Semi-Annual Water Quality Monitoring Report

Prepared for

Iredell County Closed Unlined MSWLF
Statesville, North Carolina

July 2011

Permit Number: 49-01
MESCO Project Number: G11014.0

Submitted: November 4, 2011

P.O. BOX 97
Garner, NC 27529
License No. C-0281

Municipal Services Garner, NC
Engineering Company, P.A. Boone, NC
Municipal Engineering Services Company, P.A.
Garner and Boone, North Carolina

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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Municipal Engineering Services Co., PA

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

Name: Jonathan Pfohl Phone: (919)772-5393

E-mail: jpfohl@mesco.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Iredell County Closed Unlined MSWLF	354 Twin Oaks Road Statesville, NC 28625	49-01	.0500	July 26, 2011

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Madeline German, PG — Geologist — (919) 772-5393

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

Signature — 11/4/2011 Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 2275 11/4/2011 GEOLOGIST MADELINE GERMAN

P.O. BOX 97, Garner, NC 27529

Facility Representative Address

C-0281

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

Revised 6/2009

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OPERATION/CONSTRUCTION MANAGERS

CIVIL/SANITARY ENGINEERS

Municipal Services

Engineering Company, P.A.

November 3, 2011

Mr. Ervin Lane
Solid Waste Section
Division of Waste Management
North Carolina Department of Environment and Natural Resources (NCDENR)
401 Oberlin Road, Suite 150
Raleigh, NC 27605

Re: Semi-Annual Water Quality Monitoring Report
Iredell County Closed Unlined MSWLF
Permit No. 49-01
MESC0 Project No. G11014.0

Dear Mr. Lane:

Introduction

The Iredell County Closed Unlined Municipal Solid Waste Landfill (MSWLF) that operated under permit #49-01 is located on Twin Oaks Road in Statesville NC. A site location topographic map is depicted as **Plate 1**. The closed facility is required to submit semi-annual compliance reports as a condition of the water quality monitoring program. Municipal Engineering Services Company, P.A. (MESCO) of Garner NC performed this sampling event on July 26, 2011 in accordance with the semi-annual monitoring schedule prescribed by the NC Solid Waste Section (SWS) rules/regulations.

As specified in rule 15A NCAC 13B.0601 and the SWS Environmental Monitoring Report Form, this report contains sampling procedures, field and laboratory results, groundwater and surface water characterization, and findings. A detections table, field data results, field observations table, field parameter data results, a potentiometric map, quality assurance/quality control data, and laboratory analytical data results with chain-of-custody (C-O-C) are included.

Sampling Procedure

MESCO personnel performed this sampling event utilizing portable monitoring methodology. MESCO personnel collected water samples from monitoring locations indicated in the site-specific Sampling and Analysis Plan (SAP) contained in the *Transition Plan*. Additional, water samples were collected from MW-3R, MW-6R, MW-7S, and MW-7D which have been installed since initiation of the SAP. Water quality monitoring locations consist of six downgradient groundwater monitoring wells (MW-2, MW-3, MW-3R, MW-4, MW-6, MW-6R), three hydraulically upgradient wells (MW-1, MW-7S, MW-7D), and two surface water locations (SW-1, SW-2). Quality control measures implemented during this event included submittal and subsequent quantification of an equipment rinsate blank (EB). The water supply wells, which previously served the ANIMAL SHELTER and MENTAL HEALTH CENTER, were inspected during this event and remain disconnected; therefore, neither supply well was sampled. Monitoring locations are shown on the enclosed aerial photograph (**Plate 2**).

Sampling was conducted utilizing methodology outlined in the NCDENR SWS guidance document S*olid Waste Section Guidelines for Groundwater, Soil, and Surface Water Sampling* revised April 2008. Monitoring location function and integrity were visually evaluated and inspection documentation is provided in **Table 3**. The depth to water in each well was electronically gaged prior to purging to quantify the static water level elevation. Low-flow pumping methodology or bailing was utilized to adequately purge the wells to a minimum of three times the volume of standing water in the well or until dry. During purging, stabilized field parameters pH, specific conductance, temperature, dissolved oxygen (DO), oxidation-reduction potential (ORP), total dissolved solids (TDS) and turbidity were recorded. The samples were placed into laboratory-prepared, pre-preserved containers via a new disposable polyethylene bailer. Samples were collected/separated based on likelihood of potential cross-contamination, kept on ice, and transported to a NC-certified laboratory under proper C-O-C protocol within the specified hold times for each analysis.

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

Field Parameter Data

A field parameter data summary is presented in **Table 4** and the field sampling data sheet is enclosed in **Appendix B**.

Laboratory Results

SGS North America Inc. (SGS) (NC Cert. 491) of Wilmington, NC performed the laboratory analysis of water samples for the Appendix I list of volatile organic compounds (VOCs) via EPA Test Method 8260B and total unfiltered metals via EPA Series Test Methods 6000/7000. A sampling and analysis summary is presented as **Table 1**.

Water samples were reported to the laboratory specific Method Detection Limits (MDL). **Table 1** summarizes constituents detected in the water samples in concentrations above the current SWSL, Groundwater Protection Standards (GWP), North Carolina Groundwater Standards (2L) or the North Carolina Surface Water Standards (2B) for the applicable Class C water bodies. Laboratory results and C-O-Cs are presented in **Appendix A**.

Quality Control Samples

The quality control sample EB contained non-quantifiable concentrations of total silver and vanadium above the 2B and GWP Standards respectively. The inconsistent low level detections of these metals in water samples may be a product of false positives or high bias attributed to field and/or laboratory induced artifact contamination.

Groundwater Samples

Total metals were detected in levels above the 2L Standard in samples collected from MW-3 (cadmium), MW-6 (barium, chromium) and MW-6R (cadmium).

VOCs were reported in quantifiable concentrations above their respective 2L Standard in samples collected from downgradient wells MW-3 (1,1,-DCA, PCE, TCE), MW-6 (1,2-DCP, 1,2-DCA, VCM, benzene), and MW-6R (PCE, TCE). VOCs were also detected at quantifiable levels in exceedance of their respective 2L Standard in hydraulically upgradient wells MW-1 (PCE, TCE, DCM, 1,1-DCA, VCM, benzene) and MW-7S (PCE).

Surfacewater Samples

Silver was detected in low, non-quantifiable concentrations exceeding the 2B Standard in samples SW-1 and SW-2, collected upstream and downstream of the facility.

Groundwater and Surface Water Characterization

Groundwater in the uppermost aquifer flows from a hydrological high at MW-7S, upgradient of the MSWLF, in a general northeast direction towards the Fourth Creek discharge feature. Fourth Creek was visually observed to have moderate flow, moderate gage height, and slight turbidity.

Findings

The uppermost aquifer monitored by down/cross gradient monitoring wells MW-3, MW-6, MW-6R, and upgradient wells MW-1 and MW-7S contained low level VOCs with some concentrations reported above their respective 2L Standards.

Silver as detected in downstream surface water sample SW-2 is likely not attributed to leachate as evidenced by detections upstream (SW-1) and the quality control EB.

Constituents reported during this event have previously been detected at their respective location.

Closing

The Iredell County Closed MSWLF will continue semi-annual water quality monitoring and sampling is tentatively scheduled to be performed again in January 2012. If you have any questions or comments regarding this report, please contact us at (919) 772-5393 or by email at jpfohl@mesco.com or mgerman@mesco.com.

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

Jonathan Pfohl
Environmental Specialist

Madeline German, P.G.
Professional Geologist

NORTH CAROLINA LICENSED SEAL 2275 GEOLOGIST MADELINE GERMAN

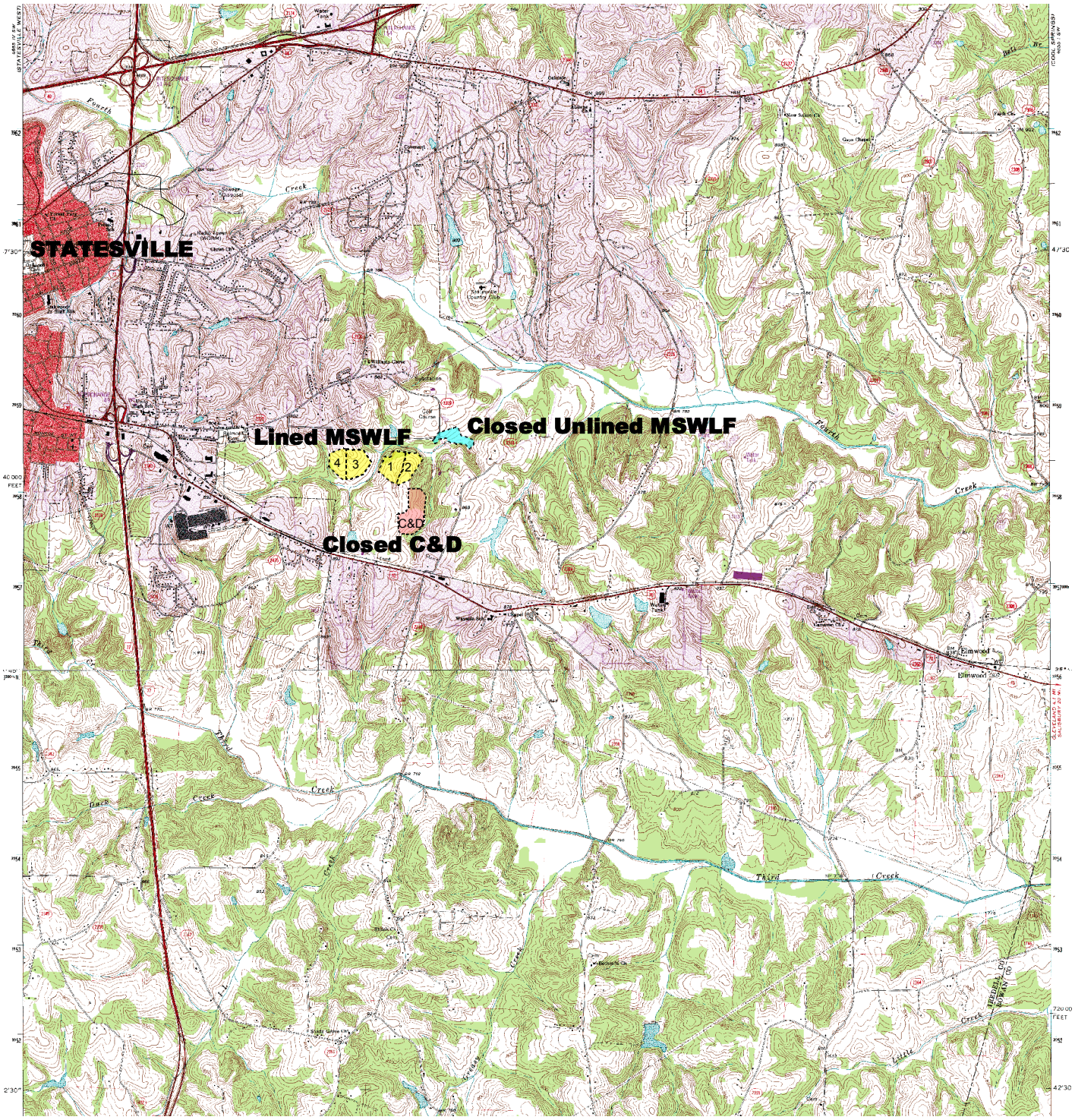
Enclosures
cc: Mr. David Lambert
Iredell County

Figures

Topographic Map with Site Location

Iredell County Landfill

N



354 Twin Oaks Rd
Statesville, NC 28625
Lat:35-46-17.8012
Long:-80-49-22.2973
Northing:740719.35
Easting:1459306.76

STATESVILLE EAST QUADRANGLE

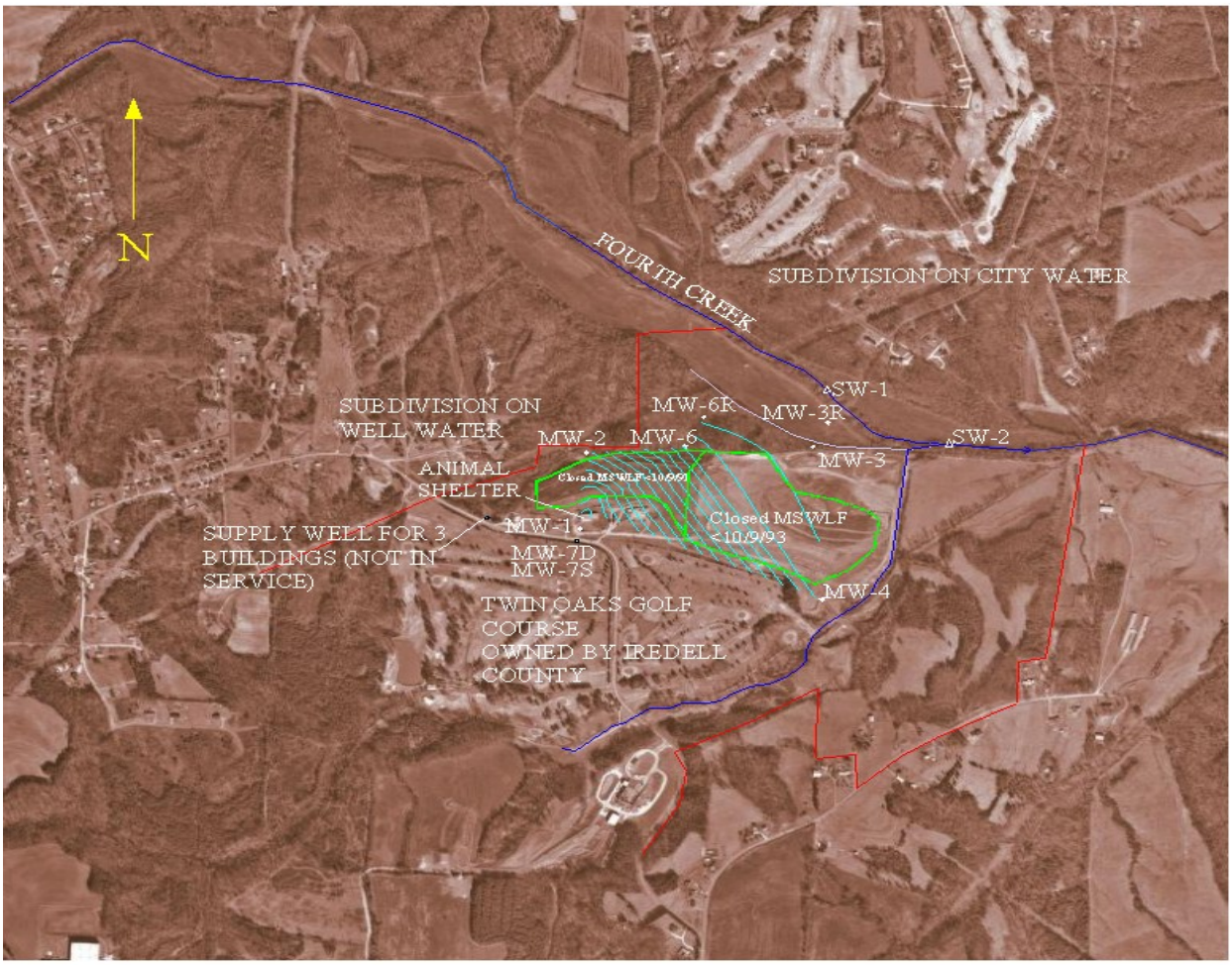
ROAD CLASSIFICATION

Primary highway, hard surface
Light-duty road, hard or improved surface
Secondary highway, hard surface
Unimproved road
Interstate Route
U. S. Route
State Route

2.5 0 2.5 MILES

PLATE 1

Plate 2. Superimposed Aerial Photograph of Facility



Property Line
Potentiometric Contours
Ephemeral Ditch
Perennial Stream
Waste Limit

Tables

Table 1
Sampling and Analysis Summary
July 26, 2011

		App. I		Field Parameter						
	Reason Not Sampled	VOCs	Total Metals	Dissolved Oxygen (DO)	Oxidation Reduction Potential (ORP)	Temperature	Conductivity	Total Dissolved Solids (TDS)	pH	Turbidity
		Lab EPA 8260B	Lab EPA 6000/7000	Field Meter	Field Meter	Field Meter	Field Meter	Field Meter	Field Meter	Field Visual
MW-1		x	x	x	x	x	x	x	x	x
MW-2		x	x	x	x	x	x	x	x	x
MW-3		x	x	x	x	x	x	x	x	x
MW-3R		x	x	x	x	x	x	x	x	x
MW-4		x	x	x	x	x	x	x	x	x
MW-6		x	x	x	x	x	x	x	x	x
MW-6R		x	x	x	x	x	x	x	x	x
MW-7S		x	x	x	x	x	x	x	x	x
MW-7D		x	x	x	x	x	x	x	x	x
SW-1		x	x	x	x	x	x	x	x	x
SW-2		x	x	x	x	x	x	x	x	x
EB		x	x							

Appendix I List taken from current 40 CFR 258

Table 2
Detections that Attain or are Above SWSL, GWP, 2L or 2B
July 26, 2011

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause [7]
MW-1	**Methylene chloride**	**07/26/2011**	**13.6**	**ug/L**	**0.152**	**1**	**4.6**			**9**	**L &/or LFG**
MW-1	**Tetrachloroethene**	**07/26/2011**	**10.1**	**ug/L**	**0.155**	**1**	**0.7**			**9.4**	**L &/or LFG**
MW-1	**Trichloroethene**	**07/26/2011**	**11.4**	**ug/L**	**0.125**	**1**	**3**			**8.4**	**L &/or LFG**
MW-1	**Vinyl chloride**	**07/26/2011**	**0.64 j**	**ug/L**	**0.124**	**1**	**0.03**			**0.61**	**L &/or LFG**
MW-1	**1,1-Dichloroethane**	**07/26/2011**	**20.8**	**ug/L**	**0.165**	**5**	**6**			**14.8**	**L &/or LFG**
MW-1	**Benzene**	**07/26/2011**	**2.64**	**ug/L**	**0.113**	**1**	**1**			**1.64**	**L &/or LFG**
MW-1	Xylene (total)	07/26/2011	5.8	ug/L	0.182	5	530				
MW-1	Zinc	07/26/2011	23.2	ug/L	2.26	10	1050				
MW-1	cis-1,2-Dichloroethene	07/26/2011	17.9	ug/L	0.136	5	70				
MW-1	1,4-Dichlorobenzene	07/26/2011	2.2	ug/L	0.13	1	6				
MW-1	Vanadium	07/26/2011	17.1 j	ug/L	0.661	25			3.5	13.6	
MW-2	Barium	07/26/2011	593	ug/L	0.394	100	700				
MW-2	Thallium	07/26/2011	0.4 j	ug/L	0.297	5.5			0.28	0.12	
MW-2	Vanadium	07/26/2011	11.8 j	ug/L	0.661	25			3.5	8.3	
MW-3	**Tetrachloroethene**	**07/26/2011**	**5.64**	**ug/L**	**0.155**	**1**	**0.7**			**4.94**	**L &/or LFG**
MW-3	**Trichloroethene**	**07/26/2011**	**7.2**	**ug/L**	**0.125**	**1**	**3**			**4.2**	**L &/or LFG**
MW-3	**Vinyl chloride**	**07/26/2011**	**0.5 j**	**ug/L**	**0.124**	**1**	**0.03**			**0.47**	**L &/or LFG**
MW-3	**1,1-Dichloroethane**	**07/26/2011**	**37.8**	**ug/L**	**0.165**	**5**	**6**			**31.8**	**L &/or LFG**
MW-3	**Cadmium**	**07/26/2011**	**5.5**	**ug/L**	**0.278**	**1**	**1.75**			**3.75**	**N**
MW-3	Vanadium	07/26/2011	12.6 j	ug/L	0.661	25			3.5	9.1	
MW-3	cis-1,2-Dichloroethene	07/26/2011	13.3	ug/L	0.136	5	70				
MW-3R	Vanadium	07/26/2011	17.4 j	ug/L	0.661	25			3.5	13.9	
MW-4	Vanadium	07/26/2011	11.1 j	ug/L	0.661	25			3.5	7.6	
MW-6	**Vinyl chloride**	**07/26/2011**	**4.49**	**ug/L**	**0.124**	**1**	**0.03**			**4.46**	**L &/or LFG**
MW-6	**Benzene**	**07/26/2011**	**6.18**	**ug/L**	**0.113**	**1**	**1**			**5.18**	**L &/or LFG**
MW-6	**1,2-Dichloropropane**	**07/26/2011**	**2.48**	**ug/L**	**0.163**	**1**	**0.38**			**2.1**	**L &/or LFG**
MW-6	**1,2-Dichloroethane**	**07/26/2011**	**4.16**	**ug/L**	**0.167**	**1**	**0.38**			**3.78**	**L &/or LFG**
MW-6	**Chromium**	**07/26/2011**	**19.1**	**ug/L**	**1.47**	**10**	**10**			**9.1**	**N**
MW-6	**Barium**	**07/26/2011**	**701**	**ug/L**	**0.394**	**100**	**700**			**1**	**N**
MW-6	1,1-Dichloroethane	07/26/2011	5.86	ug/L	0.165	5	6				
MW-6	Silver	07/26/2011	12.6	ug/L	1.05	10	17.5				
MW-6	Selenium	07/26/2011	18.6	ug/L	0.824	10	50				
MW-6	Vanadium	07/26/2011	9 j	ug/L	0.661	25			3.5	5.5	
MW-6	Trichloroethene	07/26/2011	1.63	ug/L	0.125	1	3				
MW-6	cis-1,2-Dichloroethene	07/26/2011	43.5	ug/L	0.136	5	70				
MW-6	1,4-Dichlorobenzene	07/26/2011	2.02	ug/L	0.13	1	6				
MW-6	Methylene chloride	07/26/2011	1.08	ug/L	0.152	1	4.6				
MW-6	Cobalt	07/26/2011	44	ug/L	3.39	10			70		

Sample ID	Parameter Name [1]	Sample Date	Result	Unit	MDL [2]	SWSL [3]	2L [4]	2B [5]	GWP [6]	Exceedance	Preliminary Cause [7]
MW-6R	**Cadmium**	**07/26/2011**	**8.3**	**ug/L**	**0.278**	**1**	**1.75**			**6.55**	**N**
MW-6R	**Tetrachloroethene**	**07/26/2011**	**1.95**	**ug/L**	**0.155**	**1**	**0.7**			**1.25**	**L &/or LFG**
MW-6R	**Trichloroethene**	**07/26/2011**	**3.2**	**ug/L**	**0.125**	**1**	**3**			**0.2**	**L &/or LFG**
MW-6R	Vanadium	07/26/2011	10.8 j	ug/L	0.661	25			3.5	7.3	
MW-6R	Zinc	07/26/2011	14.2	ug/L	2.26	10	1050				
MW-7D	Vanadium	07/26/2011	33.4	ug/L	0.661	25			3.5	29.9	
MW-7D	Zinc	07/26/2011	14.4	ug/L	2.26	10	1050				
MW-7S	**Vinyl chloride**	**07/26/2011**	**0.26 j**	**ug/L**	**0.124**	**1**	**0.03**			**0.23**	**L &/or LFG**
MW-7S	**Tetrachloroethene**	**07/26/2011**	**4.39**	**ug/L**	**0.155**	**1**	**0.7**			**3.69**	**L &/or LFG**
MW-7S	Vanadium	07/26/2011	16.5 j	ug/L	0.661	25			3.5	13	
MW-7S	Trichloroethene	07/26/2011	1.14	ug/L	0.125	1	3				
SW-1	**Silver**	**07/26/2011**	**4.2 j**	**ug/L**	**1.05**	**10**		**0.06**		**4.14**	**B &/or A**
SW-2	**Silver**	**07/26/2011**	**5.05 j**	**ug/L**	**1.05**	**10**		**0.06**		**4.99**	**A**
EB	**Silver**	**07/26/2011**	**4.3 j**	**ug/L**	**1.05**	**10**		**0.06**		**4.24**	**A**
EB	Vanadium	07/26/2011	17.5 j	ug/L	0.661	25			3.5	14	

[1] Table contains constituents detected at or above SWSL, GWP, 2L, or 2B

[2] MDL = Method Detection Limit

[3] SWSL = Solid Waste Section Reporting Limit

[4] 2L = North Carolina 15A NCAC 2L Groundwater Quality Standard

[5] 2B = North Carolina 15 NCAC 2B Surface Water Quality Standard for this Specific Stream Classification

[6] GWP = Groundwater Protection Standard

[7] Preliminary Cause = Refers to a preliminary analysis of the cause and/or source of a detection over the respective 2L/2B Standard.
A definitive source of the detection was not determined as part of this report.

j =The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable

N = Natural from erosion of natural deposits

A = Artifact laboratory or field induced as detected in blank(s)

B = Background

L = Leachate

LFG = Landfill Gas

BOLD = Concentration > 2L, or 2B Standard

Table 3
Field Observations of Monitoring Locations
July 26, 2011

Sample Location	Viable Monitoring Location	Lack of Any Evidence of Tampering	Locked	Hinge/Hasp Operational	Tagged or Labeled	Concrete Surface Pad Effective	Degree of Visual Turbidity of Collected Sample	Comments
MW-1	Yes	No	No	Yes	Yes	Yes	Clear	Lock Replaced
MW-2	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-3	Yes	Yes	Yes	Yes	Yes	Yes	Slight	
MW-3R	Yes	Yes	Yes	Yes	Yes	Yes	Slight	
MW-4	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-6	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-6R	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
MW-7S	Yes	Yes	Yes	Yes	Yes	Yes	Slight	
MW-7D	Yes	Yes	Yes	Yes	Yes	Yes	Clear	
SW-1	Yes	Yes	Yes	Yes	Yes	Yes	Slight	Moderate Volume & Flow
SW-2	Yes	Yes	Yes	Yes	Yes	Yes	Slight	Moderate Volume & Flow
Mental Health Center	No	Yes	na	na	na	na	na	Not in Use
Animal Shelter	No	Yes	na	na	na	na	na	Not in Use Wiring Disconnected

Any unusual field conditions, observations, or events:

Animal Shelter permanently closed on July 6, 2011. MW-1, located inside animal shelters fence, lock was missing so replaced.

Table 4
Field Parameter Data Summary
July 26, 2011

Sample ID	Water Depth	Water Elevation	TOC Elevation	Temp.	ORP	DO	pH	Specific Conductance	TDS	Turbidity
Units	**Ft (btoc)**	**ft (amsl)**	**ft (amsl)**	**C**	**mV**	**mg/L**	**SU**	**umhos/cm**	**mg/L**	**Visual**
MW-1	44.78	799.05	843.83	18.6	157	0.5	5.01	53	26	Clear
MW-2	18.25	779.19	797.44	14.7	109	1.8	6.71	402	201	Clear
MW-3	9.51	746.58	756.09	15.1	59	0.3	6.51	222	111	Slight
MW-3R	6.24	746.45	752.69	15.9	-13	1.3	6.21	38	18	Slight
MW-4	11.40	753.47	764.87	15.1	77	1.6	6.34	440	219	Clear
MW-6	26.09	756.4	782.49	17.8	-20	0.7	6.15	981	485	Clear
MW-6R	3.31	749.82	753.13	15.0	84	0.9	6.19	128	59	Clear
MW-7S	43.59	803.18	846.77	17.9	254	0.3	5.29	30	14	Slight
MW-7D	43.85	802.75	846.6	18.3	123	4.6	6.86	72	36	Clear
Minimum	3.31	746.45	752.69	14.7	-20	0.3	5.01	30	14	Clear
Average	23.00	770.77	793.77	16.5	92	1.3	6.14	263	130	Clear
Maximum	44.78	803.18	846.77	18.6	254	4.6	6.86	981	485	Slight
SW-1	-	-	-	22.6	203	6.8	6.93	81	39	Slight
SW-2	-	-	-	22.8	281	6.9	7.01	69	31	Slight
Minimum	-	-	-	22.6	203	6.8	6.93	69	31	Slight
Average	-	-	-	22.7	242	6.9	6.97	75	35	Slight
Maximum	-	-	-	22.8	281	6.9	7.01	81	39	Slight

Appendix A
Laboratory Analysis Reports
Chains of Custody

Laboratory Report of Analysis

To: Jonathan Pfohl
Municipal Engineering Services Company, P.A.
1140 Benson Highway
Garner, NC 27529

Report Number: **31101974**

Client Project: **Iredell Closed**

Dear Jonathan Pfohl,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Michael D. Page at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Digitally signed by Michael Page
DN: CN = Michael Page, C = US, OU = SGS Environmental
Date: 2011.08.15 14:46:43 -04'00'

Michael D. Page
Project Manager
michael.page@sgs.com

Date

Print Date: 08/11/2011

N.C. Certification # 481

Laboratory Qualifiers

Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < LOD)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Amount detected is between the Method Detection Limit and the Lower Calibration Limit
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range
M1	Mis-identified peak
M2	Software did not integrate peak
M3	Incorrect baseline construction (i.e. not all of peak included; two peaks integrated as one)
M4	Pattern integration required (i.e. DRO, GRO, PCB, Toxaphene and Technical Chlordane)
M5	Other - Explained in case narrative

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
MW-1	31101974001	07/26/2011 15:35	07/27/2011 16:20	Water
MW-2	31101974002	07/26/2011 12:00	07/27/2011 16:20	Water
MW-3	31101974003	07/26/2011 15:00	07/27/2011 16:20	Water
MW-3R	31101974004	07/26/2011 08:50	07/27/2011 16:20	Water
MW-4	31101974005	07/26/2011 10:10	07/27/2011 16:20	Water
MW-6	31101974006	07/26/2011 11:35	07/27/2011 16:20	Water
MW-6R	31101974007	07/26/2011 11:00	07/27/2011 16:20	Water
MW-7S	31101974008	07/26/2011 14:25	07/27/2011 16:20	Water
MW-7D	31101974009	07/26/2011 13:40	07/27/2011 16:20	Water
SW-1	31101974010	07/26/2011 09:10	07/27/2011 16:20	Water
SW-2	31101974011	07/26/2011 09:25	07/27/2011 16:20	Water
EB	31101974012	07/26/2011 15:12	07/27/2011 16:20	Water

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Case Narrative

 # - SW-846 6020A - The Reporting limit (MRL) for Be and Cd has been adjusted to 5.00 ug/L due to a required dilution. These compounds have been reported down to DL with J flags for reported results that are below the MRL of 5.00 ug/L but above the DL. The DL limits meet the SWSL criteria.

LOQ/CL - The LOQ/CL values reported are equivalent to the SWSL limits provided by NCDENR.

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Results of **MW-1**

Client Sample ID: **MW-1**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974001-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 15:35
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Acetone	ND	U	0.864	100	ug/L	1	08/1/2011 14:52
Acrylonitrile	ND	U	3.04	200	ug/L	1	08/1/2011 14:52
Benzene	**2.64**		0.113	1.00	ug/L	1	08/1/2011 14:52
Bromochloromethane	ND	U	0.211	3.00	ug/L	1	08/1/2011 14:52
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1	08/1/2011 14:52
Bromoform	ND	U	0.0974	3.00	ug/L	1	08/1/2011 14:52
Bromomethane	ND	U	0.237	10.0	ug/L	1	08/1/2011 14:52
2-Butanone	ND	U	0.723	100	ug/L	1	08/1/2011 14:52
Carbon disulfide	**1.58**	J	0.106	100	ug/L	1	08/1/2011 14:52
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1	08/1/2011 14:52
Chlorobenzene	**0.140**	J	0.116	3.00	ug/L	1	08/1/2011 14:52
Chloroethane	ND	U	0.311	10.0	ug/L	1	08/1/2011 14:52
Chloroform	**0.140**	J	0.139	5.00	ug/L	1	08/1/2011 14:52
Chloromethane	ND	U	0.448	1.00	ug/L	1	08/1/2011 14:52
Dibromochloromethane	ND	U	0.134	3.00	ug/L	1	08/1/2011 14:52
1,2-Dibromo-3-chloropropane	ND	U	0.748	13.0	ug/L	1	08/1/2011 14:52
Dibromomethane	ND	U	0.168	10.0	ug/L	1	08/1/2011 14:52
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1	08/1/2011 14:52
1,2-Dichlorobenzene	ND	U	0.137	5.00	ug/L	1	08/1/2011 14:52
1,4-Dichlorobenzene	**2.20**		0.130	1.00	ug/L	1	08/1/2011 14:52
trans-1,4-Dichloro-2-butene	ND	U	0.414	100	ug/L	1	08/1/2011 14:52
1,1-Dichloroethane	**20.8**		0.165	5.00	ug/L	1	08/1/2011 14:52
1,1-Dichloroethene	ND	U	0.212	5.00	ug/L	1	08/1/2011 14:52
1,2-Dichloroethane	ND	U	0.167	1.00	ug/L	1	08/1/2011 14:52
cis-1,2-Dichloroethene	**17.9**		0.136	5.00	ug/L	1	08/1/2011 14:52
trans-1,2-Dichloroethene	ND	U	0.223	5.00	ug/L	1	08/1/2011 14:52
1,2-Dichloropropane	ND	U	0.163	1.00	ug/L	1	08/1/2011 14:52
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1	08/1/2011 14:52
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1	08/1/2011 14:52
Ethyl Benzene	ND	U	0.0877	1.00	ug/L	1	08/1/2011 14:52
2-Hexanone	ND	U	0.728	50.0	ug/L	1	08/1/2011 14:52
Methyl iodide	ND	U	0.115	10.0	ug/L	1	08/1/2011 14:52
Methylene chloride	**13.6**		0.152	1.00	ug/L	1	08/1/2011 14:52
4-Methyl-2-pentanone	ND	U	0.558	100	ug/L	1	08/1/2011 14:52
Styrene	ND	U	0.102	1.00	ug/L	1	08/1/2011 14:52
1,1,1,2-Tetrachloroethane	ND	U	0.104	5.00	ug/L	1	08/1/2011 14:52
1,1,2,2-Tetrachloroethane	ND	U	0.156	3.00	ug/L	1	08/1/2011 14:52
Tetrachloroethene	**10.1**		0.155	1.00	ug/L	1	08/1/2011 14:52
Toluene	ND	U	0.133	1.00	ug/L	1	08/1/2011 14:52
Trichloroethene	**11.4**		0.125	1.00	ug/L	1	08/1/2011 14:52
1,1,1-Trichloroethane	ND	U	0.123	1.00	ug/L	1	08/1/2011 14:52
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1	08/1/2011 14:52
Trichlorofluoromethane	ND	U	0.137	1.00	ug/L	1	08/1/2011 14:52

Print Date: 08/11/2011

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Results of **MW-1**

Client Sample ID: **MW-1**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974001-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 15:35
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1	08/1/2011 14:52
Vinyl acetate	ND	U	0.882	50.0	ug/L	1	08/1/2011 14:52
Vinyl chloride	**0.640**	J	0.124	1.00	ug/L	1	08/1/2011 14:52
Xylene (total)	**5.80**		0.182	5.00	ug/L	1	08/1/2011 14:52
Surrogates							
1,2-Dichloroethane-d4	101			64.0-140	%	1	08/1/2011 14:52
Toluene d8	99.0			82.0-117	%	1	08/1/2011 14:52
4-Bromofluorobenzene	99.0			85.0-115	%	1	08/1/2011 14:52

Batch Information

Analytical Batch: **VMS1427**
Analytical Method: **SW-846 8260B**
Instrument: **MSD4**
Analyst: **BWS**
Analytical Date/Time: **08/01/2011 14:52**

Prep Batch: **VXX1861**
Prep Method: **SW-846 5030B**
Prep Date/Time: **08/01/2011 10:14**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

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Results of **MW-1**

Client Sample ID: **MW-1**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974001-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 15:35
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6010C**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Arsenic	ND	U	3.69	10.0	ug/L	1	07/28/2011 15:42
Barium	**71.4**	J	0.394	100	ug/L	1	07/28/2011 15:42
Chromium	ND	U	1.47	10.0	ug/L	1	07/28/2011 15:42
Cobalt	**4.68**	J	3.39	10.0	ug/L	1	07/28/2011 15:42
Copper	**1.81**	J	0.672	10.0	ug/L	1	07/28/2011 15:42
Lead	ND	U	5.41	10.0	ug/L	1	07/28/2011 15:42
Nickel	**4.24**	J	3.06	50.0	ug/L	1	07/28/2011 15:42
Silver	**4.69**	J	1.05	10.0	ug/L	1	07/29/2011 10:24
Zinc	**23.2**		2.26	10.0	ug/L	1	07/28/2011 15:42

Batch Information

Analytical Batch: **MIP1178**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/28/2011 15:42**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MIP1179**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/29/2011 10:24**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Print Date: 08/11/2011

N.C. Certification # 481

Results of **MW-1**

Client Sample ID: **MW-1**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974001-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 15:35
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6020A**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Antimony	**0.700**	J	0.437	6.00	ug/L	10	08/10/2011 14:04
Beryllium	**0.900**	J	0.594	1.00#	ug/L	10	08/5/2011 13:09
Cadmium	ND	U	0.278	1.00#	ug/L	10	08/5/2011 13:09
Selenium	ND	U	0.824	10.0	ug/L	10	08/10/2011 15:55
Thallium	ND	U	0.297	5.50	ug/L	10	08/5/2011 13:09
Vanadium	**17.1**	J	0.661	25.0	ug/L	10	08/5/2011 13:09

Batch Information

Analytical Batch: **MMS1068**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/05/2011 13:09**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1070**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/10/2011 14:04**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1071**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/10/2011 15:55**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

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Results of **MW-2**

Client Sample ID: **MW-2**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974002-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 12:00
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Acetone	**2.71**	J	0.864	100	ug/L	1	08/1/2011 15:17
Acrylonitrile	ND	U	3.04	200	ug/L	1	08/1/2011 15:17
Benzene	ND	U	0.113	1.00	ug/L	1	08/1/2011 15:17
Bromochloromethane	ND	U	0.211	3.00	ug/L	1	08/1/2011 15:17
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1	08/1/2011 15:17
Bromoform	ND	U	0.0974	3.00	ug/L	1	08/1/2011 15:17
Bromomethane	ND	U	0.237	10.0	ug/L	1	08/1/2011 15:17
2-Butanone	ND	U	0.723	100	ug/L	1	08/1/2011 15:17
Carbon disulfide	ND	U	0.106	100	ug/L	1	08/1/2011 15:17
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1	08/1/2011 15:17
Chlorobenzene	**0.160**	J	0.116	3.00	ug/L	1	08/1/2011 15:17
Chloroethane	ND	U	0.311	10.0	ug/L	1	08/1/2011 15:17
Chloroform	ND	U	0.139	5.00	ug/L	1	08/1/2011 15:17
Chloromethane	ND	U	0.448	1.00	ug/L	1	08/1/2011 15:17
Dibromochloromethane	ND	U	0.134	3.00	ug/L	1	08/1/2011 15:17
1,2-Dibromo-3-chloropropane	ND	U	0.748	13.0	ug/L	1	08/1/2011 15:17
Dibromomethane	ND	U	0.168	10.0	ug/L	1	08/1/2011 15:17
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1	08/1/2011 15:17
1,2-Dichlorobenzene	ND	U	0.137	5.00	ug/L	1	08/1/2011 15:17
1,4-Dichlorobenzene	**0.160**	J	0.130	1.00	ug/L	1	08/1/2011 15:17
trans-1,4-Dichloro-2-butene	ND	U	0.414	100	ug/L	1	08/1/2011 15:17
1,1-Dichloroethane	ND	U	0.165	5.00	ug/L	1	08/1/2011 15:17
1,1-Dichloroethene	ND	U	0.212	5.00	ug/L	1	08/1/2011 15:17
1,2-Dichloroethane	ND	U	0.167	1.00	ug/L	1	08/1/2011 15:17
cis-1,2-Dichloroethene	ND	U	0.136	5.00	ug/L	1	08/1/2011 15:17
trans-1,2-Dichloroethene	ND	U	0.223	5.00	ug/L	1	08/1/2011 15:17
1,2-Dichloropropane	ND	U	0.163	1.00	ug/L	1	08/1/2011 15:17
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1	08/1/2011 15:17
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1	08/1/2011 15:17
Ethyl Benzene	ND	U	0.0877	1.00	ug/L	1	08/1/2011 15:17
2-Hexanone	ND	U	0.728	50.0	ug/L	1	08/1/2011 15:17
Methyl iodide	ND	U	0.115	10.0	ug/L	1	08/1/2011 15:17
Methylene chloride	ND	U	0.152	1.00	ug/L	1	08/1/2011 15:17
4-Methyl-2-pentanone	ND	U	0.558	100	ug/L	1	08/1/2011 15:17
Styrene	ND	U	0.102	1.00	ug/L	1	08/1/2011 15:17
1,1,1,2-Tetrachloroethane	ND	U	0.104	5.00	ug/L	1	08/1/2011 15:17
1,1,2,2-Tetrachloroethane	ND	U	0.156	3.00	ug/L	1	08/1/2011 15:17
Tetrachloroethene	ND	U	0.155	1.00	ug/L	1	08/1/2011 15:17
Toluene	ND	U	0.133	1.00	ug/L	1	08/1/2011 15:17
Trichloroethene	ND	U	0.125	1.00	ug/L	1	08/1/2011 15:17
1,1,1-Trichloroethane	ND	U	0.123	1.00	ug/L	1	08/1/2011 15:17
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1	08/1/2011 15:17
Trichlorofluoromethane	ND	U	0.137	1.00	ug/L	1	08/1/2011 15:17

Print Date: 08/11/2011

N.C. Certification # 481

Results of **MW-2**

Client Sample ID: **MW-2**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974002-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 12:00
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1	08/1/2011 15:17
Vinyl acetate	ND	U	0.882	50.0	ug/L	1	08/1/2011 15:17
Vinyl chloride	ND	U	0.124	1.00	ug/L	1	08/1/2011 15:17
Xylene (total)	ND	U	0.182	5.00	ug/L	1	08/1/2011 15:17
Surrogates							
1,2-Dichloroethane-d4	103			64.0-140	%	1	08/1/2011 15:17
Toluene d8	100			82.0-117	%	1	08/1/2011 15:17
4-Bromofluorobenzene	97.0			85.0-115	%	1	08/1/2011 15:17

Batch Information

Analytical Batch: **VMS1427**
Analytical Method: **SW-846 8260B**
Instrument: **MSD4**
Analyst: **BWS**
Analytical Date/Time: **08/01/2011 15:17**

Prep Batch: **VXX1861**
Prep Method: **SW-846 5030B**
Prep Date/Time: **08/01/2011 10:14**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

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Results of **MW-2**

Client Sample ID: **MW-2**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974002-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 12:00
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6010C**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Arsenic	ND	U	3.69	10.0	ug/L	1	07/28/2011 16:16
Barium	**593**		0.394	100	ug/L	1	07/28/2011 16:16
Chromium	**5.44**	J	1.47	10.0	ug/L	1	07/28/2011 16:16
Cobalt	ND	U	3.39	10.0	ug/L	1	07/28/2011 16:16
Copper	**1.17**	J	0.672	10.0	ug/L	1	07/28/2011 16:16
Lead	ND	U	5.41	10.0	ug/L	1	07/28/2011 16:16
Nickel	ND	U	3.06	50.0	ug/L	1	07/28/2011 16:16
Silver	**6.60**	J	1.05	10.0	ug/L	1	07/29/2011 10:38
Zinc	**6.64**	J	2.26	10.0	ug/L	1	07/28/2011 16:16

Batch Information

Analytical Batch: **MIP1178**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/28/2011 16:16**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MIP1179**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/29/2011 10:38**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Print Date: 08/11/2011

N.C. Certification # 481

Results of **MW-2**

Client Sample ID: **MW-2**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974002-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 12:00
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6020A**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Antimony	ND	U	0.437	6.00	ug/L	10	08/10/2011 14:11
Beryllium	ND	U	0.594	1.00#	ug/L	10	08/5/2011 13:18
Cadmium	**1.10**	J	0.278	1.00#	ug/L	10	08/5/2011 13:18
Selenium	ND	U	0.824	10.0	ug/L	10	08/10/2011 16:02
Thallium	**0.400**	J	0.297	5.50	ug/L	10	08/5/2011 13:18
Vanadium	**11.8**	J	0.661	25.0	ug/L	10	08/5/2011 13:18

Batch Information

Analytical Batch: **MMS1068**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/05/2011 13:18**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1070**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/10/2011 14:11**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1071**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/10/2011 16:02**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

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Results of **MW-3**

Client Sample ID: **MW-3**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974003-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 15:00
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Acetone	**2.26**	J	0.864	100	ug/L	1	08/1/2011 15:43
Acrylonitrile	ND	U	3.04	200	ug/L	1	08/1/2011 15:43
Benzene	ND	U	0.113	1.00	ug/L	1	08/1/2011 15:43
Bromochloromethane	ND	U	0.211	3.00	ug/L	1	08/1/2011 15:43
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1	08/1/2011 15:43
Bromoform	ND	U	0.0974	3.00	ug/L	1	08/1/2011 15:43
Bromomethane	ND	U	0.237	10.0	ug/L	1	08/1/2011 15:43
2-Butanone	ND	U	0.723	100	ug/L	1	08/1/2011 15:43
Carbon disulfide	ND	U	0.106	100	ug/L	1	08/1/2011 15:43
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1	08/1/2011 15:43
Chlorobenzene	ND	U	0.116	3.00	ug/L	1	08/1/2011 15:43
Chloroethane	**3.69**	J	0.311	10.0	ug/L	1	08/1/2011 15:43
Chloroform	ND	U	0.139	5.00	ug/L	1	08/1/2011 15:43
Chloromethane	ND	U	0.448	1.00	ug/L	1	08/1/2011 15:43
Dibromochloromethane	ND	U	0.134	3.00	ug/L	1	08/1/2011 15:43
1,2-Dibromo-3-chloropropane	ND	U	0.748	13.0	ug/L	1	08/1/2011 15:43
Dibromomethane	ND	U	0.168	10.0	ug/L	1	08/1/2011 15:43
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1	08/1/2011 15:43
1,2-Dichlorobenzene	ND	U	0.137	5.00	ug/L	1	08/1/2011 15:43
1,4-Dichlorobenzene	**0.240**	J	0.130	1.00	ug/L	1	08/1/2011 15:43
trans-1,4-Dichloro-2-butene	ND	U	0.414	100	ug/L	1	08/1/2011 15:43
1,1-Dichloroethane	**37.8**		0.165	5.00	ug/L	1	08/1/2011 15:43
1,1-Dichloroethene	**0.530**	J	0.212	5.00	ug/L	1	08/1/2011 15:43
1,2-Dichloroethane	ND	U	0.167	1.00	ug/L	1	08/1/2011 15:43
cis-1,2-Dichloroethene	**13.3**		0.136	5.00	ug/L	1	08/1/2011 15:43
trans-1,2-Dichloroethene	ND	U	0.223	5.00	ug/L	1	08/1/2011 15:43
1,2-Dichloropropane	**0.860**	J	0.163	1.00	ug/L	1	08/1/2011 15:43
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1	08/1/2011 15:43
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1	08/1/2011 15:43
Ethyl Benzene	ND	U	0.0877	1.00	ug/L	1	08/1/2011 15:43
2-Hexanone	ND	U	0.728	50.0	ug/L	1	08/1/2011 15:43
Methyl iodide	ND	U	0.115	10.0	ug/L	1	08/1/2011 15:43
Methylene chloride	**0.340**	J	0.152	1.00	ug/L	1	08/1/2011 15:43
4-Methyl-2-pentanone	ND	U	0.558	100	ug/L	1	08/1/2011 15:43
Styrene	ND	U	0.102	1.00	ug/L	1	08/1/2011 15:43
1,1,1,2-Tetrachloroethane	ND	U	0.104	5.00	ug/L	1	08/1/2011 15:43
1,1,2,2-Tetrachloroethane	ND	U	0.156	3.00	ug/L	1	08/1/2011 15:43
Tetrachloroethene	**5.64**		0.155	1.00	ug/L	1	08/1/2011 15:43
Toluene	ND	U	0.133	1.00	ug/L	1	08/1/2011 15:43
Trichloroethene	**7.20**		0.125	1.00	ug/L	1	08/1/2011 15:43
1,1,1-Trichloroethane	**0.230**	J	0.123	1.00	ug/L	1	08/1/2011 15:43
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1	08/1/2011 15:43
Trichlorofluoromethane	**0.580**	J	0.137	1.00	ug/L	1	08/1/2011 15:43

Print Date: 08/11/2011

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Results of **MW-3**

Client Sample ID: **MW-3**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974003-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 15:00
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1	08/1/2011 15:43
Vinyl acetate	ND	U	0.882	50.0	ug/L	1	08/1/2011 15:43
Vinyl chloride	**0.500**	J	0.124	1.00	ug/L	1	08/1/2011 15:43
Xylene (total)	ND	U	0.182	5.00	ug/L	1	08/1/2011 15:43
Surrogates							
1,2-Dichloroethane-d4	101			64.0-140	%	1	08/1/2011 15:43
Toluene d8	100			82.0-117	%	1	08/1/2011 15:43
4-Bromofluorobenzene	98.0			85.0-115	%	1	08/1/2011 15:43

Batch Information

Analytical Batch: **VMS1427**
Analytical Method: **SW-846 8260B**
Instrument: **MSD4**
Analyst: **BWS**
Analytical Date/Time: **08/01/2011 15:43**

Prep Batch: **VXX1861**
Prep Method: **SW-846 5030B**
Prep Date/Time: **08/01/2011 10:14**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

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Results of **MW-3**

Client Sample ID: **MW-3**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974003-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 15:00
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6010C**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Arsenic	ND	U	3.69	10.0	ug/L	1	07/28/2011 16:23
Barium	**76.5**	J	0.394	100	ug/L	1	07/28/2011 16:23
Chromium	ND	U	1.47	10.0	ug/L	1	07/28/2011 16:23
Cobalt	ND	U	3.39	10.0	ug/L	1	07/28/2011 16:23
Copper	**4.67**	J	0.672	10.0	ug/L	1	07/28/2011 16:23
Lead	ND	U	5.41	10.0	ug/L	1	07/28/2011 16:23
Nickel	ND	U	3.06	50.0	ug/L	1	07/28/2011 16:23
Silver	**4.82**	J	1.05	10.0	ug/L	1	07/29/2011 10:41
Zinc	**4.86**	J	2.26	10.0	ug/L	1	07/28/2011 16:23

Batch Information

Analytical Batch: **MIP1178**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/28/2011 16:23**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MIP1179**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/29/2011 10:41**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Print Date: 08/11/2011

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Results of **MW-3**

Client Sample ID: **MW-3**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974003-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 15:00
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6020A**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Antimony	ND	U	0.437	6.00	ug/L	10	08/10/2011 14:14
Beryllium	ND	U	0.594	1.00#	ug/L	10	08/5/2011 13:21
Cadmium	**5.50**		0.278	1.00#	ug/L	10	08/5/2011 13:21
Selenium	ND	U	0.824	10.0	ug/L	10	08/10/2011 16:04
Thallium	ND	U	0.297	5.50	ug/L	10	08/5/2011 13:21
Vanadium	**12.6**	J	0.661	25.0	ug/L	10	08/5/2011 13:21

Batch Information

Analytical Batch: **MMS1068**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/05/2011 13:21**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1070**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/10/2011 14:14**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1071**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/10/2011 16:04**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

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Results of **MW-3R**

Client Sample ID: **MW-3R**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974004-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 08:50
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Acetone	**2.21**	J	0.864	100	ug/L	1	08/1/2011 16:08
Acrylonitrile	ND	U	3.04	200	ug/L	1	08/1/2011 16:08
Benzene	ND	U	0.113	1.00	ug/L	1	08/1/2011 16:08
Bromochloromethane	ND	U	0.211	3.00	ug/L	1	08/1/2011 16:08
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1	08/1/2011 16:08
Bromoform	ND	U	0.0974	3.00	ug/L	1	08/1/2011 16:08
Bromomethane	ND	U	0.237	10.0	ug/L	1	08/1/2011 16:08
2-Butanone	ND	U	0.723	100	ug/L	1	08/1/2011 16:08
Carbon disulfide	ND	U	0.106	100	ug/L	1	08/1/2011 16:08
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1	08/1/2011 16:08
Chlorobenzene	ND	U	0.116	3.00	ug/L	1	08/1/2011 16:08
Chloroethane	ND	U	0.311	10.0	ug/L	1	08/1/2011 16:08
Chloroform	ND	U	0.139	5.00	ug/L	1	08/1/2011 16:08
Chloromethane	ND	U	0.448	1.00	ug/L	1	08/1/2011 16:08
Dibromochloromethane	ND	U	0.134	3.00	ug/L	1	08/1/2011 16:08
1,2-Dibromo-3-chloropropane	ND	U	0.748	13.0	ug/L	1	08/1/2011 16:08
Dibromomethane	ND	U	0.168	10.0	ug/L	1	08/1/2011 16:08
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1	08/1/2011 16:08
1,2-Dichlorobenzene	ND	U	0.137	5.00	ug/L	1	08/1/2011 16:08
1,4-Dichlorobenzene	ND	U	0.130	1.00	ug/L	1	08/1/2011 16:08
trans-1,4-Dichloro-2-butene	ND	U	0.414	100	ug/L	1	08/1/2011 16:08
1,1-Dichloroethane	**0.330**	J	0.165	5.00	ug/L	1	08/1/2011 16:08
1,1-Dichloroethene	ND	U	0.212	5.00	ug/L	1	08/1/2011 16:08
1,2-Dichloroethane	ND	U	0.167	1.00	ug/L	1	08/1/2011 16:08
cis-1,2-Dichloroethene	ND	U	0.136	5.00	ug/L	1	08/1/2011 16:08
trans-1,2-Dichloroethene	ND	U	0.223	5.00	ug/L	1	08/1/2011 16:08
1,2-Dichloropropane	ND	U	0.163	1.00	ug/L	1	08/1/2011 16:08
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1	08/1/2011 16:08
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1	08/1/2011 16:08
Ethyl Benzene	ND	U	0.0877	1.00	ug/L	1	08/1/2011 16:08
2-Hexanone	ND	U	0.728	50.0	ug/L	1	08/1/2011 16:08
Methyl iodide	ND	U	0.115	10.0	ug/L	1	08/1/2011 16:08
Methylene chloride	ND	U	0.152	1.00	ug/L	1	08/1/2011 16:08
4-Methyl-2-pentanone	ND	U	0.558	100	ug/L	1	08/1/2011 16:08
Styrene	ND	U	0.102	1.00	ug/L	1	08/1/2011 16:08
1,1,1,2-Tetrachloroethane	ND	U	0.104	5.00	ug/L	1	08/1/2011 16:08
1,1,2,2-Tetrachloroethane	ND	U	0.156	3.00	ug/L	1	08/1/2011 16:08
Tetrachloroethene	ND	U	0.155	1.00	ug/L	1	08/1/2011 16:08
Toluene	ND	U	0.133	1.00	ug/L	1	08/1/2011 16:08
Trichloroethene	ND	U	0.125	1.00	ug/L	1	08/1/2011 16:08
1,1,1-Trichloroethane	ND	U	0.123	1.00	ug/L	1	08/1/2011 16:08
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1	08/1/2011 16:08
Trichlorofluoromethane	ND	U	0.137	1.00	ug/L	1	08/1/2011 16:08

Print Date: 08/11/2011

N.C. Certification # 481

Results of **MW-3R**

Client Sample ID: **MW-3R**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974004-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 08:50
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1	08/1/2011 16:08
Vinyl acetate	ND	U	0.882	50.0	ug/L	1	08/1/2011 16:08
Vinyl chloride	ND	U	0.124	1.00	ug/L	1	08/1/2011 16:08
Xylene (total)	ND	U	0.182	5.00	ug/L	1	08/1/2011 16:08
Surrogates							
1,2-Dichloroethane-d4	101			64.0-140	%	1	08/1/2011 16:08
Toluene d8	99.0			82.0-117	%	1	08/1/2011 16:08
4-Bromofluorobenzene	97.0			85.0-115	%	1	08/1/2011 16:08

Batch Information

Analytical Batch: **VMS1427**
Analytical Method: **SW-846 8260B**
Instrument: **MSD4**
Analyst: **BWS**
Analytical Date/Time: **08/01/2011 16:08**

Prep Batch: **VXX1861**
Prep Method: **SW-846 5030B**
Prep Date/Time: **08/01/2011 10:14**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

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Results of **MW-3R**

Client Sample ID: **MW-3R**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974004-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 08:50
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6010C**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Arsenic	ND	U	3.69	10.0	ug/L	1	07/28/2011 16:43
Barium	**89.0**	J	0.394	100	ug/L	1	07/28/2011 16:43
Chromium	ND	U	1.47	10.0	ug/L	1	07/28/2011 16:43
Cobalt	ND	U	3.39	10.0	ug/L	1	07/28/2011 16:43
Copper	**1.48**	J	0.672	10.0	ug/L	1	07/28/2011 16:43
Lead	ND	U	5.41	10.0	ug/L	1	07/28/2011 16:43
Nickel	ND	U	3.06	50.0	ug/L	1	07/28/2011 16:43
Silver	**4.50**	J	1.05	10.0	ug/L	1	07/29/2011 10:50
Zinc	**8.38**	J	2.26	10.0	ug/L	1	07/28/2011 16:43

Batch Information

Analytical Batch: **MIP1178**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/28/2011 16:43**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MIP1179**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/29/2011 10:50**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Print Date: 08/11/2011

N.C. Certification # 481

Results of **MW-3R**

Client Sample ID: **MW-3R**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974004-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 08:50
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6020A**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Antimony	ND	U	0.437	6.00	ug/L	10	08/10/2011 14:16
Beryllium	ND	U	0.594	1.00#	ug/L	10	08/5/2011 13:24
Cadmium	**0.300**	J	0.278	1.00#	ug/L	10	08/5/2011 13:24
Selenium	ND	U	0.824	10.0	ug/L	10	08/10/2011 16:06
Thallium	ND	U	0.297	5.50	ug/L	10	08/5/2011 13:24
Vanadium	**17.4**	J	0.661	25.0	ug/L	10	08/5/2011 13:24

Batch Information

Analytical Batch: **MMS1068**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/05/2011 13:24**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1070**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/10/2011 14:16**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1071**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/10/2011 16:06**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

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Results of **MW-4**

Client Sample ID: **MW-4**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974005-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 10:10
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Acetone	ND	U	0.864	100	ug/L	1	08/1/2011 16:34
Acrylonitrile	ND	U	3.04	200	ug/L	1	08/1/2011 16:34
Benzene	ND	U	0.113	1.00	ug/L	1	08/1/2011 16:34
Bromochloromethane	ND	U	0.211	3.00	ug/L	1	08/1/2011 16:34
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1	08/1/2011 16:34
Bromoform	ND	U	0.0974	3.00	ug/L	1	08/1/2011 16:34
Bromomethane	ND	U	0.237	10.0	ug/L	1	08/1/2011 16:34
2-Butanone	ND	U	0.723	100	ug/L	1	08/1/2011 16:34
Carbon disulfide	ND	U	0.106	100	ug/L	1	08/1/2011 16:34
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1	08/1/2011 16:34
Chlorobenzene	ND	U	0.116	3.00	ug/L	1	08/1/2011 16:34
Chloroethane	ND	U	0.311	10.0	ug/L	1	08/1/2011 16:34
Chloroform	ND	U	0.139	5.00	ug/L	1	08/1/2011 16:34
Chloromethane	ND	U	0.448	1.00	ug/L	1	08/1/2011 16:34
Dibromochloromethane	ND	U	0.134	3.00	ug/L	1	08/1/2011 16:34
1,2-Dibromo-3-chloropropane	ND	U	0.748	13.0	ug/L	1	08/1/2011 16:34
Dibromomethane	ND	U	0.168	10.0	ug/L	1	08/1/2011 16:34
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1	08/1/2011 16:34
1,2-Dichlorobenzene	ND	U	0.137	5.00	ug/L	1	08/1/2011 16:34
1,4-Dichlorobenzene	ND	U	0.130	1.00	ug/L	1	08/1/2011 16:34
trans-1,4-Dichloro-2-butene	ND	U	0.414	100	ug/L	1	08/1/2011 16:34
1,1-Dichloroethane	ND	U	0.165	5.00	ug/L	1	08/1/2011 16:34
1,1-Dichloroethene	ND	U	0.212	5.00	ug/L	1	08/1/2011 16:34
1,2-Dichloroethane	ND	U	0.167	1.00	ug/L	1	08/1/2011 16:34
cis-1,2-Dichloroethene	ND	U	0.136	5.00	ug/L	1	08/1/2011 16:34
trans-1,2-Dichloroethene	ND	U	0.223	5.00	ug/L	1	08/1/2011 16:34
1,2-Dichloropropane	ND	U	0.163	1.00	ug/L	1	08/1/2011 16:34
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1	08/1/2011 16:34
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1	08/1/2011 16:34
Ethyl Benzene	ND	U	0.0877	1.00	ug/L	1	08/1/2011 16:34
2-Hexanone	ND	U	0.728	50.0	ug/L	1	08/1/2011 16:34
Methyl iodide	ND	U	0.115	10.0	ug/L	1	08/1/2011 16:34
Methylene chloride	ND	U	0.152	1.00	ug/L	1	08/1/2011 16:34
4-Methyl-2-pentanone	ND	U	0.558	100	ug/L	1	08/1/2011 16:34
Styrene	ND	U	0.102	1.00	ug/L	1	08/1/2011 16:34
1,1,1,2-Tetrachloroethane	ND	U	0.104	5.00	ug/L	1	08/1/2011 16:34
1,1,2,2-Tetrachloroethane	ND	U	0.156	3.00	ug/L	1	08/1/2011 16:34
Tetrachloroethene	ND	U	0.155	1.00	ug/L	1	08/1/2011 16:34
Toluene	ND	U	0.133	1.00	ug/L	1	08/1/2011 16:34
Trichloroethene	ND	U	0.125	1.00	ug/L	1	08/1/2011 16:34
1,1,1-Trichloroethane	ND	U	0.123	1.00	ug/L	1	08/1/2011 16:34
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1	08/1/2011 16:34
Trichlorofluoromethane	ND	U	0.137	1.00	ug/L	1	08/1/2011 16:34

Print Date: 08/11/2011

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Results of **MW-4**

Client Sample ID: **MW-4**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974005-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 10:10
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1	08/1/2011 16:34
Vinyl acetate	ND	U	0.882	50.0	ug/L	1	08/1/2011 16:34
Vinyl chloride	ND	U	0.124	1.00	ug/L	1	08/1/2011 16:34
Xylene (total)	ND	U	0.182	5.00	ug/L	1	08/1/2011 16:34
Surrogates							
1,2-Dichloroethane-d4	104			64.0-140	%	1	08/1/2011 16:34
Toluene d8	102			82.0-117	%	1	08/1/2011 16:34
4-Bromofluorobenzene	98.0			85.0-115	%	1	08/1/2011 16:34

Batch Information

Analytical Batch: **VMS1427**
Analytical Method: **SW-846 8260B**
Instrument: **MSD4**
Analyst: **BWS**
Analytical Date/Time: **08/01/2011 16:34**

Prep Batch: **VXX1861**
Prep Method: **SW-846 5030B**
Prep Date/Time: **08/01/2011 10:14**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

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Results of **MW-4**

Client Sample ID: **MW-4**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974005-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 10:10
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6010C**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Arsenic	ND	U	3.69	10.0	ug/L	1	07/28/2011 16:50
Barium	**17.8**	J	0.394	100	ug/L	1	07/28/2011 16:50
Chromium	ND	U	1.47	10.0	ug/L	1	07/28/2011 16:50
Cobalt	ND	U	3.39	10.0	ug/L	1	07/28/2011 16:50
Copper	**0.750**	J	0.672	10.0	ug/L	1	07/28/2011 16:50
Lead	ND	U	5.41	10.0	ug/L	1	07/28/2011 16:50
Nickel	ND	U	3.06	50.0	ug/L	1	07/28/2011 16:50
Silver	**4.93**	J	1.05	10.0	ug/L	1	07/29/2011 10:53
Zinc	**2.93**	J	2.26	10.0	ug/L	1	07/28/2011 16:50

Batch Information

Analytical Batch: **MIP1178**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/28/2011 16:50**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MIP1179**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/29/2011 10:53**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Print Date: 08/11/2011

N.C. Certification # 481

Results of **MW-4**

Client Sample ID: **MW-4**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974005-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 10:10
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6020A**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Antimony	ND	U	0.437	6.00	ug/L	10	08/10/2011 14:19
Beryllium	ND	U	0.594	1.00#	ug/L	10	08/5/2011 13:27
Cadmium	ND	U	0.278	1.00#	ug/L	10	08/5/2011 13:27
Selenium	ND	U	0.824	10.0	ug/L	10	08/10/2011 16:09
Thallium	ND	U	0.297	5.50	ug/L	10	08/5/2011 13:27
Vanadium	**11.1**	J	0.661	25.0	ug/L	10	08/5/2011 13:27

Batch Information

Analytical Batch: **MMS1068**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/05/2011 13:27**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1070**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/10/2011 14:19**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1071**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/10/2011 16:09**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

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Results of **MW-6**

Client Sample ID: **MW-6**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974006-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 11:35
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Acetone	ND	U	0.864	100	ug/L	1	08/1/2011 16:59
Acrylonitrile	ND	U	3.04	200	ug/L	1	08/1/2011 16:59
Benzene	**6.18**		0.113	1.00	ug/L	1	08/1/2011 16:59
Bromochloromethane	ND	U	0.211	3.00	ug/L	1	08/1/2011 16:59
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1	08/1/2011 16:59
Bromoform	ND	U	0.0974	3.00	ug/L	1	08/1/2011 16:59
Bromomethane	ND	U	0.237	10.0	ug/L	1	08/1/2011 16:59
2-Butanone	ND	U	0.723	100	ug/L	1	08/1/2011 16:59
Carbon disulfide	ND	U	0.106	100	ug/L	1	08/1/2011 16:59
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1	08/1/2011 16:59
Chlorobenzene	**1.42**	J	0.116	3.00	ug/L	1	08/1/2011 16:59
Chloroethane	ND	U	0.311	10.0	ug/L	1	08/1/2011 16:59
Chloroform	ND	U	0.139	5.00	ug/L	1	08/1/2011 16:59
Chloromethane	ND	U	0.448	1.00	ug/L	1	08/1/2011 16:59
Dibromochloromethane	ND	U	0.134	3.00	ug/L	1	08/1/2011 16:59
1,2-Dibromo-3-chloropropane	ND	U	0.748	13.0	ug/L	1	08/1/2011 16:59
Dibromomethane	ND	U	0.168	10.0	ug/L	1	08/1/2011 16:59
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1	08/1/2011 16:59
1,2-Dichlorobenzene	ND	U	0.137	5.00	ug/L	1	08/1/2011 16:59
1,4-Dichlorobenzene	**2.02**		0.130	1.00	ug/L	1	08/1/2011 16:59
trans-1,4-Dichloro-2-butene	ND	U	0.414	100	ug/L	1	08/1/2011 16:59
1,1-Dichloroethane	**5.86**		0.165	5.00	ug/L	1	08/1/2011 16:59
1,1-Dichloroethene	ND	U	0.212	5.00	ug/L	1	08/1/2011 16:59
1,2-Dichloroethane	**4.16**		0.167	1.00	ug/L	1	08/1/2011 16:59
cis-1,2-Dichloroethene	**43.5**		0.136	5.00	ug/L	1	08/1/2011 16:59
trans-1,2-Dichloroethene	**0.900**	J	0.223	5.00	ug/L	1	08/1/2011 16:59
1,2-Dichloropropane	**2.48**		0.163	1.00	ug/L	1	08/1/2011 16:59
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1	08/1/2011 16:59
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1	08/1/2011 16:59
Ethyl Benzene	**0.170**	J	0.0877	1.00	ug/L	1	08/1/2011 16:59
2-Hexanone	ND	U	0.728	50.0	ug/L	1	08/1/2011 16:59
Methyl iodide	ND	U	0.115	10.0	ug/L	1	08/1/2011 16:59
Methylene chloride	**1.08**		0.152	1.00	ug/L	1	08/1/2011 16:59
4-Methyl-2-pentanone	ND	U	0.558	100	ug/L	1	08/1/2011 16:59
Styrene	ND	U	0.102	1.00	ug/L	1	08/1/2011 16:59
1,1,1,2-Tetrachloroethane	ND	U	0.104	5.00	ug/L	1	08/1/2011 16:59
1,1,2,2-Tetrachloroethane	ND	U	0.156	3.00	ug/L	1	08/1/2011 16:59
Tetrachloroethene	**0.270**	J	0.155	1.00	ug/L	1	08/1/2011 16:59
Toluene	**0.240**	J	0.133	1.00	ug/L	1	08/1/2011 16:59
Trichloroethene	**1.63**		0.125	1.00	ug/L	1	08/1/2011 16:59
1,1,1-Trichloroethane	ND	U	0.123	1.00	ug/L	1	08/1/2011 16:59
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1	08/1/2011 16:59
Trichlorofluoromethane	ND	U	0.137	1.00	ug/L	1	08/1/2011 16:59

Print Date: 08/11/2011

N.C. Certification # 481

Results of **MW-6**

Client Sample ID: **MW-6**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974006-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 11:35
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1	08/1/2011 16:59
Vinyl acetate	ND	U	0.882	50.0	ug/L	1	08/1/2011 16:59
Vinyl chloride	**4.49**		0.124	1.00	ug/L	1	08/1/2011 16:59
Xylene (total)	**0.340**	J	0.182	5.00	ug/L	1	08/1/2011 16:59
Surrogates							
1,2-Dichloroethane-d4	100			64.0-140	%	1	08/1/2011 16:59
Toluene d8	99.0			82.0-117	%	1	08/1/2011 16:59
4-Bromofluorobenzene	99.0			85.0-115	%	1	08/1/2011 16:59

Batch Information

Analytical Batch: **VMS1427**
Analytical Method: **SW-846 8260B**
Instrument: **MSD4**
Analyst: **BWS**
Analytical Date/Time: **08/01/2011 16:59**

Prep Batch: **VXX1861**
Prep Method: **SW-846 5030B**
Prep Date/Time: **08/01/2011 10:14**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

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Results of **MW-6**

Client Sample ID: **MW-6**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974006-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 11:35
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6010C**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Arsenic	ND	U	3.69	10.0	ug/L	1	07/28/2011 16:57
Barium	**701**		0.394	100	ug/L	1	07/28/2011 16:57
Chromium	**19.1**		1.47	10.0	ug/L	1	07/28/2011 16:57
Cobalt	**44.0**		3.39	10.0	ug/L	1	07/28/2011 16:57
Copper	**1.10**	J	0.672	10.0	ug/L	1	07/28/2011 16:57
Lead	**8.25**	J	5.41	10.0	ug/L	1	07/28/2011 16:57
Nickel	ND	U	3.06	50.0	ug/L	1	07/28/2011 16:57
Silver	**12.6**		1.05	10.0	ug/L	1	07/29/2011 10:56
Zinc	**8.17**	J	2.26	10.0	ug/L	1	07/28/2011 16:57

Batch Information

Analytical Batch: **MIP1178**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/28/2011 16:57**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MIP1179**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/29/2011 10:56**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Print Date: 08/11/2011

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Results of **MW-6**

Client Sample ID: **MW-6**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974006-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 11:35
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6020A**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Antimony	ND	U	0.437	6.00	ug/L	10	08/10/2011 16:16
Beryllium	**0.600**	J	0.594	1.00#	ug/L	10	08/5/2011 13:36
Cadmium	**0.500**	J	0.278	1.00#	ug/L	10	08/5/2011 13:36
Selenium	**18.6**		0.824	10.0	ug/L	10	08/10/2011 16:16
Thallium	ND	U	0.297	5.50	ug/L	10	08/5/2011 13:36
Vanadium	**9.00**	J	0.661	25.0	ug/L	10	08/5/2011 13:36

Batch Information

Analytical Batch: **MMS1068**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/05/2011 13:36**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1071**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/10/2011 16:16**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Print Date: 08/11/2011

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Results of **MW-6R**

Client Sample ID: **MW-6R**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974007-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 11:00
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Acetone	**2.38**	J	0.864	100	ug/L	1	08/1/2011 17:24
Acrylonitrile	ND	U	3.04	200	ug/L	1	08/1/2011 17:24
Benzene	**0.150**	J	0.113	1.00	ug/L	1	08/1/2011 17:24
Bromochloromethane	ND	U	0.211	3.00	ug/L	1	08/1/2011 17:24
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1	08/1/2011 17:24
Bromoform	ND	U	0.0974	3.00	ug/L	1	08/1/2011 17:24
Bromomethane	ND	U	0.237	10.0	ug/L	1	08/1/2011 17:24
2-Butanone	ND	U	0.723	100	ug/L	1	08/1/2011 17:24
Carbon disulfide	ND	U	0.106	100	ug/L	1	08/1/2011 17:24
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1	08/1/2011 17:24
Chlorobenzene	**0.190**	J	0.116	3.00	ug/L	1	08/1/2011 17:24
Chloroethane	ND	U	0.311	10.0	ug/L	1	08/1/2011 17:24
Chloroform	ND	U	0.139	5.00	ug/L	1	08/1/2011 17:24
Chloromethane	ND	U	0.448	1.00	ug/L	1	08/1/2011 17:24
Dibromochloromethane	ND	U	0.134	3.00	ug/L	1	08/1/2011 17:24
1,2-Dibromo-3-chloropropane	ND	U	0.748	13.0	ug/L	1	08/1/2011 17:24
Dibromomethane	ND	U	0.168	10.0	ug/L	1	08/1/2011 17:24
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1	08/1/2011 17:24
1,2-Dichlorobenzene	ND	U	0.137	5.00	ug/L	1	08/1/2011 17:24
1,4-Dichlorobenzene	**0.810**	J	0.130	1.00	ug/L	1	08/1/2011 17:24
trans-1,4-Dichloro-2-butene	ND	U	0.414	100	ug/L	1	08/1/2011 17:24
1,1-Dichloroethane	**1.81**	J	0.165	5.00	ug/L	1	08/1/2011 17:24
1,1-Dichloroethene	ND	U	0.212	5.00	ug/L	1	08/1/2011 17:24
1,2-Dichloroethane	ND	U	0.167	1.00	ug/L	1	08/1/2011 17:24
cis-1,2-Dichloroethene	**2.34**	J	0.136	5.00	ug/L	1	08/1/2011 17:24
trans-1,2-Dichloroethene	ND	U	0.223	5.00	ug/L	1	08/1/2011 17:24
1,2-Dichloropropane	ND	U	0.163	1.00	ug/L	1	08/1/2011 17:24
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1	08/1/2011 17:24
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1	08/1/2011 17:24
Ethyl Benzene	ND	U	0.0877	1.00	ug/L	1	08/1/2011 17:24
2-Hexanone	ND	U	0.728	50.0	ug/L	1	08/1/2011 17:24
Methyl iodide	ND	U	0.115	10.0	ug/L	1	08/1/2011 17:24
Methylene chloride	**0.680**	J	0.152	1.00	ug/L	1	08/1/2011 17:24
4-Methyl-2-pentanone	ND	U	0.558	100	ug/L	1	08/1/2011 17:24
Styrene	ND	U	0.102	1.00	ug/L	1	08/1/2011 17:24
1,1,1,2-Tetrachloroethane	ND	U	0.104	5.00	ug/L	1	08/1/2011 17:24
1,1,2,2-Tetrachloroethane	ND	U	0.156	3.00	ug/L	1	08/1/2011 17:24
Tetrachloroethene	**1.95**		0.155	1.00	ug/L	1	08/1/2011 17:24
Toluene	ND	U	0.133	1.00	ug/L	1	08/1/2011 17:24
Trichloroethene	**3.20**		0.125	1.00	ug/L	1	08/1/2011 17:24
1,1,1-Trichloroethane	ND	U	0.123	1.00	ug/L	1	08/1/2011 17:24
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1	08/1/2011 17:24
Trichlorofluoromethane	ND	U	0.137	1.00	ug/L	1	08/1/2011 17:24

Print Date: 08/11/2011

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Results of **MW-6R**

Client Sample ID: **MW-6R**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974007-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 11:00
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1	08/1/2011 17:24
Vinyl acetate	ND	U	0.882	50.0	ug/L	1	08/1/2011 17:24
Vinyl chloride	ND	U	0.124	1.00	ug/L	1	08/1/2011 17:24
Xylene (total)	**0.300**	J	0.182	5.00	ug/L	1	08/1/2011 17:24
Surrogates							
1,2-Dichloroethane-d4	101			64.0-140	%	1	08/1/2011 17:24
Toluene d8	99.0			82.0-117	%	1	08/1/2011 17:24
4-Bromofluorobenzene	97.0			85.0-115	%	1	08/1/2011 17:24

Batch Information

Analytical Batch: **VMS1427**
Analytical Method: **SW-846 8260B**
Instrument: **MSD4**
Analyst: **BWS**
Analytical Date/Time: **08/01/2011 17:24**

Prep Batch: **VXX1861**
Prep Method: **SW-846 5030B**
Prep Date/Time: **08/01/2011 10:14**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

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Results of **MW-6R**

Client Sample ID: **MW-6R**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974007-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 11:00
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6010C**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Arsenic	ND	U	3.69	10.0	ug/L	1	07/28/2011 17:04
Barium	**56.8**	J	0.394	100	ug/L	1	07/28/2011 17:04
Chromium	ND	U	1.47	10.0	ug/L	1	07/28/2011 17:04
Cobalt	ND	U	3.39	10.0	ug/L	1	07/28/2011 17:04
Copper	**4.06**	J	0.672	10.0	ug/L	1	07/28/2011 17:04
Lead	ND	U	5.41	10.0	ug/L	1	07/28/2011 17:04
Nickel	ND	U	3.06	50.0	ug/L	1	07/28/2011 17:04
Silver	**5.22**	J	1.05	10.0	ug/L	1	07/29/2011 10:59
Zinc	**14.2**		2.26	10.0	ug/L	1	07/28/2011 17:04

Batch Information

Analytical Batch: **MIP1178**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/28/2011 17:04**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MIP1179**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/29/2011 10:59**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Print Date: 08/11/2011

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Results of **MW-6R**

Client Sample ID: **MW-6R**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974007-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 11:00
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6020A**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Antimony	ND	U	0.437	6.00	ug/L	10	08/10/2011 16:18
Beryllium	ND	U	0.594	1.00#	ug/L	10	08/5/2011 13:39
Cadmium	**8.30**		0.278	1.00#	ug/L	10	08/5/2011 13:39
Selenium	**1.90**	J	0.824	10.0	ug/L	10	08/10/2011 16:18
Thallium	ND	U	0.297	5.50	ug/L	10	08/5/2011 13:39
Vanadium	**10.8**	J	0.661	25.0	ug/L	10	08/5/2011 13:39

Batch Information

Analytical Batch: **MMS1068**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/05/2011 13:39**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1071**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/10/2011 16:18**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Print Date: 08/11/2011

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Results of **MW-7S**

Client Sample ID: **MW-7S**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974008-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 14:25
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Acetone	ND	U	0.864	100	ug/L	1	08/1/2011 17:50
Acrylonitrile	ND	U	3.04	200	ug/L	1	08/1/2011 17:50
Benzene	ND	U	0.113	1.00	ug/L	1	08/1/2011 17:50
Bromochloromethane	ND	U	0.211	3.00	ug/L	1	08/1/2011 17:50
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1	08/1/2011 17:50
Bromoform	ND	U	0.0974	3.00	ug/L	1	08/1/2011 17:50
Bromomethane	ND	U	0.237	10.0	ug/L	1	08/1/2011 17:50
2-Butanone	ND	U	0.723	100	ug/L	1	08/1/2011 17:50
Carbon disulfide	**1.09**	J	0.106	100	ug/L	1	08/1/2011 17:50
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1	08/1/2011 17:50
Chlorobenzene	ND	U	0.116	3.00	ug/L	1	08/1/2011 17:50
Chloroethane	ND	U	0.311	10.0	ug/L	1	08/1/2011 17:50
Chloroform	ND	U	0.139	5.00	ug/L	1	08/1/2011 17:50
Chloromethane	ND	U	0.448	1.00	ug/L	1	08/1/2011 17:50
Dibromochloromethane	ND	U	0.134	3.00	ug/L	1	08/1/2011 17:50
1,2-Dibromo-3-chloropropane	ND	U	0.748	13.0	ug/L	1	08/1/2011 17:50
Dibromomethane	ND	U	0.168	10.0	ug/L	1	08/1/2011 17:50
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1	08/1/2011 17:50
1,2-Dichlorobenzene	ND	U	0.137	5.00	ug/L	1	08/1/2011 17:50
1,4-Dichlorobenzene	ND	U	0.130	1.00	ug/L	1	08/1/2011 17:50
trans-1,4-Dichloro-2-butene	ND	U	0.414	100	ug/L	1	08/1/2011 17:50
1,1-Dichloroethane	**1.53**	J	0.165	5.00	ug/L	1	08/1/2011 17:50
1,1-Dichloroethene	ND	U	0.212	5.00	ug/L	1	08/1/2011 17:50
1,2-Dichloroethane	ND	U	0.167	1.00	ug/L	1	08/1/2011 17:50
cis-1,2-Dichloroethene	ND	U	0.136	5.00	ug/L	1	08/1/2011 17:50
trans-1,2-Dichloroethene	ND	U	0.223	5.00	ug/L	1	08/1/2011 17:50
1,2-Dichloropropane	ND	U	0.163	1.00	ug/L	1	08/1/2011 17:50
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1	08/1/2011 17:50
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1	08/1/2011 17:50
Ethyl Benzene	ND	U	0.0877	1.00	ug/L	1	08/1/2011 17:50
2-Hexanone	ND	U	0.728	50.0	ug/L	1	08/1/2011 17:50
Methyl iodide	ND	U	0.115	10.0	ug/L	1	08/1/2011 17:50
Methylene chloride	ND	U	0.152	1.00	ug/L	1	08/1/2011 17:50
4-Methyl-2-pentanone	ND	U	0.558	100	ug/L	1	08/1/2011 17:50
Styrene	ND	U	0.102	1.00	ug/L	1	08/1/2011 17:50
1,1,1,2-Tetrachloroethane	ND	U	0.104	5.00	ug/L	1	08/1/2011 17:50
1,1,2,2-Tetrachloroethane	ND	U	0.156	3.00	ug/L	1	08/1/2011 17:50
Tetrachloroethene	**4.39**		0.155	1.00	ug/L	1	08/1/2011 17:50
Toluene	ND	U	0.133	1.00	ug/L	1	08/1/2011 17:50
Trichloroethene	**1.14**		0.125	1.00	ug/L	1	08/1/2011 17:50
1,1,1-Trichloroethane	ND	U	0.123	1.00	ug/L	1	08/1/2011 17:50
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1	08/1/2011 17:50
Trichlorofluoromethane	**0.210**	J	0.137	1.00	ug/L	1	08/1/2011 17:50

Print Date: 08/11/2011

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Results of **MW-7S**

Client Sample ID: **MW-7S**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974008-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 14:25
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1	08/1/2011 17:50
Vinyl acetate	ND	U	0.882	50.0	ug/L	1	08/1/2011 17:50
Vinyl chloride	**0.260**	J	0.124	1.00	ug/L	1	08/1/2011 17:50
Xylene (total)	ND	U	0.182	5.00	ug/L	1	08/1/2011 17:50
Surrogates							
1,2-Dichloroethane-d4	102			64.0-140	%	1	08/1/2011 17:50
Toluene d8	99.0			82.0-117	%	1	08/1/2011 17:50
4-Bromofluorobenzene	99.0			85.0-115	%	1	08/1/2011 17:50

Batch Information

Analytical Batch: **VMS1427**
Analytical Method: **SW-846 8260B**
Instrument: **MSD4**
Analyst: **BWS**
Analytical Date/Time: **08/01/2011 17:50**

Prep Batch: **VXX1861**
Prep Method: **SW-846 5030B**
Prep Date/Time: **08/01/2011 10:14**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

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Results of **MW-7S**

Client Sample ID: **MW-7S**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974008-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 14:25
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6010C**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Arsenic	ND	U	3.69	10.0	ug/L	1	07/28/2011 17:10
Barium	**48.4**	J	0.394	100	ug/L	1	07/28/2011 17:10
Chromium	ND	U	1.47	10.0	ug/L	1	07/28/2011 17:10
Cobalt	ND	U	3.39	10.0	ug/L	1	07/28/2011 17:10
Copper	**1.67**	J	0.672	10.0	ug/L	1	07/28/2011 17:10
Lead	ND	U	5.41	10.0	ug/L	1	07/28/2011 17:10
Nickel	ND	U	3.06	50.0	ug/L	1	07/28/2011 17:10
Silver	**4.34**	J	1.05	10.0	ug/L	1	07/29/2011 11:02
Zinc	**8.44**	J	2.26	10.0	ug/L	1	07/28/2011 17:10

Batch Information

Analytical Batch: **MIP1178**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/28/2011 17:10**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MIP1179**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/29/2011 11:02**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Print Date: 08/11/2011

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Results of **MW-7S**

Client Sample ID: **MW-7S**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974008-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 14:25
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6020A**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Antimony	ND	U	0.437	6.00	ug/L	10	08/10/2011 16:20
Beryllium	**0.600**	J	0.594	1.00#	ug/L	10	08/5/2011 13:43
Cadmium	ND	U	0.278	1.00#	ug/L	10	08/5/2011 13:43
Selenium	ND	U	0.824	10.0	ug/L	10	08/10/2011 16:20
Thallium	ND	U	0.297	5.50	ug/L	10	08/5/2011 13:43
Vanadium	**16.5**	J	0.661	25.0	ug/L	10	08/5/2011 13:43

Batch Information

Analytical Batch: **MMS1068**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/05/2011 13:43**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1071**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/10/2011 16:20**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

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Results of **MW-7D**

Client Sample ID: **MW-7D**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974009-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 13:40
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Acetone	**1.25**	J	0.864	100	ug/L	1	08/1/2011 18:15
Acrylonitrile	ND	U	3.04	200	ug/L	1	08/1/2011 18:15
Benzene	ND	U	0.113	1.00	ug/L	1	08/1/2011 18:15
Bromochloromethane	ND	U	0.211	3.00	ug/L	1	08/1/2011 18:15
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1	08/1/2011 18:15
Bromoform	ND	U	0.0974	3.00	ug/L	1	08/1/2011 18:15
Bromomethane	ND	U	0.237	10.0	ug/L	1	08/1/2011 18:15
2-Butanone	ND	U	0.723	100	ug/L	1	08/1/2011 18:15
Carbon disulfide	**5.16**	J	0.106	100	ug/L	1	08/1/2011 18:15
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1	08/1/2011 18:15
Chlorobenzene	ND	U	0.116	3.00	ug/L	1	08/1/2011 18:15
Chloroethane	ND	U	0.311	10.0	ug/L	1	08/1/2011 18:15
Chloroform	ND	U	0.139	5.00	ug/L	1	08/1/2011 18:15
Chloromethane	ND	U	0.448	1.00	ug/L	1	08/1/2011 18:15
Dibromochloromethane	ND	U	0.134	3.00	ug/L	1	08/1/2011 18:15
1,2-Dibromo-3-chloropropane	ND	U	0.748	13.0	ug/L	1	08/1/2011 18:15
Dibromomethane	ND	U	0.168	10.0	ug/L	1	08/1/2011 18:15
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1	08/1/2011 18:15
1,2-Dichlorobenzene	ND	U	0.137	5.00	ug/L	1	08/1/2011 18:15
1,4-Dichlorobenzene	ND	U	0.130	1.00	ug/L	1	08/1/2011 18:15
trans-1,4-Dichloro-2-butene	ND	U	0.414	100	ug/L	1	08/1/2011 18:15
1,1-Dichloroethane	ND	U	0.165	5.00	ug/L	1	08/1/2011 18:15
1,1-Dichloroethene	ND	U	0.212	5.00	ug/L	1	08/1/2011 18:15
1,2-Dichloroethane	ND	U	0.167	1.00	ug/L	1	08/1/2011 18:15
cis-1,2-Dichloroethene	ND	U	0.136	5.00	ug/L	1	08/1/2011 18:15
trans-1,2-Dichloroethene	ND	U	0.223	5.00	ug/L	1	08/1/2011 18:15
1,2-Dichloropropane	ND	U	0.163	1.00	ug/L	1	08/1/2011 18:15
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1	08/1/2011 18:15
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1	08/1/2011 18:15
Ethyl Benzene	ND	U	0.0877	1.00	ug/L	1	08/1/2011 18:15
2-Hexanone	ND	U	0.728	50.0	ug/L	1	08/1/2011 18:15
Methyl iodide	ND	U	0.115	10.0	ug/L	1	08/1/2011 18:15
Methylene chloride	ND	U	0.152	1.00	ug/L	1	08/1/2011 18:15
4-Methyl-2-pentanone	ND	U	0.558	100	ug/L	1	08/1/2011 18:15
Styrene	ND	U	0.102	1.00	ug/L	1	08/1/2011 18:15
1,1,1,2-Tetrachloroethane	ND	U	0.104	5.00	ug/L	1	08/1/2011 18:15
1,1,2,2-Tetrachloroethane	ND	U	0.156	3.00	ug/L	1	08/1/2011 18:15
Tetrachloroethene	ND	U	0.155	1.00	ug/L	1	08/1/2011 18:15
Toluene	ND	U	0.133	1.00	ug/L	1	08/1/2011 18:15
Trichloroethene	ND	U	0.125	1.00	ug/L	1	08/1/2011 18:15
1,1,1-Trichloroethane	ND	U	0.123	1.00	ug/L	1	08/1/2011 18:15
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1	08/1/2011 18:15
Trichlorofluoromethane	ND	U	0.137	1.00	ug/L	1	08/1/2011 18:15

Print Date: 08/11/2011

N.C. Certification # 481

Results of **MW-7D**

Client Sample ID: **MW-7D**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974009-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 13:40
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1	08/1/2011 18:15
Vinyl acetate	ND	U	0.882	50.0	ug/L	1	08/1/2011 18:15
Vinyl chloride	ND	U	0.124	1.00	ug/L	1	08/1/2011 18:15
Xylene (total)	ND	U	0.182	5.00	ug/L	1	08/1/2011 18:15
Surrogates							
1,2-Dichloroethane-d4	103			64.0-140	%	1	08/1/2011 18:15
Toluene d8	100			82.0-117	%	1	08/1/2011 18:15
4-Bromofluorobenzene	97.0			85.0-115	%	1	08/1/2011 18:15

Batch Information

Analytical Batch: **VMS1427**
Analytical Method: **SW-846 8260B**
Instrument: **MSD4**
Analyst: **BWS**
Analytical Date/Time: **08/01/2011 18:15**

Prep Batch: **VXX1861**
Prep Method: **SW-846 5030B**
Prep Date/Time: **08/01/2011 10:14**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

Print Date: 08/11/2011

N.C. Certification # 481

Results of **MW-7D**

Client Sample ID: **MW-7D**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974009-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 13:40
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6010C**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Arsenic	ND	U	3.69	10.0	ug/L	1	07/28/2011 17:17
Barium	**13.5**	J	0.394	100	ug/L	1	07/28/2011 17:17
Chromium	**8.98**	J	1.47	10.0	ug/L	1	07/28/2011 17:17
Cobalt	ND	U	3.39	10.0	ug/L	1	07/28/2011 17:17
Copper	**9.83**	J	0.672	10.0	ug/L	1	07/28/2011 17:17
Lead	ND	U	5.41	10.0	ug/L	1	07/28/2011 17:17
Nickel	ND	U	3.06	50.0	ug/L	1	07/28/2011 17:17
Silver	**5.14**	J	1.05	10.0	ug/L	1	07/29/2011 11:04
Zinc	**14.4**		2.26	10.0	ug/L	1	07/28/2011 17:17

Batch Information

Analytical Batch: **MIP1178**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/28/2011 17:17**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MIP1179**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/29/2011 11:04**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Print Date: 08/11/2011

N.C. Certification # 481

Results of **MW-7D**

Client Sample ID: **MW-7D**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974009-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 13:40
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6020A**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Antimony	**0.700**	J	0.437	6.00	ug/L	10	08/10/2011 16:22
Beryllium	ND	U	0.594	1.00#	ug/L	10	08/5/2011 13:46
Cadmium	**0.700**	J	0.278	1.00#	ug/L	10	08/5/2011 13:46
Selenium	ND	U	0.824	10.0	ug/L	10	08/10/2011 16:22
Thallium	ND	U	0.297	5.50	ug/L	10	08/5/2011 13:46
Vanadium	**33.4**		0.661	25.0	ug/L	10	08/5/2011 13:46

Batch Information

Analytical Batch: **MMS1068**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/05/2011 13:46**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1071**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/10/2011 16:22**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Print Date: 08/11/2011

N.C. Certification # 481

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Results of **SW-1**

Client Sample ID: **SW-1**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974010-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 09:10
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Acetone	**1.37**	J	0.864	100	ug/L	1	08/1/2011 18:41
Acrylonitrile	ND	U	3.04	200	ug/L	1	08/1/2011 18:41
Benzene	ND	U	0.113	1.00	ug/L	1	08/1/2011 18:41
Bromochloromethane	ND	U	0.211	3.00	ug/L	1	08/1/2011 18:41
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1	08/1/2011 18:41
Bromoform	ND	U	0.0974	3.00	ug/L	1	08/1/2011 18:41
Bromomethane	ND	U	0.237	10.0	ug/L	1	08/1/2011 18:41
2-Butanone	ND	U	0.723	100	ug/L	1	08/1/2011 18:41
Carbon disulfide	ND	U	0.106	100	ug/L	1	08/1/2011 18:41
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1	08/1/2011 18:41
Chlorobenzene	ND	U	0.116	3.00	ug/L	1	08/1/2011 18:41
Chloroethane	ND	U	0.311	10.0	ug/L	1	08/1/2011 18:41
Chloroform	ND	U	0.139	5.00	ug/L	1	08/1/2011 18:41
Chloromethane	ND	U	0.448	1.00	ug/L	1	08/1/2011 18:41
Dibromochloromethane	ND	U	0.134	3.00	ug/L	1	08/1/2011 18:41
1,2-Dibromo-3-chloropropane	ND	U	0.748	13.0	ug/L	1	08/1/2011 18:41
Dibromomethane	ND	U	0.168	10.0	ug/L	1	08/1/2011 18:41
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1	08/1/2011 18:41
1,2-Dichlorobenzene	ND	U	0.137	5.00	ug/L	1	08/1/2011 18:41
1,4-Dichlorobenzene	ND	U	0.130	1.00	ug/L	1	08/1/2011 18:41
trans-1,4-Dichloro-2-butene	ND	U	0.414	100	ug/L	1	08/1/2011 18:41
1,1-Dichloroethane	ND	U	0.165	5.00	ug/L	1	08/1/2011 18:41
1,1-Dichloroethene	ND	U	0.212	5.00	ug/L	1	08/1/2011 18:41
1,2-Dichloroethane	ND	U	0.167	1.00	ug/L	1	08/1/2011 18:41
cis-1,2-Dichloroethene	ND	U	0.136	5.00	ug/L	1	08/1/2011 18:41
trans-1,2-Dichloroethene	ND	U	0.223	5.00	ug/L	1	08/1/2011 18:41
1,2-Dichloropropane	ND	U	0.163	1.00	ug/L	1	08/1/2011 18:41
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1	08/1/2011 18:41
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1	08/1/2011 18:41
Ethyl Benzene	ND	U	0.0877	1.00	ug/L	1	08/1/2011 18:41
2-Hexanone	ND	U	0.728	50.0	ug/L	1	08/1/2011 18:41
Methyl iodide	ND	U	0.115	10.0	ug/L	1	08/1/2011 18:41
Methylene chloride	ND	U	0.152	1.00	ug/L	1	08/1/2011 18:41
4-Methyl-2-pentanone	ND	U	0.558	100	ug/L	1	08/1/2011 18:41
Styrene	ND	U	0.102	1.00	ug/L	1	08/1/2011 18:41
1,1,1,2-Tetrachloroethane	ND	U	0.104	5.00	ug/L	1	08/1/2011 18:41
1,1,2,2-Tetrachloroethane	ND	U	0.156	3.00	ug/L	1	08/1/2011 18:41
Tetrachloroethene	ND	U	0.155	1.00	ug/L	1	08/1/2011 18:41
Toluene	ND	U	0.133	1.00	ug/L	1	08/1/2011 18:41
Trichloroethene	ND	U	0.125	1.00	ug/L	1	08/1/2011 18:41
1,1,1-Trichloroethane	ND	U	0.123	1.00	ug/L	1	08/1/2011 18:41
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1	08/1/2011 18:41
Trichlorofluoromethane	ND	U	0.137	1.00	ug/L	1	08/1/2011 18:41

Print Date: 08/11/2011

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Results of **SW-1**

Client Sample ID: **SW-1**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974010-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 09:10
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1	08/1/2011 18:41
Vinyl acetate	ND	U	0.882	50.0	ug/L	1	08/1/2011 18:41
Vinyl chloride	ND	U	0.124	1.00	ug/L	1	08/1/2011 18:41
Xylene (total)	ND	U	0.182	5.00	ug/L	1	08/1/2011 18:41
Surrogates							
1,2-Dichloroethane-d4	102			64.0-140	%	1	08/1/2011 18:41
Toluene d8	101			82.0-117	%	1	08/1/2011 18:41
4-Bromofluorobenzene	97.0			85.0-115	%	1	08/1/2011 18:41

Batch Information

Analytical Batch: **VMS1427**
Analytical Method: **SW-846 8260B**
Instrument: **MSD4**
Analyst: **BWS**
Analytical Date/Time: **08/01/2011 18:41**

Prep Batch: **VXX1861**
Prep Method: **SW-846 5030B**
Prep Date/Time: **08/01/2011 10:14**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

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Results of **SW-1**

Client Sample ID: **SW-1**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974010-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 09:10
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6010C**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Arsenic	ND	U	3.69	10.0	ug/L	1	07/28/2011 17:24
Barium	**33.7**	J	0.394	100	ug/L	1	07/28/2011 17:24
Chromium	ND	U	1.47	10.0	ug/L	1	07/28/2011 17:24
Cobalt	ND	U	3.39	10.0	ug/L	1	07/28/2011 17:24
Copper	**2.60**	J	0.672	10.0	ug/L	1	07/28/2011 17:24
Lead	ND	U	5.41	10.0	ug/L	1	07/28/2011 17:24
Nickel	ND	U	3.06	50.0	ug/L	1	07/28/2011 17:24
Silver	**4.20**	J	1.05	10.0	ug/L	1	07/29/2011 11:07
Zinc	**5.98**	J	2.26	10.0	ug/L	1	07/28/2011 17:24

Batch Information

Analytical Batch: **MIP1178**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/28/2011 17:24**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MIP1179**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/29/2011 11:07**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Print Date: 08/11/2011

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Results of **SW-1**

Client Sample ID: **SW-1**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974010-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 09:10
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6020A**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Antimony	ND	U	0.437	6.00	ug/L	10	08/10/2011 16:25
Beryllium	ND	U	0.594	1.00#	ug/L	10	08/5/2011 13:49
Cadmium	ND	U	0.278	1.00#	ug/L	10	08/5/2011 13:49
Selenium	ND	U	0.824	10.0	ug/L	10	08/10/2011 16:25
Thallium	ND	U	0.297	5.50	ug/L	10	08/5/2011 13:49
Vanadium	**16.5**	J	0.661	25.0	ug/L	10	08/5/2011 13:49

Batch Information

Analytical Batch: **MMS1068**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/05/2011 13:49**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1071**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/10/2011 16:25**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Print Date: 08/11/2011

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Results of **SW-2**

Client Sample ID: **SW-2**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974011-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 09:25
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Acetone	**2.72**	J	0.864	100	ug/L	1	08/1/2011 19:06
Acrylonitrile	ND	U	3.04	200	ug/L	1	08/1/2011 19:06
Benzene	ND	U	0.113	1.00	ug/L	1	08/1/2011 19:06
Bromochloromethane	ND	U	0.211	3.00	ug/L	1	08/1/2011 19:06
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1	08/1/2011 19:06
Bromoform	ND	U	0.0974	3.00	ug/L	1	08/1/2011 19:06
Bromomethane	ND	U	0.237	10.0	ug/L	1	08/1/2011 19:06
2-Butanone	ND	U	0.723	100	ug/L	1	08/1/2011 19:06
Carbon disulfide	ND	U	0.106	100	ug/L	1	08/1/2011 19:06
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1	08/1/2011 19:06
Chlorobenzene	ND	U	0.116	3.00	ug/L	1	08/1/2011 19:06
Chloroethane	ND	U	0.311	10.0	ug/L	1	08/1/2011 19:06
Chloroform	ND	U	0.139	5.00	ug/L	1	08/1/2011 19:06
Chloromethane	ND	U	0.448	1.00	ug/L	1	08/1/2011 19:06
Dibromochloromethane	ND	U	0.134	3.00	ug/L	1	08/1/2011 19:06
1,2-Dibromo-3-chloropropane	ND	U	0.748	13.0	ug/L	1	08/1/2011 19:06
Dibromomethane	ND	U	0.168	10.0	ug/L	1	08/1/2011 19:06
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1	08/1/2011 19:06
1,2-Dichlorobenzene	ND	U	0.137	5.00	ug/L	1	08/1/2011 19:06
1,4-Dichlorobenzene	ND	U	0.130	1.00	ug/L	1	08/1/2011 19:06
trans-1,4-Dichloro-2-butene	ND	U	0.414	100	ug/L	1	08/1/2011 19:06
1,1-Dichloroethane	ND	U	0.165	5.00	ug/L	1	08/1/2011 19:06
1,1-Dichloroethene	ND	U	0.212	5.00	ug/L	1	08/1/2011 19:06
1,2-Dichloroethane	ND	U	0.167	1.00	ug/L	1	08/1/2011 19:06
cis-1,2-Dichloroethene	ND	U	0.136	5.00	ug/L	1	08/1/2011 19:06
trans-1,2-Dichloroethene	ND	U	0.223	5.00	ug/L	1	08/1/2011 19:06
1,2-Dichloropropane	ND	U	0.163	1.00	ug/L	1	08/1/2011 19:06
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1	08/1/2011 19:06
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1	08/1/2011 19:06
Ethyl Benzene	ND	U	0.0877	1.00	ug/L	1	08/1/2011 19:06
2-Hexanone	ND	U	0.728	50.0	ug/L	1	08/1/2011 19:06
Methyl iodide	ND	U	0.115	10.0	ug/L	1	08/1/2011 19:06
Methylene chloride	ND	U	0.152	1.00	ug/L	1	08/1/2011 19:06
4-Methyl-2-pentanone	ND	U	0.558	100	ug/L	1	08/1/2011 19:06
Styrene	ND	U	0.102	1.00	ug/L	1	08/1/2011 19:06
1,1,1,2-Tetrachloroethane	ND	U	0.104	5.00	ug/L	1	08/1/2011 19:06
1,1,2,2-Tetrachloroethane	ND	U	0.156	3.00	ug/L	1	08/1/2011 19:06
Tetrachloroethene	ND	U	0.155	1.00	ug/L	1	08/1/2011 19:06
Toluene	ND	U	0.133	1.00	ug/L	1	08/1/2011 19:06
Trichloroethene	ND	U	0.125	1.00	ug/L	1	08/1/2011 19:06
1,1,1-Trichloroethane	ND	U	0.123	1.00	ug/L	1	08/1/2011 19:06
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1	08/1/2011 19:06
Trichlorofluoromethane	ND	U	0.137	1.00	ug/L	1	08/1/2011 19:06

Print Date: 08/11/2011

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Results of **SW-2**

Client Sample ID: **SW-2**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974011-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 09:25
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1	08/1/2011 19:06
Vinyl acetate	ND	U	0.882	50.0	ug/L	1	08/1/2011 19:06
Vinyl chloride	ND	U	0.124	1.00	ug/L	1	08/1/2011 19:06
Xylene (total)	ND	U	0.182	5.00	ug/L	1	08/1/2011 19:06
Surrogates							
1,2-Dichloroethane-d4	103			64.0-140	%	1	08/1/2011 19:06
Toluene d8	100			82.0-117	%	1	08/1/2011 19:06
4-Bromofluorobenzene	98.0			85.0-115	%	1	08/1/2011 19:06

Batch Information

Analytical Batch: **VMS1427**
Analytical Method: **SW-846 8260B**
Instrument: **MSD4**
Analyst: **BWS**
Analytical Date/Time: **08/01/2011 19:06**

Prep Batch: **VXX1861**
Prep Method: **SW-846 5030B**
Prep Date/Time: **08/01/2011 10:14**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

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Results of **SW-2**

Client Sample ID: **SW-2**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974011-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 09:25
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6010C**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Arsenic	ND	U	3.69	10.0	ug/L	1	07/28/2011 17:31
Barium	**19.8**	J	0.394	100	ug/L	1	07/28/2011 17:31
Chromium	**2.29**	J	1.47	10.0	ug/L	1	07/28/2011 17:31
Cobalt	ND	U	3.39	10.0	ug/L	1	07/28/2011 17:31
Copper	**3.56**	J	0.672	10.0	ug/L	1	07/28/2011 17:31
Lead	ND	U	5.41	10.0	ug/L	1	07/28/2011 17:31
Nickel	ND	U	3.06	50.0	ug/L	1	07/28/2011 17:31
Silver	**5.05**	J	1.05	10.0	ug/L	1	07/29/2011 11:10
Zinc	**7.97**	J	2.26	10.0	ug/L	1	07/28/2011 17:31

Batch Information

Analytical Batch: **MIP1178**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/28/2011 17:31**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MIP1179**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/29/2011 11:10**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Print Date: 08/11/2011

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Results of **SW-2**

Client Sample ID: **SW-2**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974011-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 09:25
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6020A**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Antimony	ND	U	0.437	6.00	ug/L	10	08/10/2011 16:27
Beryllium	ND	U	0.594	1.00#	ug/L	10	08/5/2011 13:52
Cadmium	ND	U	0.278	1.00#	ug/L	10	08/5/2011 13:52
Selenium	ND	U	0.824	10.0	ug/L	10	08/10/2011 16:27
Thallium	ND	U	0.297	5.50	ug/L	10	08/5/2011 13:52
Vanadium	**21.8**	J	0.661	25.0	ug/L	10	08/5/2011 13:52

Batch Information

Analytical Batch: **MMS1068**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/05/2011 13:52**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1071**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/10/2011 16:27**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

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Results of **EB**

Client Sample ID: **EB**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974012-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 15:12
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Acetone	ND	U	0.864	100	ug/L	1	08/1/2011 12:45
Acrylonitrile	ND	U	3.04	200	ug/L	1	08/1/2011 12:45
Benzene	ND	U	0.113	1.00	ug/L	1	08/1/2011 12:45
Bromochloromethane	ND	U	0.211	3.00	ug/L	1	08/1/2011 12:45
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1	08/1/2011 12:45
Bromoform	ND	U	0.0974	3.00	ug/L	1	08/1/2011 12:45
Bromomethane	ND	U	0.237	10.0	ug/L	1	08/1/2011 12:45
2-Butanone	ND	U	0.723	100	ug/L	1	08/1/2011 12:45
Carbon disulfide	ND	U	0.106	100	ug/L	1	08/1/2011 12:45
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1	08/1/2011 12:45
Chlorobenzene	ND	U	0.116	3.00	ug/L	1	08/1/2011 12:45
Chloroethane	ND	U	0.311	10.0	ug/L	1	08/1/2011 12:45
Chloroform	ND	U	0.139	5.00	ug/L	1	08/1/2011 12:45
Chloromethane	ND	U	0.448	1.00	ug/L	1	08/1/2011 12:45
Dibromochloromethane	ND	U	0.134	3.00	ug/L	1	08/1/2011 12:45
1,2-Dibromo-3-chloropropane	ND	U	0.748	13.0	ug/L	1	08/1/2011 12:45
Dibromomethane	ND	U	0.168	10.0	ug/L	1	08/1/2011 12:45
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1	08/1/2011 12:45
1,2-Dichlorobenzene	ND	U	0.137	5.00	ug/L	1	08/1/2011 12:45
1,4-Dichlorobenzene	ND	U	0.130	1.00	ug/L	1	08/1/2011 12:45
trans-1,4-Dichloro-2-butene	ND	U	0.414	100	ug/L	1	08/1/2011 12:45
1,1-Dichloroethane	ND	U	0.165	5.00	ug/L	1	08/1/2011 12:45
1,1-Dichloroethene	ND	U	0.212	5.00	ug/L	1	08/1/2011 12:45
1,2-Dichloroethane	ND	U	0.167	1.00	ug/L	1	08/1/2011 12:45
cis-1,2-Dichloroethene	ND	U	0.136	5.00	ug/L	1	08/1/2011 12:45
trans-1,2-Dichloroethene	ND	U	0.223	5.00	ug/L	1	08/1/2011 12:45
1,2-Dichloropropane	ND	U	0.163	1.00	ug/L	1	08/1/2011 12:45
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1	08/1/2011 12:45
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1	08/1/2011 12:45
Ethyl Benzene	ND	U	0.0877	1.00	ug/L	1	08/1/2011 12:45
2-Hexanone	ND	U	0.728	50.0	ug/L	1	08/1/2011 12:45
Methyl iodide	ND	U	0.115	10.0	ug/L	1	08/1/2011 12:45
Methylene chloride	**0.270**	J	0.152	1.00	ug/L	1	08/1/2011 12:45
4-Methyl-2-pentanone	ND	U	0.558	100	ug/L	1	08/1/2011 12:45
Styrene	ND	U	0.102	1.00	ug/L	1	08/1/2011 12:45
1,1,1,2-Tetrachloroethane	ND	U	0.104	5.00	ug/L	1	08/1/2011 12:45
1,1,2,2-Tetrachloroethane	ND	U	0.156	3.00	ug/L	1	08/1/2011 12:45
Tetrachloroethene	ND	U	0.155	1.00	ug/L	1	08/1/2011 12:45
Toluene	ND	U	0.133	1.00	ug/L	1	08/1/2011 12:45
Trichloroethene	ND	U	0.125	1.00	ug/L	1	08/1/2011 12:45
1,1,1-Trichloroethane	ND	U	0.123	1.00	ug/L	1	08/1/2011 12:45
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1	08/1/2011 12:45
Trichlorofluoromethane	ND	U	0.137	1.00	ug/L	1	08/1/2011 12:45

Print Date: 08/11/2011

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Results of **EB**

Client Sample ID: **EB**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974012-A
Lab Project ID: 31101974

Collection Date: 07/26/2011 15:12
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1	08/1/2011 12:45
Vinyl acetate	ND	U	0.882	50.0	ug/L	1	08/1/2011 12:45
Vinyl chloride	ND	U	0.124	1.00	ug/L	1	08/1/2011 12:45
Xylene (total)	ND	U	0.182	5.00	ug/L	1	08/1/2011 12:45
Surrogates							
1,2-Dichloroethane-d4	102			64.0-140	%	1	08/1/2011 12:45
Toluene d8	101			82.0-117	%	1	08/1/2011 12:45
4-Bromofluorobenzene	97.0			85.0-115	%	1	08/1/2011 12:45

Batch Information

Analytical Batch: **VMS1427**
Analytical Method: **SW-846 8260B**
Instrument: **MSD4**
Analyst: **BWS**
Analytical Date/Time: **08/01/2011 12:45**

Prep Batch: **VXX1861**
Prep Method: **SW-846 5030B**
Prep Date/Time: **08/01/2011 10:14**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

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Results of **EB**

Client Sample ID: **EB**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974012-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 15:12
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6010C**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Arsenic	ND	U	3.69	10.0	ug/L	1	07/28/2011 17:38
Barium	ND	U	0.394	100	ug/L	1	07/28/2011 17:38
Chromium	ND	U	1.47	10.0	ug/L	1	07/28/2011 17:38
Cobalt	ND	U	3.39	10.0	ug/L	1	07/28/2011 17:38
Copper	ND	U	0.672	10.0	ug/L	1	07/28/2011 17:38
Lead	ND	U	5.41	10.0	ug/L	1	07/28/2011 17:38
Nickel	ND	U	3.06	50.0	ug/L	1	07/28/2011 17:38
Silver	**4.30**	J	1.05	10.0	ug/L	1	07/29/2011 11:13
Zinc	ND	U	2.26	10.0	ug/L	1	07/28/2011 17:38

Batch Information

Analytical Batch: **MIP1178**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/28/2011 17:38**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MIP1179**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/29/2011 11:13**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Print Date: 08/11/2011

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Results of **EB**

Client Sample ID: **EB**
Client Project ID: **Iredell Closed**
Lab Sample ID: 31101974012-D
Lab Project ID: 31101974

Collection Date: 07/26/2011 15:12
Received Date: 07/27/2011 16:20
Matrix: Water

Results by **SW-846 6020A**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF	Date Analyzed
Antimony	ND	U	0.437	6.00	ug/L	10	08/10/2011 16:29
Beryllium	ND	U	0.594	1.00#	ug/L	10	08/5/2011 13:55
Cadmium	ND	U	0.278	1.00#	ug/L	10	08/5/2011 13:55
Selenium	ND	U	0.824	10.0	ug/L	10	08/10/2011 16:29
Thallium	ND	U	0.297	5.50	ug/L	10	08/5/2011 13:55
Vanadium	**17.5**	J	0.661	25.0	ug/L	10	08/5/2011 13:55

Batch Information

Analytical Batch: **MMS1068**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/05/2011 13:55**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Analytical Batch: **MMS1071**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/10/2011 16:29**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Print Date: 08/11/2011

N.C. Certification # 481

Batch Summary

Analytical Method: SW-846 8260B

Prep Method: SW-846 5030B
Prep Batch: VXX1861
Prep Date: 08/01/2011 09:00

Client Sample ID	Lab Sample ID	Analysis Date	Instrument	Analyst
LCS for HBN 9630 [VXX/1861]	33204	08/01/2011 10:39	MSD4	BWS
LCSD for HBN 9630 [VXX/1861]	33205	08/01/2011 11:04	MSD4	BWS
MB for HBN 9630 [VXX/1861]	33206	08/01/2011 12:20	MSD4	BWS
EB	31101974012	08/01/2011 12:45	MSD4	BWS
MW-1	31101974001	08/01/2011 14:52	MSD4	BWS
MW-2	31101974002	08/01/2011 15:17	MSD4	BWS
MW-3	31101974003	08/01/2011 15:43	MSD4	BWS
MW-3R	31101974004	08/01/2011 16:08	MSD4	BWS
MW-4	31101974005	08/01/2011 16:34	MSD4	BWS
MW-6	31101974006	08/01/2011 16:59	MSD4	BWS
MW-6R	31101974007	08/01/2011 17:24	MSD4	BWS
MW-7S	31101974008	08/01/2011 17:50	MSD4	BWS
MW-7D	31101974009	08/01/2011 18:15	MSD4	BWS
SW-1	31101974010	08/01/2011 18:41	MSD4	BWS
SW-2	31101974011	08/01/2011 19:06	MSD4	BWS
MW-6R(32688MS)	33321	08/01/2011 21:13	MSD4	BWS
MW-6R(32688MSD)	33322	08/01/2011 21:38	MSD4	BWS

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Method Blank Summary

Blank ID: MB for HBN 9630 [VXX/1861] Matrix: Water
Blank Lab ID: 33206
QC for Samples:
31101974001, 31101974002, 31101974003, 31101974004, 31101974005, 31101974006, 31101974007, 31101974008, 31101974009, 31101974010, 31101974011, 31101974012,

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Chloromethane	ND	U	0.448	1.00	ug/L	1
Vinyl chloride	ND	U	0.124	1.00	ug/L	1
Bromomethane	ND	U	0.237	1.00	ug/L	1
Chloroethane	ND	U	0.311	1.00	ug/L	1
Trichlorofluoromethane	ND	U	0.137	1.00	ug/L	1
1,1-Dichloroethene	ND	U	0.212	1.00	ug/L	1
Acetone	ND	U	0.864	25.0	ug/L	1
Methylene chloride	ND	U	0.152	5.00	ug/L	1
trans-1,2-Dichloroethene	ND	U	0.223	1.00	ug/L	1
Acrylonitrile	ND	U	3.04	25.0	ug/L	1
1,1-Dichloroethane	ND	U	0.165	1.00	ug/L	1
cis-1,2-Dichloroethene	ND	U	0.136	1.00	ug/L	1
2-Butanone	ND	U	0.723	25.0	ug/L	1
Bromochloromethane	ND	U	0.211	1.00	ug/L	1
Chloroform	ND	U	0.139	1.00	ug/L	1
1,1,1-Trichloroethane	ND	U	0.123	1.00	ug/L	1
Carbon tetrachloride	ND	U	0.101	1.00	ug/L	1
Benzene	ND	U	0.113	1.00	ug/L	1
1,2-Dichloroethane	ND	U	0.167	1.00	ug/L	1
Trichloroethene	ND	U	0.125	1.00	ug/L	1
1,2-Dichloropropane	ND	U	0.163	1.00	ug/L	1
Dibromomethane	ND	U	0.168	1.00	ug/L	1
Bromodichloromethane	ND	U	0.110	1.00	ug/L	1
cis-1,3-Dichloropropene	ND	U	0.0767	1.00	ug/L	1
4-Methyl-2-pentanone	ND	U	0.558	5.00	ug/L	1
Toluene	ND	U	0.133	1.00	ug/L	1
Methyl iodide	ND	U	0.115	1.00	ug/L	1
trans-1,3-Dichloropropene	ND	U	0.0862	1.00	ug/L	1
Vinyl acetate	ND	U	0.882	2.00	ug/L	1
Carbon disulfide	ND	U	0.106	1.00	ug/L	1
1,1,2-Trichloroethane	ND	U	0.126	1.00	ug/L	1
Tetrachloroethene	ND	U	0.155	1.00	ug/L	1
2-Hexanone	ND	U	0.728	5.00	ug/L	1
Dibromochloromethane	ND	U	0.134	1.00	ug/L	1
1,2-Dibromoethane	ND	U	0.120	1.00	ug/L	1
Chlorobenzene	ND	U	0.116	1.00	ug/L	1
1,1,1,2-Tetrachloroethane	ND	U	0.104	1.00	ug/L	1
Bromoform	ND	U	0.0974	1.00	ug/L	1
1,1,2,2-Tetrachloroethane	ND	U	0.156	1.00	ug/L	1
1,2,3-Trichloropropane	ND	U	0.212	1.00	ug/L	1
Ethyl Benzene	ND	U	0.0877	1.00	ug/L	1

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Method Blank Summary

Blank ID: MB for HBN 9630 [VXX/1861] Matrix: Water
Blank Lab ID: 33206
QC for Samples:
31101974001, 31101974002, 31101974003, 31101974004, 31101974005, 31101974006, 31101974007, 31101974008, 31101974009, 31101974010, 31101974011, 31101974012,

Results by **SW-846 8260B**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Styrene	ND	U	0.102	1.00	ug/L	1
Xylene (total)	ND	U	0.182	2.00	ug/L	1
1,4-Dichlorobenzene	ND	U	0.130	1.00	ug/L	1
1,2-Dichlorobenzene	ND	U	0.137	1.00	ug/L	1
1,2-Dibromo-3-chloropropane	ND	U	0.748	5.00	ug/L	1
trans-1,4-Dichloro-2-butene	ND	U	0.414	5.00	ug/L	1
Surrogates						
1,2-Dichloroethane-d4	99.0			64.0-140	%	1
Toluene d8	98.0			82.0-117	%	1
4-Bromofluorobenzene	96.0			85.0-115	%	1

Batch Information

Analytical Batch: **VMS1427**
Analytical Method: **SW-846 8260B**
Instrument: **MSD4**
Analyst: **BWS**
Analytical Date/Time: **08/01/2011 12:20**

Prep Batch: **VXX1861**
Prep Method: **SW-846 5030B**
Prep Date/Time: **08/01/2011 09:00**
Prep Initial Wt./Vol.: **40 mL**
Prep Extract Vol: **40 mL**

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Blank Spike Summary

Blank Spike ID: LCS for HBN 9630 [VXX/1861]
Blank Spike Lab ID: 33204
Date Analyzed: 08/01/2011 10:39

Spike Duplicate ID: LCSD for HBN 9630 [VXX/1861]
Spike Duplicate Lab ID: 33205
Date Analyzed: 08/01/2011 11:04
Matrix: Water

QC for Samples: 31101974001, 31101974002, 31101974003, 31101974004, 31101974005, 31101974006, 31101974007, 31101974008, 31101974009, 31101974010, 31101974011, 31101974012,

Results by **SW-846 8260B**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Chloromethane	5.00	5.34	107	5.00	4.76	95	57.0-132	11	30.00
Vinyl chloride	5.00	5.31	106	5.00	4.95	99	59.0-138	7.0	30.00
Bromomethane	5.00	4.72	94	5.00	4.99	100	51.0-134	5.6	30.00
Chloroethane	5.00	6.26	125	5.00	5.70	114	64.0-145	9.4	30.00
Trichlorofluoromethane	5.00	6.29	126	5.00	5.92	118	64.0-133	6.1	30.00
1,1-Dichloroethene	5.00	5.39	108	5.00	5.23	105	71.0-128	3.0	30.00
Acetone	25.0	18.1	72	25.0	16.3	65	52.0-140	10	30.00
Methylene chloride	5.00	4.98	100	5.00	4.80	96	70.0-113	3.7	30.00
trans-1,2-Dichloroethene	5.00	5.61	112	5.00	5.14	103	57.0-138	8.7	30.00
Acrylonitrile	125	140	112	125	127	102	55.0-141	9.7	30.00
1,1-Dichloroethane	5.00	5.41	108	5.00	5.19	104	68.0-133	4.2	30.00
cis-1,2-Dichloroethene	5.00	5.33	107	5.00	5.15	103	73.0-128	3.4	30.00
2-Butanone	25.0	19.1	76	25.0	18.2	73	58.0-134	4.8	30.00
Bromochloromethane	5.00	5.50	110	5.00	5.20	104	73.0-128	5.6	30.00
Chloroform	5.00	5.74	115	5.00	5.47	109	74.0-124	4.8	30.00
1,1,1-Trichloroethane	5.00	5.67	113	5.00	5.32	106	76.0-119	6.4	30.00
Carbon tetrachloride	5.00	6.04	**121***	5.00	5.65	113	75.0-120	6.7	30.00
Benzene	5.00	5.36	107	5.00	5.00	100	76.0-124	6.9	30.00
1,2-Dichloroethane	5.00	5.32	106	5.00	5.09	102	76.0-119	4.4	30.00
Trichloroethene	5.00	5.02	100	5.00	4.81	96	74.0-121	4.3	30.00
1,2-Dichloropropane	5.00	5.27	105	5.00	4.95	99	74.0-124	6.3	30.00
Dibromomethane	5.00	5.17	103	5.00	4.92	98	71.0-128	5.0	30.00
Bromodichloromethane	5.00	5.37	107	5.00	5.05	101	72.0-120	6.1	30.00
cis-1,3-Dichloropropene	5.00	5.54	111	5.00	4.87	97	73.0-122	13	30.00
4-Methyl-2-pentanone	25.0	24.1	97	25.0	23.0	92	65.0-124	4.7	30.00
Toluene	5.00	5.22	104	5.00	4.95	99	75.0-123	5.3	30.00
Methyl iodide	5.00	3.84	77	5.00	3.77	75	55.0-123	1.8	30.00
trans-1,3-Dichloropropene	5.00	5.63	113	5.00	5.02	100	70.0-125	11	30.00
Vinyl acetate	12.5	10.2	81	12.5	9.59	77	40.0-141	6.2	30.00
Carbon disulfide	5.00	4.83	97	5.00	4.41	88	65.0-132	9.1	30.00
1,1,2-Trichloroethane	5.00	5.23	105	5.00	4.81	96	76.0-121	8.4	30.00
Tetrachloroethene	5.00	5.16	103	5.00	4.85	97	59.0-112	6.2	30.00
2-Hexanone	25.0	20.4	82	25.0	19.1	76	56.0-133	6.6	30.00
Dibromochloromethane	5.00	6.05	121	5.00	5.47	109	67.0-122	10	30.00

Print Date: 08/11/2011

N.C. Certification # 481

Blank Spike Summary

Blank Spike ID: LCS for HBN 9630 [VXX/1861]
Blank Spike Lab ID: 33204
Date Analyzed: 08/01/2011 10:39

Spike Duplicate ID: LCSD for HBN 9630 [VXX/1861]
Spike Duplicate Lab ID: 33205
Date Analyzed: 08/01/2011 11:04
Matrix: Water

QC for Samples: 31101974001, 31101974002, 31101974003, 31101974004, 31101974005, 31101974006, 31101974007, 31101974008, 31101974009, 31101974010, 31101974011, 31101974012,

Results by **SW-846 8260B**

	Blank Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
1,2-Dibromoethane	5.00	5.04	101	5.00	4.89	98	74.0-119	3.0	30.00
Chlorobenzene	5.00	5.27	105	5.00	5.08	102	74.0-120	3.7	30.00
1,1,1,2-Tetrachloroethane	5.00	5.49	110	5.00	5.21	104	73.0-119	5.2	30.00
Bromoform	5.00	5.37	107	5.00	5.03	101	62.0-127	6.5	30.00
1,1,2,2-Tetrachloroethane	5.00	5.08	102	5.00	4.91	98	68.0-129	3.4	30.00
1,2,3-Trichloropropane	5.00	4.85	97	5.00	4.92	98	67.0-126	1.4	30.00
Ethyl Benzene	5.00	5.38	108	5.00	4.98	100	76.0-123	7.7	30.00
Styrene	5.00	5.28	106	5.00	5.03	101	76.0-121	4.8	30.00
1,4-Dichlorobenzene	5.00	5.35	107	5.00	5.20	104	70.0-125	2.8	30.00
1,2-Dichlorobenzene	5.00	5.37	107	5.00	5.04	101	76.0-118	6.3	30.00
1,2-Dibromo-3-chloropropane	30.0	32.3	108	30.0	29.6	99	62.0-130	8.7	30.00
trans-1,4-Dichloro-2-butene	25.0	27.0	108	25.0	24.9	99	61.0-132	8.1	30.00
Surrogates									
1,2-Dichloroethane-d4			101			99	64.0-140		
Toluene d8			100			100	82.0-117		
4-Bromofluorobenzene			99			99	85.0-115		

Batch Information

Analytical Batch: **VMS1427**
Analytical Method: **SW-846 8260B**
Instrument: **MSD4**
Analyst: **BWS**

Prep Batch: **VXX1861**
Prep Method: **SW-846 5030B**
Prep Date/Time: **08/01/2011 09:00**
Spike Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**
Dupe Init Wt./Vol.: **40 mL** Extract Vol: **40 mL**

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Batch Summary

Analytical Method: SW-846 6010C

Prep Method:
Prep Batch: MIP1178
Prep Date:

Client Sample ID	Lab Sample ID	Analysis Date	Instrument	Analyst
ICSA for HBN 9330 (MIP/1178)	32964	07/28/2011 14:47	ICP1	NTM
ICSB for HBN 9330 (MIP/1178)	32965	07/28/2011 14:54	ICP1	NTM
CBV for HBN 9330 (MIP/1178)	32966	07/28/2011 15:15	ICP1	NTM
CBV for HBN 9330 (MIP/1178)	32967	07/28/2011 16:36	ICP1	NTM
CBV for HBN 9330 (MIP/1178)	32968	07/28/2011 17:58	ICP1	NTM
ICSA for HBN 9330 (MIP/1178)	32969	07/28/2011 18:12	ICP1	NTM
ICSB for HBN 9330 (MIP/1178)	32970	07/28/2011 18:18	ICP1	NTM

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Batch Summary

Analytical Method: SW-846 6010C

Prep Method:
Prep Batch: MIP1179
Prep Date:

Client Sample ID	Lab Sample ID	Analysis Date	Instrument	Analyst
ICSA for HBN 9431 (MIP/1179)	33111	07/29/2011 10:01	ICP1	NTM
ICSB for HBN 9431 (MIP/1179)	33112	07/29/2011 10:04	ICP1	NTM
CBV for HBN 9431 (MIP/1179)	33113	07/29/2011 10:12	ICP1	NTM
CBV for HBN 9431 (MIP/1179)	33114	07/29/2011 10:47	ICP1	NTM
CBV for HBN 9431 (MIP/1179)	33115	07/29/2011 11:22	ICP1	NTM
ICSA for HBN 9431 (MIP/1179)	33116	07/29/2011 11:28	ICP1	NTM
ICSB for HBN 9431 (MIP/1179)	33117	07/29/2011 11:31	ICP1	NTM

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Batch Summary

Analytical Method: SW-846 6020A

Prep Method:
Prep Batch: MMS1068
Prep Date:

Client Sample ID	Lab Sample ID	Analysis Date	Instrument	Analyst
ICSA for HBN 9791 (MMS/1068)	33996	08/05/2011 12:44	ICPMS2	PSW
ICSB for HBN 9791 (MMS/1068)	33997	08/05/2011 12:47	ICPMS2	PSW
CBV for HBN 9791 (MMS/1068)	33998	08/05/2011 12:57	ICPMS2	PSW
CBV for HBN 9791 (MMS/1068)	33999	08/05/2011 13:33	ICPMS2	PSW
CBV for HBN 9791 (MMS/1068)	34000	08/05/2011 14:14	ICPMS2	PSW
ICSA for HBN 9791 (MMS/1068)	34001	08/05/2011 14:17	ICPMS2	PSW
ICSB for HBN 9791 (MMS/1068)	34002	08/05/2011 14:20	ICPMS2	PSW

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Batch Summary

Analytical Method: SW-846 6020A

Prep Method:
Prep Batch: MMS1070
Prep Date:

Client Sample ID	Lab Sample ID	Analysis Date	Instrument	Analyst
ICSA for HBN 10004 (MMS/1070)	34610	08/10/2011 13:44	ICPMS2	PSW
ICSB for HBN 10004 (MMS/1070)	34611	08/10/2011 13:47	ICPMS2	PSW
CBV for HBN 10004 (MMS/1070)	34612	08/10/2011 13:54	ICPMS2	PSW
CBV for HBN 10004 (MMS/1070)	34613	08/10/2011 14:28	ICPMS2	PSW
ICSA for HBN 10004 (MMS/1070)	34615	08/10/2011 14:59	ICPMS2	PSW
ICSB for HBN 10004 (MMS/1070)	34616	08/10/2011 15:02	ICPMS2	PSW

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Batch Summary

Analytical Method: SW-846 6020A

Prep Method:
Prep Batch: MMS1071
Prep Date:

Client Sample ID	Lab Sample ID	Analysis Date	Instrument	Analyst
ICSA for HBN 10008 (MMS/1071)	34645	08/10/2011 15:36	ICPMS2	PSW
ICSB for HBN 10008 (MMS/1071)	34646	08/10/2011 15:39	ICPMS2	PSW
CBV for HBN 10008 (MMS/1071)	34647	08/10/2011 15:46	ICPMS2	PSW
CBV for HBN 10008 (MMS/1071)	34648	08/10/2011 16:13	ICPMS2	PSW
CBV for HBN 10008 (MMS/1071)	34649	08/10/2011 16:41	ICPMS2	PSW
ICSA for HBN 10008 (MMS/1071)	34650	08/10/2011 16:43	ICPMS2	PSW
ICSB for HBN 10008 (MMS/1071)	34651	08/10/2011 16:45	ICPMS2	PSW

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Batch Summary

Analytical Method: SW-846 6010C

Prep Method: SW-846 3010A
Prep Batch: MXX1391
Prep Date: 07/28/2011 08:45

Client Sample ID	Lab Sample ID	Analysis Date	Instrument	Analyst
MB for HBN 9327 [MXX/1391]	32806	07/28/2011 15:21	ICP1	NTM
LCS for HBN 9327 [MXX/1391]	32807	07/28/2011 15:28	ICP1	NTM
LCSD for HBN 9327 [MXX/1391]	32808	07/28/2011 15:35	ICP1	NTM
MW-1	31101974001	07/28/2011 15:42	ICP1	NTM
MW-1(32791MS)	32809	07/28/2011 15:49	ICP1	NTM
MW-1(32791MSD)	32810	07/28/2011 15:56	ICP1	NTM
MW-2	31101974002	07/28/2011 16:16	ICP1	NTM
MW-3	31101974003	07/28/2011 16:23	ICP1	NTM
MW-3R	31101974004	07/28/2011 16:43	ICP1	NTM
MW-4	31101974005	07/28/2011 16:50	ICP1	NTM
MW-6	31101974006	07/28/2011 16:57	ICP1	NTM
MW-6R	31101974007	07/28/2011 17:04	ICP1	NTM
MW-7S	31101974008	07/28/2011 17:10	ICP1	NTM
MW-7D	31101974009	07/28/2011 17:17	ICP1	NTM
SW-1	31101974010	07/28/2011 17:24	ICP1	NTM
SW-2	31101974011	07/28/2011 17:31	ICP1	NTM
EB	31101974012	07/28/2011 17:38	ICP1	NTM
EB(32802DUP)	32811	07/28/2011 17:44	ICP1	NTM
EB(32802DUP)	32811	07/28/2011 18:05	ICP1	NTM
MB for HBN 9327 [MXX/1391]	32806	07/29/2011 10:15	ICP1	NTM
LCS for HBN 9327 [MXX/1391]	32807	07/29/2011 10:18	ICP1	NTM
LCSD for HBN 9327 [MXX/1391]	32808	07/29/2011 10:21	ICP1	NTM
MW-1	31101974001	07/29/2011 10:24	ICP1	NTM
MW-1(32791MS)	32809	07/29/2011 10:27	ICP1	NTM
MW-1(32791MSD)	32810	07/29/2011 10:30	ICP1	NTM
MW-2	31101974002	07/29/2011 10:38	ICP1	NTM
MW-3	31101974003	07/29/2011 10:41	ICP1	NTM
MW-3R	31101974004	07/29/2011 10:50	ICP1	NTM
MW-4	31101974005	07/29/2011 10:53	ICP1	NTM
MW-6	31101974006	07/29/2011 10:56	ICP1	NTM
MW-6R	31101974007	07/29/2011 10:59	ICP1	NTM
MW-7S	31101974008	07/29/2011 11:02	ICP1	NTM
MW-7D	31101974009	07/29/2011 11:04	ICP1	NTM
SW-1	31101974010	07/29/2011 11:07	ICP1	NTM
SW-2	31101974011	07/29/2011 11:10	ICP1	NTM
EB	31101974012	07/29/2011 11:13	ICP1	NTM
EB(32802DUP)	32811	07/29/2011 11:16	ICP1	NTM

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Method Blank Summary

Blank ID: MB for HBN 9327 [MXX/1391]
Matrix: Water
Blank Lab ID: 32806
QC for Samples:
31101974001, 31101974002, 31101974003, 31101974004, 31101974005, 31101974006, 31101974007, 31101974008, 31101974009, 31101974010, 31101974011, 31101974012,

Results by **SW-846 6010C**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Arsenic	ND	U	0.00369	0.0100	mg/L	1
Zinc	ND	U	0.00226	0.0200	mg/L	1
Lead	ND	U	0.00541	0.0100	mg/L	1
Cobalt	ND	U	0.00339	0.0100	mg/L	1
Nickel	ND	U	0.00306	0.0100	mg/L	1
Barium	ND	U	0.000394	0.100	mg/L	1
Chromium	ND	U	0.00147	0.0100	mg/L	1
Copper	ND	U	0.000672	0.0100	mg/L	1
Silver	**0.00486**	J	0.00105	0.0100	mg/L	1

Batch Information

Analytical Batch: **MIP1179**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**
Analytical Date/Time: **07/29/2011 10:15**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

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Blank Spike Summary

Blank Spike ID: LCS for HBN 9327 [MXX/1391]
Blank Spike Lab ID: 32807
Date Analyzed: 07/28/2011 15:28

Spike Duplicate ID: LCSD for HBN 9327 [MXX/1391]
Spike Duplicate Lab ID: 32808
Date Analyzed: 07/28/2011 15:35
Matrix: Water

QC for Samples: 31101974001, 31101974002, 31101974003, 31101974004, 31101974005, 31101974006, 31101974007, 31101974008, 31101974009, 31101974010, 31101974011, 31101974012,

Results by **SW-846 6010C**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Arsenic	0.400	0.417	104	0.400	0.416	104	80.0-120	0.24	20.00
Zinc	0.400	0.383	96	0.400	0.383	96	80.0-120	0.0	20.00
Lead	0.400	0.389	97	0.400	0.390	97	80.0-120	0.26	20.00
Cobalt	0.400	0.397	99	0.400	0.402	100	80.0-120	1.3	20.00
Nickel	0.400	0.394	99	0.400	0.393	98	80.0-120	0.25	20.00
Barium	2.00	1.96	98	2.00	1.95	98	80.0-120	0.51	20.00
Chromium	0.400	0.393	98	0.400	0.396	99	80.0-120	0.76	20.00
Copper	0.400	0.398	100	0.400	0.399	100	80.0-120	0.25	20.00
Silver	0.400	0.387	97	0.400	0.392	98	80.0-120	1.3	20.00

Batch Information

Analytical Batch: **MIP1179**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Spike Init Wt./Vol.: **50 mL** Extract Vol: **50 mL**
Dupe Init Wt./Vol.: **50 mL** Extract Vol: **50 mL**

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Matrix Spike Summary

Original Sample ID: 31101974001 (MW-1) — Analysis Date: 07/28/2011 15:42
MS Sample ID: 32809 — Analysis Date: 07/28/2011 15:49
MSD Sample ID: 32810 — Analysis Date: 07/28/2011 15:56
Matrix: Water

QC for Samples: 31101974001, 31101974002, 31101974003, 31101974004, 31101974005, 31101974006, 31101974007, 31101974008, 31101974009, 31101974010, 31101974011, 31101974012,

Results by **SW-846 6010C**

		Matrix Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Arsenic	ND	0.400	0.409	102	0.400	0.405	101	75.0-125	0.98	20.00
Barium	71.4	2.00	2.01	97	2.00	2.00	96	75.0-125	0.50	20.00
Chromium	ND	0.400	0.385	96	0.400	0.382	96	75.0-125	0.78	20.00
Cobalt	4.68	0.400	0.394	98	0.400	0.395	99	75.0-125	0.25	20.00
Copper	1.81	0.400	0.394	99	0.400	0.392	98	75.0-125	0.51	20.00
Lead	ND	0.400	0.377	94	0.400	0.374	94	75.0-125	0.80	20.00
Nickel	4.24	0.400	0.391	98	0.400	0.390	97	75.0-125	0.26	20.00
Silver	4.69	0.400	0.392	98	0.400	0.384	96	75.0-125	2.1	20.00
Zinc	23.2	0.400	0.395	93	0.400	0.395	93	75.0-125	0.0	20.00

Batch Information

Analytical Batch: **MIP1178**
Analytical Method: **SW-846 6010C**
Instrument: **ICP1**
Analyst: **NTM**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
MS Init Wt./Vol.: **50 mL** Extract Vol.: **50 mL**
MSD Init Wt./Vol.: **50 mL** Extract Vol.: **50 mL**

Print Date: 08/11/2011 — N.C. Certification # 481

Duplicate Sample Summary

Original Sample ID: 31101974012-D
Duplicate Sample ID: 32811

Analysis Date: 07/28/2011 17:38
Analysis Date: 07/28/2011 17:44
Matrix: Water

QC for Samples: 31101974001, 31101974002, 31101974003, 31101974004, 31101974005, 31101974006, 31101974007, 31101974008, 31101974009, 31101974010, 31101974011, 31101974012,

Results by **SW-846 6010C**

PARAMETER	Original (ug/L)	Duplicate (mg/L)	RPD (%)	RPD CL
Arsenic	ND	ND	-16	20.00
Barium	ND	ND	-7.3	20.00
Chromium	ND	ND	**83***	20.00
Cobalt	ND	ND	-12	20.00
Copper	ND	ND	**128***	20.00
Lead	ND	ND	**47***	20.00
Nickel	ND	ND	-111	20.00
Silver	4.30	0.00431	0.23	20.00
Silver	4.30	ND	14	20.00
Zinc	ND	ND	-44	20.00

Batch Information

Analytical Batch: MIP1178
Analytical Method: SW-846 6010C
Instrument: ICP1
Analyst: NTM

Prep Batch: MXX1391
Prep Method: SW-846 3010A
Prep Date/Time: 07/28/2011 08:45

Print Date: 08/11/2011

N.C. Certification # 481

Batch Summary

Analytical Method: SW-846 6020A

Prep Method: SW-846 3010A
Prep Batch: MXX1391
Prep Date: 07/28/2011 08:45

Client Sample ID	Lab Sample ID	Analysis Date	Instrument	Analyst
MB for HBN 9327 [MXX/1391]	32806	08/05/2011 13:00	ICPMS2	PSW
LCS for HBN 9327 [MXX/1391]	32807	08/05/2011 13:03	ICPMS2	PSW
LCSD for HBN 9327 [MXX/1391]	32808	08/05/2011 13:06	ICPMS2	PSW
MW-1	31101974001	08/05/2011 13:09	ICPMS2	PSW
MW-1(32791MS)	32809	08/05/2011 13:12	ICPMS2	PSW
MW-1(32791MSD)	32810	08/05/2011 13:15	ICPMS2	PSW
MW-2	31101974002	08/05/2011 13:18	ICPMS2	PSW
MW-3	31101974003	08/05/2011 13:21	ICPMS2	PSW
MW-3R	31101974004	08/05/2011 13:24	ICPMS2	PSW
MW-4	31101974005	08/05/2011 13:27	ICPMS2	PSW
MW-6	31101974006	08/05/2011 13:36	ICPMS2	PSW
MW-6R	31101974007	08/05/2011 13:39	ICPMS2	PSW
MW-7S	31101974008	08/05/2011 13:43	ICPMS2	PSW
MW-7D	31101974009	08/05/2011 13:46	ICPMS2	PSW
SW-1	31101974010	08/05/2011 13:49	ICPMS2	PSW
SW-2	31101974011	08/05/2011 13:52	ICPMS2	PSW
EB	31101974012	08/05/2011 13:55	ICPMS2	PSW
EB(32802DUP)	32811	08/05/2011 13:58	ICPMS2	PSW
MW-1	31101974001	08/10/2011 14:04	ICPMS2	PSW
MW-2	31101974002	08/10/2011 14:11	ICPMS2	PSW
MW-3	31101974003	08/10/2011 14:14	ICPMS2	PSW
MW-3R	31101974004	08/10/2011 14:16	ICPMS2	PSW
MW-4	31101974005	08/10/2011 14:19	ICPMS2	PSW
MW-1	31101974001	08/10/2011 15:55	ICPMS2	PSW
MW-2	31101974002	08/10/2011 16:02	ICPMS2	PSW
MW-3	31101974003	08/10/2011 16:04	ICPMS2	PSW
MW-3R	31101974004	08/10/2011 16:06	ICPMS2	PSW
MW-4	31101974005	08/10/2011 16:09	ICPMS2	PSW
MW-6	31101974006	08/10/2011 16:16	ICPMS2	PSW
MW-6R	31101974007	08/10/2011 16:18	ICPMS2	PSW
MW-7S	31101974008	08/10/2011 16:20	ICPMS2	PSW
MW-7D	31101974009	08/10/2011 16:22	ICPMS2	PSW
SW-1	31101974010	08/10/2011 16:25	ICPMS2	PSW
SW-2	31101974011	08/10/2011 16:27	ICPMS2	PSW
EB	31101974012	08/10/2011 16:29	ICPMS2	PSW

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Method Blank Summary

Blank ID: MB for HBN 9327 [MXX/1391]
Matrix: Water
Blank Lab ID: 32806
QC for Samples:
31101974001, 31101974002, 31101974003, 31101974004, 31101974005, 31101974006, 31101974007, 31101974008, 31101974009, 31101974010, 31101974011, 31101974012,

Results by **SW-846 6020A**

Parameter	Result	Qual	DL	LOQ/CL	Units	DF
Beryllium	ND	U	0.000594	0.00500	mg/L	10
Vanadium	ND	U	0.000661	0.00500	mg/L	10
Selenium	ND	U	0.000824	0.00500	mg/L	10
Cadmium	ND	U	0.000278	0.00500	mg/L	10
Antimony	ND	U	0.000437	0.00500	mg/L	10
Thallium	ND	U	0.000297	0.00500	mg/L	10

Batch Information

Analytical Batch: **MMS1068**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**
Analytical Date/Time: **08/05/2011 13:00**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

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Blank Spike Summary

Blank Spike ID: LCS for HBN 9327 [MXX/1391]
Blank Spike Lab ID: 32807
Date Analyzed: 08/05/2011 13:03

Spike Duplicate ID: LCSD for HBN 9327 [MXX/1391]
Spike Duplicate Lab ID: 32808
Date Analyzed: 08/05/2011 13:06
Matrix: Water

QC for Samples: 31101974001, 31101974002, 31101974003, 31101974004, 31101974005, 31101974006, 31101974007, 31101974008, 31101974009, 31101974010, 31101974011, 31101974012,

Results by **SW-846 6020A**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Beryllium	0.400	0.430	108	0.400	0.430	108	80.0-120	0.0	20.00
Vanadium	0.400	0.403	101	0.400	0.412	103	80.0-120	2.2	20.00
Selenium	0.400	ND	**0***	0.400	ND	**0***	80.0-120	0.0	20.00
Cadmium	0.400	0.402	101	0.400	0.398	100	80.0-120	1.0	20.00
Antimony	0.400	ND	**0***	0.400	ND	**0***	80.0-120	0.0	20.00
Thallium	0.400	0.408	102	0.400	0.416	104	80.0-120	1.9	20.00

Batch Information

Analytical Batch: **MMS1068**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
Spike Init Wt./Vol.: **50 mL** Extract Vol: **50 mL**
Dupe Init Wt./Vol.: **50 mL** Extract Vol: **50 mL**

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Matrix Spike Summary

Original Sample ID: 31101974001 (MW-1) — Analysis Date: 08/10/2011 14:04
MS Sample ID: 32809 — Analysis Date: 08/05/2011 13:12
MSD Sample ID: 32810 — Analysis Date: 08/05/2011 13:15
Matrix: Water

QC for Samples: 31101974001, 31101974002, 31101974003, 31101974004, 31101974005, 31101974006, 31101974007, 31101974008, 31101974009, 31101974010, 31101974011, 31101974012,

Results by **SW-846 6020A**

		Matrix Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Antimony	0.700	0.400	NA	NA D	0.400	NA	NA D	75.0-125	0.0	25.00
Beryllium	0.900	0.400	NA	NA D	0.400	NA	NA D	75.0-125	4.7	25.00
Cadmium	ND	0.400	NA	NA D	0.400	NA	NA D	75.0-125	1.3	25.00
Selenium	ND	0.400	NA	NA D	0.400	NA	NA D	75.0-125	0.0	25.00
Thallium	ND	0.400	NA	NA D	0.400	NA	NA D	75.0-125	0.75	25.00
Vanadium	17.1	0.400	NA	NA D	0.400	NA	NA D	75.0-125	1.4	25.00

Batch Information

Analytical Batch: **MMS1068**
Analytical Method: **SW-846 6020A**
Instrument: **ICPMS2**
Analyst: **PSW**

Prep Batch: **MXX1391**
Prep Method: **SW-846 3010A**
Prep Date/Time: **07/28/2011 08:45**
MS Init Wt./Vol.: **50 mL** Extract Vol.: **50 mL**
MSD Init Wt./Vol.: **50 mL** Extract Vol.: **50 mL**

Print Date: 08/11/2011 — N.C. Certification # 481

Duplicate Sample Summary

Original Sample ID: 31101974012-D
Duplicate Sample ID: 32811

Analysis Date: 08/10/2011 16:29
Analysis Date: 08/05/2011 13:58
Matrix: Water

QC for Samples: 31101974001, 31101974002, 31101974003, 31101974004, 31101974005, 31101974006, 31101974007, 31101974008, 31101974009, 31101974010, 31101974011, 31101974012,

Results by **SW-846 6020A**

PARAMETER	Original (ug/L)	Duplicate (mg/L)	RPD (%)	RPD CL
Antimony	ND	ND	-200	20.00
Beryllium	ND	ND	0.0	20.00
Cadmium	ND	ND	0.0	20.00
Selenium	ND	ND	-200	20.00
Thallium	ND	ND	-18	20.00
Vanadium	17.5	0.0167	4.7	20.00

Batch Information

Analytical Batch: MMS1068
Analytical Method: SW-846 6020A
Instrument: ICPMS2
Analyst: PSW

Prep Batch: MXX1391
Prep Method: SW-846 3010A
Prep Date/Time: 07/28/2011 08:45

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101317

(1)

CLIENT: Municipal Engineering Services

CONTACT: Jonathan Pfohl PHONE NO:(919) 772-5393

PROJECT: Iredell Closed SITE/PWSID# :

REPORTS TO: JPfohl@mesco.com & mgoimme@mesco.com FAX NO.:( )

INVOICE TO: jpfohl@mesco.com & mgoimme@mesco.com QUOTE #: P.O. NUMBER:

SGS Reference: 31101974

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(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C= COMP, G= GRAB)	VOCs - App I	Metals - Total App I	REMARKS
	Preservatives Used						HCL	HNO_3	
	MW-1	7/26/11	3:35	Ground Water	4	G	✓	✓	
	MW-2		12:00						
	MW-3		3:00						
	MW-3R		8:50						
	MW-4		10:10						
	MW-6		11:35						
	MW-6R		11:00						
	MW-7S		2:25						
	MW-7D		1:40						
	SW-1		9:10	SW					
	SW-2		9:25	SW					
	EB		3:12	DI H_2O					

(3) Analysis Required

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
[signature]	7/27/11	10:00	[signature]
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4) [signature]	7/27/11	1620	Received By: [signature]

(4)

Shipping Carrier:

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Temperature°C: 3.0

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Special Instructions:

Requested Turnaround Time: ☐ RUSH _____ Date Needed ☑ STD

EB - Disposable Bailer from Geotech

DI H_2O source ENCO - Exact same as ENCO Blanks.

SGS North America Inc.

Sample Receipt Checklist (SRC)

Client: **Municipal Engineering** Work Order No.: **31101974**

Notes:

1. ___ Shipped
   x Hand Delivered

2. x COC Present on Receipt
   ___ No COC
   ___ Additional Transmittal Forms

3. x Custody Tape on Container
   ___ No Custody Tape

4. x Samples Intact
   ___ Samples Broken / Leaking

5. x Chilled on Receipt Actual Temp.(s) in °C: 3
   ___ Ambient on Receipt
   ___ Walk-in on Ice; Coming down to temp.
   ___ Received Outside of Temperature Specifications

6. x Sufficient Sample Submitted
   ___ Insufficient Sample Submitted

7. ___ Chlorine absent
   x HNO3 < 2
   ___ HCL < 2
   ___ Additional Preservatives verified (see notes)

8. x Received Within Holding Time
   ___ Not Received Within Holding Time

9. x No Discrepancies Noted
   ___ Discrepancies Noted

10. x No Headspace present in VOC vials
    ___ Headspace present in VOC vials >6mm

Comments: No Trip Blanks

Inspected and Logged in by: TP

Date: Thu-7/28/11 00:00

MI_11.5

Appendix B
Field Sampling Parameter Data Sheet(s)

Sampling Data Sheet

Municipal Services Engineering Company
Garner, NC Hoone, NC

Project: Iredell Co. Closed Unlined MSWLF

Samplers: J. Pfohl Page 1 of 1

Monitoring Point	Sample Date	Sample Time	Sampling Parameters: Depth to Water (BTOP) 1/ /10	Depth to Water (BTOP) Static Sample Time	Lab Parameters to be analyzed for	Volume Purged (Gal)	Sample Type	Goes Dry During Purge	Total Depth Measured as expected	Total Depth Expected	Water Quality Parameters: CO2 (mg/l)	DO (mg/L)	ORP	pH	Temp. ©	Specific Cond. (us/cm	TDS (mg/L)	Turbidity	CH4 Gas Vapors (ppm)
Locked, Gone, Not Located																			
MW-1	7/26/11	3:35		4.78	App I		P&DB	N (Existing)		60	NR	0.5	157	5.01	18.6	53	26	C	NR
MW-2	7/26/11	12:00		18.65	App I		P&DB		Y	49		1.8	107	6.24	14.2	402	201	C	NR
MW-3R	7/26/11	8:50		6.24	App I		DB	Y (usually Dry)	Y	20		-1.3	-13	6.21	15.90	38	18	ST	
MW-3		3:00		9.51	App I		DB	Y	Y	23		0.3	59	6.51	15.1	222	111	ST	
MW-4		10:10		11.40	App I		DB	N	Y	30		1.6	77	6.34	15.1	440	219	C	
MW-6		11:35		26.09	App I		DB	Y	Y	33		0.7	-20	6.15	17.8	955	[illegible]	C	
MW-6R		11:00		2.31	App I		DB			20.5		0.9	94	6.19	[illegible]	[illegible]	59	C	
MW-7S		2:25		43.59	App I		DB	Y	Y	54.37		0.3	254	5.29	17.9	30	14	ST	
MW-7D		1:40		43.85	App I		P&DB	N	Y	132.1		4.6	123	6.26	18.3	72	36	C	
SW-1		9:10	-	-	App I	-	DB	-	-	-		6.8	203	6.93	22.6	81	39	ST	-
SW-2		9:35	-	-	App I	-	DB	-	-	-		6.9	281	7.01	22.8	69	31	ST	-

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