June 1, 2012

Mr. Ron Gilkerson
Griffin Brothers Companies
19109 West Catawba Avenue, Suite 200
Cornelius, North Carolina 28031-5613

RE: Semi-Annual Groundwater Sampling Report (32)
North Mecklenburg Landfill
Huntersville, North Carolina
Project No. EP-1217

Dear Mr. Gilkerson:

Enviro-Pro, P.C. is pleased to submit this report which describes the field sampling activities and summarizes the first 2012 semi-annual sampling event analytical results for the subject site.

Enviro-Pro appreciates the opportunity to continue to provide our environmental services on your project. Please contact me at (803) 547-4955 if you have any questions concerning this Report or when we can be of further service.

Sincerely,
ENVIRO-PRO, P.C.

Thomas H. Bolyard

Thomas H. Bolyard, P.G.
Senior Hydrogeolgist

2646 Farmlake Lane • Fort Mill, SC 29708 • (803) 547-4955 • Fax (803) 548-2233

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).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- 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):**

Enviro-Pro, P.C.

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

Name: Thomas H. Bolyard, P.G. Phone: (803) 547-4955

E-mail: enviropro@comporium.net

| Facility name: | Facility Address: | Facility Permit # | NC Landfill Rule: (.0500 or .1600) | Actual sampling dates (e.g., October 20-24, 2006) |
|---|---|---|---|---|
| North Mecklenburg C&D Landfill | 15300 Holbrooks Road, Huntersville, NC | 60-13 | .0500 | April 11, 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.**

Thomas H. Bolyard, P.G. — Facility Representative Name (Print)
Senior Hydrogeologist — Title
(803) 547-4955 — (Area Code) Telephone Number

Thomas H. Bolyard — Signature
6/2/12 — Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

NORTH CAROLINA LICENSED SEAL 492 GEOLOGIST THOMAS H. BOLYARD

Revised 01/2007

# 1st SEMI-ANNUAL MONITORING REPORT (32)

North Mecklenburg Landfill
15300 Holbrooks Road
Huntersville, North Carolina

Prepared for:
Mr. Ron Gilkerson
Griffin Brothers Companies
19109 West Catawba Avenue, Suite 200
Cornelius, North Carolina 28031-5613

Prepared by:
Enviro-Pro, P.C.
2646 Farmlake Lane
Fort Mill, South Carolina 29708

Project Number EP-1217

June 1, 2012

NORTH CAROLINA LICENSED SEAL 492 GEOLOGIST THOMAS H. BOLYARD

**Field Sampling Activities:**

On April 11, 2012 Enviro-Pro (EP) personnel collected groundwater samples from on-site perimeter monitor wells MW-1, MW-4, MW-5, MW-6, MW-10, and MW-11. The approximate locations of these wells are indicated on Figure 1. The procedures for groundwater measurement and sampling were as follows:

1) Initially, the monitor well caps were removed to allow the groundwater levels to equilibrate to the ambient atmospheric pressure. Next, the depth to groundwater from a measuring point on top of the well casing was recorded. Water level measurements were obtained using an electronic water level meter. The water level probe was decontaminated between monitor wells with deionized water and isopropyl alcohol.

2) At least three well volumes were removed from each monitor well to purge stagnant water and to ensure that fresh formation water would be sampled. Purging was conducted using dedicated disposable bailers.

3) Each well was then sampled utilizing laboratory prepared containers, labeled, and packed on ice in a portable cooler for shipment to Pace Analytical Services, Inc., a North Carolina-certified laboratory in Huntersville, North Carolina. Chain-of-Custody documentation is included with the analytical reports in Appendix A.

4) Quality assurance/quality control (QA/QC) measures in the field included wearing disposable sample gloves during sampling activities and changing them between sample locations to protect the groundwater samples from cross-contamination. Analytical QA/QC included a field (bailer rinse) blank and a trip blank analyzed for volatile organic compounds (VOCs) by Method 8260B. Only clean, laboratory supplied sample containers were utilized.

The field information obtained during well purging is summarized on the Well Development, Purge, and Sample Record included as Appendix B. Groundwater levels decreased in one of the monitor wells and increased in five of the monitor wells since the previous sampling event on October 18, 2011.

**Laboratory Test Results**

In accordance with regulatory requirements, the six monitor well samples were analyzed for Appendix I metals and volatile organic compounds (VOCs) by Pace Analytical Services. In addition, groundwater samples were analyzed for alkalinity, total dissolved solids (TDS), chloride, and sulfate. Pace's Report of Laboratory Analysis is attached as Appendix A, with a summary of groundwater analytical results included in Table 1.

Laboratory test results indicate low concentrations of the metal barium in all the monitor wells sampled. Low concentrations of cobalt, copper, nickel, and zinc were detected in several of the wells sampled. The levels identified for these metals are representative of those naturally occurring in the bedrock, soil, and groundwater in this area. Inorganic compounds alkalinity, total dissolved solids (TDS), sulfate, and chloride were detected in all the wells sampled. TDS was detected at a concentration above its 2L Standard in wells MW-6 and MW-11. Laboratory test results indicate that acetone (believed to be a laboratory contaminant) was detected in monitor wells MW-1, MW-4, MW-5, MW-11, and the field blank at concentrations below its 2L Standard. No other Appendix I VOC's or metals were detected above their respective analytical limits in the monitor wells, trip blank, or field blank.

The next sampling event for the North Mecklenburg C&D Landfill site is scheduled for October 2012.

# TABLE 1

SUMMARY OF ANALYTICAL RESULTS
North Mecklenburg C&D Landfill
Huntersville, North Carolina
June 2, 2012

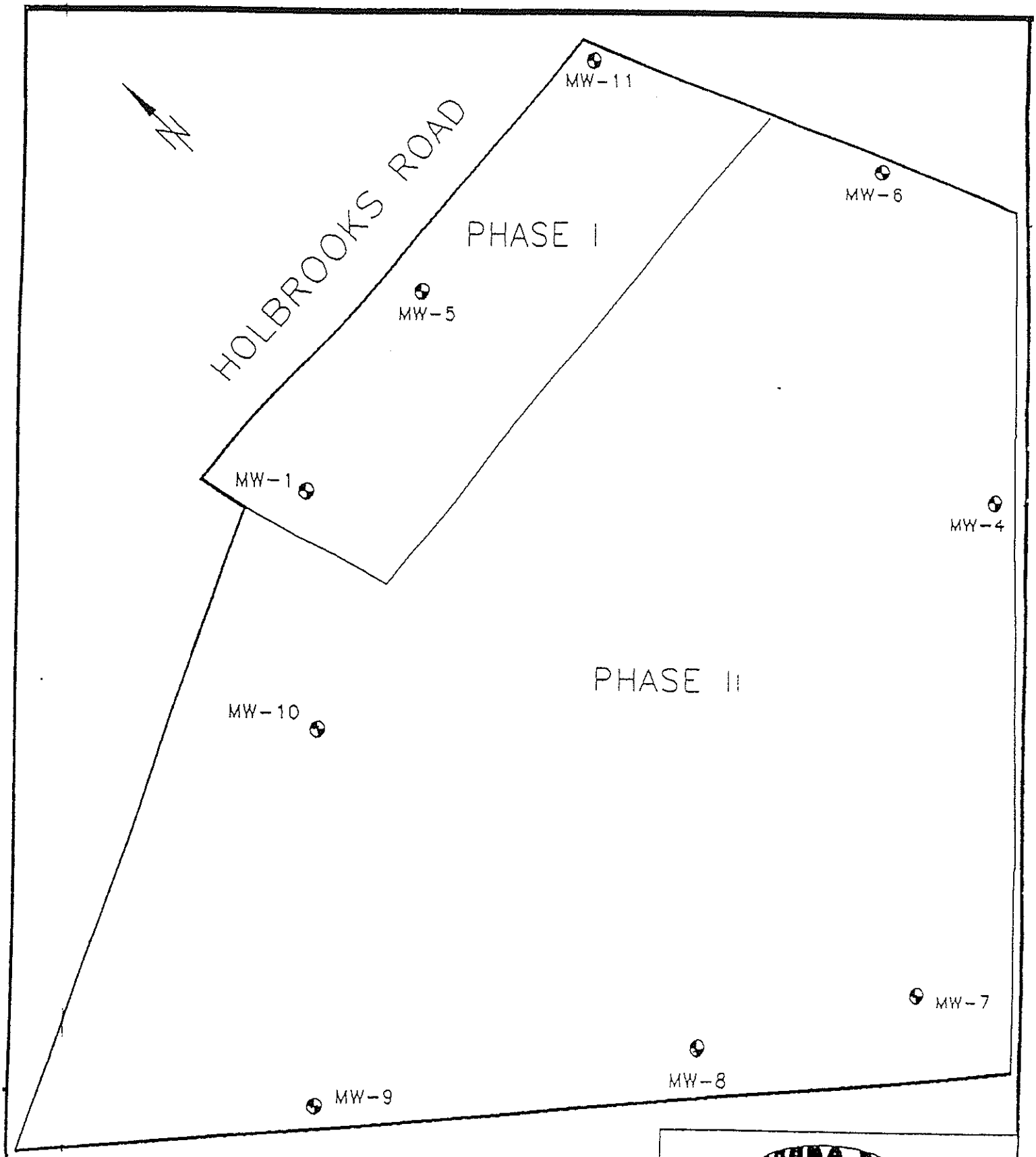
| Analytical Method → | 8260 | 6010C | 6010C | 6010C | 7470A | 6010C | 2320B | 2540C | 300.0 | 300.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| Contaminant of Concern → / Sample ID | Acetone | Barium | Cobalt | Copper | Nickel | Zinc | Alkalinity | TDS | Sulfate | Chloride |
| MW-1 | 19.3 | 0.0355 | BDL | BDL | BDL | BDL | 442 | 493 | 35.9 | BDL |
| MW-4 | 4.6 | 0.530 | 0.0150 | BDL | BDL | BDL | 343 | 365 | BDL | 5.37 |
| MW-5 | 6.3 | 0.250 | BDL | 0.0071 | BDL | 0.0110 | 190 | 438 | 97.6 | 23.2 |
| MW-6 | BDL | 0.226 | BDL | BDL | BDL | 0.0121 | 559 | **714** | 20.6 | 31.2 |
| MW-10 | BDL | 0.0849 | 0.0166 | BDL | BDL | BDL | 236 | 301 | BDL | 15.9 |
| MW-11 | 3.0 | 0.380 | BDL | BDL | 0.0130 | BDL | 579 | **1370** | 93.7 | 67.1 |
| Field Blank | 6.7 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Trip Blank | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **2L Standard** | **6,000** | **0.7** | **NE** | **1** | **0.1** | **1** | **NE** | **500** | **250** | **250** |

**Notes:** All metals/Inorganic compounds are presented in milligrams per liter (mg/l)
BDL = Below detection limit
All VOCs are presented in micrograms per liter (ug/l)
NE = None Established
TDS = Total Dissolved Solids

# TABLE 2
## HISTORICAL SUMMARY OF GROUNDWATER RESULTS
North Mecklenburg C&D Landfill
Holbrooks Road
Huntersville, North Carolina

| Sample ID | 10/18/2012 | | | | | | | | | | | | | 4/11/2012 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Acetone | Chloroform | Arsenic | Barium | Cobalt | Copper | Vanadium | Nickel | Zinc | Alkalinity | TDS | Sulfate | Chloride | Acetone | Barium | Cobalt | Copper | Nickel | Zinc | Alkalinity | TDS | Sulfate | Chloride |
| MW-1 | 2.6 | BDL | BDL | 0.0252 | BDL | BDL | BDL | BDL | BDL | 348 | 353 | 14.6 | BDL | 19.3 | 0.0355 | BDL | BDL | BDL | BDL | 442 | 493 | 35.9 | BDL |
| MW-4 | 5 | BDL | 0.0076 | 0.557 | 0.0102 | BDL | BDL | BDL | BDL | 332 | 427 | BDL | 6.23 | 4.6 | 0.530 | 0.0150 | BDL | BDL | BDL | 343 | 365 | BDL | 5.37 |
| MW-5 | 3.8 | BDL | BDL | 0.247 | BDL | 0.0273 | 0.0063 | BDL | 0.0279 | 343 | 344 | 14.6 | BDL | 6.3 | 0.250 | BDL | 0.0071 | BDL | 0.0110 | 190 | 438 | 97.6 | 23.2 |
| MW-6 | 2.7 | BDL | BDL | 0.255 | BDL | BDL | BDL | 0.0117 | 0.0260 | 675 | 692 | 26.1 | 27 | BDL | 0.226 | BDL | BDL | BDL | 0.0121 | 559 | **714** | 20.6 | 31.2 |
| MW-10 | 2.6 | BDL | BDL | 0.11 | 0.0064 | BDL | 0.0071 | BDL | 0.0146 | 188 | 244 | BDL | 11.3 | BDL | 0.0849 | 0.0166 | BDL | BDL | BDL | 236 | 301 | BDL | 15.9 |
| MW-11 | 3.2 | BDL | BDL | 0.343 | BDL | BDL | BDL | 0.0181 | BDL | 331 | 382 | BDL | 6.18 | 3.0 | 0.380 | BDL | BDL | 0.0130 | BDL | 579 | **1370** | 93.7 | 67.1 |
| Field Blank | 46.9 | 0.35 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 6.7 | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Trip Blank | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| **2L Standard** | **6,000** | **70** | **0.01** | **0.7** | **NE** | **1** | **NE** | **0.1** | **1** | **NE** | **500** | **250** | **250** | **6,000** | **0.7** | **NE** | **1** | **0.1** | **1** | **NE** | **500** | **250** | **250** |

**Notes:** All metals presented in milligrams per liter (mg/l)
All VOCs presented in micrograms per liter (ug/L)
BDL = Below detection limit
NE = None Established
TDS = Total Dissolved Solids
Shaded/Bolded areas represent parameters that exceed their 2L Standards




ENVIRO-PRO
PROFESSIONAL CORPORATION

FIGURE 1: SITE PLAN
N. Mecklenburg Landfill
Huntersville, NC

| PROJECT # | DRAWN BY | SCALE | DATE |
|---|---|---|---|
| EP-1217 | THB | 1"=200' | 9/23/96 |

# APPENDIX A

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
205 East Meadow Road - Suite A
Eden, NC 27288
(336)623-8921

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

April 27, 2012

Tom Bolyard
Enviro Pro
2646 Farm Lake Lane
Fort Mill, SC 29708

RE: Project: NMLF EP-1217
Pace Project No.: 92116412

Dear Tom Bolyard:
Enclosed are the analytical results for sample(s) received by the laboratory on April 13, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Renee Spencer

Renee Spencer for
Charles Hardin
tripp.hardin@pacelabs.com
Project Manager

Enclosures



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(704)875-9092

## CERTIFICATIONS

Project: NMLF EP-1217
Pace Project No.: 92116412

**Charlotte Certification IDs**
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Drinking Water Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460144

**Asheville Certification IDs**
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia Certification #: 00072
West Virginia Certification #: 356
Virgina/VELAP Certification #: 460147



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Huntersville, NC 28078
(704)875-9092

## SAMPLE SUMMARY

Project: NMLF EP-1217
Pace Project No.: 92116412

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| 92116412001 | MW-1 | Water | 04/11/12 07:30 | 04/13/12 15:00 |
| 92116412002 | MW-4 | Water | 04/11/12 08:00 | 04/13/12 15:00 |
| 92116412003 | MW-5 | Water | 04/11/12 08:30 | 04/13/12 15:00 |
| 92116412004 | MW-6 | Water | 04/11/12 09:00 | 04/13/12 15:00 |
| 92116412005 | MW-10 | Water | 04/11/12 09:30 | 04/13/12 15:00 |
| 92116412006 | MW-11 | Water | 04/11/12 10:00 | 04/13/12 15:00 |
| 92116412007 | Field Blank | Water | 04/11/12 09:15 | 04/13/12 15:00 |
| 92116412008 | Trip Blank | Water | 04/11/12 00:00 | 04/13/12 15:00 |



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## SAMPLE ANALYTE COUNT

Project: NMLF EP-1217
Pace Project No.: 92116412

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| 92116412001 | MW-1 | EPA 6010 | JDA | 15 | PASI-A |
| | | EPA 7470 | SHB | 1 | PASI-A |
| | | EPA 8260 | MCK | 54 | PASI-C |
| | | SM 2320B | AES | 1 | PASI-A |
| | | SM 2540C | LMD | 1 | PASI-A |
| | | EPA 300.0 | SAE | 1 | PASI-A |
| | | SM 4500-Cl-E | JDA | 1 | PASI-A |
| 92116412002 | MW-4 | EPA 6010 | JDA | 15 | PASI-A |
| | | EPA 7470 | SHB | 1 | PASI-A |
| | | EPA 8260 | MCK | 54 | PASI-C |
| | | SM 2320B | AES | 1 | PASI-A |
| | | SM 2540C | LMD | 1 | PASI-A |
| | | EPA 300.0 | SAE | 1 | PASI-A |
| | | SM 4500-Cl-E | JDA | 1 | PASI-A |
| 92116412003 | MW-5 | EPA 6010 | JDA | 15 | PASI-A |
| | | EPA 7470 | SHB | 1 | PASI-A |
| | | EPA 8260 | MCK | 54 | PASI-C |
| | | SM 2320B | AES | 1 | PASI-A |
| | | SM 2540C | LMD | 1 | PASI-A |
| | | EPA 300.0 | SAE | 1 | PASI-A |
| | | SM 4500-Cl-E | JDA | 1 | PASI-A |
| 92116412004 | MW-6 | EPA 6010 | JDA | 15 | PASI-A |
| | | EPA 7470 | SHB | 1 | PASI-A |
| | | EPA 8260 | MCK | 54 | PASI-C |
| | | SM 2320B | AES | 1 | PASI-A |
| | | SM 2540C | LMD | 1 | PASI-A |
| | | EPA 300.0 | SAE | 1 | PASI-A |
| | | SM 4500-Cl-E | JDA | 1 | PASI-A |
| 92116412005 | MW-10 | EPA 6010 | JDA | 15 | PASI-A |
| | | EPA 7470 | SHB | 1 | PASI-A |
| | | EPA 8260 | MCK | 54 | PASI-C |
| | | SM 2320B | AES | 1 | PASI-A |
| | | SM 2540C | LMD | 1 | PASI-A |
| | | EPA 300.0 | SAE | 1 | PASI-A |
| | | SM 4500-Cl-E | JDA | 1 | PASI-A |
| 92116412006 | MW-11 | EPA 6010 | JDA | 15 | PASI-A |
| | | EPA 7470 | SHB | 1 | PASI-A |



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## SAMPLE ANALYTE COUNT

Project: NMLF EP-1217
Pace Project No.: 92116412

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| | | EPA 8260 | MCK | 54 | PASI-C |
| | | SM 2320B | AES | 1 | PASI-A |
| | | SM 2540C | LMD | 1 | PASI-A |
| | | EPA 300.0 | SAE | 1 | PASI-A |
| | | SM 4500-Cl-E | JDA | 1 | PASI-A |
| **92116412007** | **Field Blank** | EPA 8260 | MCK | 54 | PASI-C |
| **92116412008** | **Trip Blank** | EPA 8260 | MCK | 54 | PASI-C |



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# ANALYTICAL RESULTS

Project: NMLF EP-1217
Pace Project No.: 92116412

**Sample: MW-1** **Lab ID: 92116412001** Collected: 04/11/12 07:30 Received: 04/13/12 15:00 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 ICP Groundwater** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | ND | ug/L | 6.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:47 | 7440-36-0 | |
| Arsenic | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:47 | 7440-38-2 | |
| Barium | **35.5J** | ug/L | 100 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:47 | 7440-39-3 | |
| Beryllium | ND | ug/L | 1.0 | 1.0 | 1 | 04/20/12 12:30 | 04/22/12 00:47 | 7440-41-7 | |
| Cadmium | ND | ug/L | 1.0 | 1.0 | 1 | 04/20/12 12:30 | 04/22/12 00:47 | 7440-43-9 | |
| Chromium | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:47 | 7440-47-3 | |
| Cobalt | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:47 | 7440-48-4 | |
| Copper | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:47 | 7440-50-8 | |
| Lead | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:47 | 7439-92-1 | |
| Nickel | ND | ug/L | 50.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:47 | 7440-02-0 | |
| Selenium | ND | ug/L | 10.0 | 10.0 | 1 | 04/20/12 12:30 | 04/22/12 00:47 | 7782-49-2 | |
| Silver | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:47 | 7440-22-4 | |
| Thallium | ND | ug/L | 5.5 | 5.4 | 1 | 04/20/12 12:30 | 04/22/12 00:47 | 7440-28-0 | |
| Vanadium | ND | ug/L | 25.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:47 | 7440-62-2 | |
| Zinc | ND | ug/L | 10.0 | 10.0 | 1 | 04/20/12 12:30 | 04/22/12 00:47 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | ND | ug/L | 0.20 | 0.10 | 1 | 04/23/12 16:10 | 04/24/12 13:16 | 7439-97-6 | |
| **8260 MSV Low Level Landfill** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **19.3J** | ug/L | 25.0 | 2.2 | 1 | | 04/16/12 18:17 | 67-64-1 | |
| Acrylonitrile | ND | ug/L | 10.0 | 1.9 | 1 | | 04/16/12 18:17 | 107-13-1 | |
| Benzene | ND | ug/L | 1.0 | 0.25 | 1 | | 04/16/12 18:17 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 1.0 | 0.17 | 1 | | 04/16/12 18:17 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 0.18 | 1 | | 04/16/12 18:17 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 18:17 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 0.29 | 1 | | 04/16/12 18:17 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 0.96 | 1 | | 04/16/12 18:17 | 78-93-3 | |
| Carbon disulfide | ND | ug/L | 2.0 | 1.2 | 1 | | 04/16/12 18:17 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 0.25 | 1 | | 04/16/12 18:17 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 0.23 | 1 | | 04/16/12 18:17 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 0.54 | 1 | | 04/16/12 18:17 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 0.14 | 1 | | 04/16/12 18:17 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 0.11 | 1 | | 04/16/12 18:17 | 74-87-3 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 5.0 | 2.5 | 1 | | 04/16/12 18:17 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 0.21 | 1 | | 04/16/12 18:17 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 0.27 | 1 | | 04/16/12 18:17 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 0.21 | 1 | | 04/16/12 18:17 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 04/16/12 18:17 | 95-50-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 0.33 | 1 | | 04/16/12 18:17 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | ND | ug/L | 1.0 | 1.0 | 1 | | 04/16/12 18:17 | 110-57-6 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 0.32 | 1 | | 04/16/12 18:17 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 0.12 | 1 | | 04/16/12 18:17 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 0.56 | 1 | | 04/16/12 18:17 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.19 | 1 | | 04/16/12 18:17 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.49 | 1 | | 04/16/12 18:17 | 156-60-5 | |



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# ANALYTICAL RESULTS

Project: NMLF EP-1217
Pace Project No.: 92116412

**Sample: MW-1** **Lab ID: 92116412001** Collected: 04/11/12 07:30 Received: 04/13/12 15:00 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level Landfill** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 0.27 | 1 | | 04/16/12 18:17 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.13 | 1 | | 04/16/12 18:17 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 18:17 | 10061-02-6 | |
| Ethylbenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 04/16/12 18:17 | 100-41-4 | |
| 2-Hexanone | ND | ug/L | 5.0 | 0.46 | 1 | | 04/16/12 18:17 | 591-78-6 | |
| Iodomethane | ND | ug/L | 5.0 | 0.32 | 1 | | 04/16/12 18:17 | 74-88-4 | |
| Methylene Chloride | ND | ug/L | 1.0 | 0.97 | 1 | | 04/16/12 18:17 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 0.33 | 1 | | 04/16/12 18:17 | 108-10-1 | |
| Styrene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 18:17 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.33 | 1 | | 04/16/12 18:17 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.40 | 1 | | 04/16/12 18:17 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 0.46 | 1 | | 04/16/12 18:17 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/L | 10.0 | 3.1 | 1 | | 04/16/12 18:17 | 109-99-9 | |
| Toluene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 18:17 | 108-88-3 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 0.48 | 1 | | 04/16/12 18:17 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 0.29 | 1 | | 04/16/12 18:17 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 0.47 | 1 | | 04/16/12 18:17 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 04/16/12 18:17 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 0.41 | 1 | | 04/16/12 18:17 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 0.35 | 1 | | 04/16/12 18:17 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 0.62 | 1 | | 04/16/12 18:17 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 0.66 | 1 | | 04/16/12 18:17 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 0.66 | 1 | | 04/16/12 18:17 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 0.23 | 1 | | 04/16/12 18:17 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 106 | % | 70-130 | | 1 | | 04/16/12 18:17 | 460-00-4 | |
| Dibromofluoromethane (S) | 111 | % | 70-130 | | 1 | | 04/16/12 18:17 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 106 | % | 70-130 | | 1 | | 04/16/12 18:17 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 70-130 | | 1 | | 04/16/12 18:17 | 2037-26-5 | |
| **2320B Alkalinity** | Analytical Method: SM 2320B | | | | | | | | |
| Alkalinity, Total as CaCO3 | **442000** | ug/L | 5000 | 5000 | 1 | | 04/20/12 12:50 | | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **493000** | ug/L | 25000 | 25000 | 1 | | 04/16/12 22:19 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | | |
| Sulfate | **35900J** | ug/L | 250000 | 5000 | 1 | | 04/24/12 16:23 | 14808-79-8 | |
| **4500 Chloride** | Analytical Method: SM 4500-Cl-E | | | | | | | | |
| Chloride | ND | ug/L | 5000 | 5000 | 1 | | 04/24/12 10:52 | 16887-00-6 | |



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# ANALYTICAL RESULTS

Project: NMLF EP-1217
Pace Project No.: 92116412

**Sample: MW-4** **Lab ID: 92116412002** Collected: 04/11/12 08:00 Received: 04/13/12 15:00 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 ICP Groundwater** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | ND | ug/L | 6.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:51 | 7440-36-0 | |
| Arsenic | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:51 | 7440-38-2 | |
| Barium | **530** | ug/L | 100 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:51 | 7440-39-3 | |
| Beryllium | ND | ug/L | 1.0 | 1.0 | 1 | 04/20/12 12:30 | 04/22/12 00:51 | 7440-41-7 | |
| Cadmium | ND | ug/L | 1.0 | 1.0 | 1 | 04/20/12 12:30 | 04/22/12 00:51 | 7440-43-9 | |
| Chromium | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:51 | 7440-47-3 | |
| Cobalt | **15.0** | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:51 | 7440-48-4 | |
| Copper | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:51 | 7440-50-8 | |
| Lead | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:51 | 7439-92-1 | |
| Nickel | ND | ug/L | 50.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:51 | 7440-02-0 | |
| Selenium | ND | ug/L | 10.0 | 10.0 | 1 | 04/20/12 12:30 | 04/22/12 00:51 | 7782-49-2 | |
| Silver | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:51 | 7440-22-4 | |
| Thallium | ND | ug/L | 5.5 | 5.4 | 1 | 04/20/12 12:30 | 04/22/12 00:51 | 7440-28-0 | |
| Vanadium | ND | ug/L | 25.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:51 | 7440-62-2 | |
| Zinc | ND | ug/L | 10.0 | 10.0 | 1 | 04/20/12 12:30 | 04/22/12 00:51 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | ND | ug/L | 0.20 | 0.10 | 1 | 04/23/12 16:10 | 04/24/12 13:19 | 7439-97-6 | |
| **8260 MSV Low Level Landfill** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **4.6J** | ug/L | 25.0 | 2.2 | 1 | | 04/16/12 18:34 | 67-64-1 | |
| Acrylonitrile | ND | ug/L | 10.0 | 1.9 | 1 | | 04/16/12 18:34 | 107-13-1 | |
| Benzene | ND | ug/L | 1.0 | 0.25 | 1 | | 04/16/12 18:34 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 1.0 | 0.17 | 1 | | 04/16/12 18:34 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 0.18 | 1 | | 04/16/12 18:34 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 18:34 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 0.29 | 1 | | 04/16/12 18:34 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 0.96 | 1 | | 04/16/12 18:34 | 78-93-3 | |
| Carbon disulfide | ND | ug/L | 2.0 | 1.2 | 1 | | 04/16/12 18:34 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 0.25 | 1 | | 04/16/12 18:34 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 0.23 | 1 | | 04/16/12 18:34 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 0.54 | 1 | | 04/16/12 18:34 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 0.14 | 1 | | 04/16/12 18:34 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 0.11 | 1 | | 04/16/12 18:34 | 74-87-3 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 5.0 | 2.5 | 1 | | 04/16/12 18:34 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 0.21 | 1 | | 04/16/12 18:34 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 0.27 | 1 | | 04/16/12 18:34 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 0.21 | 1 | | 04/16/12 18:34 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 04/16/12 18:34 | 95-50-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 0.33 | 1 | | 04/16/12 18:34 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | ND | ug/L | 1.0 | 1.0 | 1 | | 04/16/12 18:34 | 110-57-6 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 0.32 | 1 | | 04/16/12 18:34 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 0.12 | 1 | | 04/16/12 18:34 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 0.56 | 1 | | 04/16/12 18:34 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.19 | 1 | | 04/16/12 18:34 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.49 | 1 | | 04/16/12 18:34 | 156-60-5 | |



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# ANALYTICAL RESULTS

Project: NMLF EP-1217
Pace Project No.: 92116412

**Sample: MW-4** **Lab ID: 92116412002** Collected: 04/11/12 08:00 Received: 04/13/12 15:00 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level Landfill** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 0.27 | 1 | | 04/16/12 18:34 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.13 | 1 | | 04/16/12 18:34 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 18:34 | 10061-02-6 | |
| Ethylbenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 04/16/12 18:34 | 100-41-4 | |
| 2-Hexanone | ND | ug/L | 5.0 | 0.46 | 1 | | 04/16/12 18:34 | 591-78-6 | |
| Iodomethane | ND | ug/L | 5.0 | 0.32 | 1 | | 04/16/12 18:34 | 74-88-4 | |
| Methylene Chloride | ND | ug/L | 1.0 | 0.97 | 1 | | 04/16/12 18:34 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 0.33 | 1 | | 04/16/12 18:34 | 108-10-1 | |
| Styrene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 18:34 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.33 | 1 | | 04/16/12 18:34 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.40 | 1 | | 04/16/12 18:34 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 0.46 | 1 | | 04/16/12 18:34 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/L | 10.0 | 3.1 | 1 | | 04/16/12 18:34 | 109-99-9 | |
| Toluene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 18:34 | 108-88-3 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 0.48 | 1 | | 04/16/12 18:34 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 0.29 | 1 | | 04/16/12 18:34 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 0.47 | 1 | | 04/16/12 18:34 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 04/16/12 18:34 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 0.41 | 1 | | 04/16/12 18:34 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 0.35 | 1 | | 04/16/12 18:34 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 0.62 | 1 | | 04/16/12 18:34 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 0.66 | 1 | | 04/16/12 18:34 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 0.66 | 1 | | 04/16/12 18:34 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 0.23 | 1 | | 04/16/12 18:34 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 107 | % | 70-130 | | 1 | | 04/16/12 18:34 | 460-00-4 | |
| Dibromofluoromethane (S) | 111 | % | 70-130 | | 1 | | 04/16/12 18:34 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 107 | % | 70-130 | | 1 | | 04/16/12 18:34 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 70-130 | | 1 | | 04/16/12 18:34 | 2037-26-5 | |
| **2320B Alkalinity** | Analytical Method: SM 2320B | | | | | | | | |
| Alkalinity, Total as CaCO3 | **343000** | ug/L | 5000 | 5000 | 1 | | 04/20/12 12:50 | | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **365000** | ug/L | 25000 | 25000 | 1 | | 04/16/12 22:19 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | | |
| Sulfate | ND | ug/L | 250000 | 5000 | 1 | | 04/24/12 16:36 | 14808-79-8 | |
| **4500 Chloride** | Analytical Method: SM 4500-Cl-E | | | | | | | | |
| Chloride | **5370** | ug/L | 5000 | 5000 | 1 | | 04/24/12 10:53 | 16887-00-6 | |



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# ANALYTICAL RESULTS

Project: NMLF EP-1217
Pace Project No.: 92116412

**Sample: MW-5** Lab ID: **92116412003** Collected: 04/11/12 08:30 Received: 04/13/12 15:00 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 ICP Groundwater** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | ND | ug/L | 6.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:55 | 7440-36-0 | |
| Arsenic | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:55 | 7440-38-2 | |
| Barium | **250** | ug/L | 100 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:55 | 7440-39-3 | |
| Beryllium | ND | ug/L | 1.0 | 1.0 | 1 | 04/20/12 12:30 | 04/22/12 00:55 | 7440-41-7 | |
| Cadmium | ND | ug/L | 1.0 | 1.0 | 1 | 04/20/12 12:30 | 04/22/12 00:55 | 7440-43-9 | |
| Chromium | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:55 | 7440-47-3 | |
| Cobalt | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:55 | 7440-48-4 | |
| Copper | **7.1J** | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:55 | 7440-50-8 | |
| Lead | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:55 | 7439-92-1 | |
| Nickel | ND | ug/L | 50.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:55 | 7440-02-0 | |
| Selenium | ND | ug/L | 10.0 | 10.0 | 1 | 04/20/12 12:30 | 04/22/12 00:55 | 7782-49-2 | |
| Silver | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:55 | 7440-22-4 | |
| Thallium | ND | ug/L | 5.5 | 5.4 | 1 | 04/20/12 12:30 | 04/22/12 00:55 | 7440-28-0 | |
| Vanadium | ND | ug/L | 25.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:55 | 7440-62-2 | |
| Zinc | **11.0** | ug/L | 10.0 | 10.0 | 1 | 04/20/12 12:30 | 04/22/12 00:55 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | ND | ug/L | 0.20 | 0.10 | 1 | 04/23/12 16:10 | 04/24/12 13:21 | 7439-97-6 | |
| **8260 MSV Low Level Landfill** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **6.3J** | ug/L | 25.0 | 2.2 | 1 | | 04/16/12 18:50 | 67-64-1 | |
| Acrylonitrile | ND | ug/L | 10.0 | 1.9 | 1 | | 04/16/12 18:50 | 107-13-1 | |
| Benzene | ND | ug/L | 1.0 | 0.25 | 1 | | 04/16/12 18:50 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 1.0 | 0.17 | 1 | | 04/16/12 18:50 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 0.18 | 1 | | 04/16/12 18:50 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 18:50 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 0.29 | 1 | | 04/16/12 18:50 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 0.96 | 1 | | 04/16/12 18:50 | 78-93-3 | |
| Carbon disulfide | ND | ug/L | 2.0 | 1.2 | 1 | | 04/16/12 18:50 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 0.25 | 1 | | 04/16/12 18:50 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 0.23 | 1 | | 04/16/12 18:50 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 0.54 | 1 | | 04/16/12 18:50 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 0.14 | 1 | | 04/16/12 18:50 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 0.11 | 1 | | 04/16/12 18:50 | 74-87-3 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 5.0 | 2.5 | 1 | | 04/16/12 18:50 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 0.21 | 1 | | 04/16/12 18:50 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 0.27 | 1 | | 04/16/12 18:50 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 0.21 | 1 | | 04/16/12 18:50 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 04/16/12 18:50 | 95-50-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 0.33 | 1 | | 04/16/12 18:50 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | ND | ug/L | 1.0 | 1.0 | 1 | | 04/16/12 18:50 | 110-57-6 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 0.32 | 1 | | 04/16/12 18:50 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 0.12 | 1 | | 04/16/12 18:50 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 0.56 | 1 | | 04/16/12 18:50 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.19 | 1 | | 04/16/12 18:50 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.49 | 1 | | 04/16/12 18:50 | 156-60-5 | |



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# ANALYTICAL RESULTS

Project: NMLF EP-1217
Pace Project No.: 92116412

**Sample: MW-5** Lab ID: **92116412003** Collected: 04/11/12 08:30 Received: 04/13/12 15:00 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level Landfill** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 0.27 | 1 | | 04/16/12 18:50 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.13 | 1 | | 04/16/12 18:50 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 18:50 | 10061-02-6 | |
| Ethylbenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 04/16/12 18:50 | 100-41-4 | |
| 2-Hexanone | ND | ug/L | 5.0 | 0.46 | 1 | | 04/16/12 18:50 | 591-78-6 | |
| Iodomethane | ND | ug/L | 5.0 | 0.32 | 1 | | 04/16/12 18:50 | 74-88-4 | |
| Methylene Chloride | ND | ug/L | 1.0 | 0.97 | 1 | | 04/16/12 18:50 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 0.33 | 1 | | 04/16/12 18:50 | 108-10-1 | |
| Styrene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 18:50 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.33 | 1 | | 04/16/12 18:50 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.40 | 1 | | 04/16/12 18:50 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 0.46 | 1 | | 04/16/12 18:50 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/L | 10.0 | 3.1 | 1 | | 04/16/12 18:50 | 109-99-9 | |
| Toluene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 18:50 | 108-88-3 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 0.48 | 1 | | 04/16/12 18:50 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 0.29 | 1 | | 04/16/12 18:50 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 0.47 | 1 | | 04/16/12 18:50 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 04/16/12 18:50 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 0.41 | 1 | | 04/16/12 18:50 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 0.35 | 1 | | 04/16/12 18:50 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 0.62 | 1 | | 04/16/12 18:50 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 0.66 | 1 | | 04/16/12 18:50 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 0.66 | 1 | | 04/16/12 18:50 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 0.23 | 1 | | 04/16/12 18:50 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 107 | % | 70-130 | | 1 | | 04/16/12 18:50 | 460-00-4 | |
| Dibromofluoromethane (S) | 113 | % | 70-130 | | 1 | | 04/16/12 18:50 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 106 | % | 70-130 | | 1 | | 04/16/12 18:50 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 70-130 | | 1 | | 04/16/12 18:50 | 2037-26-5 | |
| **2320B Alkalinity** | Analytical Method: SM 2320B | | | | | | | | |
| Alkalinity, Total as CaCO3 | **190000** | ug/L | 5000 | 5000 | 1 | | 04/24/12 10:45 | | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **438000** | ug/L | 25000 | 25000 | 1 | | 04/16/12 22:19 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | | |
| Sulfate | **97600J** | ug/L | 1250000 | 25000 | 5 | | 04/24/12 16:50 | 14808-79-8 | |
| **4500 Chloride** | Analytical Method: SM 4500-Cl-E | | | | | | | | |
| Chloride | **23200** | ug/L | 5000 | 5000 | 1 | | 04/24/12 10:54 | 16887-00-6 | |



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# ANALYTICAL RESULTS

Project: NMLF EP-1217
Pace Project No.: 92116412

**Sample: MW-6** **Lab ID: 92116412004** Collected: 04/11/12 09:00 Received: 04/13/12 15:00 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 ICP Groundwater** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | ND | ug/L | 6.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:59 | 7440-36-0 | |
| Arsenic | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:59 | 7440-38-2 | |
| Barium | **226** | ug/L | 100 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:59 | 7440-39-3 | |
| Beryllium | ND | ug/L | 1.0 | 1.0 | 1 | 04/20/12 12:30 | 04/22/12 00:59 | 7440-41-7 | |
| Cadmium | ND | ug/L | 1.0 | 1.0 | 1 | 04/20/12 12:30 | 04/22/12 00:59 | 7440-43-9 | |
| Chromium | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:59 | 7440-47-3 | |
| Cobalt | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:59 | 7440-48-4 | |
| Copper | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:59 | 7440-50-8 | |
| Lead | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:59 | 7439-92-1 | |
| Nickel | ND | ug/L | 50.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:59 | 7440-02-0 | |
| Selenium | ND | ug/L | 10.0 | 10.0 | 1 | 04/20/12 12:30 | 04/22/12 00:59 | 7782-49-2 | |
| Silver | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:59 | 7440-22-4 | |
| Thallium | ND | ug/L | 5.5 | 5.4 | 1 | 04/20/12 12:30 | 04/22/12 00:59 | 7440-28-0 | |
| Vanadium | ND | ug/L | 25.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 00:59 | 7440-62-2 | |
| Zinc | **12.1** | ug/L | 10.0 | 10.0 | 1 | 04/20/12 12:30 | 04/22/12 00:59 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | ND | ug/L | 0.20 | 0.10 | 1 | 04/23/12 16:10 | 04/24/12 13:24 | 7439-97-6 | |
| **8260 MSV Low Level Landfill** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | ND | ug/L | 25.0 | 2.2 | 1 | | 04/16/12 19:07 | 67-64-1 | |
| Acrylonitrile | ND | ug/L | 10.0 | 1.9 | 1 | | 04/16/12 19:07 | 107-13-1 | |
| Benzene | ND | ug/L | 1.0 | 0.25 | 1 | | 04/16/12 19:07 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 1.0 | 0.17 | 1 | | 04/16/12 19:07 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 0.18 | 1 | | 04/16/12 19:07 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 19:07 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 0.29 | 1 | | 04/16/12 19:07 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 0.96 | 1 | | 04/16/12 19:07 | 78-93-3 | |
| Carbon disulfide | ND | ug/L | 2.0 | 1.2 | 1 | | 04/16/12 19:07 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 0.25 | 1 | | 04/16/12 19:07 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 0.23 | 1 | | 04/16/12 19:07 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 0.54 | 1 | | 04/16/12 19:07 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 0.14 | 1 | | 04/16/12 19:07 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 0.11 | 1 | | 04/16/12 19:07 | 74-87-3 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 5.0 | 2.5 | 1 | | 04/16/12 19:07 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 0.21 | 1 | | 04/16/12 19:07 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 0.27 | 1 | | 04/16/12 19:07 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 0.21 | 1 | | 04/16/12 19:07 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 04/16/12 19:07 | 95-50-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 0.33 | 1 | | 04/16/12 19:07 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | ND | ug/L | 1.0 | 1.0 | 1 | | 04/16/12 19:07 | 110-57-6 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 0.32 | 1 | | 04/16/12 19:07 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 0.12 | 1 | | 04/16/12 19:07 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 0.56 | 1 | | 04/16/12 19:07 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.19 | 1 | | 04/16/12 19:07 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.49 | 1 | | 04/16/12 19:07 | 156-60-5 | |



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# ANALYTICAL RESULTS

Project: NMLF EP-1217
Pace Project No.: 92116412

**Sample: MW-6** **Lab ID: 92116412004** Collected: 04/11/12 09:00 Received: 04/13/12 15:00 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level Landfill** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 0.27 | 1 | | 04/16/12 19:07 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.13 | 1 | | 04/16/12 19:07 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 19:07 | 10061-02-6 | |
| Ethylbenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 04/16/12 19:07 | 100-41-4 | |
| 2-Hexanone | ND | ug/L | 5.0 | 0.46 | 1 | | 04/16/12 19:07 | 591-78-6 | |
| Iodomethane | ND | ug/L | 5.0 | 0.32 | 1 | | 04/16/12 19:07 | 74-88-4 | |
| Methylene Chloride | ND | ug/L | 1.0 | 0.97 | 1 | | 04/16/12 19:07 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 0.33 | 1 | | 04/16/12 19:07 | 108-10-1 | |
| Styrene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 19:07 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.33 | 1 | | 04/16/12 19:07 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.40 | 1 | | 04/16/12 19:07 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 0.46 | 1 | | 04/16/12 19:07 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/L | 10.0 | 3.1 | 1 | | 04/16/12 19:07 | 109-99-9 | |
| Toluene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 19:07 | 108-88-3 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 0.48 | 1 | | 04/16/12 19:07 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 0.29 | 1 | | 04/16/12 19:07 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 0.47 | 1 | | 04/16/12 19:07 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 04/16/12 19:07 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 0.41 | 1 | | 04/16/12 19:07 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 0.35 | 1 | | 04/16/12 19:07 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 0.62 | 1 | | 04/16/12 19:07 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 0.66 | 1 | | 04/16/12 19:07 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 0.66 | 1 | | 04/16/12 19:07 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 0.23 | 1 | | 04/16/12 19:07 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 109 | % | 70-130 | | 1 | | 04/16/12 19:07 | 460-00-4 | |
| Dibromofluoromethane (S) | 109 | % | 70-130 | | 1 | | 04/16/12 19:07 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 104 | % | 70-130 | | 1 | | 04/16/12 19:07 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 70-130 | | 1 | | 04/16/12 19:07 | 2037-26-5 | |
| **2320B Alkalinity** | Analytical Method: SM 2320B | | | | | | | | |
| Alkalinity, Total as CaCO3 | **559000** | ug/L | 5000 | 5000 | 1 | | 04/24/12 10:45 | | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **714000** | ug/L | 25000 | 25000 | 1 | | 04/16/12 22:20 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | | |
| Sulfate | **20600J** | ug/L | 250000 | 5000 | 1 | | 04/24/12 17:58 | 14808-79-8 | |
| **4500 Chloride** | Analytical Method: SM 4500-Cl-E | | | | | | | | |
| Chloride | **31200** | ug/L | 5000 | 5000 | 1 | | 04/24/12 10:55 | 16887-00-6 | |



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# ANALYTICAL RESULTS

Project: NMLF EP-1217
Pace Project No.: 92116412

**Sample: MW-10** **Lab ID: 92116412005** Collected: 04/11/12 09:30 Received: 04/13/12 15:00 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 ICP Groundwater** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | ND | ug/L | 6.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 01:03 | 7440-36-0 | |
| Arsenic | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 01:03 | 7440-38-2 | |
| Barium | **84.9J** | ug/L | 100 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 01:03 | 7440-39-3 | |
| Beryllium | ND | ug/L | 1.0 | 1.0 | 1 | 04/20/12 12:30 | 04/22/12 01:03 | 7440-41-7 | |
| Cadmium | ND | ug/L | 1.0 | 1.0 | 1 | 04/20/12 12:30 | 04/22/12 01:03 | 7440-43-9 | |
| Chromium | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 01:03 | 7440-47-3 | |
| Cobalt | **16.6** | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 01:03 | 7440-48-4 | |
| Copper | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 01:03 | 7440-50-8 | |
| Lead | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 01:03 | 7439-92-1 | |
| Nickel | ND | ug/L | 50.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 01:03 | 7440-02-0 | |
| Selenium | ND | ug/L | 10.0 | 10.0 | 1 | 04/20/12 12:30 | 04/22/12 01:03 | 7782-49-2 | |
| Silver | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 01:03 | 7440-22-4 | |
| Thallium | ND | ug/L | 5.5 | 5.4 | 1 | 04/20/12 12:30 | 04/22/12 01:03 | 7440-28-0 | |
| Vanadium | ND | ug/L | 25.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 01:03 | 7440-62-2 | |
| Zinc | ND | ug/L | 10.0 | 10.0 | 1 | 04/20/12 12:30 | 04/22/12 01:03 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | ND | ug/L | 0.20 | 0.10 | 1 | 04/23/12 16:10 | 04/24/12 13:27 | 7439-97-6 | |
| **8260 MSV Low Level Landfill** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | ND | ug/L | 25.0 | 2.2 | 1 | | 04/16/12 19:23 | 67-64-1 | |
| Acrylonitrile | ND | ug/L | 10.0 | 1.9 | 1 | | 04/16/12 19:23 | 107-13-1 | |
| Benzene | ND | ug/L | 1.0 | 0.25 | 1 | | 04/16/12 19:23 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 1.0 | 0.17 | 1 | | 04/16/12 19:23 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 0.18 | 1 | | 04/16/12 19:23 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 19:23 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 0.29 | 1 | | 04/16/12 19:23 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 0.96 | 1 | | 04/16/12 19:23 | 78-93-3 | |
| Carbon disulfide | ND | ug/L | 2.0 | 1.2 | 1 | | 04/16/12 19:23 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 0.25 | 1 | | 04/16/12 19:23 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 0.23 | 1 | | 04/16/12 19:23 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 0.54 | 1 | | 04/16/12 19:23 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 0.14 | 1 | | 04/16/12 19:23 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 0.11 | 1 | | 04/16/12 19:23 | 74-87-3 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 5.0 | 2.5 | 1 | | 04/16/12 19:23 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 0.21 | 1 | | 04/16/12 19:23 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 0.27 | 1 | | 04/16/12 19:23 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 0.21 | 1 | | 04/16/12 19:23 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 04/16/12 19:23 | 95-50-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 0.33 | 1 | | 04/16/12 19:23 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | ND | ug/L | 1.0 | 1.0 | 1 | | 04/16/12 19:23 | 110-57-6 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 0.32 | 1 | | 04/16/12 19:23 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 0.12 | 1 | | 04/16/12 19:23 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 0.56 | 1 | | 04/16/12 19:23 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.19 | 1 | | 04/16/12 19:23 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.49 | 1 | | 04/16/12 19:23 | 156-60-5 | |



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# ANALYTICAL RESULTS

Project: NMLF EP-1217
Pace Project No.: 92116412

**Sample: MW-10** **Lab ID: 92116412005** Collected: 04/11/12 09:30 Received: 04/13/12 15:00 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level Landfill** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 0.27 | 1 | | 04/16/12 19:23 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.13 | 1 | | 04/16/12 19:23 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 19:23 | 10061-02-6 | |
| Ethylbenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 04/16/12 19:23 | 100-41-4 | |
| 2-Hexanone | ND | ug/L | 5.0 | 0.46 | 1 | | 04/16/12 19:23 | 591-78-6 | |
| Iodomethane | ND | ug/L | 5.0 | 0.32 | 1 | | 04/16/12 19:23 | 74-88-4 | |
| Methylene Chloride | ND | ug/L | 1.0 | 0.97 | 1 | | 04/16/12 19:23 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 0.33 | 1 | | 04/16/12 19:23 | 108-10-1 | |
| Styrene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 19:23 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.33 | 1 | | 04/16/12 19:23 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.40 | 1 | | 04/16/12 19:23 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 0.46 | 1 | | 04/16/12 19:23 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/L | 10.0 | 3.1 | 1 | | 04/16/12 19:23 | 109-99-9 | |
| Toluene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 19:23 | 108-88-3 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 0.48 | 1 | | 04/16/12 19:23 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 0.29 | 1 | | 04/16/12 19:23 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 0.47 | 1 | | 04/16/12 19:23 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 04/16/12 19:23 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 0.41 | 1 | | 04/16/12 19:23 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 0.35 | 1 | | 04/16/12 19:23 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 0.62 | 1 | | 04/16/12 19:23 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 0.66 | 1 | | 04/16/12 19:23 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 0.66 | 1 | | 04/16/12 19:23 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 0.23 | 1 | | 04/16/12 19:23 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 106 | % | 70-130 | | 1 | | 04/16/12 19:23 | 460-00-4 | |
| Dibromofluoromethane (S) | 110 | % | 70-130 | | 1 | | 04/16/12 19:23 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 105 | % | 70-130 | | 1 | | 04/16/12 19:23 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 70-130 | | 1 | | 04/16/12 19:23 | 2037-26-5 | |
| **2320B Alkalinity** | Analytical Method: SM 2320B | | | | | | | | |
| Alkalinity, Total as CaCO3 | **236000** | ug/L | 5000 | 5000 | 1 | | 04/24/12 10:45 | | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **301000** | ug/L | 25000 | 25000 | 1 | | 04/16/12 22:20 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | | |
| Sulfate | ND | ug/L | 250000 | 5000 | 1 | | 04/24/12 18:39 | 14808-79-8 | |
| **4500 Chloride** | Analytical Method: SM 4500-Cl-E | | | | | | | | |
| Chloride | **15900** | ug/L | 5000 | 5000 | 1 | | 04/24/12 10:57 | 16887-00-6 | |



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# ANALYTICAL RESULTS

Project: NMLF EP-1217
Pace Project No.: 92116412

**Sample: MW-11** **Lab ID: 92116412006** Collected: 04/11/12 10:00 Received: 04/13/12 15:00 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **6010 ICP Groundwater** | Analytical Method: EPA 6010 Preparation Method: EPA 3010 | | | | | | | | |
| Antimony | ND | ug/L | 6.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 01:07 | 7440-36-0 | |
| Arsenic | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 01:07 | 7440-38-2 | |
| Barium | **380** | ug/L | 100 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 01:07 | 7440-39-3 | |
| Beryllium | ND | ug/L | 1.0 | 1.0 | 1 | 04/20/12 12:30 | 04/22/12 01:07 | 7440-41-7 | |
| Cadmium | ND | ug/L | 1.0 | 1.0 | 1 | 04/20/12 12:30 | 04/22/12 01:07 | 7440-43-9 | |
| Chromium | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 01:07 | 7440-47-3 | |
| Cobalt | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 01:07 | 7440-48-4 | |
| Copper | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 01:07 | 7440-50-8 | |
| Lead | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 01:07 | 7439-92-1 | |
| Nickel | **13.0J** | ug/L | 50.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 01:07 | 7440-02-0 | |
| Selenium | ND | ug/L | 10.0 | 10.0 | 1 | 04/20/12 12:30 | 04/22/12 01:07 | 7782-49-2 | |
| Silver | ND | ug/L | 10.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 01:07 | 7440-22-4 | |
| Thallium | ND | ug/L | 5.5 | 5.4 | 1 | 04/20/12 12:30 | 04/22/12 01:07 | 7440-28-0 | |
| Vanadium | ND | ug/L | 25.0 | 5.0 | 1 | 04/20/12 12:30 | 04/22/12 01:07 | 7440-62-2 | |
| Zinc | ND | ug/L | 10.0 | 10.0 | 1 | 04/20/12 12:30 | 04/22/12 01:07 | 7440-66-6 | |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | ND | ug/L | 0.20 | 0.10 | 1 | 04/23/12 16:10 | 04/24/12 13:29 | 7439-97-6 | |
| **8260 MSV Low Level Landfill** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **3.0J** | ug/L | 25.0 | 2.2 | 1 | | 04/16/12 19:40 | 67-64-1 | |
| Acrylonitrile | ND | ug/L | 10.0 | 1.9 | 1 | | 04/16/12 19:40 | 107-13-1 | |
| Benzene | ND | ug/L | 1.0 | 0.25 | 1 | | 04/16/12 19:40 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 1.0 | 0.17 | 1 | | 04/16/12 19:40 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 0.18 | 1 | | 04/16/12 19:40 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 19:40 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 0.29 | 1 | | 04/16/12 19:40 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 0.96 | 1 | | 04/16/12 19:40 | 78-93-3 | |
| Carbon disulfide | ND | ug/L | 2.0 | 1.2 | 1 | | 04/16/12 19:40 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 0.25 | 1 | | 04/16/12 19:40 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 0.23 | 1 | | 04/16/12 19:40 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 0.54 | 1 | | 04/16/12 19:40 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 0.14 | 1 | | 04/16/12 19:40 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 0.11 | 1 | | 04/16/12 19:40 | 74-87-3 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 5.0 | 2.5 | 1 | | 04/16/12 19:40 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 0.21 | 1 | | 04/16/12 19:40 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 0.27 | 1 | | 04/16/12 19:40 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 0.21 | 1 | | 04/16/12 19:40 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 04/16/12 19:40 | 95-50-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 0.33 | 1 | | 04/16/12 19:40 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | ND | ug/L | 1.0 | 1.0 | 1 | | 04/16/12 19:40 | 110-57-6 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 0.32 | 1 | | 04/16/12 19:40 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 0.12 | 1 | | 04/16/12 19:40 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 0.56 | 1 | | 04/16/12 19:40 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.19 | 1 | | 04/16/12 19:40 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.49 | 1 | | 04/16/12 19:40 | 156-60-5 | |



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# ANALYTICAL RESULTS

Project: NMLF EP-1217
Pace Project No.: 92116412

**Sample: MW-11** **Lab ID: 92116412006** Collected: 04/11/12 10:00 Received: 04/13/12 15:00 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level Landfill** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 0.27 | 1 | | 04/16/12 19:40 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.13 | 1 | | 04/16/12 19:40 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 19:40 | 10061-02-6 | |
| Ethylbenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 04/16/12 19:40 | 100-41-4 | |
| 2-Hexanone | ND | ug/L | 5.0 | 0.46 | 1 | | 04/16/12 19:40 | 591-78-6 | |
| Iodomethane | ND | ug/L | 5.0 | 0.32 | 1 | | 04/16/12 19:40 | 74-88-4 | |
| Methylene Chloride | ND | ug/L | 1.0 | 0.97 | 1 | | 04/16/12 19:40 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 0.33 | 1 | | 04/16/12 19:40 | 108-10-1 | |
| Styrene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 19:40 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.33 | 1 | | 04/16/12 19:40 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.40 | 1 | | 04/16/12 19:40 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 0.46 | 1 | | 04/16/12 19:40 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/L | 10.0 | 3.1 | 1 | | 04/16/12 19:40 | 109-99-9 | |
| Toluene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 19:40 | 108-88-3 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 0.48 | 1 | | 04/16/12 19:40 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 0.29 | 1 | | 04/16/12 19:40 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 0.47 | 1 | | 04/16/12 19:40 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 04/16/12 19:40 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 0.41 | 1 | | 04/16/12 19:40 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 0.35 | 1 | | 04/16/12 19:40 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 0.62 | 1 | | 04/16/12 19:40 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 0.66 | 1 | | 04/16/12 19:40 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 0.66 | 1 | | 04/16/12 19:40 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 0.23 | 1 | | 04/16/12 19:40 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 105 | % | 70-130 | | 1 | | 04/16/12 19:40 | 460-00-4 | |
| Dibromofluoromethane (S) | 108 | % | 70-130 | | 1 | | 04/16/12 19:40 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 104 | % | 70-130 | | 1 | | 04/16/12 19:40 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 70-130 | | 1 | | 04/16/12 19:40 | 2037-26-5 | |
| **2320B Alkalinity** | Analytical Method: SM 2320B | | | | | | | | |
| Alkalinity, Total as CaCO3 | **579000** | ug/L | 5000 | 5000 | 1 | | 04/24/12 10:45 | | |
| **2540C Total Dissolved Solids** | Analytical Method: SM 2540C | | | | | | | | |
| Total Dissolved Solids | **1370000** | ug/L | 50000 | 50000 | 1 | | 04/16/12 22:20 | | |
| **300.0 IC Anions 28 Days** | Analytical Method: EPA 300.0 | | | | | | | | |
| Sulfate | **93700J** | ug/L | 1250000 | 25000 | 5 | | 04/25/12 09:35 | 14808-79-8 | |
| **4500 Chloride** | Analytical Method: SM 4500-Cl-E | | | | | | | | |
| Chloride | **67100** | ug/L | 25000 | 25000 | 5 | | 04/24/12 11:30 | 16887-00-6 | |



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# ANALYTICAL RESULTS

Project: NMLF EP-1217
Pace Project No.: 92116412

**Sample: Field Blank** **Lab ID: 92116412007** Collected: 04/11/12 09:15 Received: 04/13/12 15:00 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level Landfill** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **6.7J** | ug/L | 25.0 | 2.2 | 1 | | 04/16/12 19:57 | 67-64-1 | |
| Acrylonitrile | ND | ug/L | 10.0 | 1.9 | 1 | | 04/16/12 19:57 | 107-13-1 | |
| Benzene | ND | ug/L | 1.0 | 0.25 | 1 | | 04/16/12 19:57 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 1.0 | 0.17 | 1 | | 04/16/12 19:57 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 0.18 | 1 | | 04/16/12 19:57 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 19:57 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 0.29 | 1 | | 04/16/12 19:57 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 0.96 | 1 | | 04/16/12 19:57 | 78-93-3 | |
| Carbon disulfide | ND | ug/L | 2.0 | 1.2 | 1 | | 04/16/12 19:57 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 0.25 | 1 | | 04/16/12 19:57 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 0.23 | 1 | | 04/16/12 19:57 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 0.54 | 1 | | 04/16/12 19:57 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 0.14 | 1 | | 04/16/12 19:57 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 0.11 | 1 | | 04/16/12 19:57 | 74-87-3 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 5.0 | 2.5 | 1 | | 04/16/12 19:57 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 0.21 | 1 | | 04/16/12 19:57 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 0.27 | 1 | | 04/16/12 19:57 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 0.21 | 1 | | 04/16/12 19:57 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 04/16/12 19:57 | 95-50-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 0.33 | 1 | | 04/16/12 19:57 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | ND | ug/L | 1.0 | 1.0 | 1 | | 04/16/12 19:57 | 110-57-6 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 0.32 | 1 | | 04/16/12 19:57 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 0.12 | 1 | | 04/16/12 19:57 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 0.56 | 1 | | 04/16/12 19:57 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.19 | 1 | | 04/16/12 19:57 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.49 | 1 | | 04/16/12 19:57 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 0.27 | 1 | | 04/16/12 19:57 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.13 | 1 | | 04/16/12 19:57 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 19:57 | 10061-02-6 | |
| Ethylbenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 04/16/12 19:57 | 100-41-4 | |
| 2-Hexanone | ND | ug/L | 5.0 | 0.46 | 1 | | 04/16/12 19:57 | 591-78-6 | |
| Iodomethane | ND | ug/L | 5.0 | 0.32 | 1 | | 04/16/12 19:57 | 74-88-4 | |
| Methylene Chloride | ND | ug/L | 1.0 | 0.97 | 1 | | 04/16/12 19:57 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 0.33 | 1 | | 04/16/12 19:57 | 108-10-1 | |
| Styrene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 19:57 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.33 | 1 | | 04/16/12 19:57 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.40 | 1 | | 04/16/12 19:57 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 0.46 | 1 | | 04/16/12 19:57 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/L | 10.0 | 3.1 | 1 | | 04/16/12 19:57 | 109-99-9 | |
| Toluene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 19:57 | 108-88-3 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 0.48 | 1 | | 04/16/12 19:57 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 0.29 | 1 | | 04/16/12 19:57 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 0.47 | 1 | | 04/16/12 19:57 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 04/16/12 19:57 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 0.41 | 1 | | 04/16/12 19:57 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 0.35 | 1 | | 04/16/12 19:57 | 108-05-4 | |



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# ANALYTICAL RESULTS

Project: NMLF EP-1217
Pace Project No.: 92116412

**Sample: Field Blank** **Lab ID: 92116412007** Collected: 04/11/12 09:15 Received: 04/13/12 15:00 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level Landfill** | Analytical Method: EPA 8260 | | | | | | | | |
| Vinyl chloride | ND | ug/L | 1.0 | 0.62 | 1 | | 04/16/12 19:57 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 0.66 | 1 | | 04/16/12 19:57 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 0.66 | 1 | | 04/16/12 19:57 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 0.23 | 1 | | 04/16/12 19:57 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 107 | % | 70-130 | | 1 | | 04/16/12 19:57 | 460-00-4 | |
| Dibromofluoromethane (S) | 108 | % | 70-130 | | 1 | | 04/16/12 19:57 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 104 | % | 70-130 | | 1 | | 04/16/12 19:57 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 70-130 | | 1 | | 04/16/12 19:57 | 2037-26-5 | |

**Sample: Trip Blank** **Lab ID: 92116412008** Collected: 04/11/12 00:00 Received: 04/13/12 15:00 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level Landfill** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | ND | ug/L | 25.0 | 2.2 | 1 | | 04/16/12 20:13 | 67-64-1 | |
| Acrylonitrile | ND | ug/L | 10.0 | 1.9 | 1 | | 04/16/12 20:13 | 107-13-1 | |
| Benzene | ND | ug/L | 1.0 | 0.25 | 1 | | 04/16/12 20:13 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 1.0 | 0.17 | 1 | | 04/16/12 20:13 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 0.18 | 1 | | 04/16/12 20:13 | 75-27-4 | |
| Bromoform | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 20:13 | 75-25-2 | |
| Bromomethane | ND | ug/L | 2.0 | 0.29 | 1 | | 04/16/12 20:13 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 5.0 | 0.96 | 1 | | 04/16/12 20:13 | 78-93-3 | |
| Carbon disulfide | ND | ug/L | 2.0 | 1.2 | 1 | | 04/16/12 20:13 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 0.25 | 1 | | 04/16/12 20:13 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 1.0 | 0.23 | 1 | | 04/16/12 20:13 | 108-90-7 | |
| Chloroethane | ND | ug/L | 1.0 | 0.54 | 1 | | 04/16/12 20:13 | 75-00-3 | |
| Chloroform | ND | ug/L | 1.0 | 0.14 | 1 | | 04/16/12 20:13 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 0.11 | 1 | | 04/16/12 20:13 | 74-87-3 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 5.0 | 2.5 | 1 | | 04/16/12 20:13 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 1.0 | 0.21 | 1 | | 04/16/12 20:13 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 0.27 | 1 | | 04/16/12 20:13 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 1.0 | 0.21 | 1 | | 04/16/12 20:13 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 04/16/12 20:13 | 95-50-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 0.33 | 1 | | 04/16/12 20:13 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | ND | ug/L | 1.0 | 1.0 | 1 | | 04/16/12 20:13 | 110-57-6 | |
| 1,1-Dichloroethane | ND | ug/L | 1.0 | 0.32 | 1 | | 04/16/12 20:13 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 0.12 | 1 | | 04/16/12 20:13 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 1.0 | 0.56 | 1 | | 04/16/12 20:13 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.19 | 1 | | 04/16/12 20:13 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 1.0 | 0.49 | 1 | | 04/16/12 20:13 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 0.27 | 1 | | 04/16/12 20:13 | 78-87-5 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.13 | 1 | | 04/16/12 20:13 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 20:13 | 10061-02-6 | |



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# ANALYTICAL RESULTS

Project: NMLF EP-1217
Pace Project No.: 92116412

**Sample: Trip Blank** **Lab ID: 92116412008** Collected: 04/11/12 00:00 Received: 04/13/12 15:00 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level Landfill** | Analytical Method: EPA 8260 | | | | | | | | |
| Ethylbenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 04/16/12 20:13 | 100-41-4 | |
| 2-Hexanone | ND | ug/L | 5.0 | 0.46 | 1 | | 04/16/12 20:13 | 591-78-6 | |
| Iodomethane | ND | ug/L | 5.0 | 0.32 | 1 | | 04/16/12 20:13 | 74-88-4 | |
| Methylene Chloride | ND | ug/L | 1.0 | 0.97 | 1 | | 04/16/12 20:13 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 5.0 | 0.33 | 1 | | 04/16/12 20:13 | 108-10-1 | |
| Styrene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 20:13 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.33 | 1 | | 04/16/12 20:13 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 1.0 | 0.40 | 1 | | 04/16/12 20:13 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 0.46 | 1 | | 04/16/12 20:13 | 127-18-4 | |
| Tetrahydrofuran | ND | ug/L | 10.0 | 3.1 | 1 | | 04/16/12 20:13 | 109-99-9 | |
| Toluene | ND | ug/L | 1.0 | 0.26 | 1 | | 04/16/12 20:13 | 108-88-3 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 0.48 | 1 | | 04/16/12 20:13 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 0.29 | 1 | | 04/16/12 20:13 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 0.47 | 1 | | 04/16/12 20:13 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 04/16/12 20:13 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 0.41 | 1 | | 04/16/12 20:13 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 2.0 | 0.35 | 1 | | 04/16/12 20:13 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 0.62 | 1 | | 04/16/12 20:13 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 2.0 | 0.66 | 1 | | 04/16/12 20:13 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 0.66 | 1 | | 04/16/12 20:13 | 179601-23-1 | |
| o-Xylene | ND | ug/L | 1.0 | 0.23 | 1 | | 04/16/12 20:13 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 109 | % | 70-130 | | 1 | | 04/16/12 20:13 | 460-00-4 | |
| Dibromofluoromethane (S) | 108 | % | 70-130 | | 1 | | 04/16/12 20:13 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 104 | % | 70-130 | | 1 | | 04/16/12 20:13 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 70-130 | | 1 | | 04/16/12 20:13 | 2037-26-5 | |



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# QUALITY CONTROL DATA

Project: NMLF EP-1217
Pace Project No.: 92116412

QC Batch: MERP/4188 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92116412001, 92116412002, 92116412003, 92116412004, 92116412005, 92116412006

METHOD BLANK: 753625 Matrix: Water
Associated Lab Samples: 92116412001, 92116412002, 92116412003, 92116412004, 92116412005, 92116412006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | ug/L | ND | 0.20 | 04/24/12 12:28 | |

LABORATORY CONTROL SAMPLE: 753626

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 2.5 | 2.6 | 106 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 753627 753628

| Parameter | Units | 92116392005 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | ug/L | ND | 2.5 | 2.5 | 2.9 | 2.9 | 114 | 112 | 75-125 | 2 | 25 | |



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# QUALITY CONTROL DATA

Project: NMLF EP-1217
Pace Project No.: 92116412

QC Batch: MPRP/10408 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 92116412001, 92116412002, 92116412003, 92116412004, 92116412005, 92116412006

METHOD BLANK: 752436 Matrix: Water
Associated Lab Samples: 92116412001, 92116412002, 92116412003, 92116412004, 92116412005, 92116412006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Antimony | ug/L | ND | 6.0 | 04/21/12 23:23 | |
| Arsenic | ug/L | ND | 10.0 | 04/21/12 23:23 | |
| Barium | ug/L | ND | 100 | 04/21/12 23:23 | |
| Beryllium | ug/L | ND | 1.0 | 04/21/12 23:23 | |
| Cadmium | ug/L | ND | 1.0 | 04/21/12 23:23 | |
| Chromium | ug/L | ND | 10.0 | 04/21/12 23:23 | |
| Cobalt | ug/L | ND | 10.0 | 04/21/12 23:23 | |
| Copper | ug/L | ND | 10.0 | 04/21/12 23:23 | |
| Lead | ug/L | ND | 10.0 | 04/21/12 23:23 | |
| Nickel | ug/L | ND | 50.0 | 04/21/12 23:23 | |
| Selenium | ug/L | ND | 10.0 | 04/21/12 23:23 | |
| Silver | ug/L | ND | 10.0 | 04/21/12 23:23 | |
| Thallium | ug/L | ND | 5.5 | 04/21/12 23:23 | |
| Vanadium | ug/L | ND | 25.0 | 04/21/12 23:23 | |
| Zinc | ug/L | ND | 10.0 | 04/21/12 23:23 | |

LABORATORY CONTROL SAMPLE: 752437

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | ug/L | 500 | 488 | 98 | 80-120 | |
| Arsenic | ug/L | 500 | 481 | 96 | 80-120 | |
| Barium | ug/L | 500 | 493 | 99 | 80-120 | |
| Beryllium | ug/L | 500 | 496 | 99 | 80-120 | |
| Cadmium | ug/L | 500 | 487 | 97 | 80-120 | |
| Chromium | ug/L | 500 | 482 | 96 | 80-120 | |
| Cobalt | ug/L | 500 | 489 | 98 | 80-120 | |
| Copper | ug/L | 500 | 498 | 100 | 80-120 | |
| Lead | ug/L | 500 | 489 | 98 | 80-120 | |
| Nickel | ug/L | 500 | 485 | 97 | 80-120 | |
| Selenium | ug/L | 500 | 490 | 98 | 80-120 | |
| Silver | ug/L | 250 | 244 | 98 | 80-120 | |
| Thallium | ug/L | 500 | 478 | 96 | 80-120 | |
| Vanadium | ug/L | 500 | 497 | 99 | 80-120 | |
| Zinc | ug/L | 500 | 473 | 95 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 752438 752439

| Parameter | Units | 92116392005 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | ug/L | ND | 500 | 500 | 473 | 466 | 95 | 93 | 75-125 | 1 | 25 | |



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# QUALITY CONTROL DATA

Project: NMLF EP-1217
Pace Project No.: 92116412

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 752438 752439

| Parameter | Units | 92116392005 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ug/L | ND | 500 | 500 | 479 | 472 | 96 | 94 | 75-125 | 1 | 25 | |
| Barium | ug/L | 37.6 | 500 | 500 | 524 | 518 | 97 | 96 | 75-125 | 1 | 25 | |
| Beryllium | ug/L | ND | 500 | 500 | 488 | 485 | 98 | 97 | 75-125 | 1 | 25 | |
| Cadmium | ug/L | ND | 500 | 500 | 477 | 470 | 95 | 94 | 75-125 | 1 | 25 | |
| Chromium | ug/L | ND | 500 | 500 | 481 | 473 | 96 | 94 | 75-125 | 2 | 25 | |
| Cobalt | ug/L | ND | 500 | 500 | 484 | 476 | 96 | 95 | 75-125 | 2 | 25 | |
| Copper | ug/L | ND | 500 | 500 | 501 | 493 | 99 | 98 | 75-125 | 2 | 25 | |
| Lead | ug/L | ND | 500 | 500 | 474 | 468 | 94 | 93 | 75-125 | 1 | 25 | |
| Nickel | ug/L | ND | 500 | 500 | 479 | 471 | 95 | 94 | 75-125 | 2 | 25 | |
| Selenium | ug/L | ND | 500 | 500 | 481 | 477 | 95 | 95 | 75-125 | 1 | 25 | |
| Silver | ug/L | ND | 250 | 250 | 243 | 240 | 97 | 96 | 75-125 | 1 | 25 | |
| Thallium | ug/L | ND | 500 | 500 | 463 | 455 | 93 | 91 | 75-125 | 2 | 25 | |
| Vanadium | ug/L | 7.3 | 500 | 500 | 500 | 494 | 99 | 97 | 75-125 | 1 | 25 | |
| Zinc | ug/L | ND | 500 | 500 | 474 | 468 | 93 | 92 | 75-125 | 1 | 25 | |



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# QUALITY CONTROL DATA

Project: NMLF EP-1217
Pace Project No.: 92116412

QC Batch: MSV/18811 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 92116412001, 92116412002, 92116412003, 92116412004, 92116412005, 92116412006, 92116412007, 92116412008

METHOD BLANK: 750582 Matrix: Water
Associated Lab Samples: 92116412001, 92116412002, 92116412003, 92116412004, 92116412005, 92116412006, 92116412007, 92116412008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| 1,1,1-Trichloroethane | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| 1,1,2-Trichloroethane | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| 1,1-Dichloroethane | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| 1,1-Dichloroethene | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| 1,2,3-Trichloropropane | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 5.0 | 04/16/12 12:45 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| 1,2-Dichlorobenzene | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| 1,2-Dichloropropane | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| 1,4-Dichlorobenzene | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| 2-Butanone (MEK) | ug/L | ND | 5.0 | 04/16/12 12:45 | |
| 2-Hexanone | ug/L | ND | 5.0 | 04/16/12 12:45 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | ND | 5.0 | 04/16/12 12:45 | |
| Acetone | ug/L | ND | 25.0 | 04/16/12 12:45 | |
| Acrylonitrile | ug/L | ND | 10.0 | 04/16/12 12:45 | |
| Benzene | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| Bromochloromethane | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| Bromodichloromethane | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| Bromoform | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| Bromomethane | ug/L | ND | 2.0 | 04/16/12 12:45 | |
| Carbon disulfide | ug/L | ND | 2.0 | 04/16/12 12:45 | |
| Carbon tetrachloride | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| Chlorobenzene | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| Chloroethane | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| Chloroform | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| Chloromethane | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| cis-1,2-Dichloroethene | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| cis-1,3-Dichloropropene | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| Dibromochloromethane | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| Dibromomethane | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| Ethylbenzene | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| Iodomethane | ug/L | ND | 5.0 | 04/16/12 12:45 | |
| m&p-Xylene | ug/L | ND | 2.0 | 04/16/12 12:45 | |
| Methylene Chloride | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| o-Xylene | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| Styrene | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| Tetrachloroethene | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| Tetrahydrofuran | ug/L | ND | 10.0 | 04/16/12 12:45 | |



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# QUALITY CONTROL DATA

Project: NMLF EP-1217
Pace Project No.: 92116412

METHOD BLANK: 750582 Matrix: Water

Associated Lab Samples: 92116412001, 92116412002, 92116412003, 92116412004, 92116412005, 92116412006, 92116412007, 92116412008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Toluene | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| trans-1,2-Dichloroethene | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| trans-1,3-Dichloropropene | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| trans-1,4-Dichloro-2-butene | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| Trichloroethene | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| Trichlorofluoromethane | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| Vinyl acetate | ug/L | ND | 2.0 | 04/16/12 12:45 | |
| Vinyl chloride | ug/L | ND | 1.0 | 04/16/12 12:45 | |
| Xylene (Total) | ug/L | ND | 2.0 | 04/16/12 12:45 | |
| 1,2-Dichloroethane-d4 (S) | % | 102 | 70-130 | 04/16/12 12:45 | |
| 4-Bromofluorobenzene (S) | % | 106 | 70-130 | 04/16/12 12:45 | |
| Dibromofluoromethane (S) | % | 108 | 70-130 | 04/16/12 12:45 | |
| Toluene-d8 (S) | % | 100 | 70-130 | 04/16/12 12:45 | |

LABORATORY CONTROL SAMPLE: 750583

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 50 | 53.7 | 107 | 70-130 | |
| 1,1,1-Trichloroethane | ug/L | 50 | 50.8 | 102 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 47.9 | 96 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 49.0 | 98 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 47.1 | 94 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 50 | 52.5 | 105 | 70-132 | |
| 1,2,3-Trichloropropane | ug/L | 50 | 51.1 | 102 | 70-130 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 47.1 | 94 | 70-130 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 52.2 | 104 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 48.6 | 97 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 48.4 | 97 | 70-130 | |
| 1,2-Dichloropropane | ug/L | 50 | 50.8 | 102 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 49.6 | 99 | 70-130 | |
| 2-Butanone (MEK) | ug/L | 100 | 99.0 | 99 | 70-145 | |
| 2-Hexanone | ug/L | 100 | 98.5 | 98 | 70-144 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 100 | 96.3 | 96 | 70-140 | |
| Acetone | ug/L | 100 | 90.7 | 91 | 50-175 | |
| Acrylonitrile | ug/L | 250 | 253 | 101 | 70-143 | |
| Benzene | ug/L | 50 | 51.0 | 102 | 70-130 | |
| Bromochloromethane | ug/L | 50 | 62.7 | 125 | 70-130 | |
| Bromodichloromethane | ug/L | 50 | 50.5 | 101 | 70-130 | |
| Bromoform | ug/L | 50 | 58.4 | 117 | 70-130 | |
| Bromomethane | ug/L | 50 | 58.9 | 118 | 54-130 | F3 |
| Carbon disulfide | ug/L | 50 | 57.8 | 116 | 70-131 | |
| Carbon tetrachloride | ug/L | 50 | 55.4 | 111 | 70-132 | |
| Chlorobenzene | ug/L | 50 | 50.4 | 101 | 70-130 | |
| Chloroethane | ug/L | 50 | 49.3 | 99 | 64-134 | |



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# QUALITY CONTROL DATA

Project: NMLF EP-1217
Pace Project No.: 92116412

LABORATORY CONTROL SAMPLE: 750583

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chloroform | ug/L | 50 | 50.6 | 101 | 70-130 | |
| Chloromethane | ug/L | 50 | 64.6 | 129 | 64-130 | |
| cis-1,2-Dichloroethene | ug/L | 50 | 46.7 | 93 | 70-131 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 52.7 | 105 | 70-130 | |
| Dibromochloromethane | ug/L | 50 | 54.4 | 109 | 70-130 | |
| Dibromomethane | ug/L | 50 | 52.6 | 105 | 70-131 | |
| Ethylbenzene | ug/L | 50 | 48.5 | 97 | 70-130 | |
| Iodomethane | ug/L | 100 | 179 | 179 | 49-180 | |
| m&p-Xylene | ug/L | 100 | 99.5 | 100 | 70-130 | |
| Methylene Chloride | ug/L | 50 | 54.9 | 110 | 63-130 | |
| o-Xylene | ug/L | 50 | 49.7 | 99 | 70-130 | |
| Styrene | ug/L | 50 | 52.1 | 104 | 70-130 | |
| Tetrachloroethene | ug/L | 50 | 55.4 | 111 | 70-130 | |
| Tetrahydrofuran | ug/L | 500 | 507 | 101 | 70-130 | |
| Toluene | ug/L | 50 | 48.4 | 97 | 70-130 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 48.5 | 97 | 70-130 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 51.9 | 104 | 70-132 | |
| trans-1,4-Dichloro-2-butene | ug/L | 50 | 60.7 | 121 | 70-141 | |
| Trichloroethene | ug/L | 50 | 56.1 | 112 | 70-130 | |
| Trichlorofluoromethane | ug/L | 50 | 52.5 | 105 | 62-133 | |
| Vinyl chloride | ug/L | 50 | 56.4 | 113 | 69-130 | |
| Xylene (Total) | ug/L | 150 | 149 | 99 | 70-130 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 94 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 103 | 70-130 | |
| Dibromofluoromethane (S) | % | | | 97 | 70-130 | |
| Toluene-d8 (S) | % | | | 97 | 70-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 750584 750585

| Parameter | Units | 92116224005 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ug/L | ND | 50 | 50 | 59.1 | 61.8 | 118 | 124 | 70-166 | 5 | 30 | |
| Benzene | ug/L | ND | 50 | 50 | 53.1 | 55.7 | 106 | 111 | 70-148 | 5 | 30 | |
| Chlorobenzene | ug/L | ND | 50 | 50 | 52.7 | 54.9 | 105 | 110 | 70-146 | 4 | 30 | |
| Toluene | ug/L | ND | 50 | 50 | 51.4 | 54.5 | 103 | 109 | 70-155 | 6 | 30 | |
| Trichloroethene | ug/L | ND | 50 | 50 | 55.2 | 57.8 | 110 | 116 | 69-151 | 5 | 30 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | | | 97 | 100 | 70-130 | | | |
| 4-Bromofluorobenzene (S) | % | | | | | | 105 | 110 | 70-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 101 | 102 | 70-130 | | | |
| Toluene-d8 (S) | % | | | | | | 97 | 97 | 70-130 | | | |



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# QUALITY CONTROL DATA

Project: NMLF EP-1217
Pace Project No.: 92116412

QC Batch: WET/20546
QC Batch Method: SM 2320B
Analysis Method: SM 2320B
Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92116412001, 92116412002

METHOD BLANK: 752850
Matrix: Water
Associated Lab Samples: 92116412001, 92116412002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | ug/L | ND | 5000 | 04/20/12 12:50 | |

LABORATORY CONTROL SAMPLE: 752851

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | ug/L | 50000 | 50800 | 102 | 90-110 | |

SAMPLE DUPLICATE: 752852

| Parameter | Units | 92116463001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | ug/L | 139000 | 141000 | 2 | 20 | |

SAMPLE DUPLICATE: 752853

| Parameter | Units | 92116464005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | ug/L | 154000 | 139000 | 10 | 20 | |



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# QUALITY CONTROL DATA

Project: NMLF EP-1217
Pace Project No.: 92116412

QC Batch: WET/20582 — Analysis Method: SM 2320B
QC Batch Method: SM 2320B — Analysis Description: 2320B Alkalinity
Associated Lab Samples: 92116412003, 92116412004, 92116412005, 92116412006

METHOD BLANK: 754072 — Matrix: Water
Associated Lab Samples: 92116412003, 92116412004, 92116412005, 92116412006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | ug/L | ND | 5000 | 04/24/12 10:45 | |

LABORATORY CONTROL SAMPLE: 754073

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | ug/L | 50000 | 48000 | 96 | 90-110 | |

SAMPLE DUPLICATE: 754087

| Parameter | Units | 92116412003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | ug/L | 190000 | 190000 | 0 | 20 | |

SAMPLE DUPLICATE: 754088

| Parameter | Units | 92116376005 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | ug/L | 313 mg/L | 322000 | 3 | 20 | |



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# QUALITY CONTROL DATA

Project: NMLF EP-1217
Pace Project No.: 92116412

QC Batch: WET/20477 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92116412001, 92116412002, 92116412003, 92116412004, 92116412005, 92116412006

METHOD BLANK: 750835 Matrix: Water
Associated Lab Samples: 92116412001, 92116412002, 92116412003, 92116412004, 92116412005, 92116412006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Total Dissolved Solids | ug/L | ND | 25000 | 04/16/12 22:18 | |

LABORATORY CONTROL SAMPLE: 750836

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | ug/L | 250000 | 268000 | 107 | 80-120 | |

SAMPLE DUPLICATE: 750837

| Parameter | Units | 92116412001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | ug/L | 493000 | 486000 | 1 | 10 | |



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# QUALITY CONTROL DATA

Project: NMLF EP-1217
Pace Project No.: 92116412

QC Batch: WETA/11996 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92116412001, 92116412002, 92116412003

METHOD BLANK: 753582 — Matrix: Water
Associated Lab Samples: 92116412001, 92116412002, 92116412003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Sulfate | ug/L | ND | 250000 | 04/24/12 10:16 | |

LABORATORY CONTROL SAMPLE: 753583

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Sulfate | ug/L | 20000 | 19300J | 96 | 90-110 | |

MATRIX SPIKE SAMPLE: 753584

| Parameter | Units | 92116464004 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Sulfate | ug/L | 59900J | 20000 | 79800J | 99 | 90-110 | |

MATRIX SPIKE SAMPLE: 753586

| Parameter | Units | 92116376001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Sulfate | ug/L | ND | 20000 | 20000J | 85 | 90-110 | M1 |

SAMPLE DUPLICATE: 753585

| Parameter | Units | 92116464004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Sulfate | ug/L | 59900J | 76700J | 25 | 20 | D6 |

SAMPLE DUPLICATE: 753587

| Parameter | Units | 92116376001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Sulfate | ug/L | ND | ND | | 20 | |



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# QUALITY CONTROL DATA

Project: NMLF EP-1217
Pace Project No.: 92116412

QC Batch: WETA/11997 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Associated Lab Samples: 92116412004, 92116412005, 92116412006

METHOD BLANK: 753588 — Matrix: Water
Associated Lab Samples: 92116412004, 92116412005, 92116412006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Sulfate | ug/L | ND | 250000 | 04/24/12 17:31 | |

LABORATORY CONTROL SAMPLE: 753589

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Sulfate | ug/L | 20000 | 19400J | 97 | 90-110 | |

MATRIX SPIKE SAMPLE: 753590

| Parameter | Units | 92116412004 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Sulfate | ug/L | 20600J | 20000 | 36300J | 79 | 90-110 | M1 |

MATRIX SPIKE SAMPLE: 753592

| Parameter | Units | 92116828001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Sulfate | ug/L | 8880 | 20000 | 27500J | 93 | 90-110 | |

SAMPLE DUPLICATE: 753591

| Parameter | Units | 92116412004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Sulfate | ug/L | 20600J | 20600J | 0 | 20 | |

SAMPLE DUPLICATE: 753593

| Parameter | Units | 92116828001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Sulfate | ug/L | 8880 | 8660J | 2 | 20 | |



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# QUALITY CONTROL DATA

Project: NMLF EP-1217
Pace Project No.: 92116412

QC Batch: WETA/12009 — Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E — Analysis Description: 4500 Chloride
Associated Lab Samples: 92116412001, 92116412002, 92116412003, 92116412004, 92116412005, 92116412006

METHOD BLANK: 754041 — Matrix: Water
Associated Lab Samples: 92116412001, 92116412002, 92116412003, 92116412004, 92116412005, 92116412006

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Chloride | ug/L | ND | 5000 | 04/24/12 10:50 | |

LABORATORY CONTROL SAMPLE: 754042

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | ug/L | 20000 | 19900 | 100 | 90-110 | |

MATRIX SPIKE SAMPLE: 754043

| Parameter | Units | 92116412001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Chloride | ug/L | ND | 20000 | 23900 | 102 | 75-125 | |

SAMPLE DUPLICATE: 754044

| Parameter | Units | 92116412002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | ug/L | 5370 | 5600 | 4 | 20 | |



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# QUALIFIERS

Project: NMLF EP-1217
Pace Project No.: 92116412

## DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Acid preservation may not be appropriate for 2-Chloroethylvinyl ether, Styrene, and Vinyl chloride.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## LABORATORIES

| | |
|---|---|
| PASI-A | Pace Analytical Services - Asheville |
| PASI-C | Pace Analytical Services - Charlotte |

## ANALYTE QUALIFIERS

| | |
|---|---|
| D6 | The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits. |
| F3 | The recovery of the second source standard used to verify the initial calibration curve for this analyte is outside the laboratory's control limits. The result is estimated. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |



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(828)254-7176

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Huntersville, NC 28078
(704)875-9092

# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NMLF EP-1217
Pace Project No.: 92116412

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| 92116412001 | MW-1 | EPA 3010 | MPRP/10408 | EPA 6010 | ICP/9584 |
| 92116412002 | MW-4 | EPA 3010 | MPRP/10408 | EPA 6010 | ICP/9584 |
| 92116412003 | MW-5 | EPA 3010 | MPRP/10408 | EPA 6010 | ICP/9584 |
| 92116412004 | MW-6 | EPA 3010 | MPRP/10408 | EPA 6010 | ICP/9584 |
| 92116412005 | MW-10 | EPA 3010 | MPRP/10408 | EPA 6010 | ICP/9584 |
| 92116412006 | MW-11 | EPA 3010 | MPRP/10408 | EPA 6010 | ICP/9584 |
| 92116412001 | MW-1 | EPA 7470 | MERP/4188 | EPA 7470 | MERC/4111 |
| 92116412002 | MW-4 | EPA 7470 | MERP/4188 | EPA 7470 | MERC/4111 |
| 92116412003 | MW-5 | EPA 7470 | MERP/4188 | EPA 7470 | MERC/4111 |
| 92116412004 | MW-6 | EPA 7470 | MERP/4188 | EPA 7470 | MERC/4111 |
| 92116412005 | MW-10 | EPA 7470 | MERP/4188 | EPA 7470 | MERC/4111 |
| 92116412006 | MW-11 | EPA 7470 | MERP/4188 | EPA 7470 | MERC/4111 |
| 92116412001 | MW-1 | EPA 8260 | MSV/18811 | | |
| 92116412002 | MW-4 | EPA 8260 | MSV/18811 | | |
| 92116412003 | MW-5 | EPA 8260 | MSV/18811 | | |
| 92116412004 | MW-6 | EPA 8260 | MSV/18811 | | |
| 92116412005 | MW-10 | EPA 8260 | MSV/18811 | | |
| 92116412006 | MW-11 | EPA 8260 | MSV/18811 | | |
| 92116412007 | Field Blank | EPA 8260 | MSV/18811 | | |
| 92116412008 | Trip Blank | EPA 8260 | MSV/18811 | | |
| 92116412001 | MW-1 | SM 2320B | WET/20546 | | |
| 92116412002 | MW-4 | SM 2320B | WET/20546 | | |
| 92116412003 | MW-5 | SM 2320B | WET/20582 | | |
| 92116412004 | MW-6 | SM 2320B | WET/20582 | | |
| 92116412005 | MW-10 | SM 2320B | WET/20582 | | |
| 92116412006 | MW-11 | SM 2320B | WET/20582 | | |
| 92116412001 | MW-1 | SM 2540C | WET/20477 | | |
| 92116412002 | MW-4 | SM 2540C | WET/20477 | | |
| 92116412003 | MW-5 | SM 2540C | WET/20477 | | |
| 92116412004 | MW-6 | SM 2540C | WET/20477 | | |
| 92116412005 | MW-10 | SM 2540C | WET/20477 | | |
| 92116412006 | MW-11 | SM 2540C | WET/20477 | | |
| 92116412001 | MW-1 | EPA 300.0 | WETA/11996 | | |
| 92116412002 | MW-4 | EPA 300.0 | WETA/11996 | | |
| 92116412003 | MW-5 | EPA 300.0 | WETA/11996 | | |
| 92116412004 | MW-6 | EPA 300.0 | WETA/11997 | | |
| 92116412005 | MW-10 | EPA 300.0 | WETA/11997 | | |
| 92116412006 | MW-11 | EPA 300.0 | WETA/11997 | | |
| 92116412001 | MW-1 | SM 4500-Cl-E | WETA/12009 | | |
| 92116412002 | MW-4 | SM 4500-Cl-E | WETA/12009 | | |
| 92116412003 | MW-5 | SM 4500-Cl-E | WETA/12009 | | |
| 92116412004 | MW-6 | SM 4500-Cl-E | WETA/12009 | | |
| 92116412005 | MW-10 | SM 4500-Cl-E | WETA/12009 | | |
| 92116412006 | MW-11 | SM 4500-Cl-E | WETA/12009 | | |



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# CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1546137

**Section A** Required Client Information:

Company: Enviro-Pro, P.C.
Address: 2646 Farmlake Ln. Ft. Mill, SC 29708
Email To: enviropro@comporium.net
Phone: 803-547-4955 Fax:
Requested Due Date/TAT:

**Section B** Required Project Information:

Report To: Tom Bolyard
Copy To: —
Purchase Order No.:
Project Name: NMLF
Project Number: EP-1217

**Section C** Invoice Information:

Attention: T. Bolyard
Company Name: Same
Address:
Pace Quote Reference:
Pace Project Manager: K. Godwin
Pace Profile #: 2047-1

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER Solid Waste

Site Location STATE: NC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

| ITEM # | SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED COMPOSITE START DATE | COMPOSITE START TIME | COMPOSITE END/GRAB DATE | COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test (Y/N) | App I VOCs + THF | App I Metals + Hg | Alkalinity | Chloride | Sulfate | TDS | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. 92116412 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-1 | WT | G | | | 4/11/12 | 7:30 | | 7 | 3 | | 1 | 3 | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | 001 |
| 2 | MW-4 | WT | G | | | " | 8:00 | | 7 | 3 | | 1 | 3 | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | 002 |
| 3 | MW-5 | WT | G | | | " | 8:30 | | 7 | 3 | | 1 | 3 | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | 003 |
| 4 | MW-6 | WT | G | | | " | 9:00 | | 7 | 3 | | 1 | 3 | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | 004 |
| 5 | MW-10 | WT | G | | | " | 9:30 | | 7 | 3 | | 1 | 3 | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | 005 |
| 6 | MW-11 | WT | G | | | " | 10:00 | | 7 | 3 | | 1 | 3 | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | 006 |
| 7 | Field Blank | WT | G | | | " | 9:15 | | 2 | | | | 2 | | | | | | ✓ | | | | | | | 007 |
| 8 | Trip Blank | WT | | | | | | | 2 | | | | 2 | | | | | | ✓ | | | | | | | 008 |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME |
|---|---|---|---|---|---|---|
| Use lower-level NC Solid Waste detection limits; Also - send EDD version | T. Bolyard / Enviro-Pro | 4/13/12 | 10:10 | D. Moody / Pace | 4-13-12 | 10:10 |
| | D. Moody | 4-13-12 | 15:00 | Justin Matthews / Pace | 4-13-12 | 15:00 |

| SAMPLE CONDITIONS | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|
| | 1.9 | Y | N | Y |

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: T. Bolyard
SIGNATURE of SAMPLER: T. Bolyard
DATE Signed (MM/DD/YY): 4/12/12

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

| Pace Analytical | Document Name: **Sample Condition Upon Receipt (SCUR)** | Document Revised: January 30, 2012 Page 1 of 2 |
|---|---|---|
| | Document Number: **F-CHR-CS-03-rev.06** | Issuing Authority: Pace Huntersville Quality Office |

Client Name: Enviro-Pro Project # 92116412

**Where Received:** ☑ Huntersville ☐ Asheville ☐ Eden

**Courier:** ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other_____

**Custody Seal on Cooler/Box Present:** ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

**Packing Material:** ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other_____

**Thermometer Used: IR Gun** (T1101) T1102 **Type of Ice:** (Wet) Blue None ☑ Samples on ice, cooling process has begun

**Temp Correction Factor** **T1101**: No Correction **T1102**: Subtract 1.2°C

**Corrected Cooler Temp.:** 1.9° C **Biological Tissue is Frozen:** Yes No N/A

**Date and Initials of person examining contents:** JMM 4-13-12

Temp should be above freezing to 6°C

| | | Comments: |
|---|---|---|
| Chain of Custody Present: | ☑Yes ☐No ☐N/A | 1. |
| Chain of Custody Filled Out: | ☑Yes ☑No ☐N/A | 2. no time or date on COC for trip blank |
| Chain of Custody Relinquished: | ☑Yes ☐No ☐N/A | 3. |
| Sampler Name & Signature on COC: | ☑Yes ☐No ☐N/A | 4. |
| Samples Arrived within Hold Time: | ☑Yes ☐No ☐N/A | 5. |
| **Short Hold Time Analysis (<72hr):** | ☐Yes ☑No ☐N/A | 6. |
| **Rush Turn Around Time Requested:** | ☐Yes ☑No ☐N/A | 7. |
| Sufficient Volume: | ☑Yes ☐No ☐N/A | 8. |
| Correct Containers Used: | ☑Yes ☐No ☐N/A | 9. |
| -Pace Containers Used: | ☑Yes ☐No ☐N/A | |
| Containers Intact: | ☑Yes ☐No ☐N/A | 10. |
| Filtered volume received for Dissolved tests | ☐Yes ☐No ☑N/A | 11. |
| Sample Labels match COC: -Includes date/time/ID/Analysis Matrix:_____ | ☑Yes ☑No ☐N/A | 12. no time or date on trip blank sample labels. |
| All containers needing preservation have been checked. | ☑Yes ☐No ☐N/A | 13. |
| All containers needing preservation are found to be in compliance with EPA recommendation. | ☑Yes ☐No ☐N/A | |
| exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) | ☐Yes ☐No | Initial when completed |
| Samples checked for dechlorination: | ☐Yes ☐No ☑N/A | 14. |
| Headspace in VOA Vials ( >6mm): | ☐Yes ☑No ☐N/A | 15. |
| Trip Blank Present: | ☑Yes ☐No ☐N/A | 16. |
| Trip Blank Custody Seals Present | ☑Yes ☐No ☐N/A | |
| Pace Trip Blank Lot # (if purchased):_____ | | |

**Client Notification/ Resolution:** Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

**SCURF Review:** CAH **Date:** 4/13/12 **SRF Review:** EW **Date:** 4/13/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e out of hold, incorrect preservative, out of temp, incorrect containers)

# APPENDIX B

# WELL DEVELOPMENT, PURGE, AND SAMPLE RECORD

CLIENT: North Meck Landfill, LLC
LOCATION: 15300 Holbrooks Rd., Huntersville, NC
PROJECT NAME/DESCRIPTION: NMLF
DATE OF WATER LEVEL MEASUREMENTS: 4-11-12

DEVELOP:
PURGING: ✓
SAMPLING: ✓

PROJECT NO.: EP-1217
PROJ. MGR.: THB
CHECKED BY:
PREPARED BY: THB

| Sample ID | A<br>Well No. | B<br>Sample Date | C<br>Time (hrs) | D<br>Well Depth (ft) | E<br>MP Elevation (ft) | F<br>Depth to Water (ft-bmp) | (E-F)=G<br>Water Level Elevation (ft) | (D-F)=H<br>Hgt. of Water Col. (ft) | I<br>Volume of Water (gal)* | Vol. of Water Pgd. (gal)** | Temp. (°C) | Specific Cond. (umhos) | pH | Turbidity or Appearance |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MW-1 | 4-11-12 | 7:30 | 25 | | 13.92 | | 11.08 | 1.8 | 5.4 | | | | |
| | MW-4 | " | 8:00 | 42 | | 36.77 | | 5.23 | .8 | 2.5 | | | | |
| | MW-5 | " | 8:30 | 29 | | 27.41 | | 6.59 | 1.07 | 3.2 | | | | |
| | MW-6 | " | 9:00 | 67 | | 56.10 | | 10.9 | 1.77 | 5.3 | | | | |
| | MW-10 | " | 9:30 | 24 | | 16.20 | | 7.8 | 1.2 | 3.6 | | | | |
| | MW-11 | " | 10:00 | 73 | | 45.45 | | 27.55 | 4.4 | 13 | | | | |
| | | | | | | | | | | | | | | |
| | Field Blank | " | 9:15 | — | | | | | | | | | | |

Comments:

*To calculate volume of water in the well multiply "H" by 0.163 for a 2" well, 0.652 for a 4" well, or 1.469 for a 6" well

**To calculate purge volume, multiply "I" by the desired number of well volumes (e.g., 3 to 5)

(e.g., after each well volume).