## Barbee, Zinith

**From:** Barbee, Zinith
**Sent:** Friday, January 08, 2010 10:39 AM
**To:** 'Tim.Rogers@waynegov.com'
**Cc:** Drummond, Jaclynne; 'mgerman@mesco.com'
**Subject:** RE: Wayne County MNA sampling

Thank you for the submission of sampling data. The file has been entered into the SWS database as Doc ID 9259 and will be utilized as part of reviews of the Corrective Action Plan for the site.

Zinith Barbee
Hydrogeologist
Solid Waste Section
Permitting Branch
Division of Waste Management

1646 Mail Service Center
Raleigh, NC 27699-1646
tel: 919.508.8401 fax: 919.733.4810

/E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties./

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**From:** Drummond, Jaclynne
**Sent:** Thursday, January 07, 2010 9:13 AM
**To:** Barbee, Zinith
**Subject:** FW: Wayne County MNA sampling

**Jaclynne Drummond**
Compliance Hydrogeologist
NC Department of Environment and Natural Resources
Division of Waste Management – Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646
919-508-8500, Fax 919-733-4810
http://wastenotnc.org/swhome

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties.

New email address is jaclynne.drummond@ncdenr.gov

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**From:** Maddie German [mailto:mgerman@mesco.com]
**Sent:** Wednesday, January 06, 2010 11:26 AM
**To:** Drummond, Jaclynne
**Cc:** Tim.Rogers@waynegov.com
**Subject:** Wayne County MNA sampling

Jaclynne,

I have attached the semi-annual Monitored Natural Attenuation (MNA) sampling summary for Wayne County. Due to the limited nature of the data, I do not intend to submit a paper copy. If you require hard copies let me know and I will be happy to oblige you. Please contact me with any questions or comments you may have regarding these semi-annual MNA submittals.

Respectfully,

Madeline German
Municipal Engineering Services Company, P.A.
Garner, NC 27529
(919) 772-5393

OPERATION/CONSTRUCTION MANAGERS

**Municipal Services**

CIVIL/SANITARY ENGINEERS

**Engineering Company, P.A.**

January 6, 2010

Ms. Jaclynne Drummond
Solid Waste Section
Division of Waste Management
North Carolina Department of Environment and Natural Resources
401 Oberlin Road, Suite 150
Raleigh, NC 27605

Re: Monitored Natural Attenuation Semi-Annual Sampling Report
Wayne County Landfill
Dudley, NC 28333

Permit No. 96-01
MESCO Project No. G07058.0

Dear Ms. Drummond:

The Wayne County Closed Unlined Municipal Solid Waste Landfill (MSWLF) and Active Construction and Demolition (C&D) Landfill located near Dudley NC, currently operating under permit #96-01, has commenced Monitored Natural Attenuation (MNA) monitoring in accordance with the Corrective Action Plan (CAP) approved October 2009. This event was performed on August 4 & 6, 2009 along with traditional semi-annual sampling.

As proposed in the CAP, Municipal Engineering Services Company, P.A. (MESCO) collected groundwater samples, to be tested for MNA parameters, from 3 monitoring wells (MW-1, MW-2, and MW-8 ). A facility map is provided on **Plate 1** illustrating monitoring well locations and groundwater flow direction. **Plate 2** depicts the constituents of concern above 2L concentrations; based on laboratory results from the current sampling event. 2L values were matched to the standards used in the semi-annual sampling report for consistency. Sampling was conducted per the methodology listed in the approved CAP Groundwater and Surface Water Sampling and Analysis Plan.

**Table 1** lists the wells with their required MNA sampling parameter results. Appendix 1 metals and VOC laboratory results for the current sampling event are included. Further analysis will be conducted with further sampling events. As required by the Solid Waste Section an evaluation of MNA's effectiveness as a remedy will be presented in a Comprehensive MNA Evaluation Report after four sampling events are conducted.

The next semi-annual sampling event is scheduled for February 2010 and the lab results will be submitted upon completion. If you have any questions or comments regarding this sampling update, please contact me by phone at (919) 772-5393 or by email at mgerman@mesco.com.

Sincerely,
MUNICIPAL ENGINEERING SERVICES CO., P.A.

Madeline German
Geoscientist

Enclosures
cc: Mr. Tim Rogers, Wayne County

PO Box 97, Garner, North Carolina 27529 (919) 772-5393
PO Box 828, Morehead City, NC 28557 (252) 726-9481 PO Box 349, Boone, North Carolina 28607 (828) 262-1767

**Table 1:** MNA Parameters at Monitoring Well Locations

| Parameters | Method | mdl* | Units | MW-1 | MW-2 | MW-8 |
|---|---|---|---|---|---|---|
| | | | | 08/06/09 | 08/06/09 | 08/06/09 |
| VFA – Acetic Acid | AM21G | 1 | mg/L | BQL | BQL | BQL |
| VFA – Butyric Acid | AM21G | 1 | mg/L | BQL | BQL | BQL |
| VFA – Lactic Acid | AM21G | 25 | mg/L | BQL | BQL | BQL |
| VFA – Propionic Acid | AM21G | 1 | mg/L | BQL | BQL | BQL |
| VFA – Pyruvic Acid | AM21G | 10 | mg/L | BQL | BQL | BQL |
| Hydrogen* | AM20GAX | 0.6 | nM | 1.8 | 1400 | 140 |
| Methane | AM20GAX | 0.015 | ug/L | 0.045 | 4700 | 3.9 |
| Ethene | AM20GAX | 0.01 | ug/L | 0.011 | 0.013 | 0.007 |
| Ethane | AM20GAX | 0.01 | ug/L | BQL | 0.8 | 0.003 |
| CO2-Dissolved | Field Hach Kit | 1 | mg/L | 20 | >100 | >100 |
| Alkalinity | SM 2320B | 5000 | ug/L | BQL | 652000 | BQL |
| Sulfate | ASTM D516-90 | 5000 | ug/L | 6360 | 27100 | BQL |
| Sulfide | SM 4500-S2D | 100 | ug/L | BQL | BQL | BQL |
| Chloride | SM 4500-Cl-E | 5000 | ug/L | BQL | 47000 π | 14700 |
| TOC | SM 5310B | 1000 | ug/L | 1900 | 44000 | 5400 |
| COD | SM 5220D | 25000 | ug/L | BQL | 85900 | BQL |
| BOD | SM5210B | 2000 | ug/L | BQL | 12600 | BQL |
| Iron | EPA 6010 | 14 | ug/L | 550 | 50100 | 9680 |
| Nitrate | EPA 353.2 | 100 | ug/L | 447 | 257 | 204 |
| Temperature | Field Instrument | 0 | Degrees C | 21.7 | 24.1 | 20.2 |
| ORP | Field Instrument | -900 | mV | 270 | 193 | 242 |
| DO | Field Instrument | 0 | mg/L | 6.9 | 0.9 | 0.9 |
| pH | Field Instrument | 0 | Standard Units | 5.13 | 6.45 | 4.65 |
| Specific Conductance | Field Instrument | 0 | us/cm | 30 | 1890 | 90 |
| Turbidity | Field Instrument | 0 | NTU | 11.9 | 13.8 | 76.3 |

Notes:

VFA = Volitile Fatty Acid

mdl* = Lowest Method Detection Limit for Lab Parameters or Lowest Field Measurement Possible

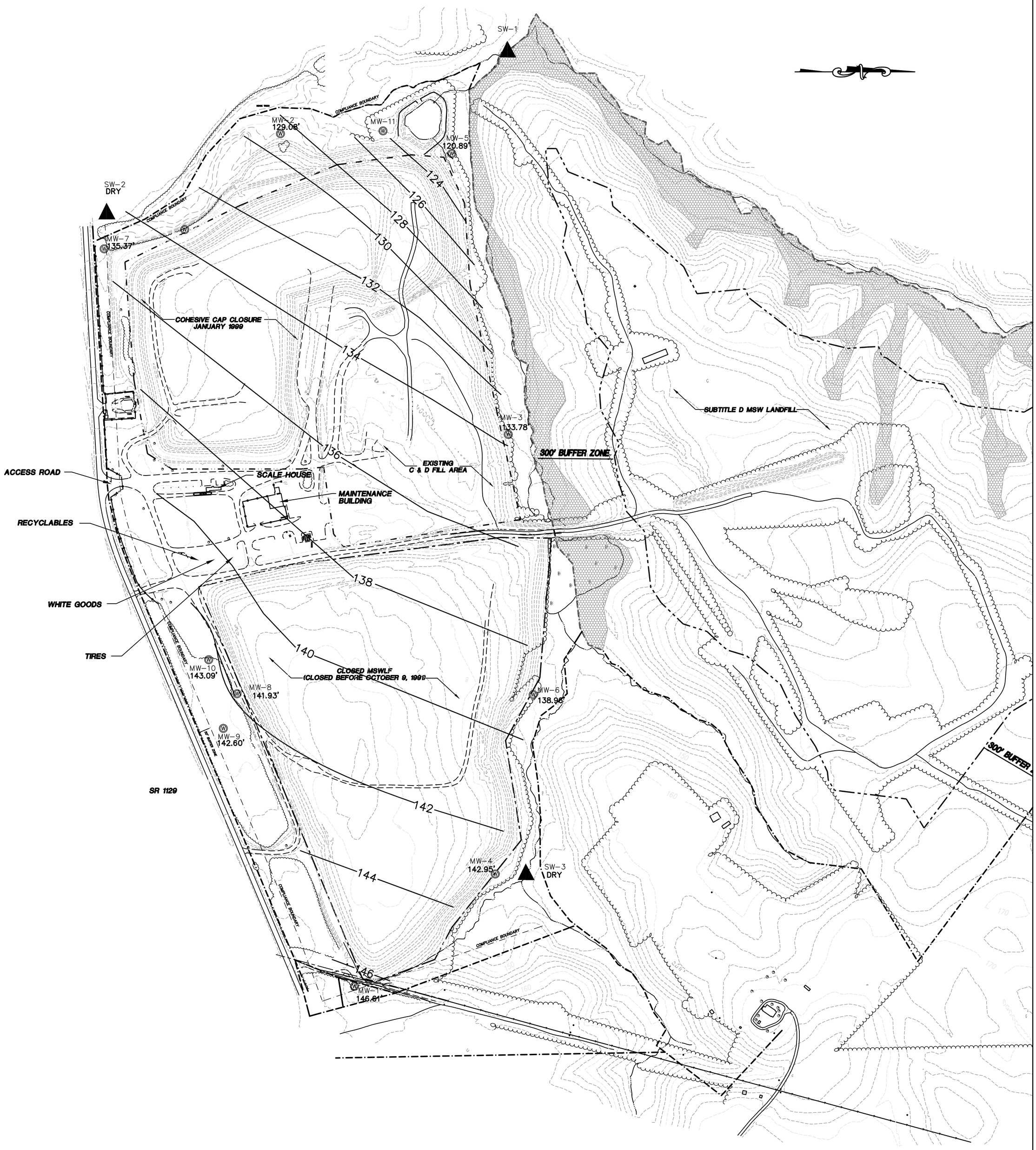
BQL = Below Quantitation Limit

>100 = CO2 Concentration Exceeds Maximum capability of Method Used

na = Not Analyzed or Not Applicable

Hydrogen artificially elevated due to use of steel washer on sampling device.

Π – Chloride in MW-2 used a 2x dilution (mdl = 10000)




## LEGEND

MW-5 (W) MONITORING WELL, C&D LANDFILL

121.78' GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

SW-1 ▲ SURFACE WATER SAMPLING POINT, C&D LANDFILL

——124—— POTENTIOMETRIC CONTOUR (CONTOUR INTERVAL = 2 FEET)

EXISTING TOPOGRAPHIC CONTOURS
PROPERTY LINE
EXISTING UNPAVED ROAD
EXISTING CREEK, STREAM, ETC.
EXISTING DIVERSION DITCHES
CLOSED MSWLF SANITARY UNIT
WETLANDS

GRAPHIC SCALE

200 0 100 200 400 800

( IN FEET )
1 inch = 200 ft.

| DRAWING NO. | SHEET NO. | PROJECT NUMBER | CHKD. BY: | DRWN. BY: | DATE: | SCALE: |
|---|---|---|---|---|---|---|
| PLATE 2 | 1 OF 1 | G07058.0 | S. PATRICK | S. PATRICK | 08/13/09 | 1" = 200' |

| DATE | BY | REV. | DESCRIPTION |
|---|---|---|---|
| | | | |

SINGLE-DAY POTENTIOMETRIC SURFACE MAP
(AUGUST 6, 2009)

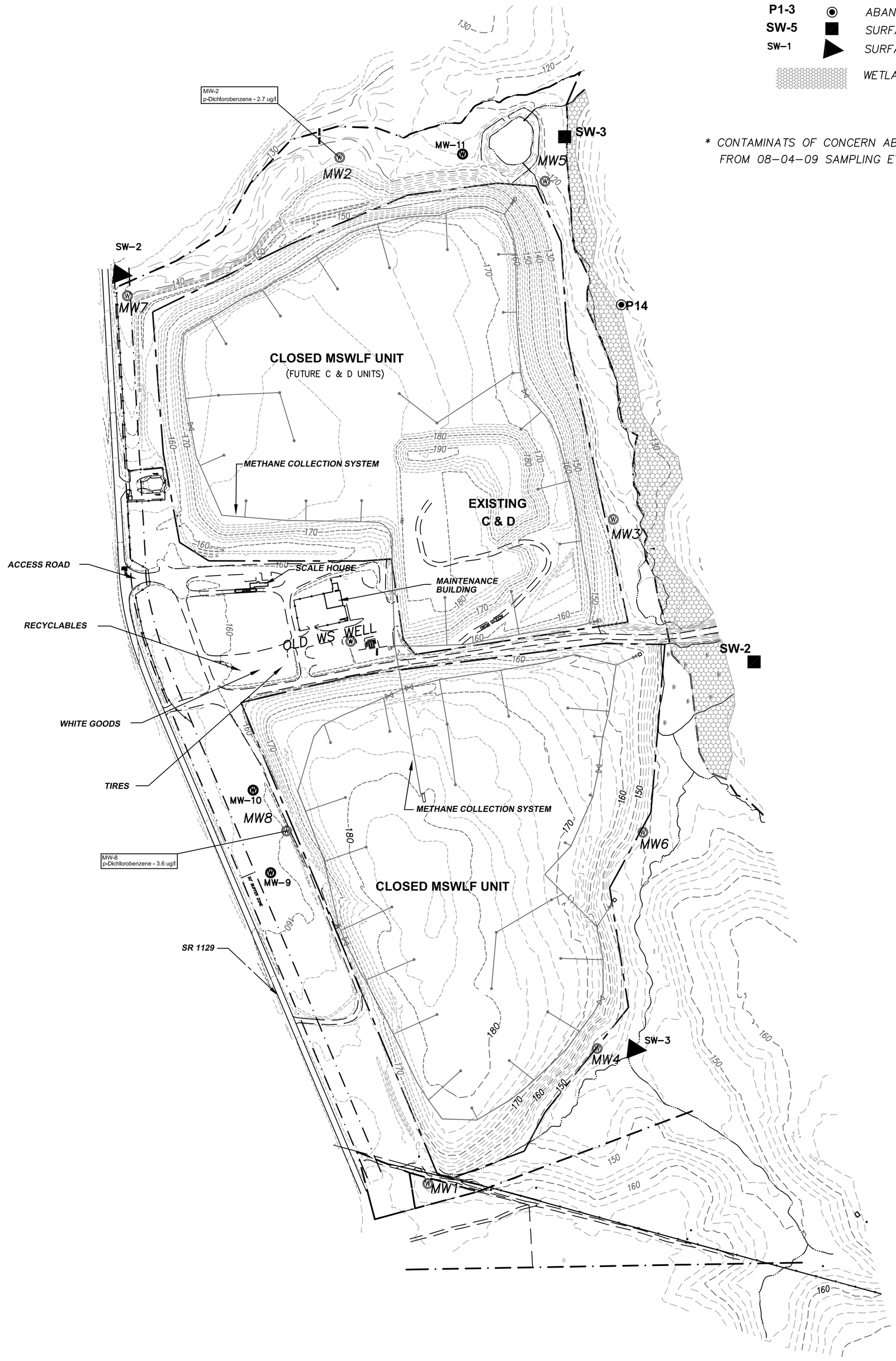
MUNICIPAL SOLID WASTE
LANDFILL FACILITY
WAYNE COUNTY
NORTH CAROLINA

LICENSE NUMBER: C-0281
Municipal Services
P.O. BOX 97 GARNER, N.C. 27529
(919) 772-5393
Engineering Company, P.A.
P.O. BOX 349 BOONE, N.C. 28607
(828) 262-1767
P.O. BOX 828 MOREHEAD CITY, N.C. 28557
(252) 726-9481

## LEGEND

- EXISTING CONTOURS
- PROPERTY LINE
- EXISITING UNPAVED ROAD
- EXISTING CREEK, STREAM, ETC.
- EXISTING DIVERSION DITCHES
- CLOSED MSWLF SANITARY UNIT
- P3-17 — PIEZOMETER LOCATION
- MW5 — MONITORING WELLS C&D LANDFILL
- MW-1 — MONITORING WELLS SUBTITLE D
- P1-3 — ABANDONED PIEZOMETER
- SW-5 — SURFACE WATER SAMPLING SUBTITLE D
- SW-1 — SURFACE WATER SAMPLING C&D
- WETLANDS

* CONTAMINATS OF CONCERN ABOVE 2L FROM 08-04-09 SAMPLING EVENT




# PLATE 2

| DRAWING NO. | SHEET NO. | PROJECT NUMBER | CHKD. BY: | DRWN. BY: | DATE: | SCALE: |
|---|---|---|---|---|---|---|
| PLATE 2 | 1 OF 1 | G07058.0 | M. BROWN | M. GERMAN | 12/20/2009 | 1" = 200' |

| DATE | BY | REV. | DESCRIPTION |
|---|---|---|---|
| | | | |

WELL CONCENTRATIONS OF CONTAMINANTS OF CONCERN ABOVE 2L

**MUNICIPAL SOLID WASTE LANDFILL FACILITY**
**WAYNE COUNTY NORTH CAROLINA**


LICENSE NUMBER: C-0281
Municipal Services
P.O. BOX 97 GARNER, N.C. 27529
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(828) 262-1767
P.O. BOX 828 MOREHEAD CITY, N.C. 28557
(252) 726-9481

# Laboratory Results

**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

September 17, 2009

Mr. Jonathan Pfohl
Municipal Engineering Services
PO Box 97
Garner, NC 27529

RE: Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory between August 05, 2009 and August 07, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

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

Sincerely,

Brandon Helton

Brandon Helton for
Bonnie McKee
bonnie.mckee@pacelabs.com
Project Manager

Enclosures

cc: Ms. Maggie German, Municipal Engineering Services



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# CERTIFICATIONS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Charlotte Certification IDs**

West Virginia Certification #: 357
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 990060001
South Carolina Drinking Water Cert. #: 990060003
Tennessee Certification #: 04010

**Asheville Certification IDs**

West Virginia Certification #: 356
Florida/NELAP Certification #: E87648
Louisiana/LELAP Certification #: 03095
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
Connecticut Certification #: PH-0106
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Tennessee Certification #: 2980
Virginia Certification #: 00072
North Carolina Drinking Water Certification #: 37712



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Huntersville, NC 28078
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## SAMPLE SUMMARY

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **9250227001** | **MW-3** | Water | 08/04/09 11:00 | 08/05/09 16:50 |
| **9250227002** | **MW-4** | Water | 08/04/09 10:00 | 08/05/09 16:50 |
| **9250227003** | **MW-5** | Water | 08/04/09 11:45 | 08/05/09 16:50 |
| **9250227004** | **MW-6** | Water | 08/04/09 10:35 | 08/05/09 16:50 |
| **9250227005** | **MW-7** | Water | 08/04/09 13:45 | 08/05/09 16:50 |
| **9250227006** | **MW-1** | Water | 08/06/09 09:00 | 08/07/09 14:37 |
| **9250227007** | **MW-2** | Water | 08/06/09 14:30 | 08/07/09 14:37 |
| **9250227008** | **MW-8** | Water | 08/06/09 14:30 | 08/07/09 14:37 |
| **9250227009** | **SW-1** | Water | 08/06/09 00:00 | 08/07/09 14:37 |



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(704)875-9092

# SAMPLE ANALYTE COUNT

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **9250227001** | **MW-3** | EPA 6010 | SHB | 15 | PASI-A |
| | | EPA 7470 | SAJ | 1 | PASI-A |
| | | EPA 8260 | MCK | 54 | PASI-C |
| **9250227002** | **MW-4** | EPA 6010 | SHB | 15 | PASI-A |
| | | EPA 7470 | SAJ | 1 | PASI-A |
| | | EPA 8260 | MCK | 54 | PASI-C |
| **9250227003** | **MW-5** | EPA 6010 | SHB | 15 | PASI-A |
| | | EPA 7470 | SAJ | 1 | PASI-A |
| | | EPA 8260 | MCK | 54 | PASI-C |
| **9250227004** | **MW-6** | EPA 6010 | SHB | 15 | PASI-A |
| | | EPA 7470 | SAJ | 1 | PASI-A |
| | | EPA 8260 | MCK | 54 | PASI-C |
| **9250227005** | **MW-7** | EPA 6010 | SHB | 15 | PASI-A |
| | | EPA 7470 | SAJ | 1 | PASI-A |
| | | EPA 8260 | MCK | 54 | PASI-C |
| **9250227006** | **MW-1** | ASTM D516-90 | LEP | 1 | PASI-A |
| | | EPA 353.2 | DMN | 1 | PASI-A |
| | | EPA 6010 | SHB | 16 | PASI-A |
| | | EPA 7470 | SAJ | 1 | PASI-A |
| | | EPA 8260 | MCK | 54 | PASI-C |
| | | SM 2320B | LEP | 1 | PASI-A |
| | | SM 4500-Cl-E | LEP | 1 | PASI-A |
| | | SM 4500-S2D | JDA | 1 | PASI-A |
| | | SM 5210B | JMW | 1 | PASI-A |
| | | SM 5220D | TEE | 1 | PASI-A |
| | | SM 5310B | EWS | 1 | PASI-A |
| **9250227007** | **MW-2** | ASTM D516-90 | LEP | 1 | PASI-A |
| | | EPA 353.2 | DMN | 1 | PASI-A |
| | | EPA 6010 | SHB | 16 | PASI-A |
| | | EPA 7470 | SAJ | 1 | PASI-A |
| | | EPA 8260 | MCK | 54 | PASI-C |
| | | SM 2320B | LEP | 1 | PASI-A |
| | | SM 4500-Cl-E | LEP | 1 | PASI-A |
| | | SM 4500-S2D | JDA | 1 | PASI-A |
| | | SM 5210B | JMW | 1 | PASI-A |
| | | SM 5220D | TEE | 1 | PASI-A |
| | | SM 5310B | EWS | 1 | PASI-A |



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Huntersville, NC 28078
(704)875-9092

# SAMPLE ANALYTE COUNT

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|---|---|---|---|---|---|
| **9250227008** | **MW-8** | ASTM D516-90 | LEP | 1 | PASI-A |
| | | EPA 353.2 | DMN | 1 | PASI-A |
| | | EPA 6010 | SHB | 16 | PASI-A |
| | | EPA 7470 | SAJ | 1 | PASI-A |
| | | EPA 8260 | MCK | 54 | PASI-C |
| | | SM 2320B | LEP | 1 | PASI-A |
| | | SM 4500-Cl-E | LEP | 1 | PASI-A |
| | | SM 4500-S2D | JDA | 1 | PASI-A |
| | | SM 5210B | JMW | 1 | PASI-A |
| | | SM 5220D | TEE | 1 | PASI-A |
| | | SM 5310B | EWS | 1 | PASI-A |
| **9250227009** | **SW-1** | EPA 6010 | SHB | 15 | PASI-A |
| | | EPA 8260 | MCK | 54 | PASI-C |



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(704)875-9092

# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: MW-3** **Lab ID: 9250227001** Collected: 08/04/09 11:00 Received: 08/05/09 16:50 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 | 2.6 | 1 | 08/07/09 11:10 | 08/13/09 02:45 | 7440-36-0 | |
| Arsenic | ND | ug/L | 10.0 | 2.7 | 1 | 08/07/09 11:10 | 08/13/09 02:45 | 7440-38-2 | |
| Barium | **17.0J** | ug/L | 100 | 0.20 | 1 | 08/07/09 11:10 | 08/13/09 02:45 | 7440-39-3 | |
| Beryllium | **0.24J** | ug/L | 1.0 | 0.10 | 1 | 08/07/09 11:10 | 08/13/09 02:45 | 7440-41-7 | |
| Cadmium | ND | ug/L | 1.0 | 0.50 | 1 | 08/07/09 11:10 | 08/13/09 02:45 | 7440-43-9 | |
| Chromium | ND | ug/L | 10.0 | 0.40 | 1 | 08/07/09 11:10 | 08/13/09 02:45 | 7440-47-3 | |
| Cobalt | ND | ug/L | 10.0 | 0.60 | 1 | 08/07/09 11:10 | 08/13/09 02:45 | 7440-48-4 | |
| Copper | ND | ug/L | 10.0 | 0.30 | 1 | 08/07/09 11:10 | 08/13/09 02:45 | 7440-50-8 | |
| Lead | ND | ug/L | 10.0 | 4.0 | 1 | 08/07/09 11:10 | 08/13/09 02:45 | 7439-92-1 | |
| Nickel | ND | ug/L | 50.0 | 1.7 | 1 | 08/07/09 11:10 | 08/13/09 02:45 | 7440-02-0 | |
| Selenium | ND | ug/L | 10.0 | 3.8 | 1 | 08/07/09 11:10 | 08/13/09 02:45 | 7782-49-2 | |
| Silver | ND | ug/L | 10.0 | 0.10 | 1 | 08/07/09 11:10 | 08/13/09 02:45 | 7440-22-4 | |
| Thallium | ND | ug/L | 5.5 | 3.0 | 1 | 08/07/09 11:10 | 08/13/09 02:45 | 7440-28-0 | |
| Vanadium | **1.1J** | ug/L | 25.0 | 0.20 | 1 | 08/07/09 11:10 | 08/13/09 02:45 | 7440-62-2 | Z2 |
| Zinc | **17.8** | ug/L | 10.0 | 0.40 | 1 | 08/07/09 11:10 | 08/13/09 02:45 | 7440-66-6 | Z2 |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | ND | ug/L | 0.20 | 0.070 | 1 | 08/17/09 11:18 | 08/17/09 14:35 | 7439-97-6 | M0 |
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | ND | ug/L | 100 | 2.2 | 1 | | 08/11/09 15:27 | 67-64-1 | |
| Acrylonitrile | ND | ug/L | 200 | 1.9 | 1 | | 08/11/09 15:27 | 107-13-1 | |
| Benzene | **0.30J** | ug/L | 1.0 | 0.25 | 1 | | 08/11/09 15:27 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 3.0 | 0.17 | 1 | | 08/11/09 15:27 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 0.18 | 1 | | 08/11/09 15:27 | 75-27-4 | |
| Bromoform | ND | ug/L | 3.0 | 0.26 | 1 | | 08/11/09 15:27 | 75-25-2 | |
| Bromomethane | ND | ug/L | 10.0 | 0.29 | 1 | | 08/11/09 15:27 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 100 | 0.96 | 1 | | 08/11/09 15:27 | 78-93-3 | |
| Carbon disulfide | ND | ug/L | 100 | 1.2 | 1 | | 08/11/09 15:27 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 0.25 | 1 | | 08/11/09 15:27 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 3.0 | 0.23 | 1 | | 08/11/09 15:27 | 108-90-7 | |
| Chloroethane | ND | ug/L | 10.0 | 0.54 | 1 | | 08/11/09 15:27 | 75-00-3 | |
| Chloroform | ND | ug/L | 5.0 | 0.14 | 1 | | 08/11/09 15:27 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 0.11 | 1 | | 08/11/09 15:27 | 74-87-3 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 13.0 | 2.5 | 1 | | 08/11/09 15:27 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 3.0 | 0.21 | 1 | | 08/11/09 15:27 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 0.27 | 1 | | 08/11/09 15:27 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 10.0 | 0.21 | 1 | | 08/11/09 15:27 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 5.0 | 0.30 | 1 | | 08/11/09 15:27 | 95-50-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 0.33 | 1 | | 08/11/09 15:27 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | ND | ug/L | 100 | 1.0 | 1 | | 08/11/09 15:27 | 110-57-6 | |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | 0.32 | 1 | | 08/11/09 15:27 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 0.12 | 1 | | 08/11/09 15:27 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | 0.56 | 1 | | 08/11/09 15:27 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.19 | 1 | | 08/11/09 15:27 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.49 | 1 | | 08/11/09 15:27 | 156-60-5 | |



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# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: MW-3** **Lab ID: 9250227001** Collected: 08/04/09 11:00 Received: 08/05/09 16:50 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 0.27 | 1 | | 08/11/09 15:27 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 0.28 | 1 | | 08/11/09 15:27 | 142-28-9 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.13 | 1 | | 08/11/09 15:27 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/11/09 15:27 | 10061-02-6 | |
| Ethylbenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 08/11/09 15:27 | 100-41-4 | |
| 2-Hexanone | ND | ug/L | 50.0 | 0.46 | 1 | | 08/11/09 15:27 | 591-78-6 | |
| Iodomethane | ND | ug/L | 10.0 | 0.32 | 1 | | 08/11/09 15:27 | 74-88-4 | |
| Methylene Chloride | ND | ug/L | 2.0 | 0.97 | 1 | | 08/11/09 15:27 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 100 | 0.33 | 1 | | 08/11/09 15:27 | 108-10-1 | |
| Styrene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/11/09 15:27 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 5.0 | 0.33 | 1 | | 08/11/09 15:27 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 3.0 | 0.40 | 1 | | 08/11/09 15:27 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 0.46 | 1 | | 08/11/09 15:27 | 127-18-4 | |
| Toluene | **0.60J** | ug/L | 1.0 | 0.26 | 1 | | 08/11/09 15:27 | 108-88-3 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 0.48 | 1 | | 08/11/09 15:27 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 0.29 | 1 | | 08/11/09 15:27 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 0.47 | 1 | | 08/11/09 15:27 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 08/11/09 15:27 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 0.41 | 1 | | 08/11/09 15:27 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 50.0 | 0.35 | 1 | | 08/11/09 15:27 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 0.62 | 1 | | 08/11/09 15:27 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 5.0 | 0.66 | 1 | | 08/11/09 15:27 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 0.66 | 1 | | 08/11/09 15:27 | 1330-20-7 | |
| o-Xylene | ND | ug/L | 1.0 | 0.23 | 1 | | 08/11/09 15:27 | 95-47-6 | |
| 4-Bromofluorobenzene (S) | 96 | % | 87-109 | | 1 | | 08/11/09 15:27 | 460-00-4 | |
| Dibromofluoromethane (S) | 103 | % | 85-115 | | 1 | | 08/11/09 15:27 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 100 | % | 79-120 | | 1 | | 08/11/09 15:27 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 70-120 | | 1 | | 08/11/09 15:27 | 2037-26-5 | |



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# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: MW-4** **Lab ID: 9250227002** Collected: 08/04/09 10:00 Received: 08/05/09 16:50 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 | 2.6 | 1 | 08/07/09 11:10 | 08/13/09 02:49 | 7440-36-0 | |
| Arsenic | ND | ug/L | 10.0 | 2.7 | 1 | 08/07/09 11:10 | 08/13/09 02:49 | 7440-38-2 | |
| Barium | **69.8J** | ug/L | 100 | 0.20 | 1 | 08/07/09 11:10 | 08/13/09 02:49 | 7440-39-3 | |
| Beryllium | **0.10J** | ug/L | 1.0 | 0.10 | 1 | 08/07/09 11:10 | 08/13/09 02:49 | 7440-41-7 | |
| Cadmium | ND | ug/L | 1.0 | 0.50 | 1 | 08/07/09 11:10 | 08/13/09 02:49 | 7440-43-9 | |
| Chromium | **0.83J** | ug/L | 10.0 | 0.40 | 1 | 08/07/09 11:10 | 08/13/09 02:49 | 7440-47-3 | |
| Cobalt | ND | ug/L | 10.0 | 0.60 | 1 | 08/07/09 11:10 | 08/13/09 02:49 | 7440-48-4 | |
| Copper | **2.7J** | ug/L | 10.0 | 0.30 | 1 | 08/07/09 11:10 | 08/13/09 02:49 | 7440-50-8 | |
| Lead | ND | ug/L | 10.0 | 4.0 | 1 | 08/07/09 11:10 | 08/13/09 02:49 | 7439-92-1 | |
| Nickel | **14.3J** | ug/L | 50.0 | 1.7 | 1 | 08/07/09 11:10 | 08/13/09 02:49 | 7440-02-0 | |
| Selenium | ND | ug/L | 10.0 | 3.8 | 1 | 08/07/09 11:10 | 08/13/09 02:49 | 7782-49-2 | |
| Silver | ND | ug/L | 10.0 | 0.10 | 1 | 08/07/09 11:10 | 08/13/09 02:49 | 7440-22-4 | |
| Thallium | ND | ug/L | 5.5 | 3.0 | 1 | 08/07/09 11:10 | 08/13/09 02:49 | 7440-28-0 | |
| Vanadium | **0.95J** | ug/L | 25.0 | 0.20 | 1 | 08/07/09 11:10 | 08/13/09 02:49 | 7440-62-2 | Z2 |
| Zinc | **33.3** | ug/L | 10.0 | 0.40 | 1 | 08/07/09 11:10 | 08/13/09 02:49 | 7440-66-6 | Z2 |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | ND | ug/L | 0.20 | 0.070 | 1 | 08/17/09 11:18 | 08/17/09 14:40 | 7439-97-6 | |
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | ND | ug/L | 100 | 2.2 | 1 | | 08/12/09 21:48 | 67-64-1 | |
| Acrylonitrile | ND | ug/L | 200 | 1.9 | 1 | | 08/12/09 21:48 | 107-13-1 | |
| Benzene | ND | ug/L | 1.0 | 0.25 | 1 | | 08/12/09 21:48 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 3.0 | 0.17 | 1 | | 08/12/09 21:48 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 0.18 | 1 | | 08/12/09 21:48 | 75-27-4 | |
| Bromoform | ND | ug/L | 3.0 | 0.26 | 1 | | 08/12/09 21:48 | 75-25-2 | |
| Bromomethane | ND | ug/L | 10.0 | 0.29 | 1 | | 08/12/09 21:48 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 100 | 0.96 | 1 | | 08/12/09 21:48 | 78-93-3 | |
| Carbon disulfide | ND | ug/L | 100 | 1.2 | 1 | | 08/12/09 21:48 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 0.25 | 1 | | 08/12/09 21:48 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 3.0 | 0.23 | 1 | | 08/12/09 21:48 | 108-90-7 | |
| Chloroethane | ND | ug/L | 10.0 | 0.54 | 1 | | 08/12/09 21:48 | 75-00-3 | |
| Chloroform | ND | ug/L | 5.0 | 0.14 | 1 | | 08/12/09 21:48 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 0.11 | 1 | | 08/12/09 21:48 | 74-87-3 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 13.0 | 2.5 | 1 | | 08/12/09 21:48 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 3.0 | 0.21 | 1 | | 08/12/09 21:48 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 0.27 | 1 | | 08/12/09 21:48 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 10.0 | 0.21 | 1 | | 08/12/09 21:48 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 5.0 | 0.30 | 1 | | 08/12/09 21:48 | 95-50-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 0.33 | 1 | | 08/12/09 21:48 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | ND | ug/L | 100 | 1.0 | 1 | | 08/12/09 21:48 | 110-57-6 | |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | 0.32 | 1 | | 08/12/09 21:48 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 0.12 | 1 | | 08/12/09 21:48 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | 0.56 | 1 | | 08/12/09 21:48 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.19 | 1 | | 08/12/09 21:48 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.49 | 1 | | 08/12/09 21:48 | 156-60-5 | |



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# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: MW-4** **Lab ID: 9250227002** Collected: 08/04/09 10:00 Received: 08/05/09 16:50 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 0.27 | 1 | | 08/12/09 21:48 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 0.28 | 1 | | 08/12/09 21:48 | 142-28-9 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.13 | 1 | | 08/12/09 21:48 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/12/09 21:48 | 10061-02-6 | |
| Ethylbenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 08/12/09 21:48 | 100-41-4 | |
| 2-Hexanone | ND | ug/L | 50.0 | 0.46 | 1 | | 08/12/09 21:48 | 591-78-6 | |
| Iodomethane | ND | ug/L | 10.0 | 0.32 | 1 | | 08/12/09 21:48 | 74-88-4 | |
| Methylene Chloride | ND | ug/L | 2.0 | 0.97 | 1 | | 08/12/09 21:48 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 100 | 0.33 | 1 | | 08/12/09 21:48 | 108-10-1 | |
| Styrene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/12/09 21:48 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 5.0 | 0.33 | 1 | | 08/12/09 21:48 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 3.0 | 0.40 | 1 | | 08/12/09 21:48 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 0.46 | 1 | | 08/12/09 21:48 | 127-18-4 | |
| Toluene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/12/09 21:48 | 108-88-3 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 0.48 | 1 | | 08/12/09 21:48 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 0.29 | 1 | | 08/12/09 21:48 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 0.47 | 1 | | 08/12/09 21:48 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 08/12/09 21:48 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 0.41 | 1 | | 08/12/09 21:48 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 50.0 | 0.35 | 1 | | 08/12/09 21:48 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 0.62 | 1 | | 08/12/09 21:48 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 5.0 | 0.66 | 1 | | 08/12/09 21:48 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 0.66 | 1 | | 08/12/09 21:48 | 1330-20-7 | |
| o-Xylene | ND | ug/L | 1.0 | 0.23 | 1 | | 08/12/09 21:48 | 95-47-6 | |
| 4-Bromofluorobenzene (S) | 100 | % | 87-109 | | 1 | | 08/12/09 21:48 | 460-00-4 | |
| Dibromofluoromethane (S) | 103 | % | 85-115 | | 1 | | 08/12/09 21:48 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 99 | % | 79-120 | | 1 | | 08/12/09 21:48 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 70-120 | | 1 | | 08/12/09 21:48 | 2037-26-5 | |



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# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: MW-5** **Lab ID: 9250227003** Collected: 08/04/09 11:45 Received: 08/05/09 16:50 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 | 2.6 | 1 | 08/07/09 11:10 | 08/13/09 02:52 | 7440-36-0 | |
| Arsenic | ND | ug/L | 10.0 | 2.7 | 1 | 08/07/09 11:10 | 08/13/09 02:52 | 7440-38-2 | |
| Barium | **25.8J** | ug/L | 100 | 0.20 | 1 | 08/07/09 11:10 | 08/13/09 02:52 | 7440-39-3 | |
| Beryllium | **0.39J** | ug/L | 1.0 | 0.10 | 1 | 08/07/09 11:10 | 08/13/09 02:52 | 7440-41-7 | |
| Cadmium | **4.4** | ug/L | 1.0 | 0.50 | 1 | 08/07/09 11:10 | 08/13/09 02:52 | 7440-43-9 | |
| Chromium | **1.9J** | ug/L | 10.0 | 0.40 | 1 | 08/07/09 11:10 | 08/13/09 02:52 | 7440-47-3 | |
| Cobalt | **1.4J** | ug/L | 10.0 | 0.60 | 1 | 08/07/09 11:10 | 08/13/09 02:52 | 7440-48-4 | |
| Copper | **1.3J** | ug/L | 10.0 | 0.30 | 1 | 08/07/09 11:10 | 08/13/09 02:52 | 7440-50-8 | |
| Lead | ND | ug/L | 10.0 | 4.0 | 1 | 08/07/09 11:10 | 08/13/09 02:52 | 7439-92-1 | |
| Nickel | **2.8J** | ug/L | 50.0 | 1.7 | 1 | 08/07/09 11:10 | 08/13/09 02:52 | 7440-02-0 | |
| Selenium | ND | ug/L | 10.0 | 3.8 | 1 | 08/07/09 11:10 | 08/13/09 02:52 | 7782-49-2 | |
| Silver | ND | ug/L | 10.0 | 0.10 | 1 | 08/07/09 11:10 | 08/13/09 02:52 | 7440-22-4 | |
| Thallium | ND | ug/L | 5.5 | 3.0 | 1 | 08/07/09 11:10 | 08/13/09 02:52 | 7440-28-0 | |
| Vanadium | **7.5J** | ug/L | 25.0 | 0.20 | 1 | 08/07/09 11:10 | 08/13/09 02:52 | 7440-62-2 | Z2 |
| Zinc | **26.6** | ug/L | 10.0 | 0.40 | 1 | 08/07/09 11:10 | 08/13/09 02:52 | 7440-66-6 | Z2 |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | ND | ug/L | 0.20 | 0.070 | 1 | 08/17/09 11:18 | 08/17/09 14:50 | 7439-97-6 | |
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | ND | ug/L | 100 | 2.2 | 1 | | 08/12/09 22:07 | 67-64-1 | |
| Acrylonitrile | ND | ug/L | 200 | 1.9 | 1 | | 08/12/09 22:07 | 107-13-1 | |
| Benzene | ND | ug/L | 1.0 | 0.25 | 1 | | 08/12/09 22:07 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 3.0 | 0.17 | 1 | | 08/12/09 22:07 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 0.18 | 1 | | 08/12/09 22:07 | 75-27-4 | |
| Bromoform | ND | ug/L | 3.0 | 0.26 | 1 | | 08/12/09 22:07 | 75-25-2 | |
| Bromomethane | ND | ug/L | 10.0 | 0.29 | 1 | | 08/12/09 22:07 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 100 | 0.96 | 1 | | 08/12/09 22:07 | 78-93-3 | |
| Carbon disulfide | ND | ug/L | 100 | 1.2 | 1 | | 08/12/09 22:07 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 0.25 | 1 | | 08/12/09 22:07 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 3.0 | 0.23 | 1 | | 08/12/09 22:07 | 108-90-7 | |
| Chloroethane | ND | ug/L | 10.0 | 0.54 | 1 | | 08/12/09 22:07 | 75-00-3 | |
| Chloroform | ND | ug/L | 5.0 | 0.14 | 1 | | 08/12/09 22:07 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 0.11 | 1 | | 08/12/09 22:07 | 74-87-3 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 13.0 | 2.5 | 1 | | 08/12/09 22:07 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 3.0 | 0.21 | 1 | | 08/12/09 22:07 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 0.27 | 1 | | 08/12/09 22:07 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 10.0 | 0.21 | 1 | | 08/12/09 22:07 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 5.0 | 0.30 | 1 | | 08/12/09 22:07 | 95-50-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 0.33 | 1 | | 08/12/09 22:07 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | ND | ug/L | 100 | 1.0 | 1 | | 08/12/09 22:07 | 110-57-6 | |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | 0.32 | 1 | | 08/12/09 22:07 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 0.12 | 1 | | 08/12/09 22:07 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | 0.56 | 1 | | 08/12/09 22:07 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.19 | 1 | | 08/12/09 22:07 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.49 | 1 | | 08/12/09 22:07 | 156-60-5 | |



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# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: MW-5** **Lab ID: 9250227003** Collected: 08/04/09 11:45 Received: 08/05/09 16:50 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 0.27 | 1 | | 08/12/09 22:07 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 0.28 | 1 | | 08/12/09 22:07 | 142-28-9 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.13 | 1 | | 08/12/09 22:07 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/12/09 22:07 | 10061-02-6 | |
| Ethylbenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 08/12/09 22:07 | 100-41-4 | |
| 2-Hexanone | ND | ug/L | 50.0 | 0.46 | 1 | | 08/12/09 22:07 | 591-78-6 | |
| Iodomethane | ND | ug/L | 10.0 | 0.32 | 1 | | 08/12/09 22:07 | 74-88-4 | |
| Methylene Chloride | ND | ug/L | 2.0 | 0.97 | 1 | | 08/12/09 22:07 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 100 | 0.33 | 1 | | 08/12/09 22:07 | 108-10-1 | |
| Styrene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/12/09 22:07 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 5.0 | 0.33 | 1 | | 08/12/09 22:07 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 3.0 | 0.40 | 1 | | 08/12/09 22:07 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 0.46 | 1 | | 08/12/09 22:07 | 127-18-4 | |
| Toluene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/12/09 22:07 | 108-88-3 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 0.48 | 1 | | 08/12/09 22:07 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 0.29 | 1 | | 08/12/09 22:07 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 0.47 | 1 | | 08/12/09 22:07 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 08/12/09 22:07 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 0.41 | 1 | | 08/12/09 22:07 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 50.0 | 0.35 | 1 | | 08/12/09 22:07 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 0.62 | 1 | | 08/12/09 22:07 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 5.0 | 0.66 | 1 | | 08/12/09 22:07 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 0.66 | 1 | | 08/12/09 22:07 | 1330-20-7 | |
| o-Xylene | ND | ug/L | 1.0 | 0.23 | 1 | | 08/12/09 22:07 | 95-47-6 | |
| 4-Bromofluorobenzene (S) | 101 | % | 87-109 | | 1 | | 08/12/09 22:07 | 460-00-4 | |
| Dibromofluoromethane (S) | 101 | % | 85-115 | | 1 | | 08/12/09 22:07 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 96 | % | 79-120 | | 1 | | 08/12/09 22:07 | 17060-07-0 | |
| Toluene-d8 (S) | 102 | % | 70-120 | | 1 | | 08/12/09 22:07 | 2037-26-5 | |



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# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: MW-6** **Lab ID: 9250227004** Collected: 08/04/09 10:35 Received: 08/05/09 16:50 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 | 2.6 | 1 | 08/07/09 11:10 | 08/13/09 02:56 | 7440-36-0 | |
| Arsenic | ND | ug/L | 10.0 | 2.7 | 1 | 08/07/09 11:10 | 08/13/09 02:56 | 7440-38-2 | |
| Barium | **247** | ug/L | 100 | 0.20 | 1 | 08/07/09 11:10 | 08/13/09 02:56 | 7440-39-3 | |
| Beryllium | **0.80J** | ug/L | 1.0 | 0.10 | 1 | 08/07/09 11:10 | 08/13/09 02:56 | 7440-41-7 | |
| Cadmium | **1.4** | ug/L | 1.0 | 0.50 | 1 | 08/07/09 11:10 | 08/13/09 02:56 | 7440-43-9 | |
| Chromium | **1.5J** | ug/L | 10.0 | 0.40 | 1 | 08/07/09 11:10 | 08/13/09 02:56 | 7440-47-3 | |
| Cobalt | ND | ug/L | 10.0 | 0.60 | 1 | 08/07/09 11:10 | 08/13/09 02:56 | 7440-48-4 | |
| Copper | **0.72J** | ug/L | 10.0 | 0.30 | 1 | 08/07/09 11:10 | 08/13/09 02:56 | 7440-50-8 | |
| Lead | ND | ug/L | 10.0 | 4.0 | 1 | 08/07/09 11:10 | 08/13/09 02:56 | 7439-92-1 | |
| Nickel | **4.4J** | ug/L | 50.0 | 1.7 | 1 | 08/07/09 11:10 | 08/13/09 02:56 | 7440-02-0 | |
| Selenium | ND | ug/L | 10.0 | 3.8 | 1 | 08/07/09 11:10 | 08/13/09 02:56 | 7782-49-2 | |
| Silver | ND | ug/L | 10.0 | 0.10 | 1 | 08/07/09 11:10 | 08/13/09 02:56 | 7440-22-4 | |
| Thallium | ND | ug/L | 5.5 | 3.0 | 1 | 08/07/09 11:10 | 08/13/09 02:56 | 7440-28-0 | |
| Vanadium | **0.82J** | ug/L | 25.0 | 0.20 | 1 | 08/07/09 11:10 | 08/13/09 02:56 | 7440-62-2 | Z2 |
| Zinc | **13.3** | ug/L | 10.0 | 0.40 | 1 | 08/07/09 11:10 | 08/13/09 02:56 | 7440-66-6 | Z2 |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | ND | ug/L | 0.20 | 0.070 | 1 | 08/17/09 11:18 | 08/17/09 14:52 | 7439-97-6 | |
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | ND | ug/L | 100 | 2.2 | 1 | | 08/11/09 08:02 | 67-64-1 | |
| Acrylonitrile | ND | ug/L | 200 | 1.9 | 1 | | 08/11/09 08:02 | 107-13-1 | |
| Benzene | ND | ug/L | 1.0 | 0.25 | 1 | | 08/11/09 08:02 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 3.0 | 0.17 | 1 | | 08/11/09 08:02 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 0.18 | 1 | | 08/11/09 08:02 | 75-27-4 | |
| Bromoform | ND | ug/L | 3.0 | 0.26 | 1 | | 08/11/09 08:02 | 75-25-2 | |
| Bromomethane | ND | ug/L | 10.0 | 0.29 | 1 | | 08/11/09 08:02 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 100 | 0.96 | 1 | | 08/11/09 08:02 | 78-93-3 | |
| Carbon disulfide | ND | ug/L | 100 | 1.2 | 1 | | 08/11/09 08:02 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 0.25 | 1 | | 08/11/09 08:02 | 56-23-5 | |
| Chlorobenzene | **0.45J** | ug/L | 3.0 | 0.23 | 1 | | 08/11/09 08:02 | 108-90-7 | |
| Chloroethane | ND | ug/L | 10.0 | 0.54 | 1 | | 08/11/09 08:02 | 75-00-3 | |
| Chloroform | ND | ug/L | 5.0 | 0.14 | 1 | | 08/11/09 08:02 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 0.11 | 1 | | 08/11/09 08:02 | 74-87-3 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 13.0 | 2.5 | 1 | | 08/11/09 08:02 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 3.0 | 0.21 | 1 | | 08/11/09 08:02 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 0.27 | 1 | | 08/11/09 08:02 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 10.0 | 0.21 | 1 | | 08/11/09 08:02 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 5.0 | 0.30 | 1 | | 08/11/09 08:02 | 95-50-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 0.33 | 1 | | 08/11/09 08:02 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | ND | ug/L | 100 | 1.0 | 1 | | 08/11/09 08:02 | 110-57-6 | |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | 0.32 | 1 | | 08/11/09 08:02 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 0.12 | 1 | | 08/11/09 08:02 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | 0.56 | 1 | | 08/11/09 08:02 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.55J** | ug/L | 5.0 | 0.19 | 1 | | 08/11/09 08:02 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.49 | 1 | | 08/11/09 08:02 | 156-60-5 | |



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# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: MW-6** **Lab ID: 9250227004** Collected: 08/04/09 10:35 Received: 08/05/09 16:50 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 0.27 | 1 | | 08/11/09 08:02 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 0.28 | 1 | | 08/11/09 08:02 | 142-28-9 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.13 | 1 | | 08/11/09 08:02 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/11/09 08:02 | 10061-02-6 | |
| Ethylbenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 08/11/09 08:02 | 100-41-4 | |
| 2-Hexanone | ND | ug/L | 50.0 | 0.46 | 1 | | 08/11/09 08:02 | 591-78-6 | |
| Iodomethane | ND | ug/L | 10.0 | 0.32 | 1 | | 08/11/09 08:02 | 74-88-4 | |
| Methylene Chloride | ND | ug/L | 2.0 | 0.97 | 1 | | 08/11/09 08:02 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 100 | 0.33 | 1 | | 08/11/09 08:02 | 108-10-1 | |
| Styrene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/11/09 08:02 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 5.0 | 0.33 | 1 | | 08/11/09 08:02 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 3.0 | 0.40 | 1 | | 08/11/09 08:02 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 0.46 | 1 | | 08/11/09 08:02 | 127-18-4 | |
| Toluene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/11/09 08:02 | 108-88-3 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 0.48 | 1 | | 08/11/09 08:02 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 0.29 | 1 | | 08/11/09 08:02 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 0.47 | 1 | | 08/11/09 08:02 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 08/11/09 08:02 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 0.41 | 1 | | 08/11/09 08:02 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 50.0 | 0.35 | 1 | | 08/11/09 08:02 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 0.62 | 1 | | 08/11/09 08:02 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 5.0 | 0.66 | 1 | | 08/11/09 08:02 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 0.66 | 1 | | 08/11/09 08:02 | 1330-20-7 | |
| o-Xylene | ND | ug/L | 1.0 | 0.23 | 1 | | 08/11/09 08:02 | 95-47-6 | |
| 4-Bromofluorobenzene (S) | 96 | % | 87-109 | | 1 | | 08/11/09 08:02 | 460-00-4 | |
| Dibromofluoromethane (S) | 101 | % | 85-115 | | 1 | | 08/11/09 08:02 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 98 | % | 79-120 | | 1 | | 08/11/09 08:02 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 70-120 | | 1 | | 08/11/09 08:02 | 2037-26-5 | |



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# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: MW-7** **Lab ID: 9250227005** Collected: 08/04/09 13:45 Received: 08/05/09 16:50 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 | 2.6 | 1 | 08/07/09 11:10 | 08/13/09 03:00 | 7440-36-0 | |
| Arsenic | ND | ug/L | 10.0 | 2.7 | 1 | 08/07/09 11:10 | 08/13/09 03:00 | 7440-38-2 | |
| Barium | **56.0J** | ug/L | 100 | 0.20 | 1 | 08/07/09 11:10 | 08/13/09 03:00 | 7440-39-3 | |
| Beryllium | **0.11J** | ug/L | 1.0 | 0.10 | 1 | 08/07/09 11:10 | 08/13/09 03:00 | 7440-41-7 | |
| Cadmium | **1.5** | ug/L | 1.0 | 0.50 | 1 | 08/07/09 11:10 | 08/13/09 03:00 | 7440-43-9 | |
| Chromium | **3.0J** | ug/L | 10.0 | 0.40 | 1 | 08/07/09 11:10 | 08/13/09 03:00 | 7440-47-3 | |
| Cobalt | ND | ug/L | 10.0 | 0.60 | 1 | 08/07/09 11:10 | 08/13/09 03:00 | 7440-48-4 | |
| Copper | **1.5J** | ug/L | 10.0 | 0.30 | 1 | 08/07/09 11:10 | 08/13/09 03:00 | 7440-50-8 | |
| Lead | ND | ug/L | 10.0 | 4.0 | 1 | 08/07/09 11:10 | 08/13/09 03:00 | 7439-92-1 | |
| Nickel | **2.0J** | ug/L | 50.0 | 1.7 | 1 | 08/07/09 11:10 | 08/13/09 03:00 | 7440-02-0 | |
| Selenium | ND | ug/L | 10.0 | 3.8 | 1 | 08/07/09 11:10 | 08/13/09 03:00 | 7782-49-2 | |
| Silver | ND | ug/L | 10.0 | 0.10 | 1 | 08/07/09 11:10 | 08/13/09 03:00 | 7440-22-4 | |
| Thallium | ND | ug/L | 5.5 | 3.0 | 1 | 08/07/09 11:10 | 08/13/09 03:00 | 7440-28-0 | |
| Vanadium | **2.4J** | ug/L | 25.0 | 0.20 | 1 | 08/07/09 11:10 | 08/13/09 03:00 | 7440-62-2 | Z2 |
| Zinc | **11.2** | ug/L | 10.0 | 0.40 | 1 | 08/07/09 11:10 | 08/13/09 03:00 | 7440-66-6 | Z2 |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | ND | ug/L | 0.20 | 0.070 | 1 | 08/17/09 11:18 | 08/17/09 14:55 | 7439-97-6 | |
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | ND | ug/L | 100 | 2.2 | 1 | | 08/11/09 08:21 | 67-64-1 | |
| Acrylonitrile | ND | ug/L | 200 | 1.9 | 1 | | 08/11/09 08:21 | 107-13-1 | |
| Benzene | ND | ug/L | 1.0 | 0.25 | 1 | | 08/11/09 08:21 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 3.0 | 0.17 | 1 | | 08/11/09 08:21 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 0.18 | 1 | | 08/11/09 08:21 | 75-27-4 | |
| Bromoform | ND | ug/L | 3.0 | 0.26 | 1 | | 08/11/09 08:21 | 75-25-2 | |
| Bromomethane | ND | ug/L | 10.0 | 0.29 | 1 | | 08/11/09 08:21 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 100 | 0.96 | 1 | | 08/11/09 08:21 | 78-93-3 | |
| Carbon disulfide | ND | ug/L | 100 | 1.2 | 1 | | 08/11/09 08:21 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 0.25 | 1 | | 08/11/09 08:21 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 3.0 | 0.23 | 1 | | 08/11/09 08:21 | 108-90-7 | |
| Chloroethane | ND | ug/L | 10.0 | 0.54 | 1 | | 08/11/09 08:21 | 75-00-3 | |
| Chloroform | ND | ug/L | 5.0 | 0.14 | 1 | | 08/11/09 08:21 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 0.11 | 1 | | 08/11/09 08:21 | 74-87-3 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 13.0 | 2.5 | 1 | | 08/11/09 08:21 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 3.0 | 0.21 | 1 | | 08/11/09 08:21 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 0.27 | 1 | | 08/11/09 08:21 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 10.0 | 0.21 | 1 | | 08/11/09 08:21 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 5.0 | 0.30 | 1 | | 08/11/09 08:21 | 95-50-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 0.33 | 1 | | 08/11/09 08:21 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | ND | ug/L | 100 | 1.0 | 1 | | 08/11/09 08:21 | 110-57-6 | |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | 0.32 | 1 | | 08/11/09 08:21 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 0.12 | 1 | | 08/11/09 08:21 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | 0.56 | 1 | | 08/11/09 08:21 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.19 | 1 | | 08/11/09 08:21 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.49 | 1 | | 08/11/09 08:21 | 156-60-5 | |



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# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: MW-7** **Lab ID: 9250227005** Collected: 08/04/09 13:45 Received: 08/05/09 16:50 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 0.27 | 1 | | 08/11/09 08:21 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 0.28 | 1 | | 08/11/09 08:21 | 142-28-9 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.13 | 1 | | 08/11/09 08:21 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/11/09 08:21 | 10061-02-6 | |
| Ethylbenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 08/11/09 08:21 | 100-41-4 | |
| 2-Hexanone | ND | ug/L | 50.0 | 0.46 | 1 | | 08/11/09 08:21 | 591-78-6 | |
| Iodomethane | ND | ug/L | 10.0 | 0.32 | 1 | | 08/11/09 08:21 | 74-88-4 | |
| Methylene Chloride | ND | ug/L | 2.0 | 0.97 | 1 | | 08/11/09 08:21 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 100 | 0.33 | 1 | | 08/11/09 08:21 | 108-10-1 | |
| Styrene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/11/09 08:21 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 5.0 | 0.33 | 1 | | 08/11/09 08:21 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 3.0 | 0.40 | 1 | | 08/11/09 08:21 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 0.46 | 1 | | 08/11/09 08:21 | 127-18-4 | |
| Toluene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/11/09 08:21 | 108-88-3 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 0.48 | 1 | | 08/11/09 08:21 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 0.29 | 1 | | 08/11/09 08:21 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 0.47 | 1 | | 08/11/09 08:21 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 08/11/09 08:21 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 0.41 | 1 | | 08/11/09 08:21 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 50.0 | 0.35 | 1 | | 08/11/09 08:21 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 0.62 | 1 | | 08/11/09 08:21 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 5.0 | 0.66 | 1 | | 08/11/09 08:21 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 0.66 | 1 | | 08/11/09 08:21 | 1330-20-7 | |
| o-Xylene | ND | ug/L | 1.0 | 0.23 | 1 | | 08/11/09 08:21 | 95-47-6 | |
| 4-Bromofluorobenzene (S) | 97 | % | 87-109 | | 1 | | 08/11/09 08:21 | 460-00-4 | |
| Dibromofluoromethane (S) | 101 | % | 85-115 | | 1 | | 08/11/09 08:21 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 96 | % | 79-120 | | 1 | | 08/11/09 08:21 | 17060-07-0 | |
| Toluene-d8 (S) | 101 | % | 70-120 | | 1 | | 08/11/09 08:21 | 2037-26-5 | |



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# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: MW-1** **Lab ID: 9250227006** Collected: 08/06/09 09:00 Received: 08/07/09 14:37 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 | 2.6 | 1 | 08/14/09 12:35 | 08/17/09 21:39 | 7440-36-0 | |
| Arsenic | ND | ug/L | 10.0 | 2.7 | 1 | 08/14/09 12:35 | 08/17/09 21:39 | 7440-38-2 | |
| Barium | **17.6J** | ug/L | 100 | 0.20 | 1 | 08/14/09 12:35 | 08/17/09 21:39 | 7440-39-3 | |
| Beryllium | ND | ug/L | 1.0 | 0.10 | 1 | 08/14/09 12:35 | 08/17/09 21:39 | 7440-41-7 | |
| Cadmium | ND | ug/L | 1.0 | 0.50 | 1 | 08/14/09 12:35 | 08/17/09 21:39 | 7440-43-9 | |
| Chromium | **0.49J** | ug/L | 10.0 | 0.40 | 1 | 08/14/09 12:35 | 08/17/09 21:39 | 7440-47-3 | |
| Cobalt | ND | ug/L | 10.0 | 0.60 | 1 | 08/14/09 12:35 | 08/17/09 21:39 | 7440-48-4 | |
| Copper | **1.5J** | ug/L | 10.0 | 0.30 | 1 | 08/14/09 12:35 | 08/17/09 21:39 | 7440-50-8 | |
| Iron | **550** | ug/L | 50.0 | 14.0 | 1 | 08/14/09 12:35 | 08/17/09 21:39 | 7439-89-6 | |
| Lead | ND | ug/L | 10.0 | 4.0 | 1 | 08/14/09 12:35 | 08/17/09 21:39 | 7439-92-1 | |
| Nickel | ND | ug/L | 50.0 | 1.7 | 1 | 08/14/09 12:35 | 08/17/09 21:39 | 7440-02-0 | |
| Selenium | ND | ug/L | 10.0 | 3.8 | 1 | 08/14/09 12:35 | 08/17/09 21:39 | 7782-49-2 | |
| Silver | ND | ug/L | 10.0 | 0.10 | 1 | 08/14/09 12:35 | 08/17/09 21:39 | 7440-22-4 | |
| Thallium | ND | ug/L | 5.5 | 3.0 | 1 | 08/14/09 12:35 | 08/17/09 21:39 | 7440-28-0 | |
| Vanadium | **1.1J** | ug/L | 25.0 | 0.20 | 1 | 08/14/09 12:35 | 08/17/09 21:39 | 7440-62-2 | |
| Zinc | **20.3** | ug/L | 10.0 | 0.40 | 1 | 08/14/09 12:35 | 08/17/09 21:39 | 7440-66-6 | Z2 |
| **7470 Mercury** | Analytical Method: EPA 7470 | | Preparation Method: EPA 7470 | | | | | | |
| Mercury | ND | ug/L | 0.20 | 0.070 | 1 | 08/12/09 09:17 | 08/12/09 12:45 | 7439-97-6 | |
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | ND | ug/L | 100 | 2.2 | 1 | | 08/14/09 18:18 | 67-64-1 | |
| Acrylonitrile | ND | ug/L | 200 | 1.9 | 1 | | 08/14/09 18:18 | 107-13-1 | |
| Benzene | ND | ug/L | 1.0 | 0.25 | 1 | | 08/14/09 18:18 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 3.0 | 0.17 | 1 | | 08/14/09 18:18 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 0.18 | 1 | | 08/14/09 18:18 | 75-27-4 | |
| Bromoform | ND | ug/L | 3.0 | 0.26 | 1 | | 08/14/09 18:18 | 75-25-2 | |
| Bromomethane | ND | ug/L | 10.0 | 0.29 | 1 | | 08/14/09 18:18 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 100 | 0.96 | 1 | | 08/14/09 18:18 | 78-93-3 | |
| Carbon disulfide | ND | ug/L | 100 | 1.2 | 1 | | 08/14/09 18:18 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 0.25 | 1 | | 08/14/09 18:18 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 3.0 | 0.23 | 1 | | 08/14/09 18:18 | 108-90-7 | |
| Chloroethane | ND | ug/L | 10.0 | 0.54 | 1 | | 08/14/09 18:18 | 75-00-3 | |
| Chloroform | **0.52J** | ug/L | 5.0 | 0.14 | 1 | | 08/14/09 18:18 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 0.11 | 1 | | 08/14/09 18:18 | 74-87-3 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 13.0 | 2.5 | 1 | | 08/14/09 18:18 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 3.0 | 0.21 | 1 | | 08/14/09 18:18 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 0.27 | 1 | | 08/14/09 18:18 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 10.0 | 0.21 | 1 | | 08/14/09 18:18 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 5.0 | 0.30 | 1 | | 08/14/09 18:18 | 95-50-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 0.33 | 1 | | 08/14/09 18:18 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | ND | ug/L | 100 | 1.0 | 1 | | 08/14/09 18:18 | 110-57-6 | |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | 0.32 | 1 | | 08/14/09 18:18 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 0.12 | 1 | | 08/14/09 18:18 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | 0.56 | 1 | | 08/14/09 18:18 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.19 | 1 | | 08/14/09 18:18 | 156-59-2 | |



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# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: MW-1** **Lab ID: 9250227006** Collected: 08/06/09 09:00 Received: 08/07/09 14:37 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | | |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.49 | 1 | | 08/14/09 18:18 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 0.27 | 1 | | 08/14/09 18:18 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 0.28 | 1 | | 08/14/09 18:18 | 142-28-9 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.13 | 1 | | 08/14/09 18:18 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/14/09 18:18 | 10061-02-6 | |
| Ethylbenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 08/14/09 18:18 | 100-41-4 | |
| 2-Hexanone | ND | ug/L | 50.0 | 0.46 | 1 | | 08/14/09 18:18 | 591-78-6 | |
| Iodomethane | ND | ug/L | 10.0 | 0.32 | 1 | | 08/14/09 18:18 | 74-88-4 | |
| Methylene Chloride | ND | ug/L | 2.0 | 0.97 | 1 | | 08/14/09 18:18 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 100 | 0.33 | 1 | | 08/14/09 18:18 | 108-10-1 | |
| Styrene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/14/09 18:18 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 5.0 | 0.33 | 1 | | 08/14/09 18:18 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 3.0 | 0.40 | 1 | | 08/14/09 18:18 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 0.46 | 1 | | 08/14/09 18:18 | 127-18-4 | |
| Toluene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/14/09 18:18 | 108-88-3 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 0.48 | 1 | | 08/14/09 18:18 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 0.29 | 1 | | 08/14/09 18:18 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 0.47 | 1 | | 08/14/09 18:18 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 08/14/09 18:18 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 0.41 | 1 | | 08/14/09 18:18 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 50.0 | 0.35 | 1 | | 08/14/09 18:18 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 0.62 | 1 | | 08/14/09 18:18 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 5.0 | 0.66 | 1 | | 08/14/09 18:18 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 0.66 | 1 | | 08/14/09 18:18 | 1330-20-7 | |
| o-Xylene | ND | ug/L | 1.0 | 0.23 | 1 | | 08/14/09 18:18 | 95-47-6 | |
| 4-Bromofluorobenzene (S) | 102 | % | 87-109 | | 1 | | 08/14/09 18:18 | 460-00-4 | |
| Dibromofluoromethane (S) | 96 | % | 85-115 | | 1 | | 08/14/09 18:18 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 99 | % | 79-120 | | 1 | | 08/14/09 18:18 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 70-120 | | 1 | | 08/14/09 18:18 | 2037-26-5 | |
| **2320B Alkalinity** | Analytical Method: SM 2320B | | | | | | | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 08/14/09 17:18 | | |
| **4500S2D Sulfide Water** | Analytical Method: SM 4500-S2D | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.10 | 1 | | 08/11/09 14:52 | | |
| **5210B BOD, 5 day** | Analytical Method: SM 5210B | | | | | | | | |
| BOD, 5 day | ND | mg/L | 2.0 | 2.0 | 1 | 08/08/09 08:43 | 08/13/09 12:05 | | B4 |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, Nitrate | **447** | ug/L | 100 | 100 | 1 | | 08/07/09 22:55 | | |
| **4500 Chloride** | Analytical Method: SM 4500-Cl-E | | | | | | | | |
| Chloride | ND | mg/L | 5.0 | 5.0 | 1 | | 08/19/09 10:14 | 16887-00-6 | |



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# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: MW-1** **Lab ID: 9250227006** Collected: 08/06/09 09:00 Received: 08/07/09 14:37 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **5220D COD** | Analytical Method: SM 5220D | | | | | | | | |
| Chemical Oxygen Demand | ND | ug/L | 25000 | 25000 | 1 | | 08/18/09 16:40 | | |
| **5310B TOC** | Analytical Method: SM 5310B | | | | | | | | |
| Total Organic Carbon | **1.9** | mg/L | 1.0 | 1.0 | 1 | | 08/11/09 13:11 | 7440-44-0 | |
| **ASTM D516-90 Sulfate Water** | Analytical Method: ASTM D516-90 | | | | | | | | |
| Sulfate | **6360** | ug/L | 5000 | 5000 | 1 | | 08/17/09 14:58 | 14808-79-8 | |



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# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: MW-2** **Lab ID: 9250227007** Collected: 08/06/09 14:30 Received: 08/07/09 14:37 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 | 2.6 | 1 | 08/14/09 12:35 | 08/17/09 21:43 | 7440-36-0 | |
| Arsenic | **12.6** | ug/L | 10.0 | 2.7 | 1 | 08/14/09 12:35 | 08/17/09 21:43 | 7440-38-2 | |
| Barium | **172** | ug/L | 100 | 0.20 | 1 | 08/14/09 12:35 | 08/17/09 21:43 | 7440-39-3 | |
| Beryllium | ND | ug/L | 1.0 | 0.10 | 1 | 08/14/09 12:35 | 08/17/09 21:43 | 7440-41-7 | |
| Cadmium | ND | ug/L | 1.0 | 0.50 | 1 | 08/14/09 12:35 | 08/17/09 21:43 | 7440-43-9 | |
| Chromium | ND | ug/L | 10.0 | 0.40 | 1 | 08/14/09 12:35 | 08/17/09 21:43 | 7440-47-3 | |
| Cobalt | **5.0J** | ug/L | 10.0 | 0.60 | 1 | 08/14/09 12:35 | 08/17/09 21:43 | 7440-48-4 | |
| Copper | **0.45J** | ug/L | 10.0 | 0.30 | 1 | 08/14/09 12:35 | 08/17/09 21:43 | 7440-50-8 | |
| Iron | **50100** | ug/L | 50.0 | 14.0 | 1 | 08/14/09 12:35 | 08/17/09 21:43 | 7439-89-6 | |
| Lead | ND | ug/L | 10.0 | 4.0 | 1 | 08/14/09 12:35 | 08/17/09 21:43 | 7439-92-1 | |
| Nickel | **2.5J** | ug/L | 50.0 | 1.7 | 1 | 08/14/09 12:35 | 08/17/09 21:43 | 7440-02-0 | |
| Selenium | ND | ug/L | 10.0 | 3.8 | 1 | 08/14/09 12:35 | 08/17/09 21:43 | 7782-49-2 | |
| Silver | **0.32J** | ug/L | 10.0 | 0.10 | 1 | 08/14/09 12:35 | 08/17/09 21:43 | 7440-22-4 | |
| Thallium | ND | ug/L | 5.5 | 3.0 | 1 | 08/14/09 12:35 | 08/17/09 21:43 | 7440-28-0 | |
| Vanadium | **5.4J** | ug/L | 25.0 | 0.20 | 1 | 08/14/09 12:35 | 08/17/09 21:43 | 7440-62-2 | |
| Zinc | **21.1** | ug/L | 10.0 | 0.40 | 1 | 08/14/09 12:35 | 08/17/09 21:43 | 7440-66-6 | Z2 |
| **7470 Mercury** | Analytical Method: EPA 7470 | | Preparation Method: EPA 7470 | | | | | | |
| Mercury | ND | ug/L | 0.20 | 0.070 | 1 | 08/12/09 09:17 | 08/12/09 12:47 | 7439-97-6 | |
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | ND | ug/L | 100 | 2.2 | 1 | | 08/14/09 18:37 | 67-64-1 | |
| Acrylonitrile | ND | ug/L | 200 | 1.9 | 1 | | 08/14/09 18:37 | 107-13-1 | |
| Benzene | **1.6** | ug/L | 1.0 | 0.25 | 1 | | 08/14/09 18:37 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 3.0 | 0.17 | 1 | | 08/14/09 18:37 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 0.18 | 1 | | 08/14/09 18:37 | 75-27-4 | |
| Bromoform | ND | ug/L | 3.0 | 0.26 | 1 | | 08/14/09 18:37 | 75-25-2 | |
| Bromomethane | ND | ug/L | 10.0 | 0.29 | 1 | | 08/14/09 18:37 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 100 | 0.96 | 1 | | 08/14/09 18:37 | 78-93-3 | |
| Carbon disulfide | ND | ug/L | 100 | 1.2 | 1 | | 08/14/09 18:37 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 0.25 | 1 | | 08/14/09 18:37 | 56-23-5 | |
| Chlorobenzene | **11.4** | ug/L | 3.0 | 0.23 | 1 | | 08/14/09 18:37 | 108-90-7 | |
| Chloroethane | ND | ug/L | 10.0 | 0.54 | 1 | | 08/14/09 18:37 | 75-00-3 | |
| Chloroform | ND | ug/L | 5.0 | 0.14 | 1 | | 08/14/09 18:37 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 0.11 | 1 | | 08/14/09 18:37 | 74-87-3 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 13.0 | 2.5 | 1 | | 08/14/09 18:37 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 3.0 | 0.21 | 1 | | 08/14/09 18:37 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 0.27 | 1 | | 08/14/09 18:37 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 10.0 | 0.21 | 1 | | 08/14/09 18:37 | 74-95-3 | |
| 1,2-Dichlorobenzene | **0.37J** | ug/L | 5.0 | 0.30 | 1 | | 08/14/09 18:37 | 95-50-1 | |
| 1,4-Dichlorobenzene | **2.7** | ug/L | 1.0 | 0.33 | 1 | | 08/14/09 18:37 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | ND | ug/L | 100 | 1.0 | 1 | | 08/14/09 18:37 | 110-57-6 | |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | 0.32 | 1 | | 08/14/09 18:37 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 0.12 | 1 | | 08/14/09 18:37 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | 0.56 | 1 | | 08/14/09 18:37 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.20J** | ug/L | 5.0 | 0.19 | 1 | | 08/14/09 18:37 | 156-59-2 | |



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# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: MW-2** **Lab ID: 9250227007** Collected: 08/06/09 14:30 Received: 08/07/09 14:37 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | | |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.49 | 1 | | 08/14/09 18:37 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 0.27 | 1 | | 08/14/09 18:37 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 0.28 | 1 | | 08/14/09 18:37 | 142-28-9 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.13 | 1 | | 08/14/09 18:37 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/14/09 18:37 | 10061-02-6 | |
| Ethylbenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 08/14/09 18:37 | 100-41-4 | |
| 2-Hexanone | ND | ug/L | 50.0 | 0.46 | 1 | | 08/14/09 18:37 | 591-78-6 | |
| Iodomethane | ND | ug/L | 10.0 | 0.32 | 1 | | 08/14/09 18:37 | 74-88-4 | |
| Methylene Chloride | ND | ug/L | 2.0 | 0.97 | 1 | | 08/14/09 18:37 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 100 | 0.33 | 1 | | 08/14/09 18:37 | 108-10-1 | |
| Styrene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/14/09 18:37 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 5.0 | 0.33 | 1 | | 08/14/09 18:37 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 3.0 | 0.40 | 1 | | 08/14/09 18:37 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 0.46 | 1 | | 08/14/09 18:37 | 127-18-4 | |
| Toluene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/14/09 18:37 | 108-88-3 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 0.48 | 1 | | 08/14/09 18:37 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 0.29 | 1 | | 08/14/09 18:37 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 0.47 | 1 | | 08/14/09 18:37 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 08/14/09 18:37 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 0.41 | 1 | | 08/14/09 18:37 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 50.0 | 0.35 | 1 | | 08/14/09 18:37 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 0.62 | 1 | | 08/14/09 18:37 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 5.0 | 0.66 | 1 | | 08/14/09 18:37 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 0.66 | 1 | | 08/14/09 18:37 | 1330-20-7 | |
| o-Xylene | ND | ug/L | 1.0 | 0.23 | 1 | | 08/14/09 18:37 | 95-47-6 | |
| 4-Bromofluorobenzene (S) | 101 | % | 87-109 | | 1 | | 08/14/09 18:37 | 460-00-4 | |
| Dibromofluoromethane (S) | 97 | % | 85-115 | | 1 | | 08/14/09 18:37 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 100 | % | 79-120 | | 1 | | 08/14/09 18:37 | 17060-07-0 | |
| Toluene-d8 (S) | 99 | % | 70-120 | | 1 | | 08/14/09 18:37 | 2037-26-5 | |
| **2320B Alkalinity** | Analytical Method: SM 2320B | | | | | | | | |
| Alkalinity, Total as CaCO3 | **652** | mg/L | 5.0 | 5.0 | 1 | | 08/14/09 17:15 | | |
| **4500S2D Sulfide Water** | Analytical Method: SM 4500-S2D | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.10 | 1 | | 08/11/09 14:52 | | |
| **5210B BOD, 5 day** | Analytical Method: SM 5210B | | | | | | | | |
| BOD, 5 day | **12.6** | mg/L | 2.0 | 2.0 | 1 | 08/08/09 08:43 | 08/13/09 12:05 | | B4 |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, Nitrate | **257** | ug/L | 100 | 100 | 1 | | 08/07/09 22:55 | | |
| **4500 Chloride** | Analytical Method: SM 4500-Cl-E | | | | | | | | |
| Chloride | **47.0** | mg/L | 10.0 | 10.0 | 2 | | 08/19/09 10:56 | 16887-00-6 | |



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# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: MW-2** **Lab ID: 9250227007** Collected: 08/06/09 14:30 Received: 08/07/09 14:37 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **5220D COD** | Analytical Method: SM 5220D | | | | | | | | |
| Chemical Oxygen Demand | **85900** | ug/L | 25000 | 25000 | 1 | | 08/18/09 16:40 | | |
| **5310B TOC** | Analytical Method: SM 5310B | | | | | | | | |
| Total Organic Carbon | **44.0** | mg/L | 1.0 | 1.0 | 1 | | 08/11/09 13:11 | 7440-44-0 | |
| **ASTM D516-90 Sulfate Water** | Analytical Method: ASTM D516-90 | | | | | | | | |
| Sulfate | **27100** | ug/L | 5000 | 5000 | 1 | | 08/17/09 15:01 | 14808-79-8 | |



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# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: MW-8** **Lab ID: 9250227008** Collected: 08/06/09 14:30 Received: 08/07/09 14:37 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 | 2.6 | 1 | 08/14/09 12:35 | 08/17/09 21:47 | 7440-36-0 | |
| Arsenic | ND | ug/L | 10.0 | 2.7 | 1 | 08/14/09 12:35 | 08/17/09 21:47 | 7440-38-2 | |
| Barium | **71.0J** | ug/L | 100 | 0.20 | 1 | 08/14/09 12:35 | 08/17/09 21:47 | 7440-39-3 | |
| Beryllium | ND | ug/L | 1.0 | 0.10 | 1 | 08/14/09 12:35 | 08/17/09 21:47 | 7440-41-7 | |
| Cadmium | ND | ug/L | 1.0 | 0.50 | 1 | 08/14/09 12:35 | 08/17/09 21:47 | 7440-43-9 | |
| Chromium | **2.0J** | ug/L | 10.0 | 0.40 | 1 | 08/14/09 12:35 | 08/17/09 21:47 | 7440-47-3 | |
| Cobalt | **1.7J** | ug/L | 10.0 | 0.60 | 1 | 08/14/09 12:35 | 08/17/09 21:47 | 7440-48-4 | |
| Copper | **0.52J** | ug/L | 10.0 | 0.30 | 1 | 08/14/09 12:35 | 08/17/09 21:47 | 7440-50-8 | |
| Iron | **9680** | ug/L | 50.0 | 14.0 | 1 | 08/14/09 12:35 | 08/17/09 21:47 | 7439-89-6 | |
| Lead | ND | ug/L | 10.0 | 4.0 | 1 | 08/14/09 12:35 | 08/17/09 21:47 | 7439-92-1 | |
| Nickel | ND | ug/L | 50.0 | 1.7 | 1 | 08/14/09 12:35 | 08/17/09 21:47 | 7440-02-0 | |
| Selenium | ND | ug/L | 10.0 | 3.8 | 1 | 08/14/09 12:35 | 08/17/09 21:47 | 7782-49-2 | |
| Silver | ND | ug/L | 10.0 | 0.10 | 1 | 08/14/09 12:35 | 08/17/09 21:47 | 7440-22-4 | |
| Thallium | ND | ug/L | 5.5 | 3.0 | 1 | 08/14/09 12:35 | 08/17/09 21:47 | 7440-28-0 | |
| Vanadium | **2.9J** | ug/L | 25.0 | 0.20 | 1 | 08/14/09 12:35 | 08/17/09 21:47 | 7440-62-2 | |
| Zinc | **11.7** | ug/L | 10.0 | 0.40 | 1 | 08/14/09 12:35 | 08/17/09 21:47 | 7440-66-6 | Z2 |
| **7470 Mercury** | Analytical Method: EPA 7470 Preparation Method: EPA 7470 | | | | | | | | |
| Mercury | ND | ug/L | 0.20 | 0.070 | 1 | 08/12/09 09:17 | 08/12/09 12:50 | 7439-97-6 | |
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | ND | ug/L | 100 | 2.2 | 1 | | 08/14/09 18:56 | 67-64-1 | |
| Acrylonitrile | ND | ug/L | 200 | 1.9 | 1 | | 08/14/09 18:56 | 107-13-1 | |
| Benzene | ND | ug/L | 1.0 | 0.25 | 1 | | 08/14/09 18:56 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 3.0 | 0.17 | 1 | | 08/14/09 18:56 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 0.18 | 1 | | 08/14/09 18:56 | 75-27-4 | |
| Bromoform | ND | ug/L | 3.0 | 0.26 | 1 | | 08/14/09 18:56 | 75-25-2 | |
| Bromomethane | ND | ug/L | 10.0 | 0.29 | 1 | | 08/14/09 18:56 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 100 | 0.96 | 1 | | 08/14/09 18:56 | 78-93-3 | |
| Carbon disulfide | ND | ug/L | 100 | 1.2 | 1 | | 08/14/09 18:56 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 0.25 | 1 | | 08/14/09 18:56 | 56-23-5 | |
| Chlorobenzene | **0.94J** | ug/L | 3.0 | 0.23 | 1 | | 08/14/09 18:56 | 108-90-7 | |
| Chloroethane | ND | ug/L | 10.0 | 0.54 | 1 | | 08/14/09 18:56 | 75-00-3 | |
| Chloroform | ND | ug/L | 5.0 | 0.14 | 1 | | 08/14/09 18:56 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 0.11 | 1 | | 08/14/09 18:56 | 74-87-3 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 13.0 | 2.5 | 1 | | 08/14/09 18:56 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 3.0 | 0.21 | 1 | | 08/14/09 18:56 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 0.27 | 1 | | 08/14/09 18:56 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 10.0 | 0.21 | 1 | | 08/14/09 18:56 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 5.0 | 0.30 | 1 | | 08/14/09 18:56 | 95-50-1 | |
| 1,4-Dichlorobenzene | **3.6** | ug/L | 1.0 | 0.33 | 1 | | 08/14/09 18:56 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | ND | ug/L | 100 | 1.0 | 1 | | 08/14/09 18:56 | 110-57-6 | |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | 0.32 | 1 | | 08/14/09 18:56 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 0.12 | 1 | | 08/14/09 18:56 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | 0.56 | 1 | | 08/14/09 18:56 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.19 | 1 | | 08/14/09 18:56 | 156-59-2 | |



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# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: MW-8** **Lab ID: 9250227008** Collected: 08/06/09 14:30 Received: 08/07/09 14:37 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | | |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.49 | 1 | | 08/14/09 18:56 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 0.27 | 1 | | 08/14/09 18:56 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 0.28 | 1 | | 08/14/09 18:56 | 142-28-9 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.13 | 1 | | 08/14/09 18:56 | 10061-01-5 | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/14/09 18:56 | 10061-02-6 | |
| Ethylbenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 08/14/09 18:56 | 100-41-4 | |
| 2-Hexanone | ND | ug/L | 50.0 | 0.46 | 1 | | 08/14/09 18:56 | 591-78-6 | |
| Iodomethane | ND | ug/L | 10.0 | 0.32 | 1 | | 08/14/09 18:56 | 74-88-4 | |
| Methylene Chloride | ND | ug/L | 2.0 | 0.97 | 1 | | 08/14/09 18:56 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 100 | 0.33 | 1 | | 08/14/09 18:56 | 108-10-1 | |
| Styrene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/14/09 18:56 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 5.0 | 0.33 | 1 | | 08/14/09 18:56 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 3.0 | 0.40 | 1 | | 08/14/09 18:56 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 0.46 | 1 | | 08/14/09 18:56 | 127-18-4 | |
| Toluene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/14/09 18:56 | 108-88-3 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 0.48 | 1 | | 08/14/09 18:56 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 0.29 | 1 | | 08/14/09 18:56 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 0.47 | 1 | | 08/14/09 18:56 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 08/14/09 18:56 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 0.41 | 1 | | 08/14/09 18:56 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 50.0 | 0.35 | 1 | | 08/14/09 18:56 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 0.62 | 1 | | 08/14/09 18:56 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 5.0 | 0.66 | 1 | | 08/14/09 18:56 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 0.66 | 1 | | 08/14/09 18:56 | 1330-20-7 | |
| o-Xylene | ND | ug/L | 1.0 | 0.23 | 1 | | 08/14/09 18:56 | 95-47-6 | |
| 4-Bromofluorobenzene (S) | 100 | % | 87-109 | | 1 | | 08/14/09 18:56 | 460-00-4 | |
| Dibromofluoromethane (S) | 96 | % | 85-115 | | 1 | | 08/14/09 18:56 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 99 | % | 79-120 | | 1 | | 08/14/09 18:56 | 17060-07-0 | |
| Toluene-d8 (S) | 99 | % | 70-120 | | 1 | | 08/14/09 18:56 | 2037-26-5 | |
| **2320B Alkalinity** | Analytical Method: SM 2320B | | | | | | | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 08/14/09 17:15 | | |
| **4500S2D Sulfide Water** | Analytical Method: SM 4500-S2D | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.10 | 1 | | 08/11/09 14:52 | | |
| **5210B BOD, 5 day** | Analytical Method: SM 5210B | | | | | | | | |
| BOD, 5 day | ND | mg/L | 2.0 | 2.0 | 1 | 08/08/09 08:43 | 08/13/09 12:05 | | B4 |
| **353.2 Nitrogen, NO2/NO3 unpres** | Analytical Method: EPA 353.2 | | | | | | | | |
| Nitrogen, Nitrate | **204** | ug/L | 100 | 100 | 1 | | 08/07/09 22:55 | | |
| **4500 Chloride** | Analytical Method: SM 4500-Cl-E | | | | | | | | |
| Chloride | **14.7** | mg/L | 5.0 | 5.0 | 1 | | 08/19/09 10:14 | 16887-00-6 | |



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# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: MW-8** **Lab ID: 9250227008** Collected: 08/06/09 14:30 Received: 08/07/09 14:37 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **5220D COD** | Analytical Method: SM 5220D | | | | | | | | |
| Chemical Oxygen Demand | ND | ug/L | 25000 | 25000 | 1 | | 08/18/09 16:40 | | |
| **5310B TOC** | Analytical Method: SM 5310B | | | | | | | | |
| Total Organic Carbon | **5.4** | mg/L | 1.0 | 1.0 | 1 | | 08/11/09 13:11 | 7440-44-0 | |
| **ASTM D516-90 Sulfate Water** | Analytical Method: ASTM D516-90 | | | | | | | | |
| Sulfate | ND | ug/L | 5000 | 5000 | 1 | | 08/17/09 15:01 | 14808-79-8 | |



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# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: SW-1** **Lab ID: 9250227009** Collected: 08/06/09 00:00 Received: 08/07/09 14:37 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 | 2.6 | 1 | 08/14/09 12:35 | 08/17/09 21:51 | 7440-36-0 | |
| Arsenic | ND | ug/L | 10.0 | 2.7 | 1 | 08/14/09 12:35 | 08/17/09 21:51 | 7440-38-2 | |
| Barium | **23.2J** | ug/L | 100 | 0.20 | 1 | 08/14/09 12:35 | 08/17/09 21:51 | 7440-39-3 | |
| Beryllium | ND | ug/L | 1.0 | 0.10 | 1 | 08/14/09 12:35 | 08/17/09 21:51 | 7440-41-7 | |
| Cadmium | ND | ug/L | 1.0 | 0.50 | 1 | 08/14/09 12:35 | 08/17/09 21:51 | 7440-43-9 | |
| Chromium | ND | ug/L | 10.0 | 0.40 | 1 | 08/14/09 12:35 | 08/17/09 21:51 | 7440-47-3 | |
| Cobalt | ND | ug/L | 10.0 | 0.60 | 1 | 08/14/09 12:35 | 08/17/09 21:51 | 7440-48-4 | |
| Copper | ND | ug/L | 10.0 | 0.30 | 1 | 08/14/09 12:35 | 08/17/09 21:51 | 7440-50-8 | |
| Lead | ND | ug/L | 10.0 | 4.0 | 1 | 08/14/09 12:35 | 08/17/09 21:51 | 7439-92-1 | |
| Nickel | ND | ug/L | 50.0 | 1.7 | 1 | 08/14/09 12:35 | 08/17/09 21:51 | 7440-02-0 | |
| Selenium | ND | ug/L | 10.0 | 3.8 | 1 | 08/14/09 12:35 | 08/17/09 21:51 | 7782-49-2 | |
| Silver | ND | ug/L | 10.0 | 0.10 | 1 | 08/14/09 12:35 | 08/17/09 21:51 | 7440-22-4 | |
| Thallium | ND | ug/L | 5.5 | 3.0 | 1 | 08/14/09 12:35 | 08/17/09 21:51 | 7440-28-0 | |
| Vanadium | **0.88J** | ug/L | 25.0 | 0.20 | 1 | 08/14/09 12:35 | 08/17/09 21:51 | 7440-62-2 | |
| Zinc | **11.2** | ug/L | 10.0 | 0.40 | 1 | 08/14/09 12:35 | 08/17/09 21:51 | 7440-66-6 | Z2 |
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | | |
| Acetone | **3.3J** | ug/L | 100 | 2.2 | 1 | | 08/14/09 19:16 | 67-64-1 | |
| Acrylonitrile | ND | ug/L | 200 | 1.9 | 1 | | 08/14/09 19:16 | 107-13-1 | |
| Benzene | ND | ug/L | 1.0 | 0.25 | 1 | | 08/14/09 19:16 | 71-43-2 | |
| Bromochloromethane | ND | ug/L | 3.0 | 0.17 | 1 | | 08/14/09 19:16 | 74-97-5 | |
| Bromodichloromethane | ND | ug/L | 1.0 | 0.18 | 1 | | 08/14/09 19:16 | 75-27-4 | |
| Bromoform | ND | ug/L | 3.0 | 0.26 | 1 | | 08/14/09 19:16 | 75-25-2 | |
| Bromomethane | ND | ug/L | 10.0 | 0.29 | 1 | | 08/14/09 19:16 | 74-83-9 | |
| 2-Butanone (MEK) | ND | ug/L | 100 | 0.96 | 1 | | 08/14/09 19:16 | 78-93-3 | |
| Carbon disulfide | ND | ug/L | 100 | 1.2 | 1 | | 08/14/09 19:16 | 75-15-0 | |
| Carbon tetrachloride | ND | ug/L | 1.0 | 0.25 | 1 | | 08/14/09 19:16 | 56-23-5 | |
| Chlorobenzene | ND | ug/L | 3.0 | 0.23 | 1 | | 08/14/09 19:16 | 108-90-7 | |
| Chloroethane | ND | ug/L | 10.0 | 0.54 | 1 | | 08/14/09 19:16 | 75-00-3 | |
| Chloroform | ND | ug/L | 5.0 | 0.14 | 1 | | 08/14/09 19:16 | 67-66-3 | |
| Chloromethane | ND | ug/L | 1.0 | 0.11 | 1 | | 08/14/09 19:16 | 74-87-3 | |
| 1,2-Dibromo-3-chloropropane | ND | ug/L | 13.0 | 2.5 | 1 | | 08/14/09 19:16 | 96-12-8 | |
| Dibromochloromethane | ND | ug/L | 3.0 | 0.21 | 1 | | 08/14/09 19:16 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | ND | ug/L | 1.0 | 0.27 | 1 | | 08/14/09 19:16 | 106-93-4 | |
| Dibromomethane | ND | ug/L | 10.0 | 0.21 | 1 | | 08/14/09 19:16 | 74-95-3 | |
| 1,2-Dichlorobenzene | ND | ug/L | 5.0 | 0.30 | 1 | | 08/14/09 19:16 | 95-50-1 | |
| 1,4-Dichlorobenzene | ND | ug/L | 1.0 | 0.33 | 1 | | 08/14/09 19:16 | 106-46-7 | |
| trans-1,4-Dichloro-2-butene | ND | ug/L | 100 | 1.0 | 1 | | 08/14/09 19:16 | 110-57-6 | |
| 1,1-Dichloroethane | ND | ug/L | 5.0 | 0.32 | 1 | | 08/14/09 19:16 | 75-34-3 | |
| 1,2-Dichloroethane | ND | ug/L | 1.0 | 0.12 | 1 | | 08/14/09 19:16 | 107-06-2 | |
| 1,1-Dichloroethene | ND | ug/L | 5.0 | 0.56 | 1 | | 08/14/09 19:16 | 75-35-4 | |
| cis-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.19 | 1 | | 08/14/09 19:16 | 156-59-2 | |
| trans-1,2-Dichloroethene | ND | ug/L | 5.0 | 0.49 | 1 | | 08/14/09 19:16 | 156-60-5 | |
| 1,2-Dichloropropane | ND | ug/L | 1.0 | 0.27 | 1 | | 08/14/09 19:16 | 78-87-5 | |
| 1,3-Dichloropropane | ND | ug/L | 1.0 | 0.28 | 1 | | 08/14/09 19:16 | 142-28-9 | |
| cis-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.13 | 1 | | 08/14/09 19:16 | 10061-01-5 | |



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# ANALYTICAL RESULTS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

**Sample: SW-1** **Lab ID: 9250227009** Collected: 08/06/09 00:00 Received: 08/07/09 14:37 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV Low Level** | Analytical Method: EPA 8260 | | | | | | | | |
| trans-1,3-Dichloropropene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/14/09 19:16 | 10061-02-6 | |
| Ethylbenzene | ND | ug/L | 1.0 | 0.30 | 1 | | 08/14/09 19:16 | 100-41-4 | |
| 2-Hexanone | ND | ug/L | 50.0 | 0.46 | 1 | | 08/14/09 19:16 | 591-78-6 | |
| Iodomethane | ND | ug/L | 10.0 | 0.32 | 1 | | 08/14/09 19:16 | 74-88-4 | |
| Methylene Chloride | ND | ug/L | 2.0 | 0.97 | 1 | | 08/14/09 19:16 | 75-09-2 | |
| 4-Methyl-2-pentanone (MIBK) | ND | ug/L | 100 | 0.33 | 1 | | 08/14/09 19:16 | 108-10-1 | |
| Styrene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/14/09 19:16 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | ND | ug/L | 5.0 | 0.33 | 1 | | 08/14/09 19:16 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | ND | ug/L | 3.0 | 0.40 | 1 | | 08/14/09 19:16 | 79-34-5 | |
| Tetrachloroethene | ND | ug/L | 1.0 | 0.46 | 1 | | 08/14/09 19:16 | 127-18-4 | |
| Toluene | ND | ug/L | 1.0 | 0.26 | 1 | | 08/14/09 19:16 | 108-88-3 | |
| 1,1,1-Trichloroethane | ND | ug/L | 1.0 | 0.48 | 1 | | 08/14/09 19:16 | 71-55-6 | |
| 1,1,2-Trichloroethane | ND | ug/L | 1.0 | 0.29 | 1 | | 08/14/09 19:16 | 79-00-5 | |
| Trichloroethene | ND | ug/L | 1.0 | 0.47 | 1 | | 08/14/09 19:16 | 79-01-6 | |
| Trichlorofluoromethane | ND | ug/L | 1.0 | 0.20 | 1 | | 08/14/09 19:16 | 75-69-4 | |
| 1,2,3-Trichloropropane | ND | ug/L | 1.0 | 0.41 | 1 | | 08/14/09 19:16 | 96-18-4 | |
| Vinyl acetate | ND | ug/L | 50.0 | 0.35 | 1 | | 08/14/09 19:16 | 108-05-4 | |
| Vinyl chloride | ND | ug/L | 1.0 | 0.62 | 1 | | 08/14/09 19:16 | 75-01-4 | |
| Xylene (Total) | ND | ug/L | 5.0 | 0.66 | 1 | | 08/14/09 19:16 | 1330-20-7 | |
| m&p-Xylene | ND | ug/L | 2.0 | 0.66 | 1 | | 08/14/09 19:16 | 1330-20-7 | |
| o-Xylene | ND | ug/L | 1.0 | 0.23 | 1 | | 08/14/09 19:16 | 95-47-6 | |
| 4-Bromofluorobenzene (S) | 99 | % | 87-109 | | 1 | | 08/14/09 19:16 | 460-00-4 | |
| Dibromofluoromethane (S) | 97 | % | 85-115 | | 1 | | 08/14/09 19:16 | 1868-53-7 | |
| 1,2-Dichloroethane-d4 (S) | 98 | % | 79-120 | | 1 | | 08/14/09 19:16 | 17060-07-0 | |
| Toluene-d8 (S) | 100 | % | 70-120 | | 1 | | 08/14/09 19:16 | 2037-26-5 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

QC Batch: WET/9390 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 9250227006, 9250227007, 9250227008

METHOD BLANK: 322336 Matrix: Water
Associated Lab Samples: 9250227006, 9250227007, 9250227008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 08/14/09 16:24 | |

LABORATORY CONTROL SAMPLE: 322337

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 51.6 | 103 | 90-110 | |

SAMPLE DUPLICATE: 322338

| Parameter | Units | 9250449001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 23.9 | 23.9 | 0 | 20 | |

SAMPLE DUPLICATE: 322340

| Parameter | Units | 9250847004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Alkalinity, Total as CaCO3 | mg/L | 2110 | 2120 | 1 | 20 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

QC Batch: WETA/5625 | Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 | Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 9250227006, 9250227007, 9250227008

METHOD BLANK: 319786 | Matrix: Water
Associated Lab Samples: 9250227006, 9250227007, 9250227008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Nitrogen, Nitrate | ug/L | ND | 100 | 08/07/09 22:55 | |

LABORATORY CONTROL SAMPLE: 319787

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | ug/L | 5000 | 5220 | 104 | 90-110 | |

MATRIX SPIKE SAMPLE: 319788

| Parameter | Units | 9250438002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | ug/L | 0.19 mg/L | 5000 | 6270 | 121 | 90-110 | M0 |

SAMPLE DUPLICATE: 319789

| Parameter | Units | 9250438001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Nitrogen, Nitrate | ug/L | ND | ND | | 20 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

QC Batch: WETA/5631 Analysis Method: SM 5310B
QC Batch Method: SM 5310B Analysis Description: 5310B TOC
Associated Lab Samples: 9250227006, 9250227007, 9250227008

METHOD BLANK: 319962 Matrix: Water
Associated Lab Samples: 9250227006, 9250227007, 9250227008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | ND | 1.0 | 08/11/09 13:11 | |

LABORATORY CONTROL SAMPLE: 319963

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 25 | 26.2 | 105 | 90-110 | |

MATRIX SPIKE SAMPLE: 319964

| Parameter | Units | 9250369001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 2.4 | 25 | 28.5 | 104 | 75-125 | |

SAMPLE DUPLICATE: 319965

| Parameter | Units | 9250368001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Total Organic Carbon | mg/L | 6.0 | 5.9 | 1 | 20 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

QC Batch: WETA/5690 Analysis Method: SM 5220D
QC Batch Method: SM 5220D Analysis Description: 5220D COD
Associated Lab Samples: 9250227006, 9250227007, 9250227008

METHOD BLANK: 323765 Matrix: Water
Associated Lab Samples: 9250227006, 9250227007, 9250227008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Chemical Oxygen Demand | ug/L | ND | 25000 | 08/18/09 16:40 | |

LABORATORY CONTROL SAMPLE: 323766

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | ug/L | 750000 | 679000 | 90 | 90-110 | |

MATRIX SPIKE SAMPLE: 323767

| Parameter | Units | 9250227006 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | ug/L | ND | 750000 | 742000 | 97 | 75-125 | |

MATRIX SPIKE SAMPLE: 323768

| Parameter | Units | 9250227007 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | ug/L | 85900 | 750000 | 800000 | 95 | 75-125 | |

SAMPLE DUPLICATE: 323769

| Parameter | Units | 9250227008 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | ug/L | ND | ND | | 20 | |

SAMPLE DUPLICATE: 323770

| Parameter | Units | 9250434001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | ug/L | 513 mg/L | 531000 | 3 | 20 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

QC Batch: WETA/5683 Analysis Method: ASTM D516-90
QC Batch Method: ASTM D516-90 Analysis Description: ASTM D516-90 Sulfate Water
Associated Lab Samples: 9250227006, 9250227007, 9250227008

METHOD BLANK: 323126 Matrix: Water
Associated Lab Samples: 9250227006, 9250227007, 9250227008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Sulfate | ug/L | ND | 5000 | 08/17/09 14:56 | |

LABORATORY CONTROL SAMPLE: 323127

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

MATRIX SPIKE SAMPLE: 323128

| Parameter | Units | 9250788003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Sulfate | ug/L | 48.7 mg/L | 20000 | 84400 | 178 | 75-125 | M0 |

MATRIX SPIKE SAMPLE: 323133

| Parameter | Units | 9251000001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Sulfate | ug/L | 20.8 mg/L | 20000 | 31200 | 52 | 75-125 | M0 |

SAMPLE DUPLICATE: 323132

| Parameter | Units | 9250847008 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Sulfate | ug/L | 21.7 mg/L | 29800 | 32 | 20 | R1 |

SAMPLE DUPLICATE: 323134

| Parameter | Units | 9251000002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Sulfate | ug/L | 38.8 mg/L | 37700 | 3 | 20 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

QC Batch: MSV/7926
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9250227001

METHOD BLANK: 320081
Matrix: Water
Associated Lab Samples: 9250227001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 5.0 | 08/11/09 10:59 | |
| 1,1,1-Trichloroethane | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 3.0 | 08/11/09 10:59 | |
| 1,1,2-Trichloroethane | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| 1,1-Dichloroethane | ug/L | ND | 5.0 | 08/11/09 10:59 | |
| 1,1-Dichloroethene | ug/L | ND | 5.0 | 08/11/09 10:59 | |
| 1,2,3-Trichloropropane | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 13.0 | 08/11/09 10:59 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| 1,2-Dichlorobenzene | ug/L | ND | 5.0 | 08/11/09 10:59 | |
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| 1,2-Dichloropropane | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| 1,3-Dichloropropane | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| 1,4-Dichlorobenzene | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| 2-Butanone (MEK) | ug/L | ND | 100 | 08/11/09 10:59 | |
| 2-Hexanone | ug/L | ND | 50.0 | 08/11/09 10:59 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | ND | 100 | 08/11/09 10:59 | |
| Acetone | ug/L | ND | 100 | 08/11/09 10:59 | |
| Acrylonitrile | ug/L | ND | 200 | 08/11/09 10:59 | |
| Benzene | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| Bromochloromethane | ug/L | ND | 3.0 | 08/11/09 10:59 | |
| Bromodichloromethane | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| Bromoform | ug/L | ND | 3.0 | 08/11/09 10:59 | |
| Bromomethane | ug/L | ND | 10.0 | 08/11/09 10:59 | |
| Carbon disulfide | ug/L | ND | 100 | 08/11/09 10:59 | |
| Carbon tetrachloride | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| Chlorobenzene | ug/L | ND | 3.0 | 08/11/09 10:59 | |
| Chloroethane | ug/L | ND | 10.0 | 08/11/09 10:59 | |
| Chloroform | ug/L | ND | 5.0 | 08/11/09 10:59 | |
| Chloromethane | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| cis-1,2-Dichloroethene | ug/L | ND | 5.0 | 08/11/09 10:59 | |
| cis-1,3-Dichloropropene | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| Dibromochloromethane | ug/L | ND | 3.0 | 08/11/09 10:59 | |
| Dibromomethane | ug/L | ND | 10.0 | 08/11/09 10:59 | |
| Ethylbenzene | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| Iodomethane | ug/L | ND | 10.0 | 08/11/09 10:59 | |
| m&p-Xylene | ug/L | ND | 2.0 | 08/11/09 10:59 | |
| Methylene Chloride | ug/L | 1.5J | 2.0 | 08/11/09 10:59 | |
| o-Xylene | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| Styrene | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| Tetrachloroethene | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| Toluene | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| trans-1,2-Dichloroethene | ug/L | ND | 5.0 | 08/11/09 10:59 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

METHOD BLANK: 320081 Matrix: Water

Associated Lab Samples: 9250227001

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| trans-1,4-Dichloro-2-butene | ug/L | ND | 100 | 08/11/09 10:59 | |
| Trichloroethene | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| Trichlorofluoromethane | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| Vinyl acetate | ug/L | ND | 50.0 | 08/11/09 10:59 | |
| Vinyl chloride | ug/L | ND | 1.0 | 08/11/09 10:59 | |
| Xylene (Total) | ug/L | ND | 5.0 | 08/11/09 10:59 | |
| 1,2-Dichloroethane-d4 (S) | % | 97 | 79-120 | 08/11/09 10:59 | |
| 4-Bromofluorobenzene (S) | % | 96 | 87-109 | 08/11/09 10:59 | |
| Dibromofluoromethane (S) | % | 99 | 85-115 | 08/11/09 10:59 | |
| Toluene-d8 (S) | % | 102 | 70-120 | 08/11/09 10:59 | |

LABORATORY CONTROL SAMPLE: 320082

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 50 | 55.6 | 111 | 83-125 | |
| 1,1,1-Trichloroethane | ug/L | 50 | 54.8 | 110 | 80-129 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 62.2 | 124 | 73-127 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 53.3 | 107 | 77-123 | |
| 1,1-Dichloroethane | ug/L | 50 | 52.8 | 106 | 76-129 | |
| 1,1-Dichloroethene | ug/L | 50 | 57.9 | 116 | 78-146 | |
| 1,2,3-Trichloropropane | ug/L | 50 | 55.4 | 111 | 72-125 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 53.4 | 107 | 65-128 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 56.6 | 113 | 81-125 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 52.9 | 106 | 82-126 | |
| 1,2-Dichloroethane | ug/L | 50 | 51.3 | 103 | 72-126 | |
| 1,2-Dichloropropane | ug/L | 50 | 57.5 | 115 | 80-127 | |
| 1,3-Dichloropropane | ug/L | 50 | 55.3 | 111 | 79-124 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 51.8 | 104 | 79-125 | |
| 2-Butanone (MEK) | ug/L | 100 | 101 | 101 | 50-134 | |
| 2-Hexanone | ug/L | 100 | 111 | 111 | 58-138 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 100 | 108 | 108 | 70-131 | |
| Acetone | ug/L | 100 | 92.3J | 92 | 50-146 | |
| Acrylonitrile | ug/L | 250 | 300 | 120 | 66-124 | |
| Benzene | ug/L | 50 | 54.0 | 108 | 78-128 | |
| Bromochloromethane | ug/L | 50 | 48.4 | 97 | 73-124 | |
| Bromodichloromethane | ug/L | 50 | 45.4 | 91 | 81-125 | |
| Bromoform | ug/L | 50 | 47.5 | 95 | 71-125 | |
| Bromomethane | ug/L | 50 | 45.4 | 91 | 50-150 | |
| Carbon disulfide | ug/L | 50 | 57.9J | 116 | 54-150 | |
| Carbon tetrachloride | ug/L | 50 | 52.0 | 104 | 81-137 | |
| Chlorobenzene | ug/L | 50 | 52.6 | 105 | 82-126 | |
| Chloroethane | ug/L | 50 | 45.1 | 90 | 69-140 | |
| Chloroform | ug/L | 50 | 51.9 | 104 | 77-129 | |
| Chloromethane | ug/L | 50 | 53.2 | 106 | 54-139 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

LABORATORY CONTROL SAMPLE: 320082

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ug/L | 50 | 55.5 | 111 | 76-133 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 51.5 | 103 | 76-127 | |
| Dibromochloromethane | ug/L | 50 | 47.4 | 95 | 77-125 | |
| Dibromomethane | ug/L | 50 | 55.4 | 111 | 77-125 | |
| Ethylbenzene | ug/L | 50 | 55.0 | 110 | 80-127 | |
| Iodomethane | ug/L | 100 | 117 | 117 | 65-172 | |
| m&p-Xylene | ug/L | 100 | 96.4 | 96 | 82-127 | |
| Methylene Chloride | ug/L | 50 | 52.8 | 106 | 67-133 | |
| o-Xylene | ug/L | 50 | 57.8 | 116 | 83-124 | |
| Styrene | ug/L | 50 | 50.0 | 100 | 80-130 | |
| Tetrachloroethene | ug/L | 50 | 56.5 | 113 | 78-128 | |
| Toluene | ug/L | 50 | 52.1 | 104 | 76-126 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 53.4 | 107 | 78-134 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 50.1 | 100 | 75-125 | |
| trans-1,4-Dichloro-2-butene | ug/L | 50 | 50.9J | 102 | 51-140 | |
| Trichloroethene | ug/L | 50 | 52.8 | 106 | 79-127 | |
| Trichlorofluoromethane | ug/L | 50 | 57.5 | 115 | 76-148 | |
| Vinyl acetate | ug/L | 100 | 106 | 106 | 50-150 | |
| Vinyl chloride | ug/L | 50 | 44.3 | 89 | 67-143 | |
| Xylene (Total) | ug/L | 150 | 154 | 103 | 83-125 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 92 | 79-120 | |
| 4-Bromofluorobenzene (S) | % | | | 104 | 87-109 | |
| Dibromofluoromethane (S) | % | | | 100 | 85-115 | |
| Toluene-d8 (S) | % | | | 99 | 70-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 320083 320084

| Parameter | Units | 9250227001 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 | 73.4 | 74.1 | 147 | 148 | 60-150 | 1 | 30 | |
| Benzene | ug/L | 0.30J | 50 | 50 | 62.6 | 62.4 | 125 | 124 | 74-136 | 0 | 30 | |
| Chlorobenzene | ug/L | ND | 50 | 50 | 58.9 | 58.5 | 118 | 117 | 79-135 | 1 | 30 | |
| Toluene | ug/L | 0.60J | 50 | 50 | 59.9 | 59.3 | 119 | 117 | 73-131 | 1 | 30 | |
| Trichloroethene | ug/L | ND | 50 | 50 | 59.5 | 58.9 | 119 | 118 | 73-131 | 1 | 30 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | | | 96 | 97 | 79-120 | | | |
| 4-Bromofluorobenzene (S) | % | | | | | | 94 | 94 | 87-109 | | | |
| Dibromofluoromethane (S) | % | | | | | | 99 | 99 | 85-115 | | | |
| Toluene-d8 (S) | % | | | | | | 100 | 99 | 70-120 | | | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

QC Batch: MSV/7962 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9250227006, 9250227007, 9250227008, 9250227009

METHOD BLANK: 321964 Matrix: Water
Associated Lab Samples: 9250227006, 9250227007, 9250227008, 9250227009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 5.0 | 08/14/09 13:02 | |
| 1,1,1-Trichloroethane | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 3.0 | 08/14/09 13:02 | |
| 1,1,2-Trichloroethane | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| 1,1-Dichloroethane | ug/L | ND | 5.0 | 08/14/09 13:02 | |
| 1,1-Dichloroethene | ug/L | ND | 5.0 | 08/14/09 13:02 | |
| 1,2,3-Trichloropropane | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 13.0 | 08/14/09 13:02 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| 1,2-Dichlorobenzene | ug/L | ND | 5.0 | 08/14/09 13:02 | |
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| 1,2-Dichloropropane | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| 1,3-Dichloropropane | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| 1,4-Dichlorobenzene | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| 2-Butanone (MEK) | ug/L | ND | 100 | 08/14/09 13:02 | |
| 2-Hexanone | ug/L | ND | 50.0 | 08/14/09 13:02 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | ND | 100 | 08/14/09 13:02 | |
| Acetone | ug/L | ND | 100 | 08/14/09 13:02 | |
| Acrylonitrile | ug/L | ND | 200 | 08/14/09 13:02 | |
| Benzene | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| Bromochloromethane | ug/L | ND | 3.0 | 08/14/09 13:02 | |
| Bromodichloromethane | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| Bromoform | ug/L | ND | 3.0 | 08/14/09 13:02 | |
| Bromomethane | ug/L | ND | 10.0 | 08/14/09 13:02 | |
| Carbon disulfide | ug/L | ND | 100 | 08/14/09 13:02 | |
| Carbon tetrachloride | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| Chlorobenzene | ug/L | ND | 3.0 | 08/14/09 13:02 | |
| Chloroethane | ug/L | ND | 10.0 | 08/14/09 13:02 | |
| Chloroform | ug/L | ND | 5.0 | 08/14/09 13:02 | |
| Chloromethane | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| cis-1,2-Dichloroethene | ug/L | ND | 5.0 | 08/14/09 13:02 | |
| cis-1,3-Dichloropropene | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| Dibromochloromethane | ug/L | ND | 3.0 | 08/14/09 13:02 | |
| Dibromomethane | ug/L | ND | 10.0 | 08/14/09 13:02 | |
| Ethylbenzene | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| Iodomethane | ug/L | ND | 10.0 | 08/14/09 13:02 | |
| m&p-Xylene | ug/L | ND | 2.0 | 08/14/09 13:02 | |
| Methylene Chloride | ug/L | ND | 2.0 | 08/14/09 13:02 | |
| o-Xylene | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| Styrene | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| Tetrachloroethene | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| Toluene | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| trans-1,2-Dichloroethene | ug/L | ND | 5.0 | 08/14/09 13:02 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

METHOD BLANK: 321964 Matrix: Water

Associated Lab Samples: 9250227006, 9250227007, 9250227008, 9250227009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| trans-1,4-Dichloro-2-butene | ug/L | ND | 100 | 08/14/09 13:02 | |
| Trichloroethene | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| Trichlorofluoromethane | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| Vinyl acetate | ug/L | ND | 50.0 | 08/14/09 13:02 | |
| Vinyl chloride | ug/L | ND | 1.0 | 08/14/09 13:02 | |
| Xylene (Total) | ug/L | ND | 5.0 | 08/14/09 13:02 | |
| 1,2-Dichloroethane-d4 (S) | % | 98 | 79-120 | 08/14/09 13:02 | |
| 4-Bromofluorobenzene (S) | % | 101 | 87-109 | 08/14/09 13:02 | |
| Dibromofluoromethane (S) | % | 91 | 85-115 | 08/14/09 13:02 | |
| Toluene-d8 (S) | % | 98 | 70-120 | 08/14/09 13:02 | |

LABORATORY CONTROL SAMPLE: 321965

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 50 | 54.8 | 110 | 83-125 | |
| 1,1,1-Trichloroethane | ug/L | 50 | 51.1 | 102 | 80-129 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 53.7 | 107 | 73-127 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 54.0 | 108 | 77-123 | |
| 1,1-Dichloroethane | ug/L | 50 | 49.5 | 99 | 76-129 | |
| 1,1-Dichloroethene | ug/L | 50 | 52.5 | 105 | 78-146 | |
| 1,2,3-Trichloropropane | ug/L | 50 | 52.6 | 105 | 72-125 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 52.6 | 105 | 65-128 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 55.3 | 111 | 81-125 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 51.6 | 103 | 82-126 | |
| 1,2-Dichloroethane | ug/L | 50 | 51.5 | 103 | 72-126 | |
| 1,2-Dichloropropane | ug/L | 50 | 53.6 | 107 | 80-127 | |
| 1,3-Dichloropropane | ug/L | 50 | 53.6 | 107 | 79-124 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 50.1 | 100 | 79-125 | |
| 2-Butanone (MEK) | ug/L | 100 | 99.1J | 99 | 50-134 | |
| 2-Hexanone | ug/L | 100 | 104 | 104 | 58-138 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 100 | 105 | 105 | 70-131 | |
| Acetone | ug/L | 100 | 107 | 107 | 50-146 | |
| Acrylonitrile | ug/L | 250 | 256 | 103 | 66-124 | |
| Benzene | ug/L | 50 | 49.8 | 100 | 78-128 | |
| Bromochloromethane | ug/L | 50 | 54.1 | 108 | 73-124 | |
| Bromodichloromethane | ug/L | 50 | 50.2 | 100 | 81-125 | |
| Bromoform | ug/L | 50 | 46.8 | 94 | 71-125 | |
| Bromomethane | ug/L | 50 | 59.4 | 119 | 50-150 | |
| Carbon disulfide | ug/L | 50 | 54.7J | 109 | 54-150 | |
| Carbon tetrachloride | ug/L | 50 | 50.1 | 100 | 81-137 | |
| Chlorobenzene | ug/L | 50 | 50.7 | 101 | 82-126 | |
| Chloroethane | ug/L | 50 | 47.1 | 94 | 69-140 | |
| Chloroform | ug/L | 50 | 49.5 | 99 | 77-129 | |
| Chloromethane | ug/L | 50 | 40.0 | 80 | 54-139 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

LABORATORY CONTROL SAMPLE: 321965

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ug/L | 50 | 51.6 | 103 | 76-133 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 55.2 | 110 | 76-127 | |
| Dibromochloromethane | ug/L | 50 | 52.7 | 105 | 77-125 | |
| Dibromomethane | ug/L | 50 | 53.2 | 106 | 77-125 | |
| Ethylbenzene | ug/L | 50 | 51.9 | 104 | 80-127 | |
| Iodomethane | ug/L | 100 | 129 | 129 | 65-172 | |
| m&p-Xylene | ug/L | 100 | 107 | 107 | 82-127 | |
| Methylene Chloride | ug/L | 50 | 48.8 | 98 | 67-133 | |
| o-Xylene | ug/L | 50 | 55.3 | 111 | 83-124 | |
| Styrene | ug/L | 50 | 48.9 | 98 | 80-130 | |
| Tetrachloroethene | ug/L | 50 | 49.4 | 99 | 78-128 | |
| Toluene | ug/L | 50 | 49.0 | 98 | 76-126 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 48.7 | 97 | 78-134 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 50.1 | 100 | 75-125 | |
| trans-1,4-Dichloro-2-butene | ug/L | 50 | 49.7J | 99 | 51-140 | |
| Trichloroethene | ug/L | 50 | 52.6 | 105 | 79-127 | |
| Trichlorofluoromethane | ug/L | 50 | 49.4 | 99 | 76-148 | |
| Vinyl acetate | ug/L | 100 | 68.1 | 68 | 50-150 | |
| Vinyl chloride | ug/L | 50 | 50.0 | 100 | 67-143 | |
| Xylene (Total) | ug/L | 150 | 163 | 108 | 83-125 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 95 | 79-120 | |
| 4-Bromofluorobenzene (S) | % | | | 103 | 87-109 | |
| Dibromofluoromethane (S) | % | | | 98 | 85-115 | |
| Toluene-d8 (S) | % | | | 98 | 70-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 321966 321967

| Parameter | Units | 9250227006 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 | 62.4 | 53.8 | 125 | 108 | 60-150 | 15 | 30 | |
| Benzene | ug/L | ND | 50 | 50 | 60.8 | 52.8 | 122 | 106 | 74-136 | 14 | 30 | |
| Chlorobenzene | ug/L | ND | 50 | 50 | 59.2 | 51.9 | 118 | 104 | 79-135 | 13 | 30 | |
| Toluene | ug/L | ND | 50 | 50 | 60.0 | 51.5 | 120 | 103 | 73-131 | 15 | 30 | |
| Trichloroethene | ug/L | ND | 50 | 50 | 62.5 | 54.3 | 125 | 109 | 73-131 | 14 | 30 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | | | 100 | 101 | 79-120 | | | |
| 4-Bromofluorobenzene (S) | % | | | | | | 103 | 103 | 87-109 | | | |
| Dibromofluoromethane (S) | % | | | | | | 98 | 98 | 85-115 | | | |
| Toluene-d8 (S) | % | | | | | | 99 | 99 | 70-120 | | | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

QC Batch: WET/9330 Analysis Method: SM 5210B
QC Batch Method: SM 5210B Analysis Description: 5210B BOD, 5 day
Associated Lab Samples: 9250227006, 9250227007, 9250227008

METHOD BLANK: 319794 Matrix: Water
Associated Lab Samples: 9250227006, 9250227007, 9250227008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| BOD, 5 day | mg/L | ND | 2.0 | 08/13/09 12:05 | |

LABORATORY CONTROL SAMPLE: 319795

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| BOD, 5 day | mg/L | 198 | 140 | 71 | 84-115 | B4 |

SAMPLE DUPLICATE: 319796

| Parameter | Units | 9250227006 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| BOD, 5 day | mg/L | ND | ND | | 20 | B4 |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

QC Batch: MSV/7925 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9250227004, 9250227005

METHOD BLANK: 320077 | Matrix: Water
Associated Lab Samples: 9250227004, 9250227005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 5.0 | 08/10/09 22:38 | |
| 1,1,1-Trichloroethane | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 3.0 | 08/10/09 22:38 | |
| 1,1,2-Trichloroethane | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| 1,1-Dichloroethane | ug/L | ND | 5.0 | 08/10/09 22:38 | |
| 1,1-Dichloroethene | ug/L | ND | 5.0 | 08/10/09 22:38 | |
| 1,2,3-Trichloropropane | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 13.0 | 08/10/09 22:38 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| 1,2-Dichlorobenzene | ug/L | ND | 5.0 | 08/10/09 22:38 | |
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| 1,2-Dichloropropane | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| 1,3-Dichloropropane | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| 1,4-Dichlorobenzene | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| 2-Butanone (MEK) | ug/L | ND | 100 | 08/10/09 22:38 | |
| 2-Hexanone | ug/L | ND | 50.0 | 08/10/09 22:38 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | ND | 100 | 08/10/09 22:38 | |
| Acetone | ug/L | ND | 100 | 08/10/09 22:38 | |
| Acrylonitrile | ug/L | ND | 200 | 08/10/09 22:38 | |
| Benzene | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| Bromochloromethane | ug/L | ND | 3.0 | 08/10/09 22:38 | |
| Bromodichloromethane | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| Bromoform | ug/L | ND | 3.0 | 08/10/09 22:38 | |
| Bromomethane | ug/L | ND | 10.0 | 08/10/09 22:38 | |
| Carbon disulfide | ug/L | ND | 100 | 08/10/09 22:38 | |
| Carbon tetrachloride | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| Chlorobenzene | ug/L | ND | 3.0 | 08/10/09 22:38 | |
| Chloroethane | ug/L | ND | 10.0 | 08/10/09 22:38 | |
| Chloroform | ug/L | ND | 5.0 | 08/10/09 22:38 | |
| Chloromethane | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| cis-1,2-Dichloroethene | ug/L | ND | 5.0 | 08/10/09 22:38 | |
| cis-1,3-Dichloropropene | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| Dibromochloromethane | ug/L | ND | 3.0 | 08/10/09 22:38 | |
| Dibromomethane | ug/L | ND | 10.0 | 08/10/09 22:38 | |
| Ethylbenzene | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| Iodomethane | ug/L | ND | 10.0 | 08/10/09 22:38 | |
| m&p-Xylene | ug/L | ND | 2.0 | 08/10/09 22:38 | |
| Methylene Chloride | ug/L | ND | 2.0 | 08/10/09 22:38 | |
| o-Xylene | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| Styrene | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| Tetrachloroethene | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| Toluene | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| trans-1,2-Dichloroethene | ug/L | ND | 5.0 | 08/10/09 22:38 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

METHOD BLANK: 320077 Matrix: Water

Associated Lab Samples: 9250227004, 9250227005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| trans-1,4-Dichloro-2-butene | ug/L | ND | 100 | 08/10/09 22:38 | |
| Trichloroethene | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| Trichlorofluoromethane | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| Vinyl acetate | ug/L | ND | 50.0 | 08/10/09 22:38 | |
| Vinyl chloride | ug/L | ND | 1.0 | 08/10/09 22:38 | |
| Xylene (Total) | ug/L | ND | 5.0 | 08/10/09 22:38 | |
| 1,2-Dichloroethane-d4 (S) | % | 96 | 79-120 | 08/10/09 22:38 | |
| 4-Bromofluorobenzene (S) | % | 96 | 87-109 | 08/10/09 22:38 | |
| Dibromofluoromethane (S) | % | 101 | 85-115 | 08/10/09 22:38 | |
| Toluene-d8 (S) | % | 105 | 70-120 | 08/10/09 22:38 | |

LABORATORY CONTROL SAMPLE: 320078

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 50 | 54.4 | 109 | 83-125 | |
| 1,1,1-Trichloroethane | ug/L | 50 | 53.0 | 106 | 80-129 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 54.0 | 108 | 73-127 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 55.4 | 111 | 77-123 | |
| 1,1-Dichloroethane | ug/L | 50 | 52.8 | 106 | 76-129 | |
| 1,1-Dichloroethene | ug/L | 50 | 59.4 | 119 | 78-146 | |
| 1,2,3-Trichloropropane | ug/L | 50 | 49.5 | 99 | 72-125 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 53.7 | 107 | 65-128 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 55.9 | 112 | 81-125 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 52.3 | 105 | 82-126 | |
| 1,2-Dichloroethane | ug/L | 50 | 51.9 | 104 | 72-126 | |
| 1,2-Dichloropropane | ug/L | 50 | 57.0 | 114 | 80-127 | |
| 1,3-Dichloropropane | ug/L | 50 | 54.7 | 109 | 79-124 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 50.3 | 101 | 79-125 | |
| 2-Butanone (MEK) | ug/L | 100 | 104 | 104 | 50-134 | |
| 2-Hexanone | ug/L | 100 | 112 | 112 | 58-138 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 100 | 114 | 114 | 70-131 | |
| Acetone | ug/L | 100 | 104 | 104 | 50-146 | |
| Acrylonitrile | ug/L | 250 | 304 | 122 | 66-124 | |
| Benzene | ug/L | 50 | 52.6 | 105 | 78-128 | |
| Bromochloromethane | ug/L | 50 | 46.2 | 92 | 73-124 | |
| Bromodichloromethane | ug/L | 50 | 45.9 | 92 | 81-125 | |
| Bromoform | ug/L | 50 | 44.8 | 90 | 71-125 | |
| Bromomethane | ug/L | 50 | 43.5 | 87 | 50-150 | |
| Carbon disulfide | ug/L | 50 | 57.9J | 116 | 54-150 | |
| Carbon tetrachloride | ug/L | 50 | 48.5 | 97 | 81-137 | |
| Chlorobenzene | ug/L | 50 | 50.7 | 101 | 82-126 | |
| Chloroethane | ug/L | 50 | 48.6 | 97 | 69-140 | |
| Chloroform | ug/L | 50 | 51.7 | 103 | 77-129 | |
| Chloromethane | ug/L | 50 | 49.7 | 99 | 54-139 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

LABORATORY CONTROL SAMPLE: 320078

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ug/L | 50 | 54.9 | 110 | 76-133 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 51.1 | 102 | 76-127 | |
| Dibromochloromethane | ug/L | 50 | 46.4 | 93 | 77-125 | |
| Dibromomethane | ug/L | 50 | 55.1 | 110 | 77-125 | |
| Ethylbenzene | ug/L | 50 | 51.8 | 104 | 80-127 | |
| Iodomethane | ug/L | 100 | 117 | 117 | 65-172 | |
| m&p-Xylene | ug/L | 100 | 92.4 | 92 | 82-127 | |
| Methylene Chloride | ug/L | 50 | 53.7 | 107 | 67-133 | |
| o-Xylene | ug/L | 50 | 54.7 | 109 | 83-124 | |
| Styrene | ug/L | 50 | 47.2 | 94 | 80-130 | |
| Tetrachloroethene | ug/L | 50 | 52.7 | 105 | 78-128 | |
| Toluene | ug/L | 50 | 52.4 | 105 | 76-126 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 52.6 | 105 | 78-134 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 51.5 | 103 | 75-125 | |
| trans-1,4-Dichloro-2-butene | ug/L | 50 | 47.2J | 94 | 51-140 | |
| Trichloroethene | ug/L | 50 | 54.1 | 108 | 79-127 | |
| Trichlorofluoromethane | ug/L | 50 | 51.9 | 104 | 76-148 | |
| Vinyl acetate | ug/L | 100 | 68.1 | 68 | 50-150 | |
| Vinyl chloride | ug/L | 50 | 43.9 | 88 | 67-143 | |
| Xylene (Total) | ug/L | 150 | 147 | 98 | 83-125 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 95 | 79-120 | |
| 4-Bromofluorobenzene (S) | % | | | 99 | 87-109 | |
| Dibromofluoromethane (S) | % | | | 100 | 85-115 | |
| Toluene-d8 (S) | % | | | 104 | 70-120 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

QC Batch: MSV/7933 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 9250227002, 9250227003

METHOD BLANK: 320356 | Matrix: Water
Associated Lab Samples: 9250227002, 9250227003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | ND | 5.0 | 08/12/09 21:10 | |
| 1,1,1-Trichloroethane | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 3.0 | 08/12/09 21:10 | |
| 1,1,2-Trichloroethane | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| 1,1-Dichloroethane | ug/L | ND | 5.0 | 08/12/09 21:10 | |
| 1,1-Dichloroethene | ug/L | ND | 5.0 | 08/12/09 21:10 | |
| 1,2,3-Trichloropropane | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| 1,2-Dibromo-3-chloropropane | ug/L | ND | 13.0 | 08/12/09 21:10 | |
| 1,2-Dibromoethane (EDB) | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| 1,2-Dichlorobenzene | ug/L | ND | 5.0 | 08/12/09 21:10 | |
| 1,2-Dichloroethane | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| 1,2-Dichloropropane | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| 1,3-Dichloropropane | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| 1,4-Dichlorobenzene | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| 2-Butanone (MEK) | ug/L | ND | 100 | 08/12/09 21:10 | |
| 2-Hexanone | ug/L | ND | 50.0 | 08/12/09 21:10 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | ND | 100 | 08/12/09 21:10 | |
| Acetone | ug/L | ND | 100 | 08/12/09 21:10 | |
| Acrylonitrile | ug/L | ND | 200 | 08/12/09 21:10 | |
| Benzene | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| Bromochloromethane | ug/L | ND | 3.0 | 08/12/09 21:10 | |
| Bromodichloromethane | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| Bromoform | ug/L | ND | 3.0 | 08/12/09 21:10 | |
| Bromomethane | ug/L | ND | 10.0 | 08/12/09 21:10 | |
| Carbon disulfide | ug/L | ND | 100 | 08/12/09 21:10 | |
| Carbon tetrachloride | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| Chlorobenzene | ug/L | ND | 3.0 | 08/12/09 21:10 | |
| Chloroethane | ug/L | ND | 10.0 | 08/12/09 21:10 | |
| Chloroform | ug/L | ND | 5.0 | 08/12/09 21:10 | |
| Chloromethane | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| cis-1,2-Dichloroethene | ug/L | ND | 5.0 | 08/12/09 21:10 | |
| cis-1,3-Dichloropropene | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| Dibromochloromethane | ug/L | ND | 3.0 | 08/12/09 21:10 | |
| Dibromomethane | ug/L | ND | 10.0 | 08/12/09 21:10 | |
| Ethylbenzene | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| Iodomethane | ug/L | ND | 10.0 | 08/12/09 21:10 | |
| m&p-Xylene | ug/L | ND | 2.0 | 08/12/09 21:10 | |
| Methylene Chloride | ug/L | ND | 2.0 | 08/12/09 21:10 | |
| o-Xylene | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| Styrene | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| Tetrachloroethene | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| Toluene | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| trans-1,2-Dichloroethene | ug/L | ND | 5.0 | 08/12/09 21:10 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

METHOD BLANK: 320356 Matrix: Water

Associated Lab Samples: 9250227002, 9250227003

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| trans-1,3-Dichloropropene | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| trans-1,4-Dichloro-2-butene | ug/L | ND | 100 | 08/12/09 21:10 | |
| Trichloroethene | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| Trichlorofluoromethane | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| Vinyl acetate | ug/L | ND | 50.0 | 08/12/09 21:10 | |
| Vinyl chloride | ug/L | ND | 1.0 | 08/12/09 21:10 | |
| Xylene (Total) | ug/L | ND | 5.0 | 08/12/09 21:10 | |
| 1,2-Dichloroethane-d4 (S) | % | 98 | 79-120 | 08/12/09 21:10 | |
| 4-Bromofluorobenzene (S) | % | 100 | 87-109 | 08/12/09 21:10 | |
| Dibromofluoromethane (S) | % | 100 | 85-115 | 08/12/09 21:10 | |
| Toluene-d8 (S) | % | 100 | 70-120 | 08/12/09 21:10 | |

LABORATORY CONTROL SAMPLE: 320357

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | 50 | 54.9 | 110 | 83-125 | |
| 1,1,1-Trichloroethane | ug/L | 50 | 55.5 | 111 | 80-129 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 61.6 | 123 | 73-127 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 53.0 | 106 | 77-123 | |
| 1,1-Dichloroethane | ug/L | 50 | 53.9 | 108 | 76-129 | |
| 1,1-Dichloroethene | ug/L | 50 | 63.8 | 128 | 78-146 | |
| 1,2,3-Trichloropropane | ug/L | 50 | 53.6 | 107 | 72-125 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 53.5 | 107 | 65-128 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 56.0 | 112 | 81-125 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 52.0 | 104 | 82-126 | |
| 1,2-Dichloroethane | ug/L | 50 | 51.9 | 104 | 72-126 | |
| 1,2-Dichloropropane | ug/L | 50 | 57.0 | 114 | 80-127 | |
| 1,3-Dichloropropane | ug/L | 50 | 54.4 | 109 | 79-124 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 50.6 | 101 | 79-125 | |
| 2-Butanone (MEK) | ug/L | 100 | 108 | 108 | 50-134 | |
| 2-Hexanone | ug/L | 100 | 113 | 113 | 58-138 | |
| 4-Methyl-2-pentanone (MIBK) | ug/L | 100 | 107 | 107 | 70-131 | |
| Acetone | ug/L | 100 | 92.9J | 93 | 50-146 | |
| Acrylonitrile | ug/L | 250 | 280 | 112 | 66-124 | |
| Benzene | ug/L | 50 | 53.9 | 108 | 78-128 | |
| Bromochloromethane | ug/L | 50 | 46.0 | 92 | 73-124 | |
| Bromodichloromethane | ug/L | 50 | 44.8 | 90 | 81-125 | |
| Bromoform | ug/L | 50 | 45.8 | 92 | 71-125 | |
| Bromomethane | ug/L | 50 | 49.3 | 99 | 50-150 | |
| Carbon disulfide | ug/L | 50 | 61.3J | 123 | 54-150 | |
| Carbon tetrachloride | ug/L | 50 | 51.3 | 103 | 81-137 | |
| Chlorobenzene | ug/L | 50 | 51.7 | 103 | 82-126 | |
| Chloroethane | ug/L | 50 | 51.5 | 103 | 69-140 | |
| Chloroform | ug/L | 50 | 52.7 | 105 | 77-129 | |
| Chloromethane | ug/L | 50 | 56.9 | 114 | 54-139 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

LABORATORY CONTROL SAMPLE: 320357

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | ug/L | 50 | 55.6 | 111 | 76-133 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 50.2 | 100 | 76-127 | |
| Dibromochloromethane | ug/L | 50 | 45.1 | 90 | 77-125 | |
| Dibromomethane | ug/L | 50 | 53.9 | 108 | 77-125 | |
| Ethylbenzene | ug/L | 50 | 55.1 | 110 | 80-127 | |
| Iodomethane | ug/L | 100 | 116 | 116 | 65-172 | |
| m&p-Xylene | ug/L | 100 | 97.1 | 97 | 82-127 | |
| Methylene Chloride | ug/L | 50 | 54.2 | 108 | 67-133 | |
| o-Xylene | ug/L | 50 | 57.2 | 114 | 83-124 | |
| Styrene | ug/L | 50 | 49.1 | 98 | 80-130 | |
| Tetrachloroethene | ug/L | 50 | 54.9 | 110 | 78-128 | |
| Toluene | ug/L | 50 | 51.7 | 103 | 76-126 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 54.4 | 109 | 78-134 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 48.4 | 97 | 75-125 | |
| trans-1,4-Dichloro-2-butene | ug/L | 50 | 51.0J | 102 | 51-140 | |
| Trichloroethene | ug/L | 50 | 52.6 | 105 | 79-127 | |
| Trichlorofluoromethane | ug/L | 50 | 59.8 | 120 | 76-148 | |
| Vinyl acetate | ug/L | 100 | 101 | 101 | 50-150 | |
| Vinyl chloride | ug/L | 50 | 47.2 | 94 | 67-143 | |
| Xylene (Total) | ug/L | 150 | 154 | 103 | 83-125 | |
| 1,2-Dichloroethane-d4 (S) | % | | | 93 | 79-120 | |
| 4-Bromofluorobenzene (S) | % | | | 102 | 87-109 | |
| Dibromofluoromethane (S) | % | | | 100 | 85-115 | |
| Toluene-d8 (S) | % | | | 100 | 70-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 320358 320359

| Parameter | Units | 9250424017 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 | 76.6 | 75.4 | 153 | 151 | 60-150 | 2 | 30 | M0 |
| Benzene | ug/L | ND | 50 | 50 | 63.5 | 63.0 | 127 | 126 | 74-136 | 1 | 30 | |
| Chlorobenzene | ug/L | ND | 50 | 50 | 61.8 | 61.2 | 124 | 122 | 79-135 | 1 | 30 | |
| Toluene | ug/L | ND | 50 | 50 | 60.9 | 59.9 | 122 | 120 | 73-131 | 2 | 30 | |
| Trichloroethene | ug/L | ND | 50 | 50 | 59.6 | 58.4 | 119 | 117 | 73-131 | 2 | 30 | |
| 1,2-Dichloroethane-d4 (S) | % | | | | | | 91 | 92 | 79-120 | | | |
| 4-Bromofluorobenzene (S) | % | | | | | | 100 | 101 | 87-109 | | | |
| Dibromofluoromethane (S) | % | | | | | | 97 | 97 | 85-115 | | | |
| Toluene-d8 (S) | % | | | | | | 99 | 99 | 70-120 | | | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

QC Batch: MERP/2322 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 9250227001, 9250227002, 9250227003, 9250227004, 9250227005

METHOD BLANK: 322575 Matrix: Water
Associated Lab Samples: 9250227001, 9250227002, 9250227003, 9250227004, 9250227005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | ug/L | ND | 0.20 | 08/17/09 14:28 | |

LABORATORY CONTROL SAMPLE: 322576

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 2.5 | 2.4 | 98 | 80-120 | |

MATRIX SPIKE SAMPLE: 322577

| Parameter | Units | 9250227001 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | ug/L | ND | 2.5 | 1.5 | 60 | 75-125 | M0 |

SAMPLE DUPLICATE: 322578

| Parameter | Units | 9250227002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | ND | ND | | 25 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

QC Batch: MPRP/4905 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9250227006, 9250227007, 9250227008, 9250227009

METHOD BLANK: 322369 Matrix: Water
Associated Lab Samples: 9250227006, 9250227007, 9250227008, 9250227009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Antimony | ug/L | ND | 6.0 | 08/17/09 20:51 | |
| Arsenic | ug/L | ND | 10.0 | 08/17/09 20:51 | |
| Barium | ug/L | ND | 100 | 08/17/09 20:51 | |
| Beryllium | ug/L | ND | 1.0 | 08/17/09 20:51 | |
| Cadmium | ug/L | ND | 1.0 | 08/17/09 20:51 | |
| Chromium | ug/L | ND | 10.0 | 08/17/09 20:51 | |
| Cobalt | ug/L | ND | 10.0 | 08/17/09 20:51 | |
| Copper | ug/L | ND | 10.0 | 08/17/09 20:51 | |
| Iron | ug/L | ND | 50.0 | 08/17/09 20:51 | |
| Lead | ug/L | ND | 10.0 | 08/17/09 20:51 | |
| Nickel | ug/L | ND | 50.0 | 08/17/09 20:51 | |
| Selenium | ug/L | ND | 10.0 | 08/17/09 20:51 | |
| Silver | ug/L | ND | 10.0 | 08/17/09 20:51 | |
| Thallium | ug/L | ND | 5.5 | 08/17/09 20:51 | |
| Vanadium | ug/L | ND | 25.0 | 08/17/09 20:51 | |
| Zinc | ug/L | 9.6J | 10.0 | 08/17/09 20:51 | |

LABORATORY CONTROL SAMPLE: 322370

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | ug/L | 500 | 492 | 98 | 80-120 | |
| Arsenic | ug/L | 500 | 481 | 96 | 80-120 | |
| Barium | ug/L | 500 | 489 | 98 | 80-120 | |
| Beryllium | ug/L | 500 | 503 | 101 | 80-120 | |
| Cadmium | ug/L | 500 | 487 | 97 | 80-120 | |
| Chromium | ug/L | 500 | 499 | 100 | 80-120 | |
| Cobalt | ug/L | 500 | 499 | 100 | 80-120 | |
| Copper | ug/L | 500 | 489 | 98 | 80-120 | |
| Iron | ug/L | 5000 | 4990 | 100 | 80-120 | |
| Lead | ug/L | 500 | 493 | 99 | 80-120 | |
| Nickel | ug/L | 500 | 496 | 99 | 80-120 | |
| Selenium | ug/L | 500 | 476 | 95 | 80-120 | |
| Silver | ug/L | 250 | 251 | 100 | 80-120 | |
| Thallium | ug/L | 500 | 466 | 93 | 80-120 | |
| Vanadium | ug/L | 500 | 495 | 99 | 80-120 | |
| Zinc | ug/L | 500 | 491 | 98 | 80-120 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

MATRIX SPIKE SAMPLE: 322371

| Parameter | Units | 9250424020 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Antimony | ug/L | ND | 500 | 536 | 107 | 75-125 | |
| Arsenic | ug/L | 17.3 | 500 | 569 | 110 | 75-125 | |
| Barium | ug/L | 185 | 500 | 627 | 88 | 75-125 | |
| Beryllium | ug/L | ND | 500 | 506 | 101 | 75-125 | |
| Cadmium | ug/L | ND | 500 | 478 | 96 | 75-125 | |
| Chromium | ug/L | 19.7 | 500 | 519 | 100 | 75-125 | |
| Cobalt | ug/L | 10.6 | 500 | 473 | 92 | 75-125 | |
| Copper | ug/L | 36.0 | 500 | 546 | 102 | 75-125 | |
| Iron | ug/L | 15700 | 5000 | 19900 | 83 | 75-125 | |
| Lead | ug/L | ND | 500 | 462 | 92 | 75-125 | |
| Nickel | ug/L | 59.7 | 500 | 526 | 93 | 75-125 | |
| Selenium | ug/L | ND | 500 | 542 | 108 | 75-125 | |
| Silver | ug/L | 0.49J | 250 | 278 | 111 | 75-125 | |
| Thallium | ug/L | ND | 500 | 403 | 81 | 75-125 | |
| Vanadium | ug/L | 18.4J | 500 | 516 | 100 | 75-125 | |
| Zinc | ug/L | 25.6 | 500 | 562 | 107 | 75-125 | |

SAMPLE DUPLICATE: 322372

| Parameter | Units | 9250424021 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | ug/L | 6.3 | 6.2 | 3 | 25 | |
| Arsenic | ug/L | 9.7J | 9.2J | 5 | 25 | |
| Barium | ug/L | 114 | 115 | 1 | 25 | |
| Beryllium | ug/L | ND | ND | | 25 | |
| Cadmium | ug/L | ND | ND | | 25 | |
| Chromium | ug/L | 22.2 | 21.8 | 2 | 25 | |
| Cobalt | ug/L | 7.3J | 7.3J | 1 | 25 | |
| Copper | ug/L | 671 | 674 | 0 | 25 | |
| Iron | ug/L | 8240 | 8210 | 0 | 25 | |
| Lead | ug/L | 12.5 | 12.3 | 2 | 25 | |
| Nickel | ug/L | 87.9 | 88.1 | 0 | 25 | |
| Selenium | ug/L | 6.0J | ND | | 25 | |
| Silver | ug/L | 0.58J | 0.57J | | 25 | |
| Thallium | ug/L | ND | ND | | 25 | |
| Vanadium | ug/L | 15.3J | 15.3J | 0 | 25 | |
| Zinc | ug/L | 83.1 | 85.6 | 3 | 25 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

QC Batch: MPRP/4880 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9250227001, 9250227002, 9250227003, 9250227004, 9250227005

METHOD BLANK: 319302 Matrix: Water
Associated Lab Samples: 9250227001, 9250227002, 9250227003, 9250227004, 9250227005

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Antimony | ug/L | ND | 6.0 | 08/13/09 01:45 | |
| Arsenic | ug/L | ND | 10.0 | 08/13/09 01:45 | |
| Barium | ug/L | ND | 100 | 08/13/09 01:45 | |
| Beryllium | ug/L | ND | 1.0 | 08/13/09 01:45 | |
| Cadmium | ug/L | ND | 1.0 | 08/13/09 01:45 | |
| Chromium | ug/L | ND | 10.0 | 08/13/09 01:45 | |
| Cobalt | ug/L | ND | 10.0 | 08/13/09 01:45 | |
| Copper | ug/L | ND | 10.0 | 08/13/09 01:45 | |
| Lead | ug/L | ND | 10.0 | 08/13/09 01:45 | |
| Nickel | ug/L | ND | 50.0 | 08/13/09 01:45 | |
| Selenium | ug/L | ND | 10.0 | 08/13/09 01:45 | |
| Silver | ug/L | ND | 10.0 | 08/13/09 01:45 | |
| Thallium | ug/L | ND | 5.5 | 08/13/09 01:45 | |
| Vanadium | ug/L | 0.22J | 25.0 | 08/13/09 01:45 | |
| Zinc | ug/L | 8.4J | 10.0 | 08/13/09 01:45 | |

LABORATORY CONTROL SAMPLE: 319303

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | ug/L | 500 | 516 | 103 | 80-120 | |
| Arsenic | ug/L | 500 | 523 | 105 | 80-120 | |
| Barium | ug/L | 500 | 493 | 99 | 80-120 | |
| Beryllium | ug/L | 500 | 524 | 105 | 80-120 | |
| Cadmium | ug/L | 500 | 531 | 106 | 80-120 | |
| Chromium | ug/L | 500 | 541 | 108 | 80-120 | |
| Cobalt | ug/L | 500 | 526 | 105 | 80-120 | |
| Copper | ug/L | 500 | 490 | 98 | 80-120 | |
| Lead | ug/L | 500 | 517 | 103 | 80-120 | |
| Nickel | ug/L | 500 | 533 | 107 | 80-120 | |
| Selenium | ug/L | 500 | 508 | 102 | 80-120 | |
| Silver | ug/L | 250 | 260 | 104 | 80-120 | |
| Thallium | ug/L | 500 | 492 | 98 | 80-120 | |
| Vanadium | ug/L | 500 | 520 | 104 | 80-120 | |
| Zinc | ug/L | 500 | 543 | 109 | 80-120 | |

MATRIX SPIKE SAMPLE: 319304

| Parameter | Units | 9249914003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Antimony | ug/L | ND | 500 | 520 | 104 | 75-125 | |
| Arsenic | ug/L | ND | 500 | 540 | 108 | 75-125 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

MATRIX SPIKE SAMPLE: 319304

| Parameter | Units | 9249914003 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Barium | ug/L | 78.1 | 500 | 546 | 94 | 75-125 | |
| Beryllium | ug/L | ND | 500 | 535 | 107 | 75-125 | |
| Cadmium | ug/L | ND | 500 | 513 | 103 | 75-125 | |
| Chromium | ug/L | ND | 500 | 526 | 105 | 75-125 | |
| Cobalt | ug/L | 19.3 | 500 | 521 | 100 | 75-125 | |
| Copper | ug/L | ND | 500 | 493 | 98 | 75-125 | |
| Lead | ug/L | ND | 500 | 487 | 97 | 75-125 | |
| Nickel | ug/L | 23.2 | 500 | 529 | 101 | 75-125 | |
| Selenium | ug/L | ND | 500 | 526 | 105 | 75-125 | |
| Silver | ug/L | ND | 250 | 261 | 104 | 75-125 | |
| Thallium | ug/L | ND | 500 | 454 | 91 | 75-125 | |
| Vanadium | ug/L | ND | 500 | 515 | 102 | 75-125 | |
| Zinc | ug/L | 13.9 | 500 | 549 | 107 | 75-125 | |

SAMPLE DUPLICATE: 319305

| Parameter | Units | 9249914004 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Antimony | ug/L | ND | ND | | 25 | |
| Arsenic | ug/L | ND | 2.7J | | 25 | |
| Barium | ug/L | 51.6 | 52.7J | 2 | 25 | |
| Beryllium | ug/L | ND | ND | | 25 | |
| Cadmium | ug/L | ND | ND | | 25 | |
| Chromium | ug/L | ND | 19.9 | | 25 | |
| Cobalt | ug/L | 16.9 | 17.6 | 4 | 25 | |
| Copper | ug/L | ND | 4.9J | | 25 | |
| Lead | ug/L | ND | ND | | 25 | |
| Nickel | ug/L | 31.8 | 39.9J | 23 | 25 | |
| Selenium | ug/L | ND | ND | | 25 | |
| Silver | ug/L | ND | 1.0J | | 25 | |
| Thallium | ug/L | ND | ND | | 25 | |
| Vanadium | ug/L | ND | 2.8J | | 25 | |
| Zinc | ug/L | 12.3 | 11.6 | 6 | 25 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

QC Batch: WET/9337 Analysis Method: SM 4500-S2D
QC Batch Method: SM 4500-S2D Analysis Description: 4500S2D Sulfide Water
Associated Lab Samples: 9250227006, 9250227007, 9250227008

METHOD BLANK: 320240 Matrix: Water
Associated Lab Samples: 9250227006, 9250227007, 9250227008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Sulfide | mg/L | ND | 0.10 | 08/11/09 14:52 | |

LABORATORY CONTROL SAMPLE: 320241

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Sulfide | mg/L | .5 | 0.50 | 100 | 90-110 | |

MATRIX SPIKE SAMPLE: 320242

| Parameter | Units | 9250007002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Sulfide | mg/L | ND | .5 | 0.56 | 112 | 75-125 | |

SAMPLE DUPLICATE: 320243

| Parameter | Units | 9250152002 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Sulfide | mg/L | ND | ND | | 20 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

QC Batch: MERP/2315 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 9250227006, 9250227007, 9250227008

METHOD BLANK: 320000 Matrix: Water
Associated Lab Samples: 9250227006, 9250227007, 9250227008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | ug/L | ND | 0.20 | 08/12/09 11:55 | |

LABORATORY CONTROL SAMPLE: 320001

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 2.5 | 2.2 | 90 | 80-120 | |

MATRIX SPIKE SAMPLE: 320002

| Parameter | Units | 9250163007 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Mercury | ug/L | ND | 2.5 | 2.5 | 102 | 75-125 | |

SAMPLE DUPLICATE: 320003

| Parameter | Units | 9250163008 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | ug/L | 1.3 | 1.1 | 13 | 25 | |



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# QUALITY CONTROL DATA

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

QC Batch: WETA/5695 Analysis Method: SM 4500-Cl-E
QC Batch Method: SM 4500-Cl-E Analysis Description: 4500 Chloride
Associated Lab Samples: 9250227006, 9250227007, 9250227008

METHOD BLANK: 324083 Matrix: Water
Associated Lab Samples: 9250227006, 9250227007, 9250227008

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Chloride | mg/L | ND | 5.0 | 08/19/09 10:06 | |

LABORATORY CONTROL SAMPLE: 324084

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | 20 | 21.2 | 106 | 90-110 | |

MATRIX SPIKE SAMPLE: 324085

| Parameter | Units | 9250178002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 8700 | 20 | 9090 | 1912 | 75-125 | M0 |

MATRIX SPIKE SAMPLE: 324088

| Parameter | Units | 9250788002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|---|
| Chloride | mg/L | 10.3 | 20 | 28.3 | 90 | 75-125 | |

SAMPLE DUPLICATE: 324087

| Parameter | Units | 9250194001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | 142 | 142 | 0 | 20 | |

SAMPLE DUPLICATE: 324089

| Parameter | Units | 9250788003 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Chloride | mg/L | 193 | 195 | 1 | 20 | |



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# QUALIFIERS

Project: WAYNE CLOSED MSWLF
Pace Project No.: 9250227

## 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.

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

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

## LABORATORIES

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

## ANALYTE QUALIFIERS

| | |
|---|---|
| B4 | The glucose/glutamic acid standard exceeded the range of 198 plus or minus 30.5 mg/L. |
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. |
| R1 | RPD value was outside control limits. |
| Z2 | Analyte present in the associated method blank above the detection limit. |



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microseeps
from insight comes solutions

Client Name: Pace Analytical
Contact: Bonnie McKee
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078

Page: Page 1 of 9
Lab Proj #: P0908110
Report Date: 08/18/09
Client Proj Name: CHS07358
Client Proj #: CHS07358

## Laboratory Results

Total pages in data package: 10

| Lab Sample # | Client Sample ID |
|---|---|
| P0908110-01 | MW-1 |
| P0908110-02 | MW-2 |
| P0908110-03 | MW-8 |

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

***Approved By:*** Heather Hauser ***Date:*** 8.18.09

***Project Manager:*** Heather Hauser

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

*As a valued client we would appreciate your comments on our service.*
*Please call customer service at (412)826-5245 or email customerservice@microseeps.com.*

***Case Narrative:*** The percent recoveries for one of the MS/MSD analyses for acetic acid could not be calculated because of the unspiked sample concentration. The percent recoveries for lactic and pyruvic acids were outside of control limits.

Client Name: Pace Analytical
Contact: Bonnie McKee
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078


Lab Proj #: P0908110
Report Date: 08/18/09
Client Proj Name: CHS07358
Client Proj #: CHS07358

| Sample Description | Matrix | Lab Sample # | Sampled Date/Time | Received |
|---|---|---|---|---|
| MW-1 | Vapor | P0908110-01 | 06 Aug. 09 9:00 | 11 Aug. 09 11:23 |

| Analyte(s) | Flag | Result | PQL | Units | Method # | Analysis Date | By |
|---|---|---|---|---|---|---|---|
| **RiskAnalysis** | | | | | | | |
| N Ethane | U | < 0.010 | 0.010 | ug/L | AM20GAX | 8/17/09 | mm |
| N Ethene | | 0.011 | 0.010 | ug/L | AM20GAX | 8/17/09 | mm |
| N Hydrogen | | 1.800 | 0.600 | nM | AM20GAX | 8/17/09 | mm |
| N Methane | | 0.045 | 0.015 | ug/L | AM20GAX | 8/17/09 | mm |
| **SemiVolatiles** | | | | | | | |
| N Acetic Acid | UM | < 1.0 | 1 | mg/L | AM21G | 8/13/09 | td |
| N Butyric Acid | U | < 1.0 | 1 | mg/L | AM21G | 8/13/09 | td |
| N Lactic Acid | UM | < 25.0 | 25 | mg/L | AM21G | 8/13/09 | td |
| N Propionic Acid | U | < 1.0 | 1 | mg/L | AM21G | 8/13/09 | td |
| N Pyruvic Acid | UM | < 10.0 | 10 | mg/L | AM21G | 8/13/09 | td |

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Pace Analytical
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Address: 9800 Kincey Ave
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Huntersville, NC 28078

Page: Page 4 of 9
Lab Proj #: P0908110
Report Date: 08/18/09
Client Proj Name: CHS07358
Client Proj #: CHS07358

| Sample Description | Matrix | Lab Sample # | Sampled Date/Time | Received |
|---|---|---|---|---|
| MW-2 | Vapor | P0908110-02 | 06 Aug. 09 14:30 | 11 Aug. 09 11:23 |

| Analyte(s) | Flag | Result | PQL | Units | Method # | Analysis Date | By |
|---|---|---|---|---|---|---|---|
| **RiskAnalysis** | | | | | | | |
| N Ethane | | 0.800 | 0.010 | ug/L | AM20GAX | 8/17/09 | mm |
| N Ethene | | 0.013 | 0.010 | ug/L | AM20GAX | 8/17/09 | mm |
| N Hydrogen | | 1400.000 | 60.000 | nM | AM20GAX | 8/17/09 | mm |
| N Methane | | 4700.000 | 0.015 | ug/L | AM20GAX | 8/17/09 | mm |
| **SemiVolatiles** | | | | | | | |
| N Acetic Acid | UM | < 1.0 | 1 | mg/L | AM21G | 8/13/09 | td |
| N Butyric Acid | U | < 1.0 | 1.0 | mg/L | AM21G | 8/13/09 | td |
| N Lactic Acid | UM | < 25.0 | 25 | mg/L | AM21G | 8/13/09 | td |
| N Propionic Acid | U | < 1.0 | 1.0 | mg/L | AM21G | 8/13/09 | td |
| N Pyruvic Acid | UM | < 10.0 | 10 | mg/L | AM21G | 8/13/09 | td |

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Pace Analytical
Contact: Bonnie McKee
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078


Lab Proj #: P0908110
Report Date: 08/18/09
Client Proj Name: CHS07358
Client Proj #: CHS07358

| Sample Description | Matrix | Lab Sample # | Sampled Date/Time | Received |
|---|---|---|---|---|
| MW-8 | Vapor | P0908110-03 | 06 Aug. 09 14:30 | 11 Aug. 09 11:23 |

| Analyte(s) | Flag | Result | PQL | Units | Method # | Analysis Date | By |
|---|---|---|---|---|---|---|---|
| **RiskAnalysis** | | | | | | | |
| N Ethane | J | 0.003 | 0.010 | ug/L | AM20GAX | 8/17/09 | mm |
| N Ethene | J | 0.007 | 0.010 | ug/L | AM20GAX | 8/17/09 | mm |
| N Hydrogen | | 140.000 | 6.000 | nM | AM20GAX | 8/17/09 | mm |
| N Methane | | 3.900 | 0.015 | ug/L | AM20GAX | 8/17/09 | mm |
| **SemiVolatiles** | | | | | | | |
| N Acetic Acid | UM | < 1.0 | 1 | mg/L | AM21G | 8/13/09 | td |
| N Butyric Acid | U | < 1.0 | 1 | mg/L | AM21G | 8/13/09 | td |
| N Lactic Acid | UM | < 25.0 | 25 | mg/L | AM21G | 8/13/09 | td |
| N Propionic Acid | U | < 1.0 | 1 | mg/L | AM21G | 8/13/09 | td |
| N Pyruvic Acid | UM | < 10.0 | 10 | mg/L | AM21G | 8/13/09 | td |

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Pace Analytical
Contact: Bonnie McKee
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078


Lab Proj #: P0908110
Report Date: 08/18/09
Client Proj Name: CHS07358
Client Proj #: CHS07358

**Prep Method:** Analysis of Volatile Fatty Acids in Water
**Analysis Method:** Analysis of Volatile Fatty Acids in Water

**M090817013-MB**

| | Result | | TrueSpikeConc. | RDL | %Recovery | Ctl Limits |
|---|---|---|---|---|---|---|
| Acetic Acid | < 1.0 | mg/L | | 1.0 | | - NA |
| Propionic Acid | < 1.0 | mg/L | | 1.0 | | - NA |
| Butyric Acid | < 1.0 | mg/L | | 1.0 | | - NA |
| Lactic Acid | < 25.0 | mg/L | | 25.0 | | - NA |
| Pyruvic Acid | < 10.0 | mg/L | | 10.0 | | - NA |

**M090817013-LCS**

| | Result | | TrueSpikeConc. | %Recovery | Ctl Limits |
|---|---|---|---|---|---|
| Acetic Acid | 100.0 | mg/L | 100.00 | 100.00 | 70 - 130 |
| Propionic Acid | 98.0 | mg/L | 100.00 | 98.00 | 70 - 130 |
| Butyric Acid | 98.0 | mg/L | 100.00 | 98.00 | 70 - 130 |
| Lactic Acid | 87.0 | mg/L | 100.00 | 87.00 | 70 - 130 |
| Pyruvic Acid | 89.0 | mg/L | 100.00 | 89.00 | 70 - 130 |

**P0908110-01A-MS**

| | Result | | TrueSpikeConc. | %Recovery | Ctl Limits |
|---|---|---|---|---|---|
| Acetic Acid | 100.0 | mg/L | 100.00 | 100.00 | 70 - 130 |
| Propionic Acid | 98.0 | mg/L | 100.00 | 98.00 | 70 - 130 |
| Butyric Acid | 97.0 | mg/L | 100.00 | 97.00 | 70 - 130 |
| Lactic Acid | 89.0 | mg/L | 100.00 | 89.00 | 70 - 130 |
| Pyruvic Acid | 89.0 | mg/L | 100.00 | 89.00 | 70 - 130 |

**P0908117-02A-MS**

| | Result | | TrueSpikeConc. | %Recovery | Ctl Limits |
|---|---|---|---|---|---|
| Propionic Acid | 160.0 | mg/L | 100.00 | 91.00 | 70 - 130 |
| Butyric Acid | 190.0 | mg/L | 100.00 | 90.00 | 70 - 130 |
| Lactic Acid | 30.0 | mg/L | 100.00 | 17.00 | 70 - 130 |
| Pyruvic Acid | 9.6 | mg/L | 100.00 | 0.00 | 70 - 130 |

**P0908110-01A-MSD**

| | Result | | TrueSpikeConc. | %Recovery | Ctl Limits | RPD | RPD Ctl Limits |
|---|---|---|---|---|---|---|---|
| Acetic Acid | 100.0 | mg/L | 100.00 | 100.00 | 70 - 130 | 0.00 | 0 - 20 |

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Pace Analytical
Contact: Bonnie McKee
Address: 9800 Kincey Ave
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Lab Proj #: P0908110
Report Date: 08/18/09
Client Proj Name: CHS07358
Client Proj #: CHS07358

**P0908110-01A-MSD**

| | Result | | TrueSpikeConc. | %Recovery | Ctl Limits | RPD | RPD Ctl Limits |
|---|---|---|---|---|---|---|---|
| Propionic Acid | 100.0 | mg/L | 100.00 | 100.00 | 70 - 130 | 2.02 | 0 - 20 |
| Butyric Acid | 99.0 | mg/L | 100.00 | 99.00 | 70 - 130 | 2.04 | 0 - 20 |
| Lactic Acid | 84.0 | mg/L | 100.00 | 84.00 | 70 - 130 | 5.78 | 0 - 20 |
| Pyruvic Acid | 83.0 | mg/L | 100.00 | 83.00 | 70 - 130 | 6.98 | 0 - 20 |

**P0908117-02A-MSD**

| | Result | | TrueSpikeConc. | %Recovery | Ctl Limits | RPD | RPD Ctl Limits |
|---|---|---|---|---|---|---|---|
| Propionic Acid | 180.0 | mg/L | 100.00 | 111.00 | 70 - 130 | 11.76 | 0 - 20 |
| Butyric Acid | 210.0 | mg/L | 100.00 | 110.00 | 70 - 130 | 10.00 | 0 - 20 |
| Lactic Acid | 25.0 | mg/L | 100.00 | 13.00 | 70 - 130 | 200.00 | 0 - 20 |
| Pyruvic Acid | 3.4 | mg/L | 100.00 | 0.00 | 70 - 130 | 200.00 | 0 - 20 |

Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Pace Analytical
Contact: Bonnie McKee
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078


Lab Proj #: P0908110
Report Date: 08/18/09
Client Proj Name: CHS07358
Client Proj #: CHS07358

**Prep Method:** Light Hydrocarbons (C1-C4) by Bubblestrip

**Analysis Method:** Light Hydrocarbons (C1-C4) by Bubblestrip

**M090817030-MB**

| | Result | | TrueSpikeConc. | RDL | %Recovery | Ctl Limits |
|---|---|---|---|---|---|---|
| Ethane | < 0.010 | ug/L | | 0.010 | | - NA |
| Ethene | < 0.010 | ug/L | | 0.010 | | - NA |
| Methane | < 0.015 | ug/L | | 0.015 | | - NA |

**M090817030-LCS**

| | Result | | TrueSpikeConc. | %Recovery | Ctl Limits |
|---|---|---|---|---|---|
| Ethane | 2.900 | ug/L | 2.71 | 107.00 | 75 - 125 |
| Ethene | 6.900 | ug/L | 6.49 | 106.00 | 75 - 125 |
| Methane | 3.300 | ug/L | 3.08 | 107.00 | 75 - 125 |

**M090817030-LCSD**

| | Result | | TrueSpikeConc. | %Recovery | Ctl Limits | RPD | RPD Ctl Limits |
|---|---|---|---|---|---|---|---|
| Ethane | 2.900 | ug/L | 2.71 | 107.00 | 75 - 125 | 0.00 | 0 - 20 |
| Ethene | 6.900 | ug/L | 6.49 | 106.00 | 75 - 125 | 0.00 | 0 - 20 |
| Methane | 3.300 | ug/L | 3.08 | 107.00 | 75 - 125 | 0.00 | 0 - 20 |

Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

Client Name: Pace Analytical
Contact: Bonnie McKee
Address: 9800 Kincey Ave
Suite 100
Huntersville, NC 28078


Lab Proj #: P0908110
Report Date: 08/18/09
Client Proj Name: CHS07358
Client Proj #: CHS07358

**Prep Method:** Hydrogen by Bubble Strip
**Analysis Method:** Hydrogen by Bubble Strip

**M090817033-MB**

| | Result | | TrueSpikeConc. | RDL | %Recovery | Ctl Limits |
|---|---|---|---|---|---|---|
| Hydrogen | < 0.600 | nM | | 0.600 | | - NA |

**M090817033-LCS**

| | Result | | TrueSpikeConc. | %Recovery | Ctl Limits |
|---|---|---|---|---|---|
| Hydrogen | 9.200 | nM | 9.78 | 94.00 | 75 - 125 |

**M090817033-LCSD**

| | Result | | TrueSpikeConc. | %Recovery | Ctl Limits | RPD | RPD Ctl Limits |
|---|---|---|---|---|---|---|---|
| Hydrogen | 9.000 | nM | 9.78 | 92.00 | 75 - 125 | 2.20 | 0 - 20 |

Outlined Results indicate results outside of Control limits

Data Qualifiers: J - estimated value, U - Non detect, R - Poor surrogate recovery, M - Recovery/RPD poor for MS/MSD, SAMP/DUP, B - detected in blank, S - field sample as received did not meet NELAC sample acceptance criteria, L - Subcontracted Lab used, N - NELAC certified analysis

# Chain of Custody

Po908110

Pace Analytical®
www.pacelabs.com

**Workorder:** 9250227 **Workorder Name:** WAYNE CLOSED MSWLF **Results Requested** 8/19/2009

**Report / Invoice To**

Bonnie McKee
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
Phone (704)875-9092
Email: bonnie.mckee@pacelabs.com

**Subcontract To**

microseeps P.O. CHS07358

| Item | Sample ID | Collect Date/Time | Lab ID | Matrix | Preserved Containers: General | HCL | Unpreserved | | | | Requested Analysis: VFA | Hydrogen | Methane Ethane Ethene | | | | | | | | | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ~~[illegible]~~ | ~~8/4/2009 11:00~~ | ~~[illegible]~~ | ~~Water~~ | | | | | | | | | | | | | | | | | | |
| 2 | ~~[illegible]~~ | ~~8/4/2009 10:00~~ | ~~[illegible]~~ | ~~Water~~ | | | | | | | | | | | | | | | | | | |
| 3 | ~~[illegible]~~ | ~~8/4/2009 11:45~~ | ~~[illegible]~~ | ~~Water~~ | | | | | | | | | | | | | | | | | | |
| 4 | ~~[illegible]~~ | ~~8/4/2009 12:25~~ | ~~[illegible]~~ | ~~Water~~ | | | | | | | | | | | | | | | | | | |
| 5 | ~~[illegible]~~ | ~~8/4/2009 12:45~~ | ~~[illegible]~~ | ~~Water~~ | | | | | | | | | | | | | | | | | | |
| 6 | MW-1 | 8/6/2009 09:00 | 9250227006 | Water | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | |
| 7 | MW-2 | 8/6/2009 14:30 | 9250227007 | Water | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | |
| 8 | MW-8 | 8/6/2009 14:30 | 9250227008 | Water | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | |
| 9 | ~~[illegible]~~ | ~~8/6/2009 [illegible]~~ | ~~[illegible]~~ | ~~Water~~ | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | | |

| Transfers | Released By | Date/Time | Received By | Date/Time |
|---|---|---|---|---|
| 1 | Bonnie McKee Pace Fedex | 8/10/09 1730 | Fedex | 8/10/09 1730 |
| 2 | | | | |
| 3 | | | | 8/11/9 [illegible] |
| 4 | | | | |
| 5 | | | | |

**Comments**

Partial submittal combine w/ other samples to be submitted later

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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

1324950

**Section A** Required Client Information:

Company: Municipal Engineering Service
Address: PO Box 97
Gamer NC 27529
Email To: jpfohl@mesco.com
Phone: (919)772-5393 Fax: (919)772-1176
Requested Due Date/TAT: standard

**Section B** Required Project Information:

Report To: Jonathan Pfohl
Copy To:
Purchase Order No.:
Project Name: Wayne Closed MSWLF
Project Number:

**Section C** Invoice Information:

Attention: See Section A
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie
Pace Profile #: 2103-3

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☑ OTHER

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

Requested Analysis Filtered (Y/N): N

| 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 | COLLECTED COMPOSITE START TIME | COLLECTED COMPOSITE END/GRAB DATE | COLLECTED COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Analysis Test: VOCs - App I | Metals - App I | Hg* | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. 9250227 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-3 | WT | G | | | 8/4/09 | 11:00 | | 4 | | | | 3 | | | | | ✓ | ✓ | ✓ | N | 9250227001 |
| 2 | MW-4 | ↓ | ↓ | | | ↓ | 10:00 | | ↓ | | | ↓ | ↓ | | | | | ↓ | ↓ | ✓ | | 002 |
| 3 | MW-5 | | | | | | 11:45 | | | | | | | | | | | | | ✓ | | 003 |
| 4 | MW-6 | | | | | | 10:35 | | | | | | | | | | | | | ✓ | | 004 |
| 5 | MW-7 | ↓ | ↓ | | | ↓ | 1:45 | | ↓ | | | ↓ | ↓ | | | | | ↓ | ↓ | ✓ | | 005 |
| 6 | | | | | | | | | | | | | | | | | | | | | | |
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| 11 | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME |
|---|---|---|---|---|---|---|
| SW-2 & SW-3 DRY | MESCO | 8/5/09 | 7:30 | | 8/5/09 | 7:30 |
| * Hg added per Jonathan P. 8/10/09 via email BKM | MESCO | | | | 8/5/09 | 11:30 |
| | | 8/5/09 1650 | | Jamelle Cloud Pace | 8/5/09 | 1650 |

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonathan Pfohl

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 8/5/09

ORIGINAL

*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.

Last C-O-C Combine w/ 1324950 in 1 Report

Submitted Previously

Combine w/ 1324950

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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

1324949

**Section A** Required Client Information:

Company: Municipal Engineering Services (MESCO)
Address: PO Box 97
Garner NC 27529
Email To: jpfohl@mesco.com
Phone: (919)772-5393 Fax: (919)772-1176
Requested Due Date/TAT: Standard

**Section B** Required Project Information:

Report To: Jonathan Pfohl
Copy To:
Purchase Order No.:
Project Name: Wayne Closed MSWLF
Project Number:

**Section C** Invoice Information:

Attention: See Section A
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager: Bonnie
Pace Profile #: 2103-3

**REGULATORY AGENCY**

☐ NPDES ☐ GROUND WATER ☑ DRINKING WATER
☐ UST ☐ RCRA ☑ OTHER

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

Requested Analysis Filtered (Y/N)

| 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 | Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | VOCs-App I | Metals-App I | Mercury | Iron | VFA | Hydrogen-Mixtures | Methane/Ethane/Ethene-Mixture | Sulfate | Sulfide | Chloride | TOC | COD | Residual Chlorine (Y/N) | Nitrate | BOD | Alkalinity | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analysis Test ↓ / Y/N ↓ | | | | | | | | | | | | | | | | | ✓ | | | | | | | | | | | | | | | |
| 1 | MW-1 | WT | G | | | 8/6/09 | 9:00 | | | | 2 | 1 | 3 | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | N | ✓ | ✓ | ✓ | 0250227 |
| 2 | MW-2 | ↓ | ↓ | | | ↓ | 2:30 | | | | ↓ | ↓ | ↓ | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | 006 |
| 3 | MW-8 | | | | | | 10:00 | | | | | | | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | 007 |
| 4 | SW-1 | | | | | | | | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | | | | 008 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 009 |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | MESCO | 8/6/09 | 9:48PM | pace clt | 8-7-09 | 9:22 | | | | |
| | pace clt | 8-7-09 | 14:37 | Pace | 8/7/09 | 14:37 | 2.3 | yes | no | yes |
| | | | | | | | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jonathan Pfohl
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 8/6/09

*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.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical

# Sample Condition Upon Receipt

Client Name: Municipal Engineering Service Project # 9250227

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: | N/A |
| Proj. Name: | N/A |

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used T060 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 4.9 Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: 8/5/09

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. |
| 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: | ☑Yes ☐No ☐N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: WT | | |
| 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): N/A | | |

Client Notification/ Resolution:

Field Data Required? Y / N / N/A

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: BMH Date: 08-05-09

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)

Pace Analytical

# Sample Condition Upon Receipt

Client Name: Municipal Eng. Project # 92502227

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: N/A
Proj. Name: N/A

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

Thermometer Used T060 Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2.3 Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Date and initials of person examining contents: CW 8/7

| | | Comments: |
|---|---|---|
| Chain of Custody Present: | ☑Yes ☐No ☐N/A | 1. |
| Chain of Custody Filled Out: | ☑Yes ☐No ☐N/A | 2. |
| 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: | ☑Yes ☐No ☐N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: W7 | | |
| 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): N/A | | |

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: BKM Date: 8/10/09

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)

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www.pacelabs.com

# 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

1181680

**Section A** Required Client Information:

Company: MESCO
Address: 1140 Benson Hwy Ste 200 Garner NC 27529
Email To: spatrick@mesco.com
Phone: 919-772-5393 Fax: 772-1176
Requested Due Date/TAT: Std. TA

**Section B** Required Project Information:

Report To: Sean Patrick
Copy To:
Purchase Order No.:
Project Name: Wayne Co. Closed LF
Project Number: 607058

**Section C** Invoice Information:

Attention: Sean Patrick
Company Name: MESCO
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 2103-6

**REGULATORY AGENCY**

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

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

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

| ITEM # | SAMPLE ID | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED Composite Start DATE | COLLECTED Composite Start TIME | COLLECTED Composite End/GRAB DATE | COLLECTED Composite End/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | App endix I & II | VOCs | App I & II metals | App I & II herbi | App I & II pest/PCB | App I & II SVOCs | App I & II Op-Pest | App I & II Cyanide | Sulfide | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | MW-9 | WT | G | 7/23/09 | 1600 | | | | 14 | 8 | | 1 | 3 | 1 | | | 1 | X | | X | X | X | X | X | X | X | | | 001 |
| 2 | MW-10 | WT | G | 7/24/09 | 0810 | | | | 14 | 8 | | 1 | 3 | 1 | | | 1 | X | | X | X | X | X | X | X | X | | | 002 |
| 3 | MW-11 | WT | G | 7/23/09 | 1300 | | | | 14 | 8 | | 1 | 3 | 1 | | | 1 | X | | X | X | X | X | X | X | X | | | 003 |
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| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME |
|---|---|---|---|---|---|---|
| Call Sean Patrick | [signature] | 7/24/09 | 1100 | [signature] pace clt | 7/24/09 | 11:45 |
| 919-772-5393 | [signature] pace clt | 7/24/09 | 1525 | [signature] PACE | 7/24/09 | 1525 |
| if you've questions | | | | | | |
| regarding order | | | | | | |

| SAMPLE CONDITIONS | Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|
| | 3.7 | Y | N | Y |

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

ORIGINAL

*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

# Sample Condition Upon Receipt

Client Name: Municipal Project # 9249441

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: | N/A |
| Proj. Name: | N/A |

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

Thermometer Used T060 Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 3.7 Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: JB 07/24/09

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. |
| Chain of Custody Relinquished: | ☑Yes ☐No ☐N/A | 3. |
| Sampler Name & Signature on COC: JB 07/24/09 | ☑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: | ☑Yes ☐No ☐N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: WT | | |
| 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): N/A | | |

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: BKM Date: 7/27/09

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)

# Sampling Data Sheet

Municipal Services Engineering Company
Garner, NC Boone, NC

Project: Wayne Co Closed MSWLF & Active C&D LF, Dudley

Samplers: J. Pfohl Page 1 of 1

| Monitoring Point | Sample Date | Sample Time | Sampling Parameters: Depth to Water (BTOP) Static | Lab Parameters to be analyzed for | Volume Purged (Gal) | Sample Type | Goes Dry During Purge | Notes | Total Depth | Water Quality Parameters: CO2 (mg/l) | DO (mg/L) | ORP | pH | Temp. © | Specific Cond. (us/cm | TDS (mg/L) | Turbidity | CH4 Gas Vapors (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 8/6/09 | 9:00 | 16.65 | MNA | 8 | P&DB | N | hinge replaced | 25 | 20 | 6.9 | 270 | 5.13 | 21.7 | 30 | 10 | 11.9c | NR |
| MW-2 | 8/6/09 | 2:30 | 5.44 | MNA | 9 | P&DB | Y | smooth | 15 | >100 | 0.9 | 193 | 6.45 | 24.1 | 1290 | 250 | 13.8c | |
| MW-3 | 8/4/09 | 11:00 | 0.73 | DM | 13 | P&DB | N | | 18 | NR | 0.1 | 130 | 6.23 | 20.4 | 40 | 20 | 7.47c | |
| MW-4 | 8/4/09 | 10:00 | 7.25 | DM | 10 | P&DB | N | | 15 | | 0.5 | 130 | 6.63 | 20.2 | 110 | 50 | 8.10c | |
| MW-5 | 8/4/09 | 11:45 | 3.89 | DM | 11 | P&DB | Y | | 18 | | 1.7 | 98 | 6.51 | 19.1 | 90 | 40 | 32.1c | |
| MW-6 | 8/4/09 | 10:35 | 6.57 | DM | 12 | P&DB | N | | 18.14 | | 1.6 | 97 | 6.52 | 20.4 | 200 | 90 | 4.38c | |
| MW-7 | 8/4/09 | 1:45 | 8.22 | DM | 9 | P&DB | N | | 19 | NR | 2.6 | 131 | 6.28 | 18.3 | 20 | 0 | 5.73c | |
| MW-8 | 8/6/09 | 10:00 | 19.95 | MNA | 9 | P&DB | N | PVC 1.33' below top of | 29 | >100 | 0.9 | 242 | 4.65 | 20.2 | 90 | 40 | 76.3c | |
| SW-1 | 8/6/09 | | - | DM | - | Dip | - | | - | 10 | 7.1 | 363 | 6.89 | 16.8 | 30 | 10 | 8.16c | - |
| SW-2 | NS | NS | DRY | DM | - | — | - | DRY | - | — | — | — | — | — | — | — | — | - |
| SW-3 | NS | NS | DRY | DM | - | — | - | DRY | - | — | — | — | — | — | — | — | — | - |
| MW-9 | NS | NS | 20.36 | WLR Only | - | - | - | - | 28.37 BTOP | - | - | - | - | - | - | - | - | - |
| MW-10 | NS | NS | 19.81 | WLR Only | - | - | - | - | 27.96 BTOP | - | - | - | - | - | - | - | - | - |
| MW-11 | NS | NS | 3.40 | WLR Only | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Sampled separately previously Joint

Comments

SS B=Stainless Steel Baler, D B=Disposable Baler, P=Low flow Pump, PD=Purged Dry

VT=Very Turbid, MT=Moderately Turbid, ST=Slightly Turbid, C=Clear

NR=No Reading Attempted, NS=No Sample Obtained