/12 | | | | | | |
| Arsenic | 501 | 4.0 | µg/L | 500 | | 100 | 80-120 | | 20 | |
| Barium | 501 | 100 | µg/L | 500 | | 100 | 80-120 | | 20 | |
| Cadmium | 522 | 5.0 | µg/L | 500 | | 104 | 80-120 | | 20 | |
| Chromium | 513 | 10 | µg/L | 500 | | 103 | 80-120 | | 20 | |
| Lead | 505 | 10 | µg/L | 500 | | 101 | 80-120 | | 20 | |
| Selenium | 543 | 50 | µg/L | 500 | | 109 | 80-120 | | 20 | |
| Silver | 541 | 5.0 | µg/L | 500 | | 108 | 80-120 | | 20 | |

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**QUALITY CONTROL**

**Metals Analyses (Total) - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B052374 - SM 3030C** | | | | | | | | | | |
| **LCS Dup (B052374-BSD1)** | | | | Prepared & Analyzed: 05/29/12 | | | | | | |
| Arsenic | 484 | 4.0 | µg/L | 500 | | 96.9 | 80-120 | 3.36 | 20 | |
| Barium | 488 | 100 | µg/L | 500 | | 97.7 | 80-120 | 2.51 | 20 | |
| Cadmium | 514 | 5.0 | µg/L | 500 | | 103 | 80-120 | 1.51 | 20 | |
| Chromium | 504 | 10 | µg/L | 500 | | 101 | 80-120 | 1.72 | 20 | |
| Lead | 493 | 10 | µg/L | 500 | | 98.6 | 80-120 | 2.30 | 20 | |
| Selenium | 528 | 50 | µg/L | 500 | | 106 | 80-120 | 2.98 | 20 | |
| Silver | 528 | 5.0 | µg/L | 500 | | 106 | 80-120 | 2.34 | 20 | |

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**FLAG/QUALIFIER SUMMARY**

| | |
|---|---|
| * | QC result is outside of established limits. |
| † | Wide recovery limits established for difficult compound. |
| ‡ | Wide RPD limits established for difficult compound. |
| # | Data exceeded client recommended or regulatory level |
| | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded. |
| DL-04 | Elevated reporting limit due to high concentration of an interfering analyte(s). |
| J | Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag). |
| L-02 | Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side. |
| V-20 | Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound. |

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## CERTIFICATIONS

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 6020A in Water*** | |
| Arsenic | CT,NH,NY,RI,NC,ME |
| Barium | CT,NH,NY,RI,NC,ME |
| Cadmium | CT,NH,NY,RI,NC,ME |
| Chromium | CT,NH,NY,RI,NC,ME |
| Lead | CT,NH,NY,RI,NC,ME |
| Selenium | CT,NH,NY,RI,NC,ME |
| Silver | CT,NH,NY,RI,NC,ME |
| ***SW-846 7470A in Water*** | |
| Mercury | CT,NH,NY,RI,NC,ME |
| ***SW-846 8260B in Water*** | |
| Acetone | CT,NH,NY,NC,ME |
| Acrylonitrile | CT,NY,NC,ME,RI |
| Benzene | CT,NH,NY,NC,ME,RI |
| Bromochloromethane | NH,NY,NC,ME |
| Bromodichloromethane | CT,NH,NY,NC,ME,RI |
| Bromoform | CT,NH,NY,NC,ME,RI |
| Bromomethane | CT,NH,NY,NC,ME,RI |
| 2-Butanone (MEK) | CT,NH,NY,NC,ME |
| Carbon Disulfide | CT,NH,NY,NC,ME |
| Carbon Tetrachloride | CT,NH,NY,NC,ME,RI |
| Chlorobenzene | CT,NH,NY,NC,ME,RI |
| Chlorodibromomethane | CT,NH,NY,NC,ME,RI |
| Chloroethane | CT,NH,NY,NC,ME,RI |
| Chloroform | CT,NH,NY,NC,ME,RI |
| Chloromethane | CT,NH,NY,NC,ME,RI |
| 1,2-Dibromo-3-chloropropane (DBCP) | NC |
| 1,2-Dibromoethane (EDB) | NC |
| Dibromomethane | NH,NY,NC,ME |
| 1,2-Dichlorobenzene | CT,NY,NC,ME,RI |
| 1,4-Dichlorobenzene | CT,NH,NY,NC,ME,RI |
| trans-1,4-Dichloro-2-butene | NH,NY,NC,ME |
| 1,1-Dichloroethane | CT,NH,NY,NC,ME,RI |
| 1,2-Dichloroethane | CT,NH,NY,NC,ME,RI |
| 1,1-Dichloroethylene | CT,NH,NY,NC,ME,RI |
| cis-1,2-Dichloroethylene | NY,NC,ME |
| trans-1,2-Dichloroethylene | CT,NH,NY,NC,ME,RI |
| 1,2-Dichloropropane | CT,NH,NY,NC,ME,RI |
| cis-1,3-Dichloropropene | CT,NH,NY,NC,ME,RI |
| trans-1,3-Dichloropropene | CT,NH,NY,NC,ME,RI |
| Ethylbenzene | CT,NH,NY,NC,ME,RI |
| 2-Hexanone (MBK) | CT,NH,NY,NC,ME |
| Iodomethane | NC |
| Methylene Chloride | CT,NH,NY,NC,ME,RI |
| 4-Methyl-2-pentanone (MIBK) | CT,NH,NY,NC,ME |
| Styrene | CT,NH,NY,NC,ME |
| 1,1,1,2-Tetrachloroethane | CT,NH,NY,NC,ME |

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## CERTIFICATIONS

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 8260B in Water*** | |
| 1,1,2,2-Tetrachloroethane | CT,NH,NY,NC,ME,RI |
| Tetrachloroethylene | CT,NH,NY,NC,ME,RI |
| Toluene | CT,NH,NY,NC,ME,RI |
| 1,1,1-Trichloroethane | CT,NH,NY,NC,ME,RI |
| 1,1,2-Trichloroethane | CT,NH,NY,NC,ME,RI |
| Trichloroethylene | CT,NH,NY,NC,ME,RI |
| Trichlorofluoromethane (Freon 11) | CT,NH,NY,NC,ME,RI |
| 1,2,3-Trichloropropane | NH,NY,NC,ME |
| Vinyl Acetate | NH,NY,NC,ME |
| Vinyl Chloride | CT,NH,NY,NC,ME,RI |
| m+p Xylene | CT,NH,NY,NC,ME,RI |
| o-Xylene | CT,NH,NY,NC,ME,RI |

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

| Code | Description | Number | Expires |
|---|---|---|---|
| AIHA | AIHA-LAP, LLC | 100033 | 02/1/2014 |
| MA | Massachusetts DEP | M-MA100 | 06/30/2012 |
| CT | Connecticut Department of Publilc Health | PH-0567 | 09/30/2013 |
| NY | New York State Department of Health | 10899 NELAP | 04/1/2013 |
| NH | New Hampshire Environmental Lab | 2516 NELAP | 02/5/2013 |
| RI | Rhode Island Department of Health | LAO00112 | 12/30/2012 |
| NC | North Carolina Div. of Water Quality | 652 | 12/31/2012 |
| NJ | New Jersey DEP | MA007 NELAP | 06/30/2012 |
| FL | Florida Department of Health | E871027 NELAP | 06/30/2012 |
| VT | Vermont Department of Health Lead Laboratory | LL015036 | 07/30/2012 |
| WA | State of Washington Department of Ecology | C2065 | 02/23/2013 |
| ME | State of Maine | 2011028 | 06/9/2013 |
| VA | Commonwealth of Virginia | 1381 | 12/14/2012 |

# CHAIN OF CUSTODY RECORD

con-test® ANALYTICAL LABORATORY
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Fax: 413-525-6405
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www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12E0980

Company Name: E2S
Address: 3008 Anderson Dr st 102
Raleigh NC 27609
Attention: Pat Shillington
Project Location: Chatham Co Landfill
Sampled By: C. Mason, T.

Telephone: 919-787-7798
Project #
Client PO#

DATA DELIVERY (check all that apply)
O FAX O EMAIL O WEBSITE
Fax #
Email:
Format: O PDF O EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

ANALYSIS REQUESTED

| Con-Test Lab ID (laboratory use only) | Client Sample ID / Description | Collection Beginning Date/Time | Collection Ending Date/Time | Composite | Grab | *Matrix Code | Conc Code | 8260 w 97 VOCs | Total RCRA Metals | # of Containers | ** Preservation | ***Container Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | MW-1N | 5-23-12 | 14:50 | | X | GW | | X | X | | | |
| 02 | MW-2N | 5-23-12 | 14:14 | | X | GW | | X | X | | | |
| 03 | MW-3N | 5-23-12 | 15:20 | | X | GW | | X | X | | | |
| 04 | MW-4N | 5-24-12 | 13:50 | | X | GW | | X | X | | | |
| 05 | MW-5 | 5-24-12 | 13:30 | | X | GW | | X | X | | | |
| 06 | US | 5-23-12 | 15:50 | | X | SW | | X | X | | | |
| 07 | DS | 5-23-12 | 16:30 | | X | SW | | X | X | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments:
*Paula Blake 4.3 5.25.12 10:10

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

| | |
|---|---|
| Relinquished by: (signature) | Date/Time: 5/23/12 - 5:00 |
| Received by: (signature) | Date/Time: 05/23/12 - 5:00 |
| Relinquished by: (signature) | Date/Time: 05/24/12 - |
| Received by: (signature) | Date/Time: 5-24-12 6:25 |

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
O MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

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Detailed Results | Notifications

Tracking no.: 528423941676 Select time format: 12H | 24H E-mail notifications

**Delivered**

Initiated > Picked up > In transit > Delivered

Delivered
Signed for by: P.BLAKE

| Shipment Dates | Destination |
|---|---|
| Ship date May 24, 2012 | EAST LONGMEADOW, MA |
| Delivery date May 25, 2012 10:10 AM | Signature Proof of Delivery |

### Shipment Options

Help

**Hold at FedEx Location**
Hold at FedEx Location service is not available for this shipment.

### Shipment Facts

Help

| | | | |
|---|---|---|---|
| Service type | Priority Pak | Delivered to | Shipping/Receiving |
| Weight | 1.0 lbs/.5 kg | Reference | REFERRAL |

### Shipment Travel History

Help

Select time zone: Local Scan Time

All shipment travel activity is displayed in local time for the location

| Date/Time | Activity | Location | Details |
|---|---|---|---|
| May 25, 2012 10:10 AM | Delivered | EAST LONGMEADOW, MA | |
| May 25, 2012 8:11 AM | On FedEx vehicle for delivery | WINDSOR LOCKS, CT | |
| May 25, 2012 7:03 AM | At local FedEx facility | WINDSOR LOCKS, CT | |
| May 25, 2012 6:10 AM | At destination sort facility | EAST GRANBY, CT | |
| May 25, 2012 4:26 AM | Departed FedEx location | INDIANAPOLIS, IN | |
| May 24, 2012 11:32 PM | Arrived at FedEx location | INDIANAPOLIS, IN | |
| May 24, 2012 8:40 PM | Left FedEx origin facility | MECHANICSVILLE, VA | |
| May 24, 2012 7:15 PM | Picked up | MECHANICSVILLE, VA | |
| May 24, 2012 3:47 PM | Shipment information sent to FedEx | | |

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# Sample Receipt Checklist

**CLIENT NAME:** E2S **RECEIVED BY:** PB **DATE:** 5.25.12

**1) Was the chain(s) of custody relinquished and signed?** (Yes) No No CoC Included

**2) Does the chain agree with the samples?** (Yes) No

If not, explain:

**3) Are all the samples in good condition?** (Yes) No

If not, explain:

**4) How were the samples received:**

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

**Were the samples received in Temperature Compliance of (2-6°C)?** (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.3

**5) Are there Dissolved samples for the lab to filter?** Yes (No)

Who was notified _____ Date _____ Time _____

**6) Are there any RUSH or SHORT HOLDING TIME samples?** Yes (No)

Who was notified _____ Date _____ Time _____

**7) Location where samples are stored:** 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

**8) Do all samples have the proper Acid pH:** (Yes) No N/A _____

**9) Do all samples have the proper Base pH:** Yes No N/A

## Containers received at Con-Test

| | # of containers | | # of containers |
|---|---|---|---|
| 1 Liter Amber | | 8 oz amber/clear jar | |
| 500 mL Amber | | 4 oz amber/clear jar | |
| 250 mL Amber (8oz amber) | | 2 oz amber/clear jar | |
| 1 Liter Plastic | | Air Cassette | |
| 500 mL Plastic | | Hg/Hopcalite Tube | |
| 250 mL plastic | 7 | Plastic Bag / Ziploc | |
| 40 mL Vial - type listed below | 14 | PM 2.5 / PM 10 | |
| Colisure / bacteria bottle | | PUF Cartridge | |
| Dissolved Oxygen bottle | | SOC Kit | |
| Encore | | TO-17 Tubes | |
| Flashpoint bottle | | Non-ConTest Container | |
| Perchlorate Kit | | Other glass jar | |
| Other | | Other | |

Laboratory Comments:

40 mL vials: # HCl 14 # Methanol _____

# Bisulfate _____ # DI Water _____

# Thiosulfate _____ Unpreserved _____

**Time and Date Frozen:**