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):

Herst Environmental Services LLC

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

Name: Ward Herst Phone: (636) 939-9111

E-mail: herstenvserv@gmail.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Lake Norman C&D Landfill	7099 Quarry Lane Stanley, NC 28164	55-04	.0500	October 29, 2013

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.

Ward Herst — Managing Partner — (636) 939-9111

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

Signature — Date: 1/9/14

Affix NC Licensed Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1693 GEOLOGIST WARD HERST 1/9/14

4631 North St. Peters Parkway, St. Charles, MO 63304

Facility Representative Address

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

Revised 6/2009

HERST & ASSOCIATES, INC.®

Global Presence
Personal Attention

Submitted via Electronic Mail

Ms. Jackie Drummond
North Carolina Department of Environment and Natural Resources
Division of Waste Management - Solid Waste Section
Section Chief
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

January 9, 2014

Dear Ms. Drummond:

Submittal of Groundwater and Surface Water Monitoring Results
Second Semi-Annual 2013 Event
Lake Norman Construction & Demolition Landfill
North Carolina, Permit # 55-04

On behalf of BFI Lake Norman Landfill, Inc., Herst & Associates, Inc. is providing a water quality summary for the Second Semi-Annual 2013 (October 2013) sampling event for the Lake Norman Construction & Demolition Landfill. Groundwater and surface water sampling was performed by Analytical Services, Inc. (ASI) and analytical testing was performed by ASI. The groundwater and surface water samples were analyzed for the Detection Monitoring parameters listed in 15A North Carolina Administrative Code (NCAC) 13B .0544(b)(1)(D), which included the constituents listed in Appendix I of 40 CFR Part 258 (15 heavy metals and 47 organics), mercury, chloride, manganese, sulfate, iron, specific conductance, pH, temperature, alkalinity, and total dissolved solids. In accordance with a North Carolina Department of Environment and Natural Resources (NCDENR) memorandum for C&D landfills dated June 25, 2010, tetrahydrofuran was also monitored for each of the samples collected.

Groundwater Flow Rate & Direction

The attached Figure 1 provides a potentiometric surface map utilizing water level data from the Second Semi-Annual 2013 event. Groundwater flow direction for the Second Semi-Annual 2013 event was generally to the northwest, consistent with past reports.

To calculate the average linear groundwater velocity, the hydraulic gradients were measured from the potentiometric surface map. The groundwater velocities are then calculated from the following equation:

$v = [Ki/n] * 365$
where:
v = groundwater flow velocity (ft/year)
K = hydraulic conductivity (ft/day)
i = hydraulic gradient (ft/ft)
n = effective porosity (dimensionless)

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Based on information provided in the "Construction Plan Application" by S&ME, Inc. dated February 20, 1998, hydraulic conductivity measurements average 1.13 ft/day and the effective porosity measurements average 33%.

During the Second Semi-Annual 2013 event, the hydraulic gradient from the southeast to northwest portion of the site was estimated at 0.0254 ft/ft.

Using the hydraulic conductivity of 1.13 ft/day, the effective porosity of 0.33, and a hydraulic gradient of 0.0254 ft/ft, the calculated groundwater velocity was 0.087 ft/day (32 ft/yr) for the Second Semi-Annual 2013 event.

Effectiveness of the Monitoring Systems

The groundwater monitoring well network is designed to detect potential effects on groundwater from the facility. The designated upgradient monitoring well, MW-1, is positioned to monitor background groundwater quality for the facility. The remaining three wells (MW-2, MW-3, and MW-4) are positioned in the downgradient position around the base of the landfill footprint. Each of the four wells was sampled during the Second Semi-Annual 2013 event.

The surface water monitoring network is designed to detect potential effects on surface water from the facility. The designated upgradient point, SW-1, is positioned to monitor background surface water quality for the facility. The designated downgradient point, SW-2, is positioned to monitor surface water quality downgradient from the landfill. Both surface water monitoring points were sampled during the Second Semi-Annual 2013 event.

Based on a review of well and surface water locations, groundwater flow directions, flow gradients, flow rates, and sampling availability, the present monitoring program is considered sufficient to monitor groundwater and surface water quality surrounding the facility.

Monitoring Summary & Recommendations

A summary of the inorganic results and organic detections for the Second Semi-Annual 2013 event are summarized on Table 1. The following is a brief summary of the monitoring data from the Second Semi-Annual 2013 event:

Groundwater

- The NC Solid Waste Section Limit (SWSL) is the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy. The SWSL is the concentration below which reported analytical results must be qualified as estimated. Two volatile organic compounds (VOCs) were detected above an SWSL: methylene chloride at MW-4 and trichlorofluoromethane at MW-3 and MW-4. The Second Semi-Annual 2013 concentrations of methylene chloride at MW-4 (4/5 ug/L) and trichlorofluoromethane at MW-3 (1.5 ug/L) and MW-4 (6.6 ug/L) were above their SWSL (1.0 ug/L); however both methylene chloride and trichlorofluoromethane were below their North Carolina 15A NCAC 2L Water Quality Standards (5 ug/L and 2,000 ug/L, respectively). The low level VOC detections are typical for the site.
- No VOCs were detected above the NC 2L Standards.
- Two inorganic constituents were reported above the NC 2L Standards: total iron at MW-4 and total manganese at MW-2 and MW-3.

Surface Water

- No VOCs were detected above an SWSL in surface water samples.
- One inorganic constituent was reported above the NC 2B Standards: total iron at SW-1.

Total Iron

The Second Semi-Annual 2013 concentration of total iron at SW-1 (1,120 ug/L) is consistent than historical total iron concentrations (474 to 2,420 ug/L) at this surface water monitoring point. SW-1 is located upgradient to the facility.

The Second Semi-Annual 2013 total iron concentration at MW-4 (968 ug/L) is consistent with the historical total iron concentrations (149 to 5,100 ug/L) at MW-4. The total iron concentrations in groundwater and surface water appear to be attributable to naturally occurring conditions at the site and not related to the landfill.

Total Manganese

The Second Semi-Annual 2013 concentration of total manganese at MW-2 (102 ug/L) is consistent with historical total manganese concentrations (5.2 to 113 ug/L) at MW-2. The Second Semi-Annual 2013 concentration of total manganese at MW-3 (146 ug/L) is consistent with historical total manganese concentrations (25.5 to 989 ug/L) at MW-3. The total manganese concentrations in groundwater appear to be attributable to naturally occurring conditions and not landfill related.

Recommendations

It is recommended that detection monitoring continue at the site. The next semi-annual groundwater sampling event is tentatively scheduled for April 2014.

Should you have any questions or concerns, please contact Mr. Mike Gurley at (704) 262-6019 or either of the undersigned at (636) 939-9111.

Sincerely,

HERST & ASSOCIATES, INC.

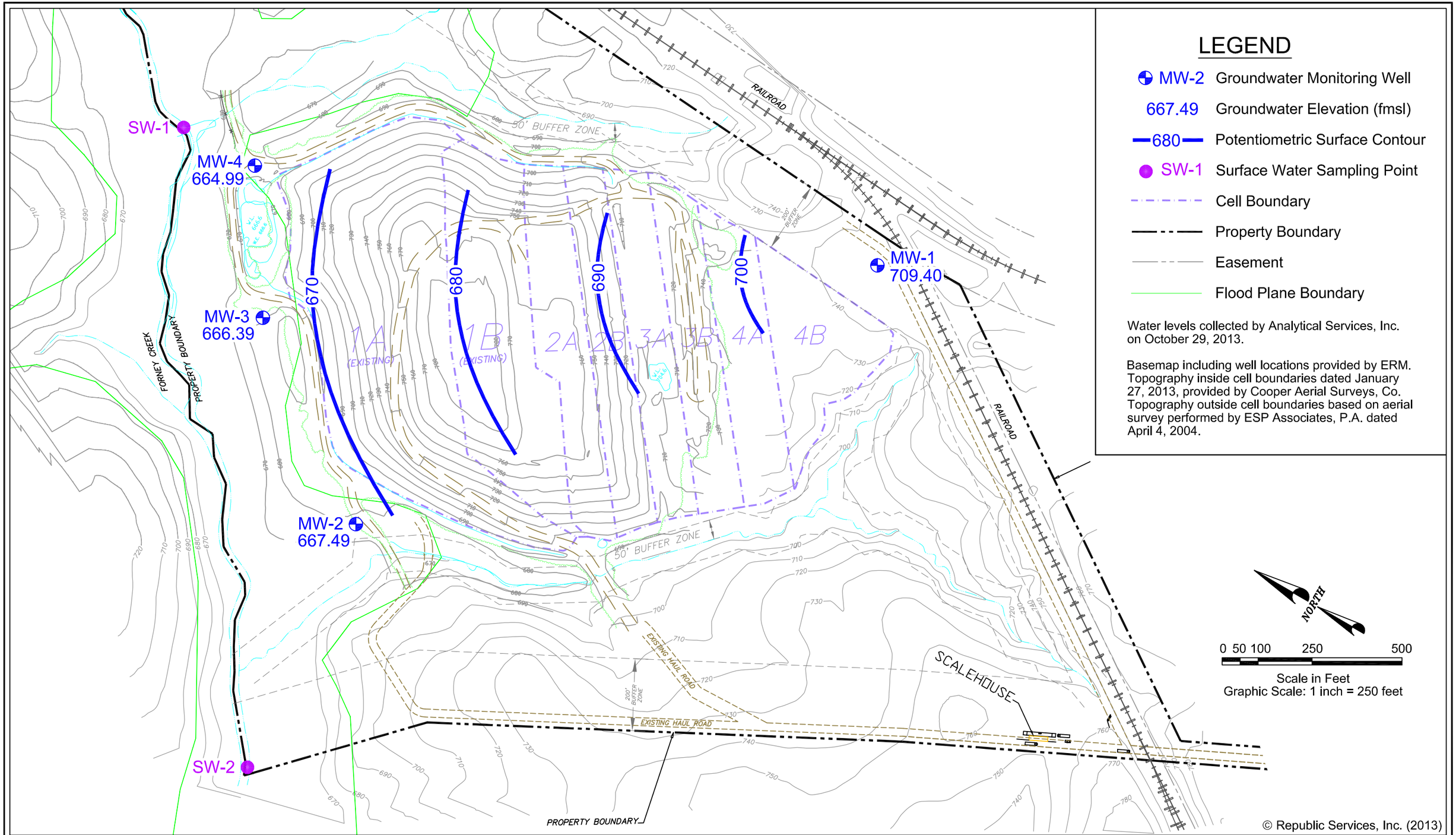
Ward E. Herst,
Managing Partner, LG #1893
Herst Environmental Services LLC

Steve Jett
Senior Hydrogeologist, LG #1825

Attachment: *Figure 1 – Potentiometric Surface Map*
Table 1 – Data Compared to NC Standards, Second Semi-Annual 2013 Event
Attachment A - Laboratory Analytical Report & Field Information Forms

cc: *Mike Gurley, Republic Services, Inc. (1 Hardcopy)*
Lake Norman Landfill (1 Hardcopy)

Figure



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HERST & ASSOCIATES, INC.®

Lake Norman C & D Landfill
Lincoln County, North Carolina

Figure 1
October 2013 Event
Potentiometric Surface Map

Groundwater Elevation Summary Table
Lake Norman Landfill

Well	Gradient Status	Top of PVC Casing Elevation (fmsl)1	Depth to Water (ft)2	Groundwater Elevation (fmsl)
MW-1	Upgradient	745.77	36.37	709.40
MW-2	Downgradient	680.37	12.88	667.49
MW-3	Downgradient	679.60	13.21	666.39
MW-4	Downgradient	680.29	15.3	664.99

Note 1: Top of PVC Casing Elevations from correspondence dated 5/10/02 by S&ME, Inc.

Note 2: Depth to water measured by Analytical Services, Inc. on 10/29/13.

Table

TABLE 1
SECOND SEMI-ANNUAL 2013 EVENT DATA COMPARED TO NC STANDARDS
LAKE NORMAN C&D LANDFILL

GROUNDWATER SAMPLES

Constituent	Units	NC 2L Standard	MW-1	MW-2	MW-3	MW-4
Alkalinity as CaCO3	ug/L	**NE**	84000	25000	26000	58000
Antimony, Total	ug/L	**NE**	<6.00	<6.00	<6.00	<6.00
Arsenic, Total	ug/L	**10**	<10.0	<10.0	<10.0	<10.0
Barium, Total	ug/L	**700**	J 76.8	J 86.8	J 24.8	J 12.9
Beryllium, Total	ug/L	**NE**	<1.00	<1.00	<1.00	<1.00
Cadmium, Total	ug/L	**2**	<1.00	<1.00	<1.00	<1.00
Chloride	ug/L	**250,000**	3400	6900	4900	2600
Chromium, Total	ug/L	**10**	<10.0	J 0.71	<10.0	<10.0
Cobalt, Total	ug/L	**NE**	<10.0	J 2.31	J 5.04	J 1.08
Copper, Total	ug/L	**1,000**	J 0.39	<10.0	J 1.67	J 0.42
Iron, Total	ug/L	**300**	119	278	228	968
Lead, Total	ug/L	**15**	<10.0	<10.0	<10.0	<10.0
Manganese, Total	ug/L	**50**	J 8.04	102	146	22.4
Mercury, Total	ug/L	**1**	<0.200	<0.200	<0.200	<0.200
Nickel, Total	ug/L	**100**	J 1.11	J 0.5	J 1.85	J 0.69
pH (Field)	su	**NE**	5.81	5.25	5.01	5.83
Selenium, Total	ug/L	**20**	<10.0	<10.0	<10.0	<10.0
Silver, Total	ug/L	**20**	<10.0	<10.0	<10.0	<10.0
Specific Conductance (Field)	umhos/cm	**NE**	229	149	79	130
Sulfate as SO4	ug/L	**250,000**	6100	19000	<5000	<5000
Temperature (Field)	Deg-C	**NE**	15.9	17.3	16.6	18.8
Thallium, Total	ug/L	**NE**	<5.50	<5.50	<5.50	<5.50
Total Dissolved Solids (TDS)	ug/L	**500,000**	140000	83000	48500	92500
Turbidity (Field)	NTU	**NE**	0.1	1.24	4.07	1.45
Vanadium, Total	ug/L	**NE**	J 5.79	J 2.95	J 2.25	J 3.49
Zinc, Total	ug/L	**1,000**	<10.0	J 9.21	<10.0	<10.0

Constituent (ug/L)	Units	NC 2L Std	MW-1	MW-2	MW-3	MW-4
Methylene chloride	ug/L	**5**	<1.0	<1.0	<1.0	4.5
Trichloroethylene	ug/L	**3**	<1.0	<1.0	<1.0	J 0.3
Trichlorofluoromethane	ug/L	**2,000**	<1.0	<1.0	1.5	6.6

SURFACE WATER SAMPLES

Constituent (ug/L)	Units	NC 2B Standard	SW-1	SW-2
Alkalinity as CaCO3	ug/L	**NE**	48000	60000
Antimony, Total	ug/L	**NE**	<6.00	<6.00
Arsenic, Total	ug/L	**50**	<10.0	<10.0
Barium, Total	ug/L	**NE**	J 36.3	J 40.5
Beryllium, Total	ug/L	**6.5**	<1.00	<1.00
Cadmium, Total	ug/L	**2**	<1.00	<1.00
Chloride	ug/L	**230,000**	5200	4900
Chromium, Total	ug/L	**50**	<10.0	<10.0
Cobalt, Total	ug/L	**NE**	J 0.47	J 0.38
Copper, Total	ug/L	**7**	<10.0	<10.0
Iron, Total	ug/L	**1,000**	1120	746
Lead, Total	ug/L	**25**	<10.0	<10.0
Manganese, Total	ug/L	**NE**	186	170
Mercury, Total	ug/L	**0.012**	J 0.106	J 0.096
Nickel, Total	ug/L	**88**	J 0.43	J 0.62
pH (Field)	su	**6.0 - 9.0**	6.34	6.32
Selenium, Total	ug/L	**5**	<10.0	<10.0
Silver, Total	ug/L	**0.06**	<10.0	<10.0
Specific Conductance (Field)	umhos/cm	**NE**	129	154
Sulfate as SO4	ug/L	**NE**	<5000	6700
Temperature (Field)	Deg-C	**NE**	17.1	16.2
Thallium, Total	ug/L	**NE**	<5.50	<5.50
Total Dissolved Solids (TDS)	ug/L	**NE**	91500	106000
Turbidity (Field)	NTU	**NE**	1.88	5.31
Vanadium, Total	ug/L	**NE**	J 4.18	J 3.83
Zinc, Total	ug/L	**50**	J 6.49	J 0.97

Constituent (ug/L)	Units	NC 2L Std	SW-1	SW-2
Acetone	ug/L	**2,000**	<100	J 1.9

NE: Denotes a NC 2L or 2B Standard is not established.
Only the VOCs detected during this event are displayed on the table.
J: Denotes Sample result above the MDL but below the SWSL; estimated value; value may not be accurate.
Denotes result above an SWSL is also above the NC 2L or 2B Standard:

Attachment A
Laboratory Analytical Report
&
Field Information Forms

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Laboratory Report

Report Number: AWJ0927

Project: Lake Norman C&D Landfill

Project #:[none]

Prepared For:
Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord, NC 28027

Attention: Mr. Mike Gurley

November 12, 2013

We appreciate the opportunity to provide the analytical support for your project. The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call. Analytical Services, Inc. certifies that the following analytical results meet all requirements of the National Environmental Laboratory Accreditation Conference(NELAC).All test results relate only to the samples analyzed.

Approved:

Project Manager

This report may not be reproduced, except in full, without written approval from Analytical Services, Inc.

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
5504-MW1	AWJ0927-01	Ground Water	10/29/13 13:24	10/30/13 13:20
5504-MW2	AWJ0927-02	Ground Water	10/29/13 14:05	10/30/13 13:20
5504-MW3	AWJ0927-03	Ground Water	10/29/13 14:53	10/30/13 13:20
5504-MW4	AWJ0927-04	Ground Water	10/29/13 15:25	10/30/13 13:20
5504-Duplicate	AWJ0927-05	Ground Water	10/29/13 00:00	10/30/13 13:20
5504-Field Blank	AWJ0927-06	Water	10/29/13 12:51	10/30/13 13:20
5504-Trip Blank	AWJ0927-07	Water	10/29/13 00:00	10/30/13 13:20
5504-SW1	AWJ0927-08	Surface Water	10/29/13 15:07	10/30/13 13:20
5504-SW2	AWJ0927-09	Surface Water	10/29/13 14:01	10/30/13 13:20

ASI

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Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-MW1
Lab No: AWJ0927-01
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 13:24
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
On Site												
Field - Specific Conductance	EPA 9050A	NA	229	1	1	umhos/cm		1	COND	10/29/13 13:24	10/29/13 13:24	3110070
Field - pH	EPA 9040C	NA	5.81		1	pH Units			PH	10/29/13 13:24	10/29/13 13:24	3110070
Field - Temperature	SM 2550 B	NA	15.9		1	°C			TEMP	10/29/13 13:24	10/29/13 13:24	3110070
Field - Turbidity	EPA 180.1	NA	0.10		1	NTU			TURB	10/29/13 13:24	10/29/13 13:24	3110070
Field - Water Level	NA	NA	36.37		1	feet			WL	10/29/13 13:24	10/29/13 13:24	3110070
Field - Well Depth	NA	NA	52.15		1	feet				10/29/13 13:24	10/29/13 13:24	3110070
General Chemistry												
Alkalinity as CaCO3	SM 2320 B	SM 2320 B	84000	1000	1	ug/L		1000	ALK	11/07/13 13:30	11/07/13 13:30	3110139
Total Dissolved Solids	SM 2540 C	SM 2540 C	140000	5000	1	ug/L		5000	E-10173	11/04/13 16:00	11/04/13 16:00	3110012
Inorganic Anions												
Chloride	EPA 9056A	EPA 300.0	3400	1000	1	ug/L		1000	16887-00-6	11/07/13 02:58	11/07/13 02:58	3110145
Sulfate	EPA 9056A	EPA 300.0	6100	5000	1	ug/L		5000	14808-79-8	11/07/13 02:58	11/07/13 02:58	3110145
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.22	7440-36-0	11/01/13 09:50	11/01/13 18:35	3100820
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.78	7440-38-2	11/01/13 09:50	11/01/13 18:35	3100820
Barium	EPA 6020A	EPA 3005A	76.8	100	1	ug/L	J	0.25	7440-39-3	11/01/13 09:50	11/01/13 18:35	3100820
Beryllium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.11	7440-41-7	11/01/13 09:50	11/01/13 18:35	3100820
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	11/01/13 09:50	11/01/13 18:35	3100820
Chromium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.58	7440-47-3	11/01/13 09:50	11/01/13 18:35	3100820

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-MW1
Lab No: AWJ0927-01
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 13:24
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Cobalt	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.12	7440-48-4	11/01/13 09:50	11/01/13 18:35	3100820
Copper	EPA 6020A	EPA 3005A	0.39	10.0	1	ug/L	J	0.38	7440-50-8	11/01/13 09:50	11/01/13 18:35	3100820
Lead	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.05	7439-92-1	11/01/13 09:50	11/01/13 18:35	3100820
Nickel	EPA 6020A	EPA 3005A	1.11	50.0	1	ug/L	J	0.41	7440-02-0	11/01/13 09:50	11/01/13 18:35	3100820
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.77	7782-49-2	11/01/13 09:50	11/01/13 18:35	3100820
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.24	7440-22-4	11/01/13 09:50	11/01/13 18:35	3100820
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.06	7440-28-0	11/01/13 09:50	11/01/13 18:35	3100820
Vanadium	EPA 6020A	EPA 3005A	5.79	25.0	1	ug/L	J	1.97	7440-62-2	11/01/13 09:50	11/01/13 18:35	3100820
Zinc	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.87	7440-66-6	11/01/13 09:50	11/01/13 18:35	3100820
Iron	EPA 6020A	EPA 3005A	119	40.0	1	ug/L		3.02	7439-89-6	11/01/13 09:50	11/01/13 18:35	3100820
Manganese	EPA 6020A	EPA 3005A	8.04	10.0	1	ug/L	J	0.550	7439-96-5	11/01/13 09:50	11/01/13 18:35	3100820
Mercury	EPA 7470A	EPA 7470A	ND	0.200	1	ug/L		0.061	7439-97-6	11/07/13 11:55	11/08/13 13:59	3110134
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.6	67-64-1	10/31/13 09:30	10/31/13 16:07	3100811
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.8	107-13-1	10/31/13 09:30	10/31/13 16:07	3100811
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	71-43-2	10/31/13 09:30	10/31/13 16:07	3100811
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	10/31/13 09:30	10/31/13 16:07	3100811
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-27-4	10/31/13 09:30	10/31/13 16:07	3100811
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.6	75-25-2	10/31/13 09:30	10/31/13 16:07	3100811
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.9	74-83-9	10/31/13 09:30	10/31/13 16:07	3100811
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.2	75-15-0	10/31/13 09:30	10/31/13 16:07	3100811

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-MW1
Lab No: AWJ0927-01
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 13:24
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	10/31/13 09:30	10/31/13 16:07	3100811
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	10/31/13 09:30	10/31/13 16:07	3100811
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	75-00-3	10/31/13 09:30	10/31/13 16:07	3100811
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	67-66-3	10/31/13 09:30	10/31/13 16:07	3100811
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	74-87-3	10/31/13 09:30	10/31/13 16:07	3100811
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	124-48-1	10/31/13 09:30	10/31/13 16:07	3100811
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	10/31/13 09:30	10/31/13 16:07	3100811
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	10/31/13 09:30	10/31/13 16:07	3100811
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	10/31/13 09:30	10/31/13 16:07	3100811
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	95-50-1	10/31/13 09:30	10/31/13 16:07	3100811
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	106-46-7	10/31/13 09:30	10/31/13 16:07	3100811
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	10/31/13 09:30	10/31/13 16:07	3100811
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-34-3	10/31/13 09:30	10/31/13 16:07	3100811
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	10/31/13 09:30	10/31/13 16:07	3100811
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-35-4	10/31/13 09:30	10/31/13 16:07	3100811
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-59-2	10/31/13 09:30	10/31/13 16:07	3100811
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-60-5	10/31/13 09:30	10/31/13 16:07	3100811
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	78-87-5	10/31/13 09:30	10/31/13 16:07	3100811
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	10061-01-5	10/31/13 09:30	10/31/13 16:07	3100811
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	10061-02-6	10/31/13 09:30	10/31/13 16:07	3100811
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	100-41-4	10/31/13 09:30	10/31/13 16:07	3100811
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.0	74-88-4	10/31/13 09:30	10/31/13 16:07	3100811

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Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-MW1
Lab No: AWJ0927-01
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 13:24
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.9	591-78-6	10/31/13 09:30	10/31/13 16:07	3100811
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-09-2	10/31/13 09:30	10/31/13 16:07	3100811
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	78-93-3	10/31/13 09:30	10/31/13 16:07	3100811
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.8	108-10-1	10/31/13 09:30	10/31/13 16:07	3100811
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-42-5	10/31/13 09:30	10/31/13 16:07	3100811
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	630-20-6	10/31/13 09:30	10/31/13 16:07	3100811
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-34-5	10/31/13 09:30	10/31/13 16:07	3100811
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	10/31/13 09:30	10/31/13 16:07	3100811
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	108-88-3	10/31/13 09:30	10/31/13 16:07	3100811
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	71-55-6	10/31/13 09:30	10/31/13 16:07	3100811
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-00-5	10/31/13 09:30	10/31/13 16:07	3100811
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-01-6	10/31/13 09:30	10/31/13 16:07	3100811
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	75-69-4	10/31/13 09:30	10/31/13 16:07	3100811
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	10/31/13 09:30	10/31/13 16:07	3100811
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	108-05-4	10/31/13 09:30	10/31/13 16:07	3100811
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	10/31/13 09:30	10/31/13 16:07	3100811
Xylenes, total	EPA 8260B	EPA 5030B	ND	4.0	1	ug/L		0.6	1330-20-7	10/31/13 09:30	10/31/13 16:07	3100811
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	94 %		80-120				1868-53-7	10/31/13 09:30	10/31/13 16:07	3100811
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	104 %		78-120				17060-07-0	10/31/13 09:30	10/31/13 16:07	3100811
Surr: Toluene-d8	EPA 8260B	EPA 5030B	102 %		80-120				2037-26-5	10/31/13 09:30	10/31/13 16:07	3100811
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	99 %		80-120				460-00-4	10/31/13 09:30	10/31/13 16:07	3100811

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Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-MW1
Lab No: AWJ0927-01
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 13:24
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Tetrahydrofuran	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.8	109-99-9	10/31/13 09:30	10/31/13 16:07	3100811

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Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-MW2
Lab No: AWJ0927-02
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 14:05
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
On Site												
Field - Specific Conductance	EPA 9050A	NA	149	1	1	umhos/cm		1	COND	10/29/13 14:05	10/29/13 14:05	3110070
Field - pH	EPA 9040C	NA	5.25		1	pH Units			PH	10/29/13 14:05	10/29/13 14:05	3110070
Field - Temperature	SM 2550 B	NA	17.3		1	°C			TEMP	10/29/13 14:05	10/29/13 14:05	3110070
Field - Turbidity	EPA 180.1	NA	1.24		1	NTU			TURB	10/29/13 14:05	10/29/13 14:05	3110070
Field - Water Level	NA	NA	12.88		1	feet			WL	10/29/13 14:05	10/29/13 14:05	3110070
Field - Well Depth	NA	NA	24.00		1	feet				10/29/13 14:05	10/29/13 14:05	3110070
General Chemistry												
Alkalinity as CaCO3	SM 2320 B	SM 2320 B	25000	1000	1	ug/L		1000	ALK	11/07/13 13:30	11/07/13 13:30	3110139
Total Dissolved Solids	SM 2540 C	SM 2540 C	83000	5000	1	ug/L		5000	E-10173	11/04/13 16:00	11/04/13 16:00	3110012
Inorganic Anions												
Chloride	EPA 9056A	EPA 300.0	6900	1000	1	ug/L		1000	16887-00-6	11/07/13 03:18	11/07/13 03:18	3110145
Sulfate	EPA 9056A	EPA 300.0	19000	5000	1	ug/L		5000	14808-79-8	11/07/13 03:18	11/07/13 03:18	3110145
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.22	7440-36-0	11/01/13 09:50	11/01/13 18:41	3100820
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.78	7440-38-2	11/01/13 09:50	11/01/13 18:41	3100820
Barium	EPA 6020A	EPA 3005A	86.8	100	1	ug/L	J	0.25	7440-39-3	11/01/13 09:50	11/01/13 18:41	3100820
Beryllium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.11	7440-41-7	11/01/13 09:50	11/01/13 18:41	3100820
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	11/01/13 09:50	11/01/13 18:41	3100820
Chromium	EPA 6020A	EPA 3005A	0.71	10.0	1	ug/L	J	0.58	7440-47-3	11/01/13 09:50	11/01/13 18:41	3100820

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Date/Time Sampled: 10/29/13 14:05
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Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Cobalt	EPA 6020A	EPA 3005A	2.31	10.0	1	ug/L	J	0.12	7440-48-4	11/01/13 09:50	11/01/13 18:41	3100820
Copper	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.38	7440-50-8	11/01/13 09:50	11/01/13 18:41	3100820
Lead	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.05	7439-92-1	11/01/13 09:50	11/01/13 18:41	3100820
Nickel	EPA 6020A	EPA 3005A	0.50	50.0	1	ug/L	J	0.41	7440-02-0	11/01/13 09:50	11/01/13 18:41	3100820
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.77	7782-49-2	11/01/13 09:50	11/01/13 18:41	3100820
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.24	7440-22-4	11/01/13 09:50	11/01/13 18:41	3100820
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.06	7440-28-0	11/01/13 09:50	11/01/13 18:41	3100820
Vanadium	EPA 6020A	EPA 3005A	2.95	25.0	1	ug/L	J	1.97	7440-62-2	11/01/13 09:50	11/01/13 18:41	3100820
Zinc	EPA 6020A	EPA 3005A	9.21	10.0	1	ug/L	J	0.87	7440-66-6	11/01/13 09:50	11/01/13 18:41	3100820
Iron	EPA 6020A	EPA 3005A	278	40.0	1	ug/L		3.02	7439-89-6	11/01/13 09:50	11/01/13 18:41	3100820
Manganese	EPA 6020A	EPA 3005A	102	10.0	1	ug/L		0.550	7439-96-5	11/01/13 09:50	11/01/13 18:41	3100820
Mercury	EPA 7470A	EPA 7470A	ND	0.200	1	ug/L		0.061	7439-97-6	11/07/13 11:55	11/08/13 14:01	3110134
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.6	67-64-1	10/31/13 09:30	10/31/13 16:36	3100811
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.8	107-13-1	10/31/13 09:30	10/31/13 16:36	3100811
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	71-43-2	10/31/13 09:30	10/31/13 16:36	3100811
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	10/31/13 09:30	10/31/13 16:36	3100811
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-27-4	10/31/13 09:30	10/31/13 16:36	3100811
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.6	75-25-2	10/31/13 09:30	10/31/13 16:36	3100811
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.9	74-83-9	10/31/13 09:30	10/31/13 16:36	3100811
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.2	75-15-0	10/31/13 09:30	10/31/13 16:36	3100811

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Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	10/31/13 09:30	10/31/13 16:36	3100811
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	10/31/13 09:30	10/31/13 16:36	3100811
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	75-00-3	10/31/13 09:30	10/31/13 16:36	3100811
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	67-66-3	10/31/13 09:30	10/31/13 16:36	3100811
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	74-87-3	10/31/13 09:30	10/31/13 16:36	3100811
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	124-48-1	10/31/13 09:30	10/31/13 16:36	3100811
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	10/31/13 09:30	10/31/13 16:36	3100811
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	10/31/13 09:30	10/31/13 16:36	3100811
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	10/31/13 09:30	10/31/13 16:36	3100811
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	95-50-1	10/31/13 09:30	10/31/13 16:36	3100811
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	106-46-7	10/31/13 09:30	10/31/13 16:36	3100811
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	10/31/13 09:30	10/31/13 16:36	3100811
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-34-3	10/31/13 09:30	10/31/13 16:36	3100811
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	10/31/13 09:30	10/31/13 16:36	3100811
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-35-4	10/31/13 09:30	10/31/13 16:36	3100811
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-59-2	10/31/13 09:30	10/31/13 16:36	3100811
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-60-5	10/31/13 09:30	10/31/13 16:36	3100811
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	78-87-5	10/31/13 09:30	10/31/13 16:36	3100811
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	10061-01-5	10/31/13 09:30	10/31/13 16:36	3100811
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	10061-02-6	10/31/13 09:30	10/31/13 16:36	3100811
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	100-41-4	10/31/13 09:30	10/31/13 16:36	3100811
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.0	74-88-4	10/31/13 09:30	10/31/13 16:36	3100811

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-MW2
Lab No: AWJ0927-02
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 14:05
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.9	591-78-6	10/31/13 09:30	10/31/13 16:36	3100811
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-09-2	10/31/13 09:30	10/31/13 16:36	3100811
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	78-93-3	10/31/13 09:30	10/31/13 16:36	3100811
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.8	108-10-1	10/31/13 09:30	10/31/13 16:36	3100811
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-42-5	10/31/13 09:30	10/31/13 16:36	3100811
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	630-20-6	10/31/13 09:30	10/31/13 16:36	3100811
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-34-5	10/31/13 09:30	10/31/13 16:36	3100811
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	10/31/13 09:30	10/31/13 16:36	3100811
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	108-88-3	10/31/13 09:30	10/31/13 16:36	3100811
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	71-55-6	10/31/13 09:30	10/31/13 16:36	3100811
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-00-5	10/31/13 09:30	10/31/13 16:36	3100811
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-01-6	10/31/13 09:30	10/31/13 16:36	3100811
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	75-69-4	10/31/13 09:30	10/31/13 16:36	3100811
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	10/31/13 09:30	10/31/13 16:36	3100811
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	108-05-4	10/31/13 09:30	10/31/13 16:36	3100811
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	10/31/13 09:30	10/31/13 16:36	3100811
Xylenes, total	EPA 8260B	EPA 5030B	ND	4.0	1	ug/L		0.6	1330-20-7	10/31/13 09:30	10/31/13 16:36	3100811
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	94 %		80-120				1868-53-7	10/31/13 09:30	10/31/13 16:36	3100811
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	104 %		78-120				17060-07-0	10/31/13 09:30	10/31/13 16:36	3100811
Surr: Toluene-d8	EPA 8260B	EPA 5030B	103 %		80-120				2037-26-5	10/31/13 09:30	10/31/13 16:36	3100811
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	102 %		80-120				460-00-4	10/31/13 09:30	10/31/13 16:36	3100811

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Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-MW2
Lab No: AWJ0927-02
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 14:05
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Tetrahydrofuran	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.8	109-99-9	10/31/13 09:30	10/31/13 16:36	3100811

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Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-MW3
Lab No: AWJ0927-03
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 14:53
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
On Site												
Field - Specific Conductance	EPA 9050A	NA	79	1	1	umhos/cm		1	COND	10/29/13 14:53	10/29/13 14:53	3110070
Field - pH	EPA 9040C	NA	5.01		1	pH Units			PH	10/29/13 14:53	10/29/13 14:53	3110070
Field - Temperature	SM 2550 B	NA	16.6		1	°C			TEMP	10/29/13 14:53	10/29/13 14:53	3110070
Field - Turbidity	EPA 180.1	NA	4.07		1	NTU			TURB	10/29/13 14:53	10/29/13 14:53	3110070
Field - Water Level	NA	NA	13.21		1	feet			WL	10/29/13 14:53	10/29/13 14:53	3110070
Field - Well Depth	NA	NA	21.93		1	feet				10/29/13 14:53	10/29/13 14:53	3110070
General Chemistry												
Alkalinity as CaCO3	SM 2320 B	SM 2320 B	26000	1000	1	ug/L		1000	ALK	11/07/13 13:30	11/07/13 13:30	3110139
Total Dissolved Solids	SM 2540 C	SM 2540 C	48500	5000	1	ug/L		5000	E-10173	11/04/13 16:00	11/04/13 16:00	3110012
Inorganic Anions												
Chloride	EPA 9056A	EPA 300.0	4900	1000	1	ug/L		1000	16887-00-6	11/07/13 03:39	11/07/13 03:39	3110145
Sulfate	EPA 9056A	EPA 300.0	ND	5000	1	ug/L		5000	14808-79-8	11/07/13 03:39	11/07/13 03:39	3110145
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.22	7440-36-0	11/01/13 09:50	11/01/13 18:57	3100820
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.78	7440-38-2	11/01/13 09:50	11/01/13 18:57	3100820
Barium	EPA 6020A	EPA 3005A	24.8	100	1	ug/L	J	0.25	7440-39-3	11/01/13 09:50	11/01/13 18:57	3100820
Beryllium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.11	7440-41-7	11/01/13 09:50	11/01/13 18:57	3100820
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	11/01/13 09:50	11/01/13 18:57	3100820
Chromium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.58	7440-47-3	11/01/13 09:50	11/01/13 18:57	3100820

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Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-MW3
Lab No: AWJ0927-03
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 14:53
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Cobalt	EPA 6020A	EPA 3005A	5.04	10.0	1	ug/L	J	0.12	7440-48-4	11/01/13 09:50	11/01/13 18:57	3100820
Copper	EPA 6020A	EPA 3005A	1.67	10.0	1	ug/L	J	0.38	7440-50-8	11/01/13 09:50	11/01/13 18:57	3100820
Lead	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.05	7439-92-1	11/01/13 09:50	11/01/13 18:57	3100820
Nickel	EPA 6020A	EPA 3005A	1.85	50.0	1	ug/L	J	0.41	7440-02-0	11/01/13 09:50	11/01/13 18:57	3100820
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.77	7782-49-2	11/01/13 09:50	11/01/13 18:57	3100820
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.24	7440-22-4	11/01/13 09:50	11/01/13 18:57	3100820
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.06	7440-28-0	11/01/13 09:50	11/01/13 18:57	3100820
Vanadium	EPA 6020A	EPA 3005A	2.25	25.0	1	ug/L	J	1.97	7440-62-2	11/01/13 09:50	11/01/13 18:57	3100820
Zinc	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.87	7440-66-6	11/01/13 09:50	11/01/13 18:57	3100820
Iron	EPA 6020A	EPA 3005A	228	40.0	1	ug/L		3.02	7439-89-6	11/01/13 09:50	11/01/13 18:57	3100820
Manganese	EPA 6020A	EPA 3005A	146	10.0	1	ug/L		0.550	7439-96-5	11/01/13 09:50	11/01/13 18:57	3100820
Mercury	EPA 7470A	EPA 7470A	ND	0.200	1	ug/L		0.061	7439-97-6	11/07/13 11:55	11/08/13 14:04	3110134
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.6	67-64-1	10/31/13 09:30	10/31/13 17:04	3100811
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.8	107-13-1	10/31/13 09:30	10/31/13 17:04	3100811
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	71-43-2	10/31/13 09:30	10/31/13 17:04	3100811
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	10/31/13 09:30	10/31/13 17:04	3100811
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-27-4	10/31/13 09:30	10/31/13 17:04	3100811
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.6	75-25-2	10/31/13 09:30	10/31/13 17:04	3100811
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.9	74-83-9	10/31/13 09:30	10/31/13 17:04	3100811
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.2	75-15-0	10/31/13 09:30	10/31/13 17:04	3100811

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5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-MW3
Lab No: AWJ0927-03
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 14:53
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	10/31/13 09:30	10/31/13 17:04	3100811
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	10/31/13 09:30	10/31/13 17:04	3100811
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	75-00-3	10/31/13 09:30	10/31/13 17:04	3100811
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	67-66-3	10/31/13 09:30	10/31/13 17:04	3100811
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	74-87-3	10/31/13 09:30	10/31/13 17:04	3100811
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	124-48-1	10/31/13 09:30	10/31/13 17:04	3100811
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	10/31/13 09:30	10/31/13 17:04	3100811
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	10/31/13 09:30	10/31/13 17:04	3100811
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	10/31/13 09:30	10/31/13 17:04	3100811
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	95-50-1	10/31/13 09:30	10/31/13 17:04	3100811
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	106-46-7	10/31/13 09:30	10/31/13 17:04	3100811
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	10/31/13 09:30	10/31/13 17:04	3100811
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-34-3	10/31/13 09:30	10/31/13 17:04	3100811
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	10/31/13 09:30	10/31/13 17:04	3100811
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-35-4	10/31/13 09:30	10/31/13 17:04	3100811
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-59-2	10/31/13 09:30	10/31/13 17:04	3100811
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-60-5	10/31/13 09:30	10/31/13 17:04	3100811
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	78-87-5	10/31/13 09:30	10/31/13 17:04	3100811
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	10061-01-5	10/31/13 09:30	10/31/13 17:04	3100811
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	10061-02-6	10/31/13 09:30	10/31/13 17:04	3100811
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	100-41-4	10/31/13 09:30	10/31/13 17:04	3100811
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.0	74-88-4	10/31/13 09:30	10/31/13 17:04	3100811

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Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-MW3
Lab No: AWJ0927-03
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 14:53
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.9	591-78-6	10/31/13 09:30	10/31/13 17:04	3100811
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-09-2	10/31/13 09:30	10/31/13 17:04	3100811
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	78-93-3	10/31/13 09:30	10/31/13 17:04	3100811
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.8	108-10-1	10/31/13 09:30	10/31/13 17:04	3100811
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-42-5	10/31/13 09:30	10/31/13 17:04	3100811
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	630-20-6	10/31/13 09:30	10/31/13 17:04	3100811
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-34-5	10/31/13 09:30	10/31/13 17:04	3100811
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	10/31/13 09:30	10/31/13 17:04	3100811
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	108-88-3	10/31/13 09:30	10/31/13 17:04	3100811
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	71-55-6	10/31/13 09:30	10/31/13 17:04	3100811
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-00-5	10/31/13 09:30	10/31/13 17:04	3100811
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-01-6	10/31/13 09:30	10/31/13 17:04	3100811
Trichlorofluoromethane	EPA 8260B	EPA 5030B	1.5	1.0	1	ug/L		0.4	75-69-4	10/31/13 09:30	10/31/13 17:04	3100811
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	10/31/13 09:30	10/31/13 17:04	3100811
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	108-05-4	10/31/13 09:30	10/31/13 17:04	3100811
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	10/31/13 09:30	10/31/13 17:04	3100811
Xylenes, total	EPA 8260B	EPA 5030B	ND	4.0	1	ug/L		0.6	1330-20-7	10/31/13 09:30	10/31/13 17:04	3100811
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	94 %		80-120				1868-53-7	10/31/13 09:30	10/31/13 17:04	3100811
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	105 %		78-120				17060-07-0	10/31/13 09:30	10/31/13 17:04	3100811
Surr: Toluene-d8	EPA 8260B	EPA 5030B	103 %		80-120				2037-26-5	10/31/13 09:30	10/31/13 17:04	3100811
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	101 %		80-120				460-00-4	10/31/13 09:30	10/31/13 17:04	3100811

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-MW3
Lab No: AWJ0927-03
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 14:53
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Tetrahydrofuran	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.8	109-99-9	10/31/13 09:30	10/31/13 17:04	3100811

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(770) 734-4200 FAX (770) 734-4201

Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-MW4
Lab No: AWJ0927-04
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 15:25
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
On Site												
Field - Specific Conductance	EPA 9050A	NA	130	1	1	umhos/cm		1	COND	10/29/13 15:25	10/29/13 15:25	3110070
Field - pH	EPA 9040C	NA	5.83		1	pH Units			PH	10/29/13 15:25	10/29/13 15:25	3110070
Field - Temperature	SM 2550 B	NA	18.8		1	°C			TEMP	10/29/13 15:25	10/29/13 15:25	3110070
Field - Turbidity	EPA 180.1	NA	1.45		1	NTU			TURB	10/29/13 15:25	10/29/13 15:25	3110070
Field - Water Level	NA	NA	15.30		1	feet			WL	10/29/13 15:25	10/29/13 15:25	3110070
Field - Well Depth	NA	NA	90.55		1	feet				10/29/13 15:25	10/29/13 15:25	3110070
General Chemistry												
Alkalinity as CaCO3	SM 2320 B	SM 2320 B	58000	1000	1	ug/L		1000	ALK	11/07/13 13:30	11/07/13 13:30	3110139
Total Dissolved Solids	SM 2540 C	SM 2540 C	92500	5000	1	ug/L		5000	E-10173	11/04/13 16:00	11/04/13 16:00	3110012
Inorganic Anions												
Chloride	EPA 9056A	EPA 300.0	2600	1000	1	ug/L		1000	16887-00-6	11/07/13 04:00	11/07/13 04:00	3110145
Sulfate	EPA 9056A	EPA 300.0	ND	5000	1	ug/L		5000	14808-79-8	11/07/13 04:00	11/07/13 04:00	3110145
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.22	7440-36-0	11/01/13 09:50	11/01/13 19:03	3100820
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.78	7440-38-2	11/01/13 09:50	11/01/13 19:03	3100820
Barium	EPA 6020A	EPA 3005A	12.9	100	1	ug/L	J	0.25	7440-39-3	11/01/13 09:50	11/01/13 19:03	3100820
Beryllium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.11	7440-41-7	11/01/13 09:50	11/01/13 19:03	3100820
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	11/01/13 09:50	11/01/13 19:03	3100820
Chromium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.58	7440-47-3	11/01/13 09:50	11/01/13 19:03	3100820

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5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-MW4
Lab No: AWJ0927-04
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 15:25
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Cobalt	EPA 6020A	EPA 3005A	1.08	10.0	1	ug/L	J	0.12	7440-48-4	11/01/13 09:50	11/01/13 19:03	3100820
Copper	EPA 6020A	EPA 3005A	0.42	10.0	1	ug/L	J	0.38	7440-50-8	11/01/13 09:50	11/01/13 19:03	3100820
Lead	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.05	7439-92-1	11/01/13 09:50	11/01/13 19:03	3100820
Nickel	EPA 6020A	EPA 3005A	0.69	50.0	1	ug/L	J	0.41	7440-02-0	11/01/13 09:50	11/01/13 19:03	3100820
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.77	7782-49-2	11/01/13 09:50	11/01/13 19:03	3100820
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.24	7440-22-4	11/01/13 09:50	11/01/13 19:03	3100820
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.06	7440-28-0	11/01/13 09:50	11/01/13 19:03	3100820
Vanadium	EPA 6020A	EPA 3005A	3.49	25.0	1	ug/L	J	1.97	7440-62-2	11/01/13 09:50	11/01/13 19:03	3100820
Zinc	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.87	7440-66-6	11/01/13 09:50	11/01/13 19:03	3100820
Iron	EPA 6020A	EPA 3005A	968	40.0	1	ug/L		3.02	7439-89-6	11/01/13 09:50	11/01/13 19:03	3100820
Manganese	EPA 6020A	EPA 3005A	22.4	10.0	1	ug/L		0.550	7439-96-5	11/01/13 09:50	11/07/13 17:31	3100820
Mercury	EPA 7470A	EPA 7470A	ND	0.200	1	ug/L		0.061	7439-97-6	11/07/13 11:55	11/08/13 14:06	3110134
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.6	67-64-1	10/31/13 09:30	10/31/13 17:33	3100811
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.8	107-13-1	10/31/13 09:30	10/31/13 17:33	3100811
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	71-43-2	10/31/13 09:30	10/31/13 17:33	3100811
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	10/31/13 09:30	10/31/13 17:33	3100811
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-27-4	10/31/13 09:30	10/31/13 17:33	3100811
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.6	75-25-2	10/31/13 09:30	10/31/13 17:33	3100811
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.9	74-83-9	10/31/13 09:30	10/31/13 17:33	3100811
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.2	75-15-0	10/31/13 09:30	10/31/13 17:33	3100811

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5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-MW4
Lab No: AWJ0927-04
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 15:25
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	10/31/13 09:30	10/31/13 17:33	3100811
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	10/31/13 09:30	10/31/13 17:33	3100811
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	75-00-3	10/31/13 09:30	10/31/13 17:33	3100811
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	67-66-3	10/31/13 09:30	10/31/13 17:33	3100811
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	74-87-3	10/31/13 09:30	10/31/13 17:33	3100811
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	124-48-1	10/31/13 09:30	10/31/13 17:33	3100811
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	10/31/13 09:30	10/31/13 17:33	3100811
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	10/31/13 09:30	10/31/13 17:33	3100811
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	10/31/13 09:30	10/31/13 17:33	3100811
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	95-50-1	10/31/13 09:30	10/31/13 17:33	3100811
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	106-46-7	10/31/13 09:30	10/31/13 17:33	3100811
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	10/31/13 09:30	10/31/13 17:33	3100811
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-34-3	10/31/13 09:30	10/31/13 17:33	3100811
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	10/31/13 09:30	10/31/13 17:33	3100811
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-35-4	10/31/13 09:30	10/31/13 17:33	3100811
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-59-2	10/31/13 09:30	10/31/13 17:33	3100811
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-60-5	10/31/13 09:30	10/31/13 17:33	3100811
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	78-87-5	10/31/13 09:30	10/31/13 17:33	3100811
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	10061-01-5	10/31/13 09:30	10/31/13 17:33	3100811
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	10061-02-6	10/31/13 09:30	10/31/13 17:33	3100811
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	100-41-4	10/31/13 09:30	10/31/13 17:33	3100811
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.0	74-88-4	10/31/13 09:30	10/31/13 17:33	3100811

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5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-MW4
Lab No: AWJ0927-04
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 15:25
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.9	591-78-6	10/31/13 09:30	10/31/13 17:33	3100811
Methylene Chloride	EPA 8260B	EPA 5030B	4.5	1.0	1	ug/L		0.3	75-09-2	10/31/13 09:30	10/31/13 17:33	3100811
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	78-93-3	10/31/13 09:30	10/31/13 17:33	3100811
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.8	108-10-1	10/31/13 09:30	10/31/13 17:33	3100811
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-42-5	10/31/13 09:30	10/31/13 17:33	3100811
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	630-20-6	10/31/13 09:30	10/31/13 17:33	3100811
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-34-5	10/31/13 09:30	10/31/13 17:33	3100811
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	10/31/13 09:30	10/31/13 17:33	3100811
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	108-88-3	10/31/13 09:30	10/31/13 17:33	3100811
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	71-55-6	10/31/13 09:30	10/31/13 17:33	3100811
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-00-5	10/31/13 09:30	10/31/13 17:33	3100811
Trichloroethene	EPA 8260B	EPA 5030B	0.3	1.0	1	ug/L	J	0.3	79-01-6	10/31/13 09:30	10/31/13 17:33	3100811
Trichlorofluoromethane	EPA 8260B	EPA 5030B	6.6	1.0	1	ug/L		0.4	75-69-4	10/31/13 09:30	10/31/13 17:33	3100811
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	10/31/13 09:30	10/31/13 17:33	3100811
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	108-05-4	10/31/13 09:30	10/31/13 17:33	3100811
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	10/31/13 09:30	10/31/13 17:33	3100811
Xylenes, total	EPA 8260B	EPA 5030B	ND	4.0	1	ug/L		0.6	1330-20-7	10/31/13 09:30	10/31/13 17:33	3100811
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	94 %		80-120				1868-53-7	10/31/13 09:30	10/31/13 17:33	3100811
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	104 %		78-120				17060-07-0	10/31/13 09:30	10/31/13 17:33	3100811
Surr: Toluene-d8	EPA 8260B	EPA 5030B	103 %		80-120				2037-26-5	10/31/13 09:30	10/31/13 17:33	3100811
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	103 %		80-120				460-00-4	10/31/13 09:30	10/31/13 17:33	3100811

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5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-MW4
Lab No: AWJ0927-04
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 15:25
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Tetrahydrofuran	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.8	109-99-9	10/31/13 09:30	10/31/13 17:33	3100811

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Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-Duplicate
Lab No: AWJ0927-05
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 00:00
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
General Chemistry												
Alkalinity as CaCO3	SM 2320 B	SM 2320 B	27000	1000	1	ug/L		1000	ALK	11/07/13 13:30	11/07/13 13:30	3110139
Total Dissolved Solids	SM 2540 C	SM 2540 C	57500	5000	1	ug/L		5000	E-10173	11/04/13 16:00	11/04/13 16:00	3110012
Inorganic Anions												
Chloride	EPA 9056A	EPA 300.0	4800	1000	1	ug/L		1000	16887-00-6	11/07/13 05:45	11/07/13 05:45	3110145
Sulfate	EPA 9056A	EPA 300.0	ND	5000	1	ug/L		5000	14808-79-8	11/07/13 05:45	11/07/13 05:45	3110145
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.22	7440-36-0	11/01/13 09:50	11/01/13 19:09	3100820
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.78	7440-38-2	11/01/13 09:50	11/01/13 19:09	3100820
Barium	EPA 6020A	EPA 3005A	25.2	100	1	ug/L	J	0.25	7440-39-3	11/01/13 09:50	11/01/13 19:09	3100820
Beryllium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.11	7440-41-7	11/01/13 09:50	11/01/13 19:09	3100820
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	11/01/13 09:50	11/01/13 19:09	3100820
Chromium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.58	7440-47-3	11/01/13 09:50	11/01/13 19:09	3100820
Cobalt	EPA 6020A	EPA 3005A	5.62	10.0	1	ug/L	J	0.12	7440-48-4	11/01/13 09:50	11/01/13 19:09	3100820
Copper	EPA 6020A	EPA 3005A	1.73	10.0	1	ug/L	J	0.38	7440-50-8	11/01/13 09:50	11/01/13 19:09	3100820
Lead	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.05	7439-92-1	11/01/13 09:50	11/01/13 19:09	3100820
Nickel	EPA 6020A	EPA 3005A	1.89	50.0	1	ug/L	J	0.41	7440-02-0	11/01/13 09:50	11/01/13 19:09	3100820
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.77	7782-49-2	11/01/13 09:50	11/01/13 19:09	3100820
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.24	7440-22-4	11/01/13 09:50	11/01/13 19:09	3100820
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.06	7440-28-0	11/01/13 09:50	11/01/13 19:09	3100820
Vanadium	EPA 6020A	EPA 3005A	2.16	25.0	1	ug/L	J	1.97	7440-62-2	11/01/13 09:50	11/01/13 19:09	3100820

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5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-Duplicate
Lab No: AWJ0927-05
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 00:00
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Zinc	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.87	7440-66-6	11/01/13 09:50	11/01/13 19:09	3100820
Iron	EPA 6020A	EPA 3005A	242	40.0	1	ug/L		3.02	7439-89-6	11/01/13 09:50	11/01/13 19:09	3100820
Manganese	EPA 6020A	EPA 3005A	151	10.0	1	ug/L		0.550	7439-96-5	11/01/13 09:50	11/01/13 19:09	3100820
Mercury	EPA 7470A	EPA 7470A	0.062	0.200	1	ug/L	J	0.061	7439-97-6	11/07/13 11:55	11/08/13 14:08	3110134
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.6	67-64-1	10/31/13 09:30	10/31/13 18:02	3100811
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.8	107-13-1	10/31/13 09:30	10/31/13 18:02	3100811
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	71-43-2	10/31/13 09:30	10/31/13 18:02	3100811
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	10/31/13 09:30	10/31/13 18:02	3100811
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-27-4	10/31/13 09:30	10/31/13 18:02	3100811
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.6	75-25-2	10/31/13 09:30	10/31/13 18:02	3100811
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.9	74-83-9	10/31/13 09:30	10/31/13 18:02	3100811
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.2	75-15-0	10/31/13 09:30	10/31/13 18:02	3100811
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	10/31/13 09:30	10/31/13 18:02	3100811
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	10/31/13 09:30	10/31/13 18:02	3100811
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	75-00-3	10/31/13 09:30	10/31/13 18:02	3100811
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	67-66-3	10/31/13 09:30	10/31/13 18:02	3100811
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	74-87-3	10/31/13 09:30	10/31/13 18:02	3100811
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	124-48-1	10/31/13 09:30	10/31/13 18:02	3100811
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	10/31/13 09:30	10/31/13 18:02	3100811
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	10/31/13 09:30	10/31/13 18:02	3100811

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-Duplicate
Lab No: AWJ0927-05
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 00:00
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	10/31/13 09:30	10/31/13 18:02	3100811
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	95-50-1	10/31/13 09:30	10/31/13 18:02	3100811
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	106-46-7	10/31/13 09:30	10/31/13 18:02	3100811
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	10/31/13 09:30	10/31/13 18:02	3100811
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-34-3	10/31/13 09:30	10/31/13 18:02	3100811
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	10/31/13 09:30	10/31/13 18:02	3100811
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-35-4	10/31/13 09:30	10/31/13 18:02	3100811
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-59-2	10/31/13 09:30	10/31/13 18:02	3100811
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-60-5	10/31/13 09:30	10/31/13 18:02	3100811
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	78-87-5	10/31/13 09:30	10/31/13 18:02	3100811
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	10061-01-5	10/31/13 09:30	10/31/13 18:02	3100811
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	10061-02-6	10/31/13 09:30	10/31/13 18:02	3100811
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	100-41-4	10/31/13 09:30	10/31/13 18:02	3100811
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.0	74-88-4	10/31/13 09:30	10/31/13 18:02	3100811
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.9	591-78-6	10/31/13 09:30	10/31/13 18:02	3100811
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-09-2	10/31/13 09:30	10/31/13 18:02	3100811
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	78-93-3	10/31/13 09:30	10/31/13 18:02	3100811
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.8	108-10-1	10/31/13 09:30	10/31/13 18:02	3100811
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-42-5	10/31/13 09:30	10/31/13 18:02	3100811
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	630-20-6	10/31/13 09:30	10/31/13 18:02	3100811
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-34-5	10/31/13 09:30	10/31/13 18:02	3100811

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-Duplicate
Lab No: AWJ0927-05
Matrix: Ground Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 00:00
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	10/31/13 09:30	10/31/13 18:02	3100811
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	108-88-3	10/31/13 09:30	10/31/13 18:02	3100811
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	71-55-6	10/31/13 09:30	10/31/13 18:02	3100811
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-00-5	10/31/13 09:30	10/31/13 18:02	3100811
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-01-6	10/31/13 09:30	10/31/13 18:02	3100811
Trichlorofluoromethane	EPA 8260B	EPA 5030B	1.8	1.0	1	ug/L		0.4	75-69-4	10/31/13 09:30	10/31/13 18:02	3100811
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	10/31/13 09:30	10/31/13 18:02	3100811
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	108-05-4	10/31/13 09:30	10/31/13 18:02	3100811
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	10/31/13 09:30	10/31/13 18:02	3100811
Xylenes, total	EPA 8260B	EPA 5030B	ND	4.0	1	ug/L		0.6	1330-20-7	10/31/13 09:30	10/31/13 18:02	3100811
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	95 %		80-120				1868-53-7	10/31/13 09:30	10/31/13 18:02	3100811
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	104 %		78-120				17060-07-0	10/31/13 09:30	10/31/13 18:02	3100811
Surr: Toluene-d8	EPA 8260B	EPA 5030B	103 %		80-120				2037-26-5	10/31/13 09:30	10/31/13 18:02	3100811
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	102 %		80-120				460-00-4	10/31/13 09:30	10/31/13 18:02	3100811
Tetrahydrofuran	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.8	109-99-9	10/31/13 09:30	10/31/13 18:02	3100811

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Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-Field Blank
Lab No: AWJ0927-06
Matrix: Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 12:51
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
General Chemistry												
Alkalinity as CaCO3	SM 2320 B	SM 2320 B	2000	1000	1	ug/L		1000	ALK	11/07/13 13:30	11/07/13 13:30	3110139
Total Dissolved Solids	SM 2540 C	SM 2540 C	ND	5000	1	ug/L		5000	E-10173	11/04/13 16:00	11/04/13 16:00	3110012
Inorganic Anions												
Chloride	EPA 9056A	EPA 300.0	ND	1000	1	ug/L		1000	16887-00-6	11/07/13 06:28	11/07/13 06:28	3110145
Sulfate	EPA 9056A	EPA 300.0	ND	5000	1	ug/L		5000	14808-79-8	11/07/13 06:28	11/07/13 06:28	3110145
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.22	7440-36-0	11/01/13 09:50	11/01/13 19:15	3100820
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.78	7440-38-2	11/01/13 09:50	11/01/13 19:15	3100820
Barium	EPA 6020A	EPA 3005A	1.78	100	1	ug/L	J	0.25	7440-39-3	11/01/13 09:50	11/01/13 19:15	3100820
Beryllium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.11	7440-41-7	11/01/13 09:50	11/01/13 19:15	3100820
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	11/01/13 09:50	11/01/13 19:15	3100820
Chromium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.58	7440-47-3	11/01/13 09:50	11/01/13 19:15	3100820
Cobalt	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.12	7440-48-4	11/01/13 09:50	11/01/13 19:15	3100820
Copper	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.38	7440-50-8	11/01/13 09:50	11/01/13 19:15	3100820
Lead	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.05	7439-92-1	11/01/13 09:50	11/01/13 19:15	3100820
Nickel	EPA 6020A	EPA 3005A	ND	50.0	1	ug/L		0.41	7440-02-0	11/01/13 09:50	11/01/13 19:15	3100820
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.77	7782-49-2	11/01/13 09:50	11/01/13 19:15	3100820
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.24	7440-22-4	11/01/13 09:50	11/01/13 19:15	3100820
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.06	7440-28-0	11/01/13 09:50	11/01/13 19:15	3100820
Vanadium	EPA 6020A	EPA 3005A	ND	25.0	1	ug/L		1.97	7440-62-2	11/01/13 09:50	11/01/13 19:15	3100820
Zinc	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.87	7440-66-6	11/01/13 09:50	11/01/13 19:15	3100820

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-Field Blank
Lab No: AWJ0927-06
Matrix: Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 12:51
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Iron	EPA 6020A	EPA 3005A	ND	40.0	1	ug/L		3.02	7439-89-6	11/01/13 09:50	11/01/13 19:15	3100820
Manganese	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.550	7439-96-5	11/01/13 09:50	11/01/13 19:15	3100820
Mercury	EPA 7470A	EPA 7470A	0.080	0.200	1	ug/L	J	0.061	7439-97-6	11/07/13 11:55	11/08/13 14:15	3110134
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.6	67-64-1	10/31/13 09:30	10/31/13 18:30	3100811
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.8	107-13-1	10/31/13 09:30	10/31/13 18:30	3100811
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	71-43-2	10/31/13 09:30	10/31/13 18:30	3100811
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	10/31/13 09:30	10/31/13 18:30	3100811
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-27-4	10/31/13 09:30	10/31/13 18:30	3100811
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.6	75-25-2	10/31/13 09:30	10/31/13 18:30	3100811
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.9	74-83-9	10/31/13 09:30	10/31/13 18:30	3100811
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.2	75-15-0	10/31/13 09:30	10/31/13 18:30	3100811
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	10/31/13 09:30	10/31/13 18:30	3100811
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	10/31/13 09:30	10/31/13 18:30	3100811
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	75-00-3	10/31/13 09:30	10/31/13 18:30	3100811
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	67-66-3	10/31/13 09:30	10/31/13 18:30	3100811
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	74-87-3	10/31/13 09:30	10/31/13 18:30	3100811
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	124-48-1	10/31/13 09:30	10/31/13 18:30	3100811
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	10/31/13 09:30	10/31/13 18:30	3100811
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	10/31/13 09:30	10/31/13 18:30	3100811
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	10/31/13 09:30	10/31/13 18:30	3100811

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Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-Field Blank
Lab No: AWJ0927-06
Matrix: Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 12:51
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	95-50-1	10/31/13 09:30	10/31/13 18:30	3100811
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	106-46-7	10/31/13 09:30	10/31/13 18:30	3100811
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	10/31/13 09:30	10/31/13 18:30	3100811
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-34-3	10/31/13 09:30	10/31/13 18:30	3100811
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	10/31/13 09:30	10/31/13 18:30	3100811
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-35-4	10/31/13 09:30	10/31/13 18:30	3100811
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-59-2	10/31/13 09:30	10/31/13 18:30	3100811
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-60-5	10/31/13 09:30	10/31/13 18:30	3100811
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	78-87-5	10/31/13 09:30	10/31/13 18:30	3100811
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	10061-01-5	10/31/13 09:30	10/31/13 18:30	3100811
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	10061-02-6	10/31/13 09:30	10/31/13 18:30	3100811
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	100-41-4	10/31/13 09:30	10/31/13 18:30	3100811
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.0	74-88-4	10/31/13 09:30	10/31/13 18:30	3100811
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.9	591-78-6	10/31/13 09:30	10/31/13 18:30	3100811
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-09-2	10/31/13 09:30	10/31/13 18:30	3100811
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	78-93-3	10/31/13 09:30	10/31/13 18:30	3100811
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.8	108-10-1	10/31/13 09:30	10/31/13 18:30	3100811
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-42-5	10/31/13 09:30	10/31/13 18:30	3100811
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	630-20-6	10/31/13 09:30	10/31/13 18:30	3100811
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-34-5	10/31/13 09:30	10/31/13 18:30	3100811
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	10/31/13 09:30	10/31/13 18:30	3100811

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-Field Blank
Lab No: AWJ0927-06
Matrix: Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 12:51
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	108-88-3	10/31/13 09:30	10/31/13 18:30	3100811
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	71-55-6	10/31/13 09:30	10/31/13 18:30	3100811
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-00-5	10/31/13 09:30	10/31/13 18:30	3100811
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-01-6	10/31/13 09:30	10/31/13 18:30	3100811
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	75-69-4	10/31/13 09:30	10/31/13 18:30	3100811
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	10/31/13 09:30	10/31/13 18:30	3100811
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	108-05-4	10/31/13 09:30	10/31/13 18:30	3100811
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	10/31/13 09:30	10/31/13 18:30	3100811
Xylenes, total	EPA 8260B	EPA 5030B	ND	4.0	1	ug/L		0.6	1330-20-7	10/31/13 09:30	10/31/13 18:30	3100811
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	94 %		80-120				1868-53-7	10/31/13 09:30	10/31/13 18:30	3100811
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	105 %		78-120				17060-07-0	10/31/13 09:30	10/31/13 18:30	3100811
Surr: Toluene-d8	EPA 8260B	EPA 5030B	102 %		80-120				2037-26-5	10/31/13 09:30	10/31/13 18:30	3100811
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	102 %		80-120				460-00-4	10/31/13 09:30	10/31/13 18:30	3100811
Tetrahydrofuran	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.8	109-99-9	10/31/13 09:30	10/31/13 18:30	3100811

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Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-Trip Blank
Lab No: AWJ0927-07
Matrix: Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 00:00
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.6	67-64-1	10/31/13 09:30	10/31/13 18:58	3100811
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.8	107-13-1	10/31/13 09:30	10/31/13 18:58	3100811
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	71-43-2	10/31/13 09:30	10/31/13 18:58	3100811
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	10/31/13 09:30	10/31/13 18:58	3100811
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-27-4	10/31/13 09:30	10/31/13 18:58	3100811
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.6	75-25-2	10/31/13 09:30	10/31/13 18:58	3100811
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.9	74-83-9	10/31/13 09:30	10/31/13 18:58	3100811
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.2	75-15-0	10/31/13 09:30	10/31/13 18:58	3100811
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	10/31/13 09:30	10/31/13 18:58	3100811
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	10/31/13 09:30	10/31/13 18:58	3100811
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	75-00-3	10/31/13 09:30	10/31/13 18:58	3100811
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	67-66-3	10/31/13 09:30	10/31/13 18:58	3100811
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	74-87-3	10/31/13 09:30	10/31/13 18:58	3100811
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	124-48-1	10/31/13 09:30	10/31/13 18:58	3100811
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	10/31/13 09:30	10/31/13 18:58	3100811
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	10/31/13 09:30	10/31/13 18:58	3100811
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	10/31/13 09:30	10/31/13 18:58	3100811
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	95-50-1	10/31/13 09:30	10/31/13 18:58	3100811
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	106-46-7	10/31/13 09:30	10/31/13 18:58	3100811
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	10/31/13 09:30	10/31/13 18:58	3100811
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-34-3	10/31/13 09:30	10/31/13 18:58	3100811
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	10/31/13 09:30	10/31/13 18:58	3100811

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-Trip Blank
Lab No: AWJ0927-07
Matrix: Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 00:00
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-35-4	10/31/13 09:30	10/31/13 18:58	3100811
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-59-2	10/31/13 09:30	10/31/13 18:58	3100811
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-60-5	10/31/13 09:30	10/31/13 18:58	3100811
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	78-87-5	10/31/13 09:30	10/31/13 18:58	3100811
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	10061-01-5	10/31/13 09:30	10/31/13 18:58	3100811
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	10061-02-6	10/31/13 09:30	10/31/13 18:58	3100811
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	100-41-4	10/31/13 09:30	10/31/13 18:58	3100811
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.0	74-88-4	10/31/13 09:30	10/31/13 18:58	3100811
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.9	591-78-6	10/31/13 09:30	10/31/13 18:58	3100811
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-09-2	10/31/13 09:30	10/31/13 18:58	3100811
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	78-93-3	10/31/13 09:30	10/31/13 18:58	3100811
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.8	108-10-1	10/31/13 09:30	10/31/13 18:58	3100811
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-42-5	10/31/13 09:30	10/31/13 18:58	3100811
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	630-20-6	10/31/13 09:30	10/31/13 18:58	3100811
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-34-5	10/31/13 09:30	10/31/13 18:58	3100811
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	10/31/13 09:30	10/31/13 18:58	3100811
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	108-88-3	10/31/13 09:30	10/31/13 18:58	3100811
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	71-55-6	10/31/13 09:30	10/31/13 18:58	3100811
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-00-5	10/31/13 09:30	10/31/13 18:58	3100811
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-01-6	10/31/13 09:30	10/31/13 18:58	3100811
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	75-69-4	10/31/13 09:30	10/31/13 18:58	3100811

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Environmental Monitoring & Laboratory Analysis
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(770) 734-4200 FAX (770) 734-4201

Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-Trip Blank
Lab No: AWJ0927-07
Matrix: Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 00:00
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	10/31/13 09:30	10/31/13 18:58	3100811
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	108-05-4	10/31/13 09:30	10/31/13 18:58	3100811
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	10/31/13 09:30	10/31/13 18:58	3100811
Xylenes, total	EPA 8260B	EPA 5030B	ND	4.0	1	ug/L		0.6	1330-20-7	10/31/13 09:30	10/31/13 18:58	3100811
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	93 %		80-120				1868-53-7	10/31/13 09:30	10/31/13 18:58	3100811
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	105 %		78-120				17060-07-0	10/31/13 09:30	10/31/13 18:58	3100811
Surr: Toluene-d8	EPA 8260B	EPA 5030B	102 %		80-120				2037-26-5	10/31/13 09:30	10/31/13 18:58	3100811
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	103 %		80-120				460-00-4	10/31/13 09:30	10/31/13 18:58	3100811
Tetrahydrofuran	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.8	109-99-9	10/31/13 09:30	10/31/13 18:58	3100811

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Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-SW1
Lab No: AWJ0927-08
Matrix: Surface Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 15:07
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
On Site												
Field - Specific Conductance	EPA 9050A	NA	129	1	1	umhos/cm		1	COND	10/29/13 15:07	10/29/13 15:07	3110070
Dissolved Oxygen	SM 4500-O G	NA	7020	0.0	1	ug/L		0.0	NA	10/29/13 15:07	10/29/13 15:07	3110070
Field - pH	EPA 9040C	NA	6.34		1	pH Units			PH	10/29/13 15:07	10/29/13 15:07	3110070
Field - Temperature	SM 2550 B	NA	17.1		1	°C			TEMP	10/29/13 15:07	10/29/13 15:07	3110070
Field - Turbidity	EPA 180.1	NA	1.88		1	NTU			TURB	10/29/13 15:07	10/29/13 15:07	3110070
General Chemistry												
Alkalinity as CaCO3	SM 2320 B	SM 2320 B	48000	1000	1	ug/L		1000	ALK	11/07/13 13:30	11/07/13 13:30	3110139
Total Dissolved Solids	SM 2540 C	SM 2540 C	91500	5000	1	ug/L		5000	E-10173	11/04/13 16:00	11/04/13 16:00	3110012
Inorganic Anions												
Chloride	EPA 9056A	EPA 300.0	5200	1000	1	ug/L		1000	16887-00-6	11/07/13 06:49	11/07/13 06:49	3110145
Sulfate	EPA 9056A	EPA 300.0	ND	5000	1	ug/L		5000	14808-79-8	11/07/13 06:49	11/07/13 06:49	3110145
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.22	7440-36-0	11/01/13 09:50	11/01/13 19:21	3100820
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.78	7440-38-2	11/01/13 09:50	11/01/13 19:21	3100820
Barium	EPA 6020A	EPA 3005A	36.3	100	1	ug/L	J	0.25	7440-39-3	11/01/13 09:50	11/01/13 19:21	3100820
Beryllium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.11	7440-41-7	11/01/13 09:50	11/01/13 19:21	3100820
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	11/01/13 09:50	11/01/13 19:21	3100820
Chromium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.58	7440-47-3	11/01/13 09:50	11/01/13 19:21	3100820
Cobalt	EPA 6020A	EPA 3005A	0.47	10.0	1	ug/L	J	0.12	7440-48-4	11/01/13 09:50	11/01/13 19:21	3100820

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5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-SW1
Lab No: AWJ0927-08
Matrix: Surface Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 15:07
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Copper	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.38	7440-50-8	11/01/13 09:50	11/01/13 19:21	3100820
Lead	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.05	7439-92-1	11/01/13 09:50	11/01/13 19:21	3100820
Nickel	EPA 6020A	EPA 3005A	0.43	50.0	1	ug/L	J	0.41	7440-02-0	11/01/13 09:50	11/01/13 19:21	3100820
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.77	7782-49-2	11/01/13 09:50	11/01/13 19:21	3100820
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.24	7440-22-4	11/01/13 09:50	11/01/13 19:21	3100820
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.06	7440-28-0	11/01/13 09:50	11/01/13 19:21	3100820
Vanadium	EPA 6020A	EPA 3005A	4.18	25.0	1	ug/L	J	1.97	7440-62-2	11/01/13 09:50	11/01/13 19:21	3100820
Zinc	EPA 6020A	EPA 3005A	6.49	10.0	1	ug/L	J	0.87	7440-66-6	11/01/13 09:50	11/01/13 19:21	3100820
Iron	EPA 6020A	EPA 3005A	1120	40.0	1	ug/L		3.02	7439-89-6	11/01/13 09:50	11/01/13 19:21	3100820
Manganese	EPA 6020A	EPA 3005A	186	10.0	1	ug/L		0.550	7439-96-5	11/01/13 09:50	11/01/13 19:21	3100820
Mercury	EPA 7470A	EPA 7470A	0.106	0.200	1	ug/L	J	0.061	7439-97-6	11/07/13 11:55	11/08/13 14:18	3110134
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.6	67-64-1	10/31/13 09:30	10/31/13 19:27	3100811
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.8	107-13-1	10/31/13 09:30	10/31/13 19:27	3100811
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	71-43-2	10/31/13 09:30	10/31/13 19:27	3100811
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	10/31/13 09:30	10/31/13 19:27	3100811
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-27-4	10/31/13 09:30	10/31/13 19:27	3100811
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.6	75-25-2	10/31/13 09:30	10/31/13 19:27	3100811
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.9	74-83-9	10/31/13 09:30	10/31/13 19:27	3100811
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.2	75-15-0	10/31/13 09:30	10/31/13 19:27	3100811
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	10/31/13 09:30	10/31/13 19:27	3100811

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ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-SW1
Lab No: AWJ0927-08
Matrix: Surface Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 15:07
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	10/31/13 09:30	10/31/13 19:27	3100811
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	75-00-3	10/31/13 09:30	10/31/13 19:27	3100811
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	67-66-3	10/31/13 09:30	10/31/13 19:27	3100811
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	74-87-3	10/31/13 09:30	10/31/13 19:27	3100811
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	124-48-1	10/31/13 09:30	10/31/13 19:27	3100811
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	10/31/13 09:30	10/31/13 19:27	3100811
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	10/31/13 09:30	10/31/13 19:27	3100811
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	10/31/13 09:30	10/31/13 19:27	3100811
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	95-50-1	10/31/13 09:30	10/31/13 19:27	3100811
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	106-46-7	10/31/13 09:30	10/31/13 19:27	3100811
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	10/31/13 09:30	10/31/13 19:27	3100811
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-34-3	10/31/13 09:30	10/31/13 19:27	3100811
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	10/31/13 09:30	10/31/13 19:27	3100811
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-35-4	10/31/13 09:30	10/31/13 19:27	3100811
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-59-2	10/31/13 09:30	10/31/13 19:27	3100811
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-60-5	10/31/13 09:30	10/31/13 19:27	3100811
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	78-87-5	10/31/13 09:30	10/31/13 19:27	3100811
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	10061-01-5	10/31/13 09:30	10/31/13 19:27	3100811
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	10061-02-6	10/31/13 09:30	10/31/13 19:27	3100811
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	100-41-4	10/31/13 09:30	10/31/13 19:27	3100811
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.0	74-88-4	10/31/13 09:30	10/31/13 19:27	3100811
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.9	591-78-6	10/31/13 09:30	10/31/13 19:27	3100811

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110 Technology Parkway, Norcross, GA 30092

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Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-SW1
Lab No: AWJ0927-08
Matrix: Surface Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 15:07
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-09-2	10/31/13 09:30	10/31/13 19:27	3100811
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	78-93-3	10/31/13 09:30	10/31/13 19:27	3100811
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.8	108-10-1	10/31/13 09:30	10/31/13 19:27	3100811
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-42-5	10/31/13 09:30	10/31/13 19:27	3100811
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	630-20-6	10/31/13 09:30	10/31/13 19:27	3100811
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-34-5	10/31/13 09:30	10/31/13 19:27	3100811
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	10/31/13 09:30	10/31/13 19:27	3100811
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	108-88-3	10/31/13 09:30	10/31/13 19:27	3100811
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	71-55-6	10/31/13 09:30	10/31/13 19:27	3100811
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-00-5	10/31/13 09:30	10/31/13 19:27	3100811
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-01-6	10/31/13 09:30	10/31/13 19:27	3100811
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	75-69-4	10/31/13 09:30	10/31/13 19:27	3100811
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	10/31/13 09:30	10/31/13 19:27	3100811
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	108-05-4	10/31/13 09:30	10/31/13 19:27	3100811
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	10/31/13 09:30	10/31/13 19:27	3100811
Xylenes, total	EPA 8260B	EPA 5030B	ND	4.0	1	ug/L		0.6	1330-20-7	10/31/13 09:30	10/31/13 19:27	3100811
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	93 %		80-120				1868-53-7	10/31/13 09:30	10/31/13 19:27	3100811
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	103 %		78-120				17060-07-0	10/31/13 09:30	10/31/13 19:27	3100811
Surr: Toluene-d8	EPA 8260B	EPA 5030B	102 %		80-120				2037-26-5	10/31/13 09:30	10/31/13 19:27	3100811
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	101 %		80-120				460-00-4	10/31/13 09:30	10/31/13 19:27	3100811
Tetrahydrofuran	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.8	109-99-9	10/31/13 09:30	10/31/13 19:27	3100811

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Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-SW2
Lab No: AWJ0927-09
Matrix: Surface Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 14:01
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
On Site												
Field - Specific Conductance	EPA 9050A	NA	154	1	1	umhos/cm		1	COND	10/29/13 14:01	10/29/13 14:01	3110070
Dissolved Oxygen	SM 4500-O G	NA	4510	0.0	1	ug/L		0.0	NA	10/29/13 14:01	10/29/13 14:01	3110070
Field - pH	EPA 9040C	NA	6.32		1	pH Units			PH	10/29/13 14:01	10/29/13 14:01	3110070
Field - Temperature	SM 2550 B	NA	16.2		1	°C			TEMP	10/29/13 14:01	10/29/13 14:01	3110070
Field - Turbidity	EPA 180.1	NA	5.31		1	NTU			TURB	10/29/13 14:01	10/29/13 14:01	3110070
General Chemistry												
Alkalinity as CaCO3	SM 2320 B	SM 2320 B	60000	1000	1	ug/L		1000	ALK	11/07/13 13:30	11/07/13 13:30	3110139
Total Dissolved Solids	SM 2540 C	SM 2540 C	106000	5000	1	ug/L		5000	E-10173	11/04/13 16:00	11/04/13 16:00	3110012
Inorganic Anions												
Chloride	EPA 9056A	EPA 300.0	4900	1000	1	ug/L		1000	16887-00-6	11/07/13 07:10	11/07/13 07:10	3110145
Sulfate	EPA 9056A	EPA 300.0	6700	5000	1	ug/L		5000	14808-79-8	11/07/13 07:10	11/07/13 07:10	3110145
Metals, Total												
Antimony	EPA 6020A	EPA 3005A	ND	6.00	1	ug/L		0.22	7440-36-0	11/01/13 09:50	11/01/13 19:27	3100820
Arsenic	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.78	7440-38-2	11/01/13 09:50	11/01/13 19:27	3100820
Barium	EPA 6020A	EPA 3005A	40.5	100	1	ug/L	J	0.25	7440-39-3	11/01/13 09:50	11/01/13 19:27	3100820
Beryllium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.11	7440-41-7	11/01/13 09:50	11/01/13 19:27	3100820
Cadmium	EPA 6020A	EPA 3005A	ND	1.00	1	ug/L		0.06	7440-43-9	11/01/13 09:50	11/01/13 19:27	3100820
Chromium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.58	7440-47-3	11/01/13 09:50	11/01/13 19:27	3100820
Cobalt	EPA 6020A	EPA 3005A	0.38	10.0	1	ug/L	J	0.12	7440-48-4	11/01/13 09:50	11/01/13 19:27	3100820

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Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-SW2
Lab No: AWJ0927-09
Matrix: Surface Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 14:01
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Metals, Total												
Copper	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.38	7440-50-8	11/01/13 09:50	11/01/13 19:27	3100820
Lead	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.05	7439-92-1	11/01/13 09:50	11/01/13 19:27	3100820
Nickel	EPA 6020A	EPA 3005A	0.62	50.0	1	ug/L	J	0.41	7440-02-0	11/01/13 09:50	11/01/13 19:27	3100820
Selenium	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.77	7782-49-2	11/01/13 09:50	11/01/13 19:27	3100820
Silver	EPA 6020A	EPA 3005A	ND	10.0	1	ug/L		0.24	7440-22-4	11/01/13 09:50	11/01/13 19:27	3100820
Thallium	EPA 6020A	EPA 3005A	ND	5.50	1	ug/L		0.06	7440-28-0	11/01/13 09:50	11/01/13 19:27	3100820
Vanadium	EPA 6020A	EPA 3005A	3.83	25.0	1	ug/L	J	1.97	7440-62-2	11/01/13 09:50	11/01/13 19:27	3100820
Zinc	EPA 6020A	EPA 3005A	0.97	10.0	1	ug/L	J	0.87	7440-66-6	11/01/13 09:50	11/01/13 19:27	3100820
Iron	EPA 6020A	EPA 3005A	746	40.0	1	ug/L		3.02	7439-89-6	11/01/13 09:50	11/01/13 19:27	3100820
Manganese	EPA 6020A	EPA 3005A	170	10.0	1	ug/L		0.550	7439-96-5	11/01/13 09:50	11/01/13 19:27	3100820
Mercury	EPA 7470A	EPA 7470A	0.096	0.200	1	ug/L	J	0.061	7439-97-6	11/07/13 11:55	11/08/13 14:20	3110134
Volatile Organic Compounds by EPA 8260												
Acetone	EPA 8260B	EPA 5030B	1.9	100	1	ug/L	J	1.6	67-64-1	10/31/13 09:30	10/31/13 19:55	3100811
Acrylonitrile	EPA 8260B	EPA 5030B	ND	200	1	ug/L		0.8	107-13-1	10/31/13 09:30	10/31/13 19:55	3100811
Benzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	71-43-2	10/31/13 09:30	10/31/13 19:55	3100811
Bromochloromethane	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.4	74-97-5	10/31/13 09:30	10/31/13 19:55	3100811
Bromodichloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	75-27-4	10/31/13 09:30	10/31/13 19:55	3100811
Bromoform	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		1.6	75-25-2	10/31/13 09:30	10/31/13 19:55	3100811
Bromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.9	74-83-9	10/31/13 09:30	10/31/13 19:55	3100811
Carbon Disulfide	EPA 8260B	EPA 5030B	ND	100	1	ug/L		1.2	75-15-0	10/31/13 09:30	10/31/13 19:55	3100811
Carbon Tetrachloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	56-23-5	10/31/13 09:30	10/31/13 19:55	3100811

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Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-SW2
Lab No: AWJ0927-09
Matrix: Surface Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 14:01
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Chlorobenzene	EPA 8260B	EPA 5030B	ND	3.0	1	ug/L		0.3	108-90-7	10/31/13 09:30	10/31/13 19:55	3100811
Chloroethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.6	75-00-3	10/31/13 09:30	10/31/13 19:55	3100811
Chloroform	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	67-66-3	10/31/13 09:30	10/31/13 19:55	3100811
Chloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	74-87-3	10/31/13 09:30	10/31/13 19:55	3100811
Dibromochloromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	124-48-1	10/31/13 09:30	10/31/13 19:55	3100811
1,2-Dibromo-3-chloropropane	EPA 8260B	EPA 5030B	ND	13	1	ug/L		1.0	96-12-8	10/31/13 09:30	10/31/13 19:55	3100811
1,2-Dibromoethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	106-93-4	10/31/13 09:30	10/31/13 19:55	3100811
Dibromomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.4	74-95-3	10/31/13 09:30	10/31/13 19:55	3100811
1,2-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	95-50-1	10/31/13 09:30	10/31/13 19:55	3100811
1,4-Dichlorobenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	106-46-7	10/31/13 09:30	10/31/13 19:55	3100811
trans-1,4-Dichloro-2-butene	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.9	110-57-6	10/31/13 09:30	10/31/13 19:55	3100811
1,1-Dichloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-34-3	10/31/13 09:30	10/31/13 19:55	3100811
1,2-Dichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	107-06-2	10/31/13 09:30	10/31/13 19:55	3100811
1,1-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	75-35-4	10/31/13 09:30	10/31/13 19:55	3100811
cis-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-59-2	10/31/13 09:30	10/31/13 19:55	3100811
trans-1,2-Dichloroethene	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.4	156-60-5	10/31/13 09:30	10/31/13 19:55	3100811
1,2-Dichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	78-87-5	10/31/13 09:30	10/31/13 19:55	3100811
cis-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.6	10061-01-5	10/31/13 09:30	10/31/13 19:55	3100811
trans-1,3-Dichloropropene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	10061-02-6	10/31/13 09:30	10/31/13 19:55	3100811
Ethylbenzene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.5	100-41-4	10/31/13 09:30	10/31/13 19:55	3100811
Iodomethane	EPA 8260B	EPA 5030B	ND	10	1	ug/L		1.0	74-88-4	10/31/13 09:30	10/31/13 19:55	3100811
Methyl Butyl Ketone (2-Hexanone)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.9	591-78-6	10/31/13 09:30	10/31/13 19:55	3100811

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Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Client ID: 5504-SW2
Lab No: AWJ0927-09
Matrix: Surface Water

Project: Lake Norman C&D Landfill
Date/Time Sampled: 10/29/13 14:01
Date/Time Received: 10/30/13 13:20

Report No.: AWJ0927

Analyte	Analytical Method	Prep Method	Result	SWSL/ RL	DF	Units	Qual	MDL	CAS #	Prep Date/Time	Analysis Date/Time	Batch
Volatile Organic Compounds by EPA 8260												
Methylene Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	75-09-2	10/31/13 09:30	10/31/13 19:55	3100811
Methyl Ethyl Ketone (2-Butanone)	EPA 8260B	EPA 5030B	ND	100	1	ug/L		0.8	78-93-3	10/31/13 09:30	10/31/13 19:55	3100811
4-Methyl-2-pentanone (MIBK)	EPA 8260B	EPA 5030B	ND	50	1	ug/L		1.8	108-10-1	10/31/13 09:30	10/31/13 19:55	3100811
Styrene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	100-42-5	10/31/13 09:30	10/31/13 19:55	3100811
1,1,1,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	5.0	1	ug/L		0.3	630-20-6	10/31/13 09:30	10/31/13 19:55	3100811
1,1,2,2-Tetrachloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-34-5	10/31/13 09:30	10/31/13 19:55	3100811
Tetrachloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	127-18-4	10/31/13 09:30	10/31/13 19:55	3100811
Toluene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	108-88-3	10/31/13 09:30	10/31/13 19:55	3100811
1,1,1-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.8	71-55-6	10/31/13 09:30	10/31/13 19:55	3100811
1,1,2-Trichloroethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-00-5	10/31/13 09:30	10/31/13 19:55	3100811
Trichloroethene	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.3	79-01-6	10/31/13 09:30	10/31/13 19:55	3100811
Trichlorofluoromethane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	75-69-4	10/31/13 09:30	10/31/13 19:55	3100811
1,2,3-Trichloropropane	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.4	96-18-4	10/31/13 09:30	10/31/13 19:55	3100811
Vinyl Acetate	EPA 8260B	EPA 5030B	ND	50	1	ug/L		0.6	108-05-4	10/31/13 09:30	10/31/13 19:55	3100811
Vinyl Chloride	EPA 8260B	EPA 5030B	ND	1.0	1	ug/L		0.2	75-01-4	10/31/13 09:30	10/31/13 19:55	3100811
Xylenes, total	EPA 8260B	EPA 5030B	ND	4.0	1	ug/L		0.6	1330-20-7	10/31/13 09:30	10/31/13 19:55	3100811
Surr: Dibromofluoromethane	EPA 8260B	EPA 5030B	92 %		80-120				1868-53-7	10/31/13 09:30	10/31/13 19:55	3100811
Surr: 1,2-Dichloroethane-d4	EPA 8260B	EPA 5030B	103 %		78-120				17060-07-0	10/31/13 09:30	10/31/13 19:55	3100811
Surr: Toluene-d8	EPA 8260B	EPA 5030B	101 %		80-120				2037-26-5	10/31/13 09:30	10/31/13 19:55	3100811
Surr: 4-Bromofluorobenzene	EPA 8260B	EPA 5030B	103 %		80-120				460-00-4	10/31/13 09:30	10/31/13 19:55	3100811
Tetrahydrofuran	EPA 8260B	EPA 5030B	ND	10	1	ug/L		0.8	109-99-9	10/31/13 09:30	10/31/13 19:55	3100811

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General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3110012 - SM 2540 C										
Blank (3110012-BLK1)							Prepared & Analyzed: 11/04/13			
Total Dissolved Solids	ND	5000	ug/L							
LCS (3110012-BS1)							Prepared & Analyzed: 11/04/13			
Total Dissolved Solids	390000	5000	ug/L	400000		97	84-108			
Duplicate (3110012-DUP1)		**Source: AWJ0927-02**					Prepared & Analyzed: 11/04/13			
Total Dissolved Solids	83500	5000	ug/L		83000			0.6	10	
Batch 3110139 - SM 2320 B										
Blank (3110139-BLK1)							Prepared & Analyzed: 11/07/13			
Alkalinity as CaCO3	ND	1000	ug/L							
LCS (3110139-BS1)							Prepared & Analyzed: 11/07/13			
Alkalinity as CaCO3	94000	1000	ug/L	100000		94	85-115			
Duplicate (3110139-DUP1)		**Source: AWJ0927-01**					Prepared & Analyzed: 11/07/13			
Alkalinity as CaCO3	84000	1000	ug/L		84000			0	10	

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Inorganic Anions - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3110145 - EPA 300.0										
Blank (3110145-BLK1)							Prepared & Analyzed: 11/06/13			
Chloride	ND	1000	ug/L							
Sulfate	ND	5000	ug/L							
LCS (3110145-BS1)							Prepared & Analyzed: 11/06/13			
Chloride	9620	1000	ug/L	10000		96	90-110			
Sulfate	9740	5000	ug/L	10000		97	90-110			
Matrix Spike (3110145-MS1)		**Source: AWK0128-01**					Prepared & Analyzed: 11/07/13			
Chloride	28900	1000	ug/L	10000	19700	92	90-110			
Sulfate	12600	5000	ug/L	10000	2980	96	90-110			
Matrix Spike (3110145-MS2)		**Source: AWJ0927-09**					Prepared & Analyzed: 11/07/13			
Chloride	14600	1000	ug/L	10000	4890	97	90-110			
Sulfate	15900	5000	ug/L	10000	6690	92	90-110			
Matrix Spike Dup (3110145-MSD1)		**Source: AWK0128-01**					Prepared & Analyzed: 11/07/13			
Chloride	28900	1000	ug/L	10000	19700	92	90-110	0.1	15	
Sulfate	12600	5000	ug/L	10000	2980	96	90-110	0.07	15	

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Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3100820 - EPA 3005A										
Blank (3100820-BLK1)							Prepared & Analyzed: 11/01/13			
Antimony	ND	6.00	ug/L							
Arsenic	ND	10.0	ug/L							
Barium	ND	100	ug/L							
Beryllium	ND	1.00	ug/L							
Cadmium	ND	1.00	ug/L							
Chromium	ND	10.0	ug/L							
Cobalt	ND	10.0	ug/L							
Copper	ND	10.0	ug/L							
Iron	ND	40.0	ug/L							
Lead	ND	10.0	ug/L							
Manganese	ND	10.0	ug/L							
Nickel	ND	50.0	ug/L							
Selenium	ND	10.0	ug/L							
Silver	ND	10.0	ug/L							
Thallium	ND	5.50	ug/L							
Vanadium	ND	25.0	ug/L							
Zinc	ND	10.0	ug/L							
Nickel	ND	50.0	ug/L							
LCS (3100820-BS1)							Prepared & Analyzed: 11/01/13			
Antimony	102	6.00	ug/L	100.00		102	80-120			
Arsenic	99.7	10.0	ug/L	100.00		100	80-120			
Barium	98.2	100	ug/L	100.00		98	80-120			J
Beryllium	96.7	1.00	ug/L	100.00		97	80-120			
Cadmium	102	1.00	ug/L	100.00		102	80-120			
Chromium	100	10.0	ug/L	100.00		100	80-120			
Cobalt	97.4	10.0	ug/L	100.00		97	80-120			

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Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3100820 - EPA 3005A										
LCS (3100820-BS1)							Prepared & Analyzed: 11/01/13			
Copper	99.1	10.0	ug/L	100.00		99	80-120			
Iron	997	40.0	ug/L	1000.0		100	80-120			
Lead	100	10.0	ug/L	100.00		100	80-120			
Manganese	100	10.0	ug/L	100.00		100	80-120			
Nickel	98.0	50.0	ug/L	100.00		98	80-120			
Selenium	100	10.0	ug/L	100.00		100	80-120			
Silver	104	10.0	ug/L	100.00		104	80-120			
Thallium	99.7	5.50	ug/L	100.00		100	80-120			
Vanadium	101	25.0	ug/L	100.00		101	80-120			
Zinc	102	10.0	ug/L	100.00		102	80-120			
Nickel	98.0	50.0	ug/L	100.00		98	80-120			
Matrix Spike (3100820-MS1)	**Source: AWJ0927-01**						Prepared & Analyzed: 11/01/13			
Antimony	99.5	6.00	ug/L	100.00	ND	99	75-125			
Arsenic	89.4	10.0	ug/L	100.00	ND	89	75-125			
Barium	170	100	ug/L	100.00	76.8	94	75-125			
Beryllium	96.2	1.00	ug/L	100.00	ND	96	75-125			
Cadmium	98.6	1.00	ug/L	100.00	ND	99	75-125			
Chromium	92.0	10.0	ug/L	100.00	ND	92	75-125			
Cobalt	89.4	10.0	ug/L	100.00	ND	89	75-125			
Copper	89.4	10.0	ug/L	100.00	0.39	89	75-125			
Iron	1030	40.0	ug/L	1000.0	119	91	75-125			
Lead	95.3	10.0	ug/L	100.00	ND	95	75-125			
Manganese	98.4	10.0	ug/L	100.00	8.04	90	75-125			
Nickel	90.3	50.0	ug/L	100.00	1.11	89	75-125			
Selenium	89.6	10.0	ug/L	100.00	ND	90	75-125			
Silver	99.7	10.0	ug/L	100.00	ND	100	75-125			

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Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3100820 - EPA 3005A										
Matrix Spike (3100820-MS1)		**Source: AWJ0927-01**					Prepared & Analyzed: 11/01/13			
Thallium	95.2	5.50	ug/L	100.00	ND	95	75-125			
Vanadium	98.1	25.0	ug/L	100.00	5.79	92	75-125			
Zinc	90.3	10.0	ug/L	100.00	ND	90	75-125			
Nickel	90.3	50.0	ug/L	100.00	1.11	89	75-125			
Matrix Spike Dup (3100820-MSD1)		**Source: AWJ0927-01**					Prepared & Analyzed: 11/01/13			
Antimony	102	6.00	ug/L	100.00	ND	102	75-125	2	20	
Arsenic	91.6	10.0	ug/L	100.00	ND	92	75-125	2	20	
Barium	179	100	ug/L	100.00	76.8	102	75-125	5	20	
Beryllium	96.7	1.00	ug/L	100.00	ND	97	75-125	0.5	20	
Cadmium	102	1.00	ug/L	100.00	ND	102	75-125	3	20	
Chromium	93.6	10.0	ug/L	100.00	ND	94	75-125	2	20	
Cobalt	91.2	10.0	ug/L	100.00	ND	91	75-125	2	20	
Copper	90.4	10.0	ug/L	100.00	0.39	90	75-125	1	20	
Iron	1130	40.0	ug/L	1000.0	119	101	75-125	10	20	
Lead	97.2	10.0	ug/L	100.00	ND	97	75-125	2	20	
Manganese	104	10.0	ug/L	100.00	8.04	96	75-125	6	20	
Nickel	90.7	50.0	ug/L	100.00	1.11	90	75-125	0.5	20	
Selenium	91.2	10.0	ug/L	100.00	ND	91	75-125	2	20	
Silver	103	10.0	ug/L	100.00	ND	103	75-125	4	20	
Thallium	96.6	5.50	ug/L	100.00	ND	97	75-125	2	20	
Vanadium	99.3	25.0	ug/L	100.00	5.79	94	75-125	1	20	
Zinc	92.7	10.0	ug/L	100.00	ND	93	75-125	3	20	
Nickel	90.7	50.0	ug/L	100.00	1.11	90	75-125	0.5	20	
Post Spike (3100820-PS1)		**Source: AWJ0927-01**					Prepared & Analyzed: 11/01/13			
Antimony	94.8		ug/L	100.00	0.13	95	80-120			

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Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3100820 - EPA 3005A										
Post Spike (3100820-PS1)		**Source: AWJ0927-01**					Prepared & Analyzed: 11/01/13			
Arsenic	90.0		ug/L	100.00	-0.33	90	80-120			
Barium	179		ug/L	100.00	76.8	102	80-120			
Beryllium	95.6		ug/L	100.00	ND	96	80-120			
Cadmium	103		ug/L	100.00	-0.01	103	80-120			
Chromium	94.3		ug/L	100.00	0.33	94	80-120			
Cobalt	91.8		ug/L	100.00	0.06	92	80-120			
Copper	90.5		ug/L	100.00	0.39	90	80-120			
Iron	1050		ug/L	1000.0	119	93	80-120			
Lead	97.7		ug/L	100.00	-0.03	98	80-120			
Manganese	101		ug/L	100.00	8.04	93	80-120			
Nickel	90.7		ug/L	100.00	1.11	90	80-120			
Selenium	92.4		ug/L	100.00	-0.02	92	80-120			
Silver	104		ug/L	100.00	ND	104	80-120			
Thallium	97.2		ug/L	100.00	ND	97	80-120			
Vanadium	102		ug/L	100.00	5.79	96	80-120			
Zinc	93.1		ug/L	100.00	-0.29	93	80-120			
Nickel	90.7		ug/L	100.00	1.11	90	80-120			
Batch 3110134 - EPA 7470A										
Blank (3110134-BLK1)							Prepared: 11/07/13 Analyzed: 11/08/13			
Mercury	ND	0.200	ug/L							
LCS (3110134-BS1)							Prepared: 11/07/13 Analyzed: 11/08/13			
Mercury	2.30	0.200	ug/L	2.5000		92	80-120			
Matrix Spike (3110134-MS1)		**Source: AWJ0927-03**					Prepared: 11/07/13 Analyzed: 11/08/13			
Mercury	2.33	0.200	ug/L	2.5000	ND	93	75-125			

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Metals, Total - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3110134 - EPA 7470A										
Matrix Spike Dup (3110134-MSD1)		**Source: AWJ0927-03**					Prepared: 11/07/13	Analyzed: 11/08/13		
Mercury	2.25	0.200	ug/L	2.5000	ND	90	75-125	4	20	
Post Spike (3110134-PS1)		**Source: AWJ0927-03**					Prepared: 11/07/13	Analyzed: 11/08/13		
Mercury	1.56		ug/L	1.6667	0.006	93	80-120			

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3100811 - EPA 5030B										
Blank (3100811-BLK1)							Prepared & Analyzed: 10/31/13			
Acetone	ND	100	ug/L							
Acrylonitrile	ND	200	ug/L							
Benzene	ND	1.0	ug/L							
Bromochloromethane	ND	3.0	ug/L							
Bromodichloromethane	ND	1.0	ug/L							
Bromoform	ND	3.0	ug/L							
Bromomethane	ND	10	ug/L							
Carbon Disulfide	ND	100	ug/L							
Carbon Tetrachloride	ND	1.0	ug/L							
Chlorobenzene	ND	3.0	ug/L							
Chloroethane	ND	10	ug/L							
Chloroform	ND	5.0	ug/L							
Chloromethane	ND	1.0	ug/L							
Dibromochloromethane	ND	1.0	ug/L							
1,2-Dibromo-3-chloropropane	ND	13	ug/L							
1,2-Dibromoethane	ND	1.0	ug/L							
Dibromomethane	ND	10	ug/L							
1,2-Dichlorobenzene	ND	5.0	ug/L							
1,4-Dichlorobenzene	ND	1.0	ug/L							
trans-1,4-Dichloro-2-butene	ND	100	ug/L							
1,1-Dichloroethane	ND	5.0	ug/L							
1,2-Dichloroethane	ND	1.0	ug/L							
1,1-Dichloroethene	ND	5.0	ug/L							
cis-1,2-Dichloroethene	ND	5.0	ug/L							
trans-1,2-Dichloroethene	ND	5.0	ug/L							
1,2-Dichloropropane	ND	1.0	ug/L							
cis-1,3-Dichloropropene	ND	1.0	ug/L							

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Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3100811 - EPA 5030B										
Blank (3100811-BLK1)							Prepared & Analyzed: 10/31/13			
trans-1,3-Dichloropropene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
Iodomethane	ND	10	ug/L							
Methyl Butyl Ketone (2-Hexanone)	ND	50	ug/L							
Methylene Chloride	ND	1.0	ug/L							
Methyl Ethyl Ketone (2-Butanone)	ND	100	ug/L							
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L							
Styrene	ND	1.0	ug/L							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L							
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L							
Tetrachloroethene	ND	1.0	ug/L							
Tetrahydrofuran	ND	10	ug/L							
Toluene	ND	1.0	ug/L							
1,1,1-Trichloroethane	ND	1.0	ug/L							
1,1,2-Trichloroethane	ND	1.0	ug/L							
Trichloroethene	ND	1.0	ug/L							
Trichlorofluoromethane	ND	1.0	ug/L							
1,2,3-Trichloropropane	ND	1.0	ug/L							
Vinyl Acetate	ND	50	ug/L							
Vinyl Chloride	ND	1.0	ug/L							
Xylenes, total	ND	4.0	ug/L							
Surr: Dibromofluoromethane	*45*		*ug/L*	*50.000*		*91*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*49*		*ug/L*	*50.000*		*98*	*78-120*			
Surr: Toluene-d8	*51*		*ug/L*	*50.000*		*102*	*80-120*			
Surr: 4-Bromofluorobenzene	*51*		*ug/L*	*50.000*		*101*	*80-120*			

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092

(770) 734-4200 FAX (770) 734-4201

Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3100811 - EPA 5030B										
LCS (3100811-BS1)							Prepared & Analyzed: 10/31/13			
Benzene	48		ug/L	50.000		97	67-134			
Chlorobenzene	54		ug/L	50.000		108	69-122			
1,1-Dichloroethene	44		ug/L	50.000		87	58-142			
Toluene	49		ug/L	50.000		98	68-127			
Trichloroethene	49		ug/L	50.000		98	72-132			
Surr: Dibromofluoromethane	*46*		*ug/L*	*50.000*		*91*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*49*		*ug/L*	*50.000*		*98*	*78-120*			
Surr: Toluene-d8	*51*		*ug/L*	*50.000*		*102*	*80-120*			
Surr: 4-Bromofluorobenzene	*51*		*ug/L*	*50.000*		*102*	*80-120*			
Matrix Spike (3100811-MS1)		**Source: AWJ0927-01**					Prepared & Analyzed: 10/31/13			
Benzene	48		ug/L	50.000	ND	96	67-134			
Chlorobenzene	54		ug/L	50.000	ND	108	69-122			
1,1-Dichloroethene	45		ug/L	50.000	ND	90	58-142			
Toluene	50		ug/L	50.000	ND	99	68-127			
Trichloroethene	49		ug/L	50.000	0.2	98	72-132			
Surr: Dibromofluoromethane	*46*		*ug/L*	*50.000*		*93*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*51*		*ug/L*	*50.000*		*103*	*78-120*			
Surr: Toluene-d8	*50*		*ug/L*	*50.000*		*100*	*80-120*			
Surr: 4-Bromofluorobenzene	*51*		*ug/L*	*50.000*		*102*	*80-120*			
Matrix Spike Dup (3100811-MSD1)		**Source: AWJ0927-01**					Prepared & Analyzed: 10/31/13			
Benzene	50		ug/L	50.000	ND	100	67-134	4	9	
Chlorobenzene	56		ug/L	50.000	ND	112	69-122	4	13	
1,1-Dichloroethene	47		ug/L	50.000	ND	94	58-142	4	9	

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November 12, 2013

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
Batch 3100811 - EPA 5030B										
Matrix Spike Dup (3100811-MSD1)		**Source: AWJ0927-01**					Prepared & Analyzed: 10/31/13			
Toluene	50		ug/L	50.000	ND	101	68-127	2	9	
Trichloroethene	50		ug/L	50.000	0.2	100	72-132	2	11	
Surr: Dibromofluoromethane	*46*		*ug/L*	*50.000*		*93*	*80-120*			
Surr: 1,2-Dichloroethane-d4	*51*		*ug/L*	*50.000*		*102*	*78-120*			
Surr: Toluene-d8	*51*		*ug/L*	*50.000*		*102*	*80-120*			
Surr: 4-Bromofluorobenzene	*51*		*ug/L*	*50.000*		*102*	*80-120*			

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Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027

Attention: Mr. Mike Gurley

November 12, 2013

Laboratory Certifications

Code	Description	Number	Expires
LA	Louisiana	02069	06/30/2014
NC	North Carolina	381	12/31/2013
NELAC	FL DOH (Non-Pot. Water, Solids) Eff:: 07/01/2013	E87315	06/30/2014
NELDW	FL DOH NELAC (Drinking Water) Eff: 07/01/2013	E87315	06/30/2014
SC	South Carolina	98011001	06/30/2014
TX	Texas	T104704397-08-TX	03/31/2014
VA	Virginia	1340	12/14/2013

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5105-A Morehead Rd.
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Attention: Mr. Mike Gurley

November 12, 2013

Legend

Defination of Laboratory Terms

ND - Not Detected at levels greater than or equal to SWSL/RL
SWSL/RL - NC DENR Solid Waste Section LImit/Reporting Limit (Adjusted for DF/Prep Factor)
DF - Dilution Factor
MDL - Method Detection Limit

Qualifiers

J Estimated value less than Reporting Limit (RL) but greater than Method Detection Limit(MDL) (CLP J-Flag).

Note: Unless otherwise noted, all results are reported on an as received basis.

ANALYTICAL SERVICES, INC.
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110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

Allied Waste Ind. Inc. - Charlotte
5105-A Morehead Rd.
Concord NC, 28027
Attention: Mr. Mike Gurley

November 12, 2013

CHAIN OF CUSTODY RECORD

ANALYTICAL SERVICES, INC.
ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY NORCROSS, GA 30092
(770) 734-4200 : FAX (770) 734-4201 : www.asi-lab.com

PAGE: 1 OF 1

CLIENT NAME: Allied Waste - Charlotte

CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
5105-A Morehead Road, Concord, NC 28027
(704) 782-2004

ATTENTION: Mr. Mike Gurley
CC:
REQUESTED COMPLETION DATE:
PO #:
PROJECT NAME/STATE: Lake Norman C&D Landfill SA
PROJECT #:

ANALYSIS REQUESTED

DATE	TIME	MATRIX CODE*	COMP	GRAB	SAMPLE IDENTIFICATION	# of CONTAINERS	NC App I VOC + THF	NC App I Metals + Hg Fe Mn	ALK, TDS	CL, Sulfate	pH SC Temp Turb (on site) WL, WD	ph SC Temp Turb DO (on site)					LAB ID NUMBER
10/29/13	1324	GW		X	MW-1	6	3	1	1	1	X						1
10/29/13	1405	GW		X	MW-2	6	3	1	1	1	X						2
10/29/13	1453	GW		X	MW-3	6	3	1	1	1	X						3
10/29/13	1525	GW		X	MW-4	6	3	1	1	1	X						4
10/29/13	–	GW		X	Duplicate	6	3	1	1	1							5
10/29/13	1251	W		X	Field Blank	6	3	1	1	1							6
10/29/13	–	W		X	Trip Blank	3	3										7
10/29/13	1507	SW		X	SW-1	6	3	1	1	1		X					8
10/29/13	1401	SW		X	SW-2	6	3	1	1	1		X					9

CONTAINER TYPE	PRESERVATION
P - PLASTIC	1 - HCl, 4°
A - AMBER GLASS	2 - H2SO4, 4°
G - CLEAR GLASS	3 - HNO3, 4°
V - VOA VIAL	4 - NaOH, 4°
S - STERILE	5 - NaOH/ZnAc, 4°
O - OTHER	6 - Na2S2O3, 4°
	7 - 4°

*MATRIX CODES:

DW - DRINKING WATER	S - SOIL
WW - WASTEWATER	SL - SLUDGE
GW - GROUNDWATER	SD - SOLID
SW - SURFACE WATER	A - AIR
ST - STORM WATER	L - LIQUID
W - WATER	P - PRODUCT

REMARKS/ADDITIONAL INFORMATION

SAMPLED BY AND TITLE: R. Rowe D. Russell
DATE/TIME: See Above
RELINQUISHED BY:
DATE/TIME: 10/30/13 @ 13:20

RECEIVED BY:
DATE/TIME:
RELINQUISHED BY:
DATE/TIME:

RECEIVED BY LAB: M Lalman
DATE/TIME: 10/30/13 1320
SAMPLE SHIPPED VIA: UPS FED-EX COURIER CLIENT OTHER: FIELD SERVICES
pH: Labelled Preserved Ice: Yes or No
Temperature: 4°C
Custody Seal: Intact Broken Missing
SOCLER #:

FOR LAB USE ONLY
LAB #: AWJ0927
In-house location:
Entered into LIMS: MR

Please use Black Ink to complete form

ASI

ANALYTICAL SERVICES, INC.

Environmental Monitoring & Laboratory Analysis
110 Technology Parkway, Norcross, GA 30092
(770) 734-4200 FAX (770) 734-4201

LOG-IN CHECKLIST **Printed: 11/12/2013 1:37:37PM**

Attn: Mr. Mike Gurley

Client: Allied Waste Ind. Inc. - Charlotte
Project: Lake Norman C&D Landfill
Date Received: 10/30/13 13:20

Work Order: AWJ0927
Logged In By: Mohammad M. Rahman

OBSERVATIONS

#Samples: 9 **#Containers:** 51

Minimum Temp(C): 4.0 **Maximum Temp(C):** 4.0 **Custody Seal(s) Used:** No

CHECKLIST ITEMS

COC included with Samples	YES
Sample Container(s) Intact	YES
Chain of Custody Complete	YES
Sample Container(s) Match COC	YES
Custody seal Intact	NO
Temperature in Compliance	YES
Sufficient Sample Volume for Analysis	YES
Zero Headspace Maintained for VOA Analyses	YES
Samples labeled preserved (If Applicable)	YES
Samples received within Allowable Hold Times	YES
Samples Received on Ice	YES
Preservation Confirmed	YES

Comments:

ASI ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
110 TECHNOLOGY PARKWAY, NORCROSS, GA 30092
(770) 734-4200 • Fax (770) 734-4201

November 4, 2013
Republic Services Inc. of South Carolina
Mr. Mike Gurley
5105-A Morehead Road,
Concord, North Carolina 28027

RE: Lake Norman C&D Landfill Report AWJ0927

Mr. Gurley:

Analytical Services completed the semi-annual groundwater sampling at the referenced site on October 29, 2013. Our representatives performed groundwater monitoring in accordance with the most recently approved U.S. E.P.A. Region 4 Operating Procedures. Presented herein is a description of our work.

The following wells were purged and sampled using a dedicated Grundfos pump with Teflon-lined tubing: MW-1, 2, 3, and 4.

Surface water SW-1 and SW-2 were sampled.

Water levels and bottom of casing depths were measured to the nearest hundredth of a foot prior to purging the wells. Indicator parameters were measured on site for pH, specific conductance, temperature, dissolved oxygen, and turbidity. The meters were calibrated in the field according to the manufacturers' specifications and checked periodically.

The water level indicator and instrument probes were decontaminated in the field using a modified version of the EPA Appendix B. All pumps/tubing were decontaminated prior to being brought on site.

The samples were collected in A certified-clean bottles as soon as three well volumes had been removed and field parameters stabilized. The bottles were labeled in the field at the time of sampling. The members of the sampling team initialed the labels before placing them on the bottles. New gloves were donned prior to collecting samples.

Samples for Metals were collected in 500 mL wide-mouth HDPE bottles pre-preserved in the laboratory with HNO_3. Samples for VOC's were collected in three 40 mL vials, one pre-preserved by the supplier with HCl and two unpreserved. Samples for Alkalinity and TDS were collected in 1 quart HDPE. Samples for Chloride and Sulfate were also collected in 1 quart HDPE.

Once the bottles were filled they were placed in an ice chest filled with ice to maintain four degrees centigrade.

Attached are the results from this sampling event and table listing the water levels recorded.

Respectfully submitted,

Jonathan Scott
Field Services Manager

ANALYTICAL SERVICES, INC.
MONITORING WELL DATA SUMMARY

Client Name: Allied Waste - Charlotte
Client Contact: Mr. Mike Gurley
Project: Semi-annual Ground Water Monitoring
Site: Lake Norman C&D Landfill

ASI Report No.: AWJ0927
Sampling Date: 10/29/13

Well ID	DTW[1]
MW-1	36.37
MW-2	12.88
MW-3	13.21
MW-4	15.30

Note:
1 DTW - Depth to Water From Top of Casing (ft.)

Sampled By: D. Russell, R. Powe
Field Specialist(s)

Reviewed By: [illegible]
Field Services Manager

FIELD INSTRUMENT LOG

Project: ~~GMS~~ Lake Norman Dates: 10/29/13

Personnel: RP DR

ph/SC/TEMP/DO/ORP	Turbidity
x YSI 556 MPS serial: 08H100790 o YSI 556 MPS serial: 05D2373AJ o YSI 556 MPS serial: 13A100062 o _____	o Oakton T-100 serial: 957586 o Oakton T-100 serial: 957596 x Lamotte serial: ME12942 o _____
Water Level	**Methane**
o Heron Dipper T serial: 06964 x Solinst serial: 048125 o Solinst serial: 200763 o _____	o RKI Eagle serial: E3Z031 x RKI Eagle serial: E3Z030 o _____

pH 4.0 Lot # 2202287 pH 4.0 Exp. 1/14 Sc 1413 Lot# 10020 Exp. 11/13

pH 7.0 Lot# 2300880 pH 7.0 Exp 6/15 Sc_____ Lot# _____ Exp. _____

pH 10.0 Lot# 132388 pH 10.0 Exp 4/15

Date of Calibrations: 10/29/13

pH: 4.0 std. = 4.00 7.0 std. = 7.00 10.0 std. = 9.98

SC: 1413 uS/cm = 1413

Turbidity: 1.0 ntu = 1.0 Methane: 50 % LEL = 50

Date of Calibrations: _____

pH: 4.0 std. = _____ 7.0 std. = _____ 10.0 std. = _____

SC: _____uS/cm = _____

Turbidity: _____ntu = _____ Methane: _____% LEL = _____

Date of Calibrations: _____

pH: 4.0 std. = _____ 7.0 std. = _____ 10.0 std. = _____

SC: _____uS/cm = _____

Turbidity: _____ntu = _____ Methane: _____% LEL = _____

Date of Calibrations: _____

pH: 4.0 std. = _____ 7.0 std. = _____ 10.0 std. = _____

SC: _____uS/cm = _____

Turbidity: _____ntu = _____ Methane: _____% LEL = _____

Date of Calibrations: _____

pH: 4.0 std. = _____ 7.0 std. = _____ 10.0 std. = _____

SC: _____uS/cm = _____

Turbidity: _____ntu = _____ Methane: _____% LEL = _____

ASI Analytical Services

FIELD DATA INFORMATION LOG FOR GROUND-WATER SAMPLING

Client:	Republic Services	Casing Diameter:	2" or 4"
Site Name	Lake Norman C&D Landfill	Casing Material:	PVC
Field Personnel:	~~William Flammer~~ Ray Powe David Russell	Dedicated Pump:	Yes or No
Well ID #:	MW-1		
Weather Conditions:	Clear, warm	Method of Well Evacuation:	✓Grundfos Redi-flo II
Total Well Depth in feet (TWD) =	52.15	Method of Sample Collection:	✓Grundfos Redi-flo II
Depth to Ground Water in feet (DGW) =	36.37	Well Yield (subjective):	Good
Length of Water Column (LWC) = TWD - DGW =	15.74	Sample Date and Time:	10/29/13 1324
2" Well: 1 Casing Volume in gallons (CV) = LWC x 0.163 =	—		
4" Well: 1 Casing Volume in gallons (CV) = LWC x 0.653 =	~~2.57~~ 10.30 DR 10/29		
Standard Evacuation Volume (3 casing volumes) =	30.91		
Total Volume of Water Removed (gallons):	31.00		

Time (military)	1244	1257	1310	1324			
Volume Purged (Gallons)	0	10.5	20.75	31.00			
Water Level (ft.) stable	36.37	38.82	39.03	39.12			
pH (s.u.) ± 2	5.92	5.78	5.76	5.81			
Sp. Cond. (µmhos/cm) ± 10 %	~~172~~ 250 DR 10/29	225	227	229			
Water Temp. (°C) constant	17.2	15.9	15.9	15.9			
Turbidity (NTU) ±10 % or ≤ 5 NTU	7.04	5.52	1.17	0.10			
Dissolved Oxygen (mg/L) ±10 %	—			—			
GPM/HTZ	0.80/142	0.80/142	0.80/142	0.80/142			

COMMENTS/OBSERVATIONS: Clear No Odor
LEL = 0 Field Blank Here @ 1257
O_2 = 20.9

Date: 10/29/13 By: [signature] RP

Page 1 of 4

ASI Analytical Services

FIELD DATA INFORMATION LOG FOR GROUND-WATER SAMPLING

Client:	Republic Services	Casing Diameter:	2" or 4"
Site Name	Lake Norman C&D Landfill	Casing Material:	PVC
Field Personnel:	~~William Flammer~~ Ray Powe David Russell	Dedicated Pump:	Yes or No
Well ID #: MW-2			
Weather Conditions: Sunny, warm, light breeze		Method of Well Evacuation:	✓ Grundfos Redi-flo II
Total Well Depth in feet (TWD) = 24.00		Method of Sample Collection:	✓ Grundfos Redi-flo II
Depth to Ground Water in feet (DGW) = 12.88		Well Yield (subjective):	Good
Length of Water Column (LWC) = TWD - DGW = 11.12		Sample Date and Time:	10/29/13 @ 1405
2" Well: 1 Casing Volume in gallons (CV) = LWC x 0.163 = —			
4" Well: 1 Casing Volume in gallons (CV) = LWC x 0.653 = 7.26			
Standard Evacuation Volume (3 casing volumes) = 21.78			
Total Volume of Water Removed (gallons): 22.50			

Time (military)	1338	1345	1355	1405			
Volume Purged (Gallons)	0	7.50	15.00	22.50			
Water Level (ft.) stable	12.88	15.25	15.94	16.12			
pH (s.u.) ± .2	5.23	5.09	5.15	5.25			
Sp. Cond. (µmhos/cm) ± 10 %	155	116	140	149			
Water Temp. (°C) constant	16.8	17.4	17.3	17.3			
Turbidity (NTU) ±10 % or ≤ 5 NTU	1.11	6.42	2.04	1.24			
Dissolved Oxygen (mg/L) ±10 %	—	—	—	—			
GPM/HTZ	— / 94	1.07 / 94	0.75 / 94	0.75 / 94			

COMMENTS/OBSERVATIONS: Clear; No Odor
LEL 0
O_2 = 20.9

Date: 10/29/13 By: [signature]

RP

ASI Analytical Services

FIELD DATA INFORMATION LOG FOR GROUND-WATER SAMPLING

Client:	Republic Services	Casing Diameter:	2" or 4"
Site Name	Lake Norman C&D Landfill	Casing Material:	PVC
Field Personnel:	~~William Flammer~~ Ray Powe David Russell	Dedicated Pump:	Yes or No
Well ID #: MW-3			
Weather Conditions: CLEAR, WARM		Method of Well Evacuation:	✓Grundfos Redi-flo II
Total Well Depth in feet (TWD) = 21.93		Method of Sample Collection:	✓Grundfos Redi-flo II
Depth to Ground Water in feet (DGW) = 13.21		Well Yield (subjective):	MODERATE
Length of Water Column (LWC) = TWD - DGW = 8.72		Sample Date and Time:	10/29/13 1453
2" Well: 1 Casing Volume in gallons (CV) = LWC x 0.163 = —			
4" Well: 1 Casing Volume in gallons (CV) = LWC x 0.653 = 5.69			
Standard Evacuation Volume (3 casing volumes) = 17.08			
Total Volume of Water Removed (gallons): 17.25			

Time (military)	1417	1427	1440	1453			
Volume Purged (Gallons)	0	5.75	11.50	17.25			
Water Level (ft.) stable	13.21	14.97	15.20	15.23			
pH (s.u.) ±.2	5.12	5.02	5.03	5.01			
Sp. Cond. (µmhos/cm) ±10%	92	77	78	79			
Water Temp. (°C) constant	16.5	16.6	16.6	16.6			
Turbidity (NTU) ±10% or ≤5 NTU	6.42	3.47	5.71	4.07			
Dissolved Oxygen (mg/L) ±10%							
GPM/HTZ	0.58 / 180	0.58 / 180	0.44 / ~~0.58~~ 180	0. / 180			

COMMENTS/OBSERVATIONS: CLEAR, NO ODOR
LEL = 0
O_2 = 14.9
DUP HERE

Date: 10/29/13 By: [signature]

RP

ASI Analytical Services

FIELD DATA INFORMATION LOG FOR GROUND-WATER SAMPLING

Client:	Republic Services	Casing Diameter:	2" or 4"
Site Name	Lake Norman C&D Landfill	Casing Material:	PVC
Field Personnel:	~~William Flammer~~ Ray Powe David Russell	Dedicated Pump:	Yes or No
Well ID #: MW-4			
Weather Conditions: Sunny, clear, warm		Method of Well Evacuation:	✓Grundfos Redi-flo II–Stability
Total Well Depth in feet (TWD) = 90.55		Method of Sample Collection:	✓Grundfos Redi-flo II
Depth to Ground Water in feet (DGW) = 15.30		Well Yield (subjective):	Good
Length of Water Column (LWC) = TWD - DGW = 75.25		Sample Date and Time:	10/29/13 @ 1525
2" Well: 1 Casing Volume in gallons (CV) = LWC x 0.163 = —			
4" Well: 1 Casing Volume in gallons (CV) = LWC x 0.653 = 49.14			
Standard Evacuation Volume (3 casing volumes) = 147.42			
Total Volume of Water Removed ~~(gallons)~~: 6.0 Liters			

Time (military)	1511	1516	1519	1522	1525		
Volume Purged ~~(Gallons)~~ Liters	0	2.0	3.0	4.5	6.0		
Water Level (ft.) stable	15.30	15.65	15.56	15.58	15.56		
pH (s.u.) ± .2	5.72	5.83	5.84	5.83	5.83		
Sp. Cond. (µmhos/cm) ± 10 %	127	132	130	130	130		
Water Temp. (°C) constant	18.1	18.3	18.8	18.8	18.8		
Turbidity (NTU) ±10 % or ≤ 5 NTU	93	10	6.14	4.19	1.45		
Dissolved Oxygen (mg/L) ±10 %	RP 10/29 4.25	3.44	3.35	3.18	3.20		
~~GPM~~/HTZ	– / 90	0.40 / 90	0.33 / 88	0.50 / 88	0.50 / 88		
LPM ORP	183.3	161.4	149.1	142.9	137.6		

COMMENTS/OBSERVATIONS: Clear; no odor
LEL = 2
O_2 = 20.1

Date: 10/29/13 By: Ray Powe

RP

Page 4 of 4

ASI Analytical Services

FIELD DATA INFORMATION LOG FOR GROUND-WATER SAMPLING

Client:	Republic Services	Casing Diameter: N/A	2" or 4"
Site Name	Lake Norman C&D Landfill	Casing Material: N/A	PVC
Field Personnel:	~~William Flammer~~ Ray Powe David Russell	Dedicated Pump: N/A	Yes or No
Well ID #: SW-1			
Weather Conditions: Clear, Warm		Method of Well Evacuation: N/A	Grundfos Redi-flo II
Total Well Depth in feet (TWD) = —		Method of Sample Collection: N/A	Grundfos Redi-flo II
Depth to Ground Water in feet (DGW) = —		Well Yield (subjective): N/A	
Length of Water Column (LWC) = TWD - DGW = —		Sample Date and Time: 10/29/13 @ 1507	
2" Well: 1 Casing Volume in gallons (CV) = LWC x 0.163 = —			
4" Well: 1 Casing Volume in gallons (CV) = LWC x 0.653 = —			
Standard Evacuation Volume (3 casing volumes) = —			
Total Volume of Water Removed (gallons):			

Time (military)	1507						
Volume Purged (Gallons)	0						
Water Level (ft.) stable	—						
pH (s.u.) ± .2	6.34						
Sp. Cond. (µmhos/cm) ± 10 %	129						
Water Temp. (°C) constant	17.1						
Turbidity (NTU) ±10 % or ≤ 5 NTU	1.44						
Dissolved Oxygen (mg/L) ±10 %	7.02						
GPM/HTZ	—						

COMMENTS/OBSERVATIONS: Clear, No Odor, Good Flow

Date: 10/29/13 By: [signature]

ASI Analytical Services

FIELD DATA INFORMATION LOG FOR GROUND-WATER SAMPLING

Client:	Republic Services	Casing Diameter: N/A	2" or 4"
Site Name	Lake Norman C&D Landfill	Casing Material: N/A	PVC
Field Personnel:	~~William Flammer~~ Ray Powe David Russell	Dedicated Pump: N/A	Yes or No
Well ID #: SW-2			
Weather Conditions: CLEAR, WARM		Method of Well Evacuation: N/A	Grundfos Redi-flo II
Total Well Depth in feet (TWD) = —		Method of Sample Collection: N/A	Grundfos Redi-flo II
Depth to Ground Water in feet (DGW) = —		Well Yield (subjective): ~~10/29/13 @ 1401~~ M 10/29	N/A
Length of Water Column (LWC) = TWD - DGW = —		Sample Date and Time: 10/29/13 @ 1401	
2" Well: 1 Casing Volume in gallons (CV) = LWC x 0.163 = —			
4" Well: 1 Casing Volume in gallons (CV) = LWC x 0.653 = —			
Standard Evacuation Volume (3 casing volumes) = —			
Total Volume of Water Removed (gallons): —			

Time (military)	1401						
Volume Purged (Gallons)	0						
Water Level (ft.) stable	—						
pH (s.u.) ± .2	6.32						
Sp. Cond. (µmhos/cm) ± 10 %	154						
Water Temp. (°C) constant	16.2						
Turbidity (NTU) ±10 % or ≤ 5 NTU	5.31						
Dissolved Oxygen (mg/L) ±10 %	4.51						
GPM/HTZ	—						

COMMENTS/OBSERVATIONS: CLEAR, No Odor Good Flow

Date: 10/29/13 By: [signature]