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):

Golder Associates NC, Inc. on behalf of Republic Services of NC, LLC

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

Name: Rachel P. Kirkman, P.G. Phone: 336-852-4903

E-mail: rkirkman@golder.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
JMN/Cleveland Container Landfill	Grover, NC	23-02	.0500	January 8-9, 2008

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 or explosive methane gas limits 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.

Rachel P. Kirkman, P.G. — Facility Representative Name (Print)

Senior Project Geologist — Title

336-852-4903 — (Area Code) Telephone Number

Rachel P. Kirkman — Signature

2-27-08 — Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA PROFESSIONAL SEAL 1811 GEOLOGIST RACHEL P. KIRKMAN 2-27-08

Revised 10/2006

Golder Associates NC, Inc.

4900 Koger Boulevard, Suite 140
Greensboro, NC 27407
Telephone (336) 852-4903
Fax (336) 852-4904

February 27, 2008

Project No. 063-6569008.100

Department of Environment and Natural Resources
Division of Waste Management
Solid Waste Section
401 Oberlin Road, Suite 150
Raleigh, North Carolina 27605
919-733-4996

Attention: Mr. Donald Herndon
Environmental Specialist

Re: Water Quality Monitoring Report, First Semi-Annual 2008 Sampling Event
JMN/Cleveland Container Landfill, Permit No. 23-02
Cleveland County, North Carolina

Dear Mr. Herndon:

On behalf of JMN/Cleveland Container Landfill, a subsidiary of Republic Services of North Carolina, LLC (Republic), Golder Associates NC, Inc. (Golder) is submitting the enclosed *Groundwater Monitoring Report,* which documents the results of the January 8-9, 2008, compliance monitoring event at the above-referenced facility.

As presented, two inorganic constituents (barium and mercury) were detected above their respective Solid Waste Section Limits (SWSLs) in one or more downgradient monitoring wells at the facility during the January 2008 groundwater monitoring event. In general, these constituents and concentrations are consistent with available historical data.

Two organic constituents were detected above their respective SWSLs and exceeded their respective North Carolina (NC) Groundwater Quality (2L) Standards: benzene in MW-7 and 1,4-dichlorobenzene in MW-5. Two additional organic constituents were detected above their respective SWSLs in MW-5: 1,2-dichlorobenzene and 1,4-dichlorobenzene. Generally, the detected constituents and concentrations are consistent with historical results.

There were no detections of RCRA metals or NC Appendix I organic constituents reported above the SWSLs in the downstream surface monitoring point SW-4 during the January 2008 monitoring event. Upstream surface monitoring point SW-3 was dry at the time of sampling and no sample could be obtained.

Based on these results, Republic will continue monitoring the uppermost aquifer beneath this facility in accordance with the requirements as outlined in Title 15A NCAC 13B.0500. If you have any

questions, please contact the undersigned at 336-852-4903 or Ray Hoffman with Republic at 828-464-2414.

Sincerely,
GOLDER ASSOCIATES NC, INC.

Rachel P. Kirkman
for

David "Dusty" Y. Reedy, II, P.G.
Project Hydrogeologist

Rachel P. Kirkman

Rachel P. Kirkman, P.G.
Senior Project Geologist

Enclosure

C: Ray Hoffman, P.E., Area Engineer, Republic Services, 1220 Commerce Street, SW, Hickory, North Carolina, 28613. HoffmanRJ@repsrvnc.com. 828-464-2414.
Tim Allen, General Manager, Republic Services, 1160 Airport Road, Shelby, North Carolina 28150. allent@repsrv.com. 704-482-2916.

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WATER QUALITY MONITORING REPORT
FIRST SEMI-ANNUAL 2008 SAMPLING EVENT

JMN/CLEVELAND CONTAINER LANDFILL, PERMIT NO. 23-02
CLEVELAND COUNTY, NORTH CAROLINA

FEBRUARY 2008

PREPARED FOR:

REPUBLIC SERVICES OF NORTH CAROLINA, LLC
1160 AIRPORT ROAD
SHELBY, NORTH CAROLINA 28150

PREPARED BY:

GOLDER ASSOCIATES NC, INC.
4900 KOGER BOULEVARD, SUITE 140
GREENSBORO, NORTH CAROLINA 27407
PROJECT NO. 063-6569008.100

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Drawing 1 Site Map

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1.0 INTRODUCTION

This report summarizes the monitoring results from the January 8-9, 2008, groundwater and surface water sampling and analysis event at the JMN/Cleveland Container Landfill in Cleveland County, North Carolina in accordance with Title 15A of the North Carolina Administrative Code (NCAC) Subchapter 13B.0500. The JMN/Cleveland Container Landfill, a closed industrial waste landfill, is maintained by Republic Services of North Carolina, LLC under Permit No. 23-02 issued by the North Carolina Department of Environment and Natural Resources (DENR).

1.1 Site Description and Background

The location of the facility is shown on the inlay on Drawing 1. As presented, the JMN/Cleveland Container Industrial Landfill facility comprises approximately 175 acres and is located 5 miles northwest of the town of Grover, North Carolina at 345 Roseborough Road. The landfill is bounded to the west by Roseborough Road, residential and agricultural properties surround the facility. Surrounding land use is primarily rural residential, silvicultural, and agricultural. Access to the facility is from Roseborough Road.

Topographic elevations at the facility range from approximately 600 to 800 feet above mean sea level. Surface drainage from the landfill and surrounding areas is routed by drainage channels and storm water control structures toward the southeast, into Buffalo Creek.

1.2 Compliance Monitoring History

Water quality monitoring at the facility was initiated in June 1997 under the Title 15A Subchapter 13B.0500 rules for industrial landfills. The facility's monitoring network is comprised of seven monitoring wells (MW-1B, MW-1C, MW-4, MW-5, MW-6A, MW-7A, and MW-8) which monitor the uppermost aquifer beneath the facility. Two surface water monitoring points are also monitored semi-annually: upstream monitoring point SW-3 and downstream monitoring point SW-4. Based on the results of the laboratory analyses, Republic Services of North Carolina, LLC continues to maintain compliance monitoring under Title 15A Subchapter 13B.0500 rules at this facility.

1.3 Hydrogeologic Setting

Geologically, the facility is located within the Inner Piedmont Belt of the Piedmont Physiographic Province of North Carolina (NCGS 1985). The Inner Piedmont Belt is composed of Late Proterozoic to Early Paleozoic highly-metamorphosed rocks. The rocks underlying the facility are generally mapped as gneiss and schist, which have been intruded by younger granitic rocks (NCGS 1985).

The groundwater beneath the facility is present in a shallow, unconfined aquifer comprised of partially weathered, fractured, meta-volcanic rock. Groundwater occurs at depths of approximately 50-60 feet below grade along the northwestern upgradient side of the waste disposal area, and at a depth of less than 20 feet below grade along the perimeter downgradient boundary. Depth-to-water measurements were obtained during the January 2008 monitoring event and are summarized in

Table 1. Based on topography shown on Drawing 1, regional groundwater flow in the uppermost aquifer near the site is expected to be generally toward the southeast and Buffalo Creek.

2.0 FIELD PROGRAM, MONITORING RESULTS, AND DISCUSSION

Field activities conducted as part of the January 2008 sampling event are discussed in the following sections.

2.1 Visual Inspection Program

In order to ensure that a potential release is detected at the earliest possible time, the visual inspection program is used at the JMN/Cleveland Container Landfill. This program includes physical indicators such as potential water table mounding beneath the waste management unit, physical examination of any stresses in biological communities, visible signs of leachate migration (i.e., leachate seeps), unexplained changes in soil characteristics, and any other change to the environment due to the waste management unit. During the January 2008 compliance monitoring event, no physical indicators were observed in the vicinity of the waste management areas.

2.2 Well Network and Groundwater Elevation Measurements

The network of groundwater monitoring wells at the JMN/Cleveland Container Industrial Landfill consists of MW-1B, MW-1C, MW-4, MW-5, MW-6A, MW-7A, and MW-8. Monitoring well locations are shown on Drawing 1. The network of monitoring wells was constructed to target the preferential flow path for groundwater underlying waste disposal areas. One upstream (SW-3) and one downstream (SW-4) surface water points are also monitored.

Monitoring wells MW-1B and MW-1C are the facility's background wells and are located hydraulically upgradient of the waste disposal area. Monitoring wells MW-4, MW-5, MW-6A, MW-7A and MW-8 are located downgradient or sidegradient of the waste disposal area. Well construction details are provided in Table 2.

Depth-to-water measurements were recorded to the nearest 0.01 foot prior to initiating groundwater purging and sampling activities. The monitoring point summary and respective water level elevations for this event along with historical data are presented in Table 1. The data indicate that the hydraulic head level in the uppermost aquifer beneath the facility is fairly consistent, with temporal variation from the long-term average limited to approximately 5-6 feet (plus or minus). As expected, the range in fluctuation appears to be greater in the upgradient wells MW-1B and MW-1C, as these wells are located in a groundwater recharge area. The range in fluctuation in the downgradient compliance wells, which are located near groundwater discharge areas, is much less, presumably due to the stabilizing affect of the hydraulic discharge boundary.

2.3 January 2008 Monitoring Event

Personnel from Golder visited the facility on January 8-9, 2008, to purge and sample monitoring wells MW-1B, MW-1C, MW-4, MW-5, MW-6A, MW-7A, and MW-8, and to sample surface water monitoring points SW-3 (upstream) and SW-4 (downstream). Depth-to-water measurements were

obtained from the network monitoring wells to the nearest 0.01 foot using an electronic water level indicator prior to purging the wells.

Monitoring wells MW-1B, MW-1C, MW-4, MW-5, MW-6A, MW-7A, and MW-8 were purged and sampled using disposable bailers. Measurements of temperature, pH, specific conductivity, and turbidity were recorded at the onset of purging, at each purge volume, and before sampling. At a minimum, three purge volumes were removed from each well before sampling.

Prior to sampling, the laboratory-supplied sample containers were prepared. Each sample container was labeled with the sample identification number, sampling personnel, date and time of sample collection, project name and number, and requested laboratory analyses.

The required groundwater samples were collected directly from the bailers in the labeled, laboratory-supplied, pre-preserved sample containers. After collection, the samples were placed in a cooler on ice, under chain-of-custody control. Copies of the sampling logs are presented in Appendix I. Included in each log is a description of the sampling location, sampling equipment, sampling method, field observations, and water quality measurements.

The surface water sample was collected directly from the stream flow, by lowering the sample containers into the stream flow with the opening facing into the current flow, taking care to prevent the over flow of the sample containers and to minimize sample-induced turbidity. Measurements of temperature, pH, specific conductivity, dissolved oxygen, oxidation-reduction potential, and turbidity were recorded during the collection of the surface water sample. Surface water monitoring point SW-3 was dry during the January 2008 event and no sample was collected.

After collection, the samples were placed in a cooler on ice, under chain-of-custody control. Copies of the sampling logs are presented in Appendix I. Included in each log is a description of the sampling location, sampling equipment, sampling method, field observations, and water-quality measurements.

2.4 Laboratory Analysis Program

The January 8-9, 2008, groundwater and surface water samples were delivered by courier to Environmental Conservation Laboratories, Inc. (ENCO) of Cary, North Carolina under chain-of-custody control for analysis of the North Carolina (NC) Appendix I organic constituents and Resource Conservation Recovery Act (RCRA) metals. The samples were received at the laboratory on January 10, 2008, in good condition and properly preserved.

2.5 January 2008 Sampling Results

Analytical results for the January 2008 groundwater and surface water samples are summarized in Tables 3 and 4 with available historical data. The laboratory certificates-of-analysis, chain-of-custody form, and laboratory data reviews for the sampling event are included in Appendix II. As presented in Tables 3 and 4 and the laboratory certificates-of-analysis, two inorganic constituents (barium and mercury) were reported above the Solid Waste Section Report Limits (SWSLs) in one or more downgradient wells during the January 2008 monitoring event.

Barium was detected above its SWSL in wells MW-5 and MW-7A as it has been during previous events. Mercury was detected above its SWSL in MW-7A, as it has been during previous events. No other inorganic constituents were detected above their respective SWSLs. Generally, the constituents and concentrations detected are consistent with historical data, where available.

Three organic constituents were detected in MW-5 above their respective SWSLs during the January 2008 event: chlorobenzene, 1,2-dichlorobenzene, and 1,4-dichlorobenzene. Benzene was detected in MW-7A during the January 2008 sampling event. In general, the detected constituents and concentrations are consistent with historical results for the facility.

There were no detections of NC Appendix I organic or inorganic constituents in surface water monitoring point SW-4 above the SWSLs during the January 2008 sampling event.

3.0 LABORATORY AND FIELD QA/QC

A field blank was collected by Golder personnel as part of the January 2008 groundwater sampling event. In addition to the field blank, a laboratory-prepared trip blank accompanied the volatile sample containers for the sampling event to and from the laboratory. The field blank was analyzed for the same constituents as the groundwater samples, and the trip blank for NC Appendix I volatile organic compounds only. In addition to the field and trip blanks, at least one method blank was analyzed by the laboratory for each method used. A review of the laboratory data was performed by Golder personnel (included in Appendix II).

There were no detections of organic or inorganic constituents in the field blank or trip blank. Methylene chloride, a common lab contaminant, was detected in a method blank for the surface water samples at an estimated concentration of 0.5 micrograms per liter (µg/L). This constituent was not detected in the surface water sample. No data qualification was necessary.

4.0 DATA EVALUATION

Two organic constituents were detected in downgradient monitoring wells at concentrations that exceed their respective NC Groundwater Quality (2L) Standards: benzene in MW-7A and 1,4-dichlorobenzene in MW-5. Exceedances of 2L Standards are consistent with historical data for these wells. No other constituents were detected at concentrations that exceeded their respective 2L Standards. No organic or inorganic constituents were detected in downstream surface monitoring point SW-4 above their respective surface water standards during this event.

5.0 CONCLUSIONS

Based on the results summarized herein, Republic Services of North Carolina, LLC, will continue monitoring the uppermost aquifer beneath this facility in accordance with the requirements for industrial landfills as outlined in Title 15A NCAC 13B.0500. The next compliance monitoring event for this facility is tentatively scheduled for July 2008.

6.0 REFERENCES

GEE (General Engineering and Environmental of NC, Inc.), September 2006. *Groundwater/Surface Water Monitoring Report-Second Semi-Annual Sampling Event of 2006, JMN/Cleveland Container Landfill, Cleveland County, North Carolina.* 5 pp.

BLE (Bunnell-Lammons Engineering, Inc.), October 2000, revised July 2001. *Site Hydrogeologic Report.* (from excerpt in GEE report).

NCGS (North Carolina Geologic Survey), 1985. Geologic Map of North Carolina. Scale 1:500,000.

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TABLES

TABLE 1

Summary of Historical Static Water Level Data
JMN/Cleveland Container Landfill, Permit No. 23-02
Cleveland County, North Carolina

	Monitoring Wells						
	MW-1B	**MW-1C**	**MW-4**	**MW-5**	**MW-6A**	**MW-7A**	**MW-8**
TOC Elevation (ft AMSL)	783.13	780.61	633.34	625.64	637.16	658.76	739.84
Date	**Static Water Elevation (ft AMSL)**						
07/17/01	729.65	729.47	625.70	611.36	608.67	626.91	690.96
09/25/01	728.11	738.05	--	--	605.91	626.38	--
11/27/01	728.85	728.66	--	--	606.03	625.79	--
01/23/02	728.48	728.32	625.28	610.09	605.79	625.31	689.44
07/16/02	727.77	727.64	624.55	609.73	606.18	625.21	688.47
01/29/03	727.07	727.08	626.47	612.09	--	625.61	687.99
07/28/03	734.78	734.96	626.84	613.89	609.61	628.06	--
01/13/04	739.08	738.54	627.32	610.47	608.63	627.54	--
07/06/04	736.96	736.66	627.41	610.99	609.55	626.13	696.53
01/26/05	735.94	735.70	627.46	610.55	607.63	625.07	695.93
07/19/05	736.27	735.87	627.52	610.31	606.94	625.30	696.99
01/20/06	735.60	735.12	627.61	610.62	608.76	624.47	694.16
07/25/06	733.63	733.39	626.73	608.82	605.86	623.20	693.63
01/25/07	731.66	731.61	626.56	610.02	608.68	623.27	691.61
07/25/07	731.54	731.37	625.70	608.09	604.94	624.57	691.84
01/08/08	730.25	730.03	624.33	606.66	605.20	622.37	690.20
MEAN	*732.23*	*732.65*	*626.39*	*610.26*	*607.23*	*625.32*	*692.31*
MAXIMUM	*739.08*	*738.54*	*627.61*	*613.89*	*609.61*	*628.06*	*696.99*
MINIMUM	*727.07*	*727.08*	*624.33*	*606.66*	*604.94*	*622.37*	*687.99*

Notes: ft AMSL = feet above mean sea level.
-- = no data available

TABLE 2

Summary of Well Construction Information
JMN/Cleveland Container Landfill, Permit No. 23-02
Cleveland County, North Carolina

Well Identification	Construction Date	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL)	Well Depth (feet)	Well Diameter (inches)	Screened Interval (ft AMSL)	Screened Geologic Formation
MW-1B	3/8/2001	780.35	783.13	59	2	736.35-721.35	Saprolite
MW-1C	5/25/2001	777.98	780.61	76	2	712.28-702.28	Bedrock
MW-4	6/5/1997	630.67	633.34	15	2	626.17-616.17	Saprolite
MW-5	6/5/1997	623.01	625.64	21	2	617.01-602.01	Saprolite
MW-6A	5/24/2001	634.58	637.16	37	2	612.58-597.58	Bedrock
MW-7A	3/7/2001	656.06	658.76	38	2	633.46-618.46	Saprolite
MW-8	6/6/1997	736.64	739.84	50	2	701.64-686.64	Saprolite

Notes: ft AMSL = feet above mean sea level

*Well construction data from General Engineering & Environmental, Inc. Sept 06 Semi-Annual Report

TABLE 3

Summary of Groundwater Monitoring Results
JMN/Cleveland Container Landfill, Permit No. 23-02
Cleveland County, North Carolina

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Upgradient			Downgradient							Blanks
						MW-1A	MW-1B	MW-1C	MW-4	MW-5	MW-6	MW-6A	MW-7	MW-7A	MW-8	
Arsenic	ug/L	06/01/97	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
NC 2L = 50 ug/L	ug/L	11/09/97	--	--	10	16	--	--	ND	ND	ND	--	16	--	ND	ND
	ug/L	02/01/98	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	07/28/98	--	--	50	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	01/25/99	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/21/99	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/25/00	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/20/00	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	10	ND	--	--	ND	ND	--	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	10	--	ND	ND	ND	ND	--	--	--	ND	ND	ND
	ug/L	07/17/01	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	09/25/01	--	--	10	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	11/27/01	--	--	10	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	01/23/02	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	--
	ug/L	07/16/02	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	--
	ug/L	01/29/03	--	--	5	--	ND	ND	ND	ND	--	--	--	ND	ND	ND
	ug/L	07/28/03	--	--	5	--	7.87	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	01/14/04	--	--	50	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	07/07/04	--	--	50	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	08/31/04	--	--	50	--	--	--	--	--	--	--	--	--	ND	--
	ug/L	01/26/05	--	--	50	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/20/05	--	--	50	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/20/06	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/25/06	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/25/07	2.0	10.0	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/26/07	2.0	10.0	10	--	ND	3.6 B	3.1 B	18.9 B	--	ND	--	4.0 B	ND	4.4 J
	ug/L	01/09/08	2.0	10.0	10	--	ND	ND	2.7 J	ND	--	ND	--	3.0 J	ND	ND
Barium	ug/L	06/01/97	--	--	500	ND	--	--	ND	ND	ND	--	ND	--	ND	--
NC 2L = 2000 ug/L	ug/L	11/09/97	--	--	500	1300	--	--	ND	1900	ND	--	1200	--	ND	ND
	ug/L	02/01/98	--	--	500	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	07/28/98	--	--	20	150	--	--	30	260	70	--	80	--	40	--
	ug/L	01/25/99	--	--	500	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/21/99	--	--	500	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/25/00	--	--	500	ND	--	--	ND	ND	ND	--	1100	--	ND	ND
	ug/L	07/20/00	--	--	500	1800	--	--	ND	2000	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	500	2200	--	--	ND	ND	--	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	500	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/17/01	--	--	500	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	09/25/01	--	--	500	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	11/27/01	--	--	500	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	01/23/02	--	--	500	--	ND	ND	ND	ND	--	ND	--	ND	--	--
	ug/L	07/16/02	--	--	500	--	ND	ND	ND	ND	--	ND	--	ND	700	--
	ug/L	01/29/03	--	--	5	--	41.1	17.2	31.1	319	--	--	--	168	70.3	ND
	ug/L	07/28/03	--	--	5	--	492	35.0	77.0	219	--	52.3	--	155	--	46.9
	ug/L	01/14/04	--	--	500	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	07/07/04	--	--	500	--	ND	ND	ND	503	--	ND	--	ND	--	ND
	ug/L	08/31/04	--	--	500	--	--	--	--	--	--	--	--	--	ND	--
	ug/L	01/26/05	--	--	500	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/20/05	--	--	500	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/20/06	--	--	500	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/25/06	--	--	500	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/25/07	0.2	10.0	100	--	109	28.4 J	33.2 J	354	--	47.6 J	--	126	57.5 J	0.30 J
	ug/L	07/26/07	0.20	10.0	100	--	46.3 J	14.8 J	33.9 J	167	--	103	--	189	56.1 J	0.80 J
	ug/L	01/09/08	0.20	10.0	100	--	53.6 J	27.6 J	51.0 J	269	--	44.8 J	--	126	63.4 J	ND

TABLE 3

Summary of Groundwater Monitoring Results
JMN/Cleveland Container Landfill, Permit No. 23-02
Cleveland County, North Carolina

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Upgradient			Downgradient							Blanks
						MW-1A	MW-1B	MW-1C	MW-4	MW-5	MW-6	MW-6A	MW-7	MW-7A	MW-8	
Cadmium	ug/L	06/01/97	--	--	1	ND	--	--	ND	ND	ND	--	ND	--	ND	--
NC 2L = 1.75 ug/L	ug/L	11/09/97	--	--	1	3.2	--	--	ND	2.9	ND	--	3.4	--	1.2	ND
	ug/L	02/01/98	--	--	1	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	07/28/98	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	01/25/99	--	--	1	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/21/99	--	--	1	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/25/00	--	--	1	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/20/00	--	--	1	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	1	ND	--	--	ND	ND	--	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/17/01	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	09/25/01	--	--	1	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	11/27/01	--	--	1	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	01/23/02	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	--
	ug/L	07/16/02	--	--	1	--	ND	ND	ND	1	--	ND	--	ND	ND	--
	ug/L	01/29/03	--	--	5	--	ND	ND	ND	0.446	--	--	--	ND	ND	ND
	ug/L	07/28/03	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	01/14/04	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	07/07/04	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	08/31/04	--	--	5	--	--	--	--	--	--	--	--	--	ND	--
	ug/L	01/26/05	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/20/05	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/20/06	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/25/06	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/25/07	0.50	1.00	1	--	ND	ND	ND	ND	--	ND	--	ND	1.10	ND
	ug/L	07/26/07	0.50	1.00	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/09/08	0.50	1.00	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
Chromium	ug/L	06/01/97	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
NC 2L = 50 ug/L	ug/L	11/09/97	--	--	10	110	--	--	10	47	14	--	100	--	36	ND
	ug/L	02/01/98	--	--	10	ND	--	--	ND	ND	24	--	ND	--	ND	--
	ug/L	07/28/98	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	01/25/99	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	10	ND
	ug/L	07/21/99	--	--	10	ND	--	--	ND	ND	10	--	ND	--	ND	ND
	ug/L	01/25/00	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/20/00	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	10	330	--	--	ND	ND	--	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/17/01	--	--	10	--	20	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	09/25/01	--	--	10	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	11/27/01	--	--	10	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	01/23/02	--	--	10	--	10	ND	ND	ND	--	ND	--	ND	ND	--
	ug/L	07/16/02	--	--	10	--	10	ND	ND	ND	--	ND	--	ND	160	--
	ug/L	01/29/03	--	--	5	--	7.14	ND	ND	ND	--	--	--	ND	ND	ND
	ug/L	07/28/03	--	--	5	--	157	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	01/14/04	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	07/07/04	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	08/31/04	--	--	10	--	--	--	--	--	--	--	--	-	ND	--
	ug/L	01/26/05	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/20/05	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/20/06	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/25/06	--	--	10	--	23.2	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/25/07	2.0	10.0	10	--	13.7	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/26/07	2.0	10.0	10	--	5.8 J	ND	ND	ND	--	ND	--	4.1 J	5.2 J	ND
	ug/L	01/09/08	2.0	10.0	10	--	15.4	ND	ND	ND	--	ND	--	ND	ND	ND

TABLE 3

Summary of Groundwater Monitoring Results
JMN/Cleveland Container Landfill, Permit No. 23-02
Cleveland County, North Carolina

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Upgradient MW-1A	Upgradient MW-1B	Upgradient MW-1C	Downgradient MW-4	Downgradient MW-5	Downgradient MW-6	Downgradient MW-6A	Downgradient MW-7	Downgradient MW-7A	Downgradient MW-8	Blanks
Lead	ug/L	06/01/97	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
NC 2L = 15 ug/L	ug/L	11/09/97	--	--	10	35	--	--	ND	44	ND	--	26	--	15	ND
	ug/L	02/01/98	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	07/28/98	--	--	15	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	01/25/99	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/21/99	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/25/00	--	--	10	ND	--	--	ND	ND	ND	--	20	--	ND	ND
	ug/L	07/20/00	--	--	10	40	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	10	210	--	--	ND	ND	--	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/17/01	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	09/25/01	--	--	10	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	11/27/01	--	--	10	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	01/23/02	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	--
	ug/L	07/16/02	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	60	--
	ug/L	01/29/03	--	--	5	--	ND	ND	ND	ND	--	--	--	ND	ND	ND
	ug/L	07/28/03	--	--	5	--	48.9	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	01/14/04	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	07/07/04	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	08/31/04	--	--	10	--	--	--	--	--	--	--	--	--	ND	--
	ug/L	01/26/05	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/20/05	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/20/06	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/25/06	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/25/07	2.0	10.0	10	--	3.3 J	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/26/07	2.0	10.0	10	--	3.6 B	3.2 B	ND	10.7 B	--	ND	--	3.1 B	2.8 B	2.4 J
	ug/L	01/09/08	2.0	10.0	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
Mercury	ug/L	01/25/07	0.11	0.20	0.2	--	ND	ND	ND	ND	--	ND	--	1.70	ND	ND
NC 2L = 1.05 ug/L	ug/L	07/26/07	0.11	0.20	0.2	--	0.20 R	0.24 R	0.16 R	ND	--	ND	--	3.64 R	0.27 R	0.25 R
(re-analyzation)	ug/L	07/26/07	0.11	0.20	0.2	--	ND	ND	ND	--	--	--	--	2.69	ND	ND
	ug/L	01/09/08	0.11	0.20	0.2	--	ND	ND	ND	ND	--	ND	--	0.86	ND	ND
Selenium	ug/L	06/01/97	--	--	20	ND	--	--	ND	ND	ND	--	ND	--	ND	--
NC 2L = 50 ug/L	ug/L	11/09/97	--	--	20	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	02/01/98	--	--	20	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	07/28/98	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	01/25/99	--	--	20	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/21/99	--	--	20	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/25/00	--	--	20	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/20/00	--	--	20	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	20	ND	--	--	ND	ND	--	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	20	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/17/01	--	--	20	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	09/25/01	--	--	20	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	11/27/01	--	--	20	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	01/23/02	--	--	20	--	ND	ND	ND	ND	--	ND	--	ND	ND	--
	ug/L	07/16/02	--	--	20	--	ND	ND	ND	ND	--	ND	--	ND	ND	--
	ug/L	01/29/03	--	--	5	--	9.07	7.55	ND	ND	--	--	--	ND	ND	ND
	ug/L	07/28/03	--	--	5	--	35.7	8.20	9.43	ND	--	ND	--	ND	--	ND
	ug/L	01/14/04	--	--	20	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	07/07/04	--	--	20	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	08/31/04	--	--	20	--	--	--	--	--	--	--	--	--	ND	--
	ug/L	01/26/05	--	--	20	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/20/05	--	--	20	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/20/06	--	--	20	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/25/06	--	--	20	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/25/07	2.0	10.0	10	--	ND	2.2 B	ND	ND	--	ND	--	ND	ND	2.6 J
	ug/L	07/26/07	2.0	10.0	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	2.7 J
	ug/L	01/09/08	2.0	10.0	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND

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Summary of Groundwater Monitoring Results
JMN/Cleveland Container Landfill, Permit No. 23-02
Cleveland County, North Carolina

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Upgradient			Downgradient							Blanks
						MW-1A	MW-1B	MW-1C	MW-4	MW-5	MW-6	MW-6A	MW-7	MW-7A	MW-8	
Acetone	ug/L	06/01/97	--	--	100	ND	--	--	ND	ND	ND	--	ND	--	ND	--
NC 2L = 700 ug/L	ug/L	11/09/97	--	--	100	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	02/01/98	--	--	100	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	07/28/98	--	--	100	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	01/25/99	--	--	100	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/21/99	--	--	100	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/25/00	--	--	100	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/20/00	--	--	100	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	100	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	100	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/17/01	--	--	100	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	09/25/01	--	--	100	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	11/27/01	--	--	100	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	01/23/02	--	--	100	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/16/02	--	--	100	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/29/03	--	--	5	--	ND	ND	ND	ND	--	--	--	ND	ND	ND
	ug/L	07/28/03	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	01/14/04	--	--	100	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	07/07/04	--	--	100	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	08/31/04	--	--	100	--	--	--	--	--	--	--	--	--	ND	--
	ug/L	01/26/05	--	--	100	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/20/05	--	--	100	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/20/06	--	--	100	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/25/06	--	--	100	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/25/07	0.9	5.0	100	--	ND	ND	ND	ND	--	ND	--	ND	31 J	ND
	ug/L	07/26/07	0.90	5.0	100	--	ND	ND	ND	ND	--	ND	--	ND	3.1 J	ND
	ug/L	01/09/08	0.90	5.0	100	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
Benzene	ug/L	06/01/97	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	--
NC 2L = 1.0 ug/L	ug/L	11/09/97	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	02/01/98	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	07/28/98	--	--	2	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	01/25/99	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/21/99	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/25/00	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/20/00	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/17/01	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	09/25/01	--	--	5	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	11/27/01	--	--	5	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	01/23/02	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/16/02	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/29/03	--	--	1	--	ND	ND	ND	1.03	--	--	--	ND	ND	ND
	ug/L	07/28/03	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	01/14/04	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	07/07/04	--	--	1	--	ND	ND	ND	1.04	--	ND	--	ND	--	ND
	ug/L	08/31/04	--	--	1	--	--	--	--	--	--	--	--	--	ND	--
	ug/L	01/26/05	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/20/05	--	--	1	--	ND	ND	ND	1.10	--	ND	--	ND	ND	ND
	ug/L	01/20/06	--	--	1	--	ND	ND	ND	1.17	--	ND	--	ND	ND	ND
	ug/L	07/25/06	--	--	1	--	ND	ND	ND	1.08	--	ND	--	1.03	ND	ND
	ug/L	01/25/07	0.12	1.0	1	--	ND	ND	ND	1.5	--	ND	--	1.7	ND	ND
	ug/L	07/26/07	0.12	1.0	1	--	ND	ND	ND	1.3	--	0.35 J	--	1.0	ND	ND
	ug/L	01/09/08	0.12	1.0	1	--	ND	ND	ND	0.97 J	--	ND	--	1.8	ND	ND

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Cleveland County, North Carolina

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Upgradient			Downgradient							Blanks
						MW-1A	MW-1B	MW-1C	MW-4	MW-5	MW-6	MW-6A	MW-7	MW-7A	MW-8	
Chlorobenzene	ug/L	06/01/97	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	--
NC 2L = 50 ug/L	ug/L	11/09/97	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	02/01/98	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	07/28/98	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	01/25/99	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/21/99	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/25/00	--	--	5	ND	--	--	ND	8	ND	--	ND	--	ND	ND
	ug/L	07/20/00	--	--	5	ND	--	--	ND	6	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	5	ND	--	--	ND	6	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	5	--	ND	ND	ND	6	--	ND	--	ND	ND	ND
	ug/L	07/17/01	--	--	5	--	ND	ND	ND	6	--	ND	--	7	ND	ND
	ug/L	09/25/01	--	--	5	--	ND	ND	--	--	--	ND	--	8	--	--
	ug/L	11/27/01	--	--	5	--	ND	ND	--	--	--	ND	--	8	--	--
	ug/L	01/23/02	--	--	5	--	ND	ND	ND	7	--	ND	--	8	ND	ND
	ug/L	07/16/02	--	--	5	--	ND	ND	ND	ND	--	ND	--	6	ND	ND
	ug/L	01/29/03	--	--	1	--	ND	ND	ND	2.2	--	--	--	5.50	ND	ND
	ug/L	07/28/03	--	--	1	--	ND	ND	ND	ND	--	ND	--	3.65	--	ND
	ug/L	01/14/04	--	--	5	--	ND	ND	ND	5.26	--	ND	--	ND	--	ND
	ug/L	07/07/04	--	--	5	--	ND	ND	ND	6.85	--	ND	--	ND	--	ND
	ug/L	08/31/04	--	--	5	--	--	--	--	--	--	--	--	--	ND	--
	ug/L	01/26/05	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/20/05	--	--	5	--	ND	ND	ND	7.01	--	ND	--	ND	ND	ND
	ug/L	01/20/06	--	--	5	--	ND	ND	ND	12.1	--	ND	--	ND	ND	ND
	ug/L	07/25/06	--	--	5	--	ND	ND	ND	11.3	--	ND	--	ND	ND	ND
	ug/L	01/25/07	0.16	1.0	3	--	ND	ND	ND	14	--	0.71 J	--	2.0 J	ND	ND
	ug/L	07/26/07	0.16	1.0	3	--	ND	ND	ND	14	--	3.0	--	1.4 J	ND	ND
	ug/L	01/09/08	0.16	1.0	3	--	ND	ND	ND	6.9	--	0.63 J	--	2.2 J	ND	ND
Chloroethane	ug/L	06/01/97	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
NC 2L = 2800 ug/L	ug/L	11/09/97	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	02/01/98	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	07/28/98	--	--	2	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	01/25/99	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/21/99	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/25/00	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/20/00	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/17/01	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	09/25/01	--	--	10	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	11/27/01	--	--	10	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	01/23/02	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/16/02	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/29/03	--	--	1	--	ND	ND	ND	ND	--	--	--	ND	ND	ND
	ug/L	07/28/03	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	01/14/04	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	07/07/04	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	08/31/04	--	--	10	--	--	--	--	--	--	--	--	--	ND	--
	ug/L	01/26/05	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/20/05	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/20/06	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/25/06	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/25/07	0.4	1.0	10	--	ND	ND	ND	ND	--	0.51 J	--	ND	ND	ND
	ug/L	07/26/07	0.40	1.0	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/09/08	0.40	1.0	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND

TABLE 3

Summary of Groundwater Monitoring Results
JMN/Cleveland Container Landfill, Permit No. 23-02
Cleveland County, North Carolina

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Upgradient			Downgradient							Blanks
						MW-1A	MW-1B	MW-1C	MW-4	MW-5	MW-6	MW-6A	MW-7	MW-7A	MW-8	
1,2-Dichlorobenzene	ug/L	06/01/97	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	--
NC 2L = 24 ug/L	ug/L	11/09/97	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	02/01/98	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	07/28/98	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	01/25/99	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/21/99	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/25/00	--	--	5	ND	--	--	ND	11	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	5	ND	--	--	ND	12	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	5	--	ND	ND	ND	12	--	ND	--	ND	ND	ND
	ug/L	07/17/01	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	09/25/01	--	--	5	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	11/27/01	--	--	5	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	01/23/02	--	--	5	--	ND	ND	ND	12	--	ND	--	ND	ND	ND
	ug/L	07/16/02	--	--	5	--	ND	ND	ND	12	--	ND	--	ND	ND	ND
	ug/L	01/29/03	--	--	1	--	ND	ND	ND	5.77	--	--	--	ND	ND	ND
	ug/L	07/28/03	--	--	1	--	ND	ND	ND	3.11	--	ND	--	ND	--	ND
	ug/L	01/14/04	--	--	5	--	ND	ND	ND	12.5	--	ND	--	ND	--	ND
	ug/L	07/07/04	--	--	5	--	ND	ND	ND	17.3	--	ND	--	ND	--	ND
	ug/L	08/31/04	--	--	5	--	--	--	--	--	--	--	--	--	ND	--
	ug/L	01/26/05	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/20/05	--	--	5	--	ND	ND	ND	15.3	--	ND	--	ND	ND	ND
	ug/L	01/20/06	--	--	5	--	ND	ND	ND	24.0	--	ND	--	ND	ND	ND
	ug/L	07/25/06	--	--	5	--	ND	ND	ND	25.2	--	ND	--	ND	ND	ND
	ug/L	01/25/07	0.17	1.0	5	--	ND	ND	ND	30	--	0.36 J	--	ND	ND	ND
	ug/L	07/26/07	0.17	1.0	5	--	0.34 J	ND	ND	31	--	ND	--	ND	ND	ND
	ug/L	01/09/08	0.17	1.0	5	--	ND	ND	ND	18	--	ND	--	ND	ND	ND
1,4-Dichlorobenzene	ug/L	06/01/97	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	--
NC 2L = 1.4 ug/L	ug/L	11/09/97	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	02/01/98	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	07/28/98	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	01/25/99	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/21/99	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/25/00	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/20/00	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/17/01	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	09/25/01	--	--	5	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	11/27/01	--	--	5	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	01/23/02	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/16/02	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/29/03	--	--	1	--	ND	ND	ND	1.01	--	--	--	2.46	ND	ND
	ug/L	07/28/03	--	--	1	--	ND	ND	ND	ND	--	ND	--	1.57	--	ND
	ug/L	01/14/04	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	07/07/04	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	08/31/04	--	--	5	--	--	--	--	--	--	--	--	--	ND	--
	ug/L	01/26/05	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/20/05	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/20/06	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/25/06	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/25/07	0.15	1.0	3	--	ND	ND	ND	3.6	--	ND	--	0.62 J	ND	ND
	ug/L	07/26/07	0.15	1.0	1	--	ND	ND	ND	4.0	--	0.97 J	--	0.43 J	ND	ND
	ug/L	01/09/08	0.15	1.0	1	--	ND	ND	ND	2.3	--	ND	--	0.63 J	ND	ND

TABLE 3

Summary of Groundwater Monitoring Results
JMN/Cleveland Container Landfill, Permit No. 23-02
Cleveland County, North Carolina

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Upgradient			Downgradient							Blanks
						MW-1A	MW-1B	MW-1C	MW-4	MW-5	MW-6	MW-6A	MW-7	MW-7A	MW-8	
cis-1,2-Dichloroethene	ug/L	06/01/97	--	--	5	ND	--	--	ND	ND	ND	--	5.7	--	ND	--
NC 2L = 70 ug/L	ug/L	11/09/97	--	--	5	ND	--	--	ND	ND	ND	--	9.2	--	ND	ND
	ug/L	02/01/98	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	07/28/98	--	--	2	ND	--	--	ND	ND	ND	--	14	--	ND	--
	ug/L	01/25/99	--	--	5	ND	--	--	ND	ND	ND	--	5	--	ND	ND
	ug/L	07/21/99	--	--	5	ND	--	--	ND	ND	ND	--	13	--	ND	ND
	ug/L	01/25/00	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/20/00	--	--	5	ND	--	--	ND	ND	ND	--	20	--	ND	ND
	ug/L	01/08/01	--	--	5	ND	--	--	ND	ND	ND	--	17	--	ND	ND
	ug/L	01/08/01	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/17/01	--	--	5	--	ND	ND	ND	ND	--	ND	--	15	5	ND
	ug/L	09/25/01	--	--	5	--	ND	ND	--	--	--	ND	--	16	--	--
	ug/L	11/27/01	--	--	5	--	ND	ND	--	--	--	ND	--	13	--	--
	ug/L	01/23/02	--	--	5	--	ND	ND	ND	ND	--	ND	--	13	7	ND
	ug/L	07/16/02	--	--	5	--	ND	ND	ND	ND	--	ND	--	12	5	ND
	ug/L	01/29/03	--	--	1	--	ND	ND	ND	ND	--	--	--	8.81	8.51	ND
	ug/L	07/28/03	--	--	1	--	ND	ND	ND	ND	--	ND	--	4.73	--	ND
	ug/L	01/14/04	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	07/07/04	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	08/31/04	--	--	5	--	--	--	--	--	--	--	--	-	ND	--
	ug/L	01/26/05	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/20/05	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/20/06	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/25/06	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/25/07	0.14	1.0	5	--	ND	ND	0.31 J	1.4 J	--	ND	--	1.7 J	ND	ND
	ug/L	07/26/07	0.14	1.0	5	--	ND	ND	0.86 J	1.3 J	--	0.44 J	--	1.1 J	ND	ND
	ug/L	01/09/08	0.14	1.0	5	--	ND	ND	0.76 J	1.3 J	--	ND	--	2.9 J	ND	ND
Chloromethane	ug/L	06/01/97	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
NC 2L = 2.6 ug/L	ug/L	11/09/97	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	02/01/98	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	07/28/98	--	--	10	ND	--	--	ND	ND	ND	--	25	--	ND	--
	ug/L	01/25/99	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/21/99	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/25/00	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/20/00	--	--	10	ND	--	--	ND	ND	ND	--	17	--	ND	ND
	ug/L	01/08/01	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/17/01	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	09/25/01	--	--	10	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	11/27/01	--	--	10	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	01/23/02	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/16/02	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/29/03	--	--	1	--	ND	ND	ND	ND	--	--	--	ND	ND	ND
	ug/L	07/28/03	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	01/14/04	--	--	2.6	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	07/07/04	--	--	2.6	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	08/31/04	--	--	2.6	--	--	--	--	--	--	--	--	--	ND	--
	ug/L	01/26/05	--	--	2.6	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/20/05	--	--	2.6	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/20/06	--	--	2.6	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/25/06	--	--	2.6	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/25/07	0.18	1.0	5.5	--	ND	ND	1.0 J	5.3 J	--	1.8 J	--	3.9 J	0.34 J	ND
	ug/L	07/26/07	0.18	1.0	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/09/08	0.18	1.0	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND

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Cleveland County, North Carolina

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Upgradient			Downgradient							Blanks
						MW-1A	MW-1B	MW-1C	MW-4	MW-5	MW-6	MW-6A	MW-7	MW-7A	MW-8	
Methylene chloride	ug/L	06/01/97	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
NC 2L = 4.6 ug/L	ug/L	11/09/97	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	02/01/98	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	07/28/98	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	01/25/99	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/21/99	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/25/00	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/20/00	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/17/01	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	09/25/01	--	--	10	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	11/27/01	--	--	10	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	01/23/02	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/16/02	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/29/03	--	--	5	--	ND	ND	ND	ND	--	--	--	ND	ND	ND
	ug/L	07/28/03	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	01/14/04	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	07/07/04	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	08/31/04	--	--	10	--	--	--	--	--	--	--	--	--	ND	--
	ug/L	01/26/05	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/20/05	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/20/06	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/25/06	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/25/07	0.088	2.0	5.5	--	ND	ND	ND	0.49 J	--	ND	--	ND	ND	ND
	ug/L	07/26/07	0.088	1.0	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/09/08	0.088	1.0	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
Iodomethane	ug/L	06/01/97	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
No 2L Standard	ug/L	11/09/97	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	02/01/98	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	07/28/98	--	--	100	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	01/25/99	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/21/99	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/25/00	--	--	10	ND	--	--	ND	ND	ND	--	44	--	ND	ND
	ug/L	07/20/00	--	--	10	ND	--	--	ND	ND	ND	--	16	--	10	ND
	ug/L	01/08/01	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/17/01	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	09/25/01	--	--	10	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	11/27/01	--	--	10	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	01/23/02	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/16/02	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/29/03	--	--	5	--	ND	ND	ND	ND	--	--	--	ND	ND	ND
	ug/L	07/28/03	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	01/14/04	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	07/07/04	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	08/31/04	--	--	10	--	--	--	--	--	--	--	--	--	ND	--
	ug/L	01/26/05	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/20/05	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/20/06	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/25/06	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/25/07	0.23	2.0	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/26/07	0.23	2.0	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/09/08	0.23	2.0	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND

TABLE 3

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JMN/Cleveland Container Landfill, Permit No. 23-02
Cleveland County, North Carolina

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Upgradient			Downgradient							Blanks
						MW-1A	MW-1B	MW-1C	MW-4	MW-5	MW-6	MW-6A	MW-7	MW-7A	MW-8	
Tetrachloroethene	ug/L	06/01/97	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	--
NC 2L = 0.7 ug/L	ug/L	11/09/97	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	02/01/98	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	07/28/98	--	--	2	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	01/25/99	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/21/99	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/25/00	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/20/00	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/17/01	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	09/25/01	--	--	5	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	11/27/01	--	--	5	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	01/23/02	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/16/02	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/29/03	--	--	1	--	ND	ND	ND	ND	--	--	--	ND	1.38	ND
	ug/L	07/28/03	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	01/14/04	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	07/07/04	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	08/31/04	--	--	1	--	--	--	--	--	--	--	--	--	ND	--
	ug/L	01/26/05	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/20/05	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/20/06	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/25/06	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/25/07	0.25	1.0	3	--	ND	ND	ND	0.50 J	--	ND	--	ND	0.68 J	ND
	ug/L	07/26/07	0.25	1.0	1	--	ND	ND	ND	0.51 J	--	ND	--	ND	0.51 J	ND
	ug/L	01/09/08	0.25	1.0	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
Toluene	ug/L	06/01/97	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	--
NC 2L = 1000 ug/L	ug/L	11/09/97	--	--	5	ND	--	--	25	ND	ND	--	ND	--	ND	ND
	ug/L	02/01/98	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	07/28/98	--	--	2	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	01/25/99	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/21/99	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/25/00	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/20/00	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/17/01	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	09/25/01	--	--	5	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	11/27/01	--	--	5	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	01/23/02	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/16/02	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/29/03	--	--	1	--	ND	ND	ND	ND	--	--	--	ND	ND	10.5
	ug/L	07/28/03	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	01/14/04	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	07/07/04	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	--	5.32
	ug/L	08/31/04	--	--	5	--	--	--	--	--	--	--	--	--	ND	--
	ug/L	01/26/05	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/20/05	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/20/06	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/25/06	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/25/07	0.15	1.0	5	--	ND	ND	2.8 J	ND	--	ND	--	ND	ND	ND
	ug/L	07/26/07	0.15	1.0	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/09/08	0.15	1.0	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND

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Cleveland County, North Carolina

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Upgradient			Downgradient							Blanks
						MW-1A	MW-1B	MW-1C	MW-4	MW-5	MW-6	MW-6A	MW-7	MW-7A	MW-8	
Trichlorofluoromethane	ug/L	06/01/97	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	--
NC 2L = 2100 ug/L	ug/L	11/09/97	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	02/01/98	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	07/28/98	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	01/25/99	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/21/99	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/25/00	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/20/00	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	5	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/17/01	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	09/25/01	--	--	5	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	11/27/01	--	--	5	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	01/23/02	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/16/02	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/29/03	--	--	1	--	ND	ND	ND	2.39	--	--	--	ND	ND	ND
	ug/L	07/28/03	--	--	1	--	ND	ND	ND	1.69	--	ND	--	ND	--	ND
	ug/L	01/14/04	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	07/07/04	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	08/31/04	--	--	5	--	--	--	--	--	--	--	--	--	ND	--
	ug/L	01/26/05	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/20/05	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/20/06	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/25/06	--	--	5	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/25/07	0.16	1.0	5	--	ND	ND	ND	0.40 J	--	ND	--	ND	0.85 J	ND
	ug/L	07/26/07	0.16	1.0	1	--	ND	ND	ND	ND	--	ND	--	ND	0.59 J	ND
Vinyl Chloride	ug/L	06/01/97	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
NC 2L = 0.015 ug/L	ug/L	11/09/97	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	02/01/98	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	07/28/98	--	--	2	ND	--	--	ND	ND	ND	--	ND	--	ND	--
	ug/L	01/25/99	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/21/99	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/25/00	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	07/20/00	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	10	ND	--	--	ND	ND	ND	--	ND	--	ND	ND
	ug/L	01/08/01	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/17/01	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	09/25/01	--	--	10	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	11/27/01	--	--	10	--	ND	ND	--	--	--	ND	--	ND	--	--
	ug/L	01/23/02	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/16/02	--	--	10	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/29/03	--	--	1	--	ND	ND	ND	ND	--	-	--	ND	2.03	ND
	ug/L	07/28/03	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	01/14/04	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	07/07/04	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	--	ND
	ug/L	08/31/04	--	--	1	--	--	--	--	--	--	-	--	--	ND	--
	ug/L	01/26/05	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/20/05	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/20/06	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	07/25/06	--	--	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/25/07	0.15	1.0	5.5	--	ND	ND	ND	ND	--	ND	--	ND	1.2 J	ND
	ug/L	07/26/07	0.15	1.0	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND
	ug/L	01/09/08	0.15	1.0	1	--	ND	ND	ND	ND	--	ND	--	ND	ND	ND

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						MW-1A	MW-1B	MW-1C	MW-4	MW-5	MW-6	MW-6A	MW-7	MW-7A	MW-8	
pH (field)	S.U.	06/01/97	--	--	--	5.85	--	--	6.28	5.40	6.49	--	5.58	--	5.70	--
	S.U.	11/09/97	--	--	--	5.97	--	--	5.93	5.04	6.24	--	5.30	--	5.07	--
	S.U.	02/01/98	--	--	--	6.22	--	--	5.81	2.39	6.06	--	4.83	--	4.77	--
	S.U.	07/28/98	--	--	--	5.67	--	--	6.00	5.22	6.10	--	5.34	--	5.23	--
	S.U.	01/25/99	--	--	--	5.78	--	--	6.34	5.14	6.18	--	5.44	--	5.23	--
	S.U.	07/21/99	--	--	--	5.79	--	--	6.35	5.41	6.18	--	5.56	--	5.20	--
	S.U.	01/25/00	--	--	--	6.14	--	--	7.37	6.21	6.21	--	6.01	--	5.68	--
	S.U.	07/20/00	--	--	--	6.16	--	--	6.33	5.32	6.51	--	5.53	--	5.47	--
	S.U.	01/08/01	--	--	--	5.70	--	--	6.49	5.49	6.38	--	5.64	--	5.70	--
	S.U.	01/08/01	--	--	--	--	--	--	6.49	5.49	--	--	--	--	5.70	--
	S.U.	07/17/01	--	--	--	--	6.24	6.45	6.32	5.40	--	6.08	--	5.38	5.49	--
	S.U.	09/25/01	--	--	--	--	6.35	6.38	--	--	--	6.28	--	5.19	--	--
	S.U.	11/27/01	--	--	--	--	6.67	6.65	--	--	--	6.35	--	5.58	--	--
	S.U.	01/23/02	--	--	--	--	6.24	6.29	6.36	5.82	--	6.32	--	5.32	5.63	--
	S.U.	07/16/02	--	--	--	--	5.90	5.83	5.66	4.95	--	5.77	--	4.95	4.95	--
	S.U.	01/29/03	--	--	--	--	6.20	6.30	6.40	5.50	--	--	--	5.10	5.60	--
	S.U.	07/28/03	--	--	--	--	6.10	6.50	6.40	5.50	--	6.20	--	5.40	--	--
	S.U.	01/14/04	--	--	--	--	6.32	6.32	6.29	5.37	--	6.24	--	5.01	--	--
	S.U.	07/07/04	--	--	--	--	5.85	6.17	5.99	5.23	--	5.67	--	5.42	--	--
	S.U.	08/31/04	--	--	--	--	--	--	--	--	--	--	--	--	5.31	--
	S.U.	01/26/05	--	--	--	--	5.78	6.16	6.22	5.29	--	6.06	--	5.05	5.38	--
	S.U.	07/20/05	--	--	--	--	6.10	6.40	6.30	5.29	--	6.10	--	6.70	5.10	--
	S.U.	01/20/06	--	--	--	--	5.70	6.30	6.50	5.30	--	5.60	--	5.00	5.60	--
	S.U.	07/25/06	--	--	--	--	6.00	6.20	6.10	5.60	--	6.10	--	5.20	5.40	--
	S.U.	01/25/07	--	--	--	--	5.89	6.13	6.09	5.72	--	6.25	--	5.27	5.63	--
	S.U.	07/26/07	--	--	--	--	6.60	6.51	6.44	5.96	--	6.25	--	7.29	5.29	--
	S.U.	01/09/08	--	--	--	--	5.70	5.91	6.07	5.73	--	6.40	--	6.46	5.59	--
Specific Conductance (field)	uS/cm	06/01/97	--	--	--	80	--	--	102	261	166	--	157	--	49	--
	uS/cm	11/09/97	--	--	--	66	--	--	118	302	138	--	163	--	35	--
	uS/cm	02/01/98	--	--	--	69	--	--	117	254	172	--	137	--	34	--
	uS/cm	07/28/98	--	--	--	25	--	--	62	99	47	--	68	--	20	--
	uS/cm	01/25/99	--	--	--	26	--	--	66	102	49	--	70	--	19	--
	uS/cm	07/21/99	--	--	--	70	--	--	140	238	48	--	111	--	27	--
	uS/cm	01/25/00	--	--	--	63	--	--	145	296	53	--	138	--	40	--
	uS/cm	07/20/00	--	--	--	52	--	--	187	223	40	--	104	--	41	--
	uS/cm	01/08/01	--	--	--	42	--	--	176	253	66	--	121	--	42	--
	uS/cm	01/08/01	--	--	--	--	--	--	176	253	--	--	--	--	42	--
	uS/cm	07/17/01	--	--	--	--	81	180	244	290	--	252	--	123	46	--
	uS/cm	09/25/01	--	--	--	--	67	145	--	--	--	346	--	107	--	--
	uS/cm	11/27/01	--	--	--	--	62	142	--	--	--	399	--	114	--	--
	uS/cm	01/23/02	--	--	--	--	51	101	114	166	--	220	--	95	37	--
	uS/cm	07/16/02	--	--	--	--	61	87	118	189	--	373	--	84	30	--
	uS/cm	01/29/03	--	--	--	--	158	201	248	284	--	--	--	139	62.4	--
	uS/cm	07/28/03	--	--	--	--	204	232	226	252	--	292	--	116	--	--
	uS/cm	01/14/04	--	--	--	--	122.3	202.3	191	295.2	--	138	--	121	--	--
	uS/cm	07/07/04	--	--	--	--	118.6	194.8	175.9	299.1	--	258.7	--	125.1	--	--
	uS/cm	08/31/04	--	--	--	--	--	--	--	--	--	--	--	--	53.7	--
	uS/cm	01/26/05	--	--	--	--	315	451	425	624	--	663	--	319	165	--
	uS/cm	07/20/05	--	--	--	--	148	230	196	402	--	507	--	148	51.2	--
	uS/cm	01/20/06	--	--	--	--	96.4	132	319	388	--	467	--	173.5	69.7	--
	uS/cm	07/25/06	--	--	--	--	106.7	206.9	175.7	341.3	--	479	--	149.6	51.3	--
	uS/cm	01/25/07	--	--	--	--	105	313	244	473	--	360	--	234	59	--
	uS/cm	07/26/07	--	--	--	--	94	249	163	424	--	641	--	145	57	--
	uS/cm	01/09/08	--	--	--	--	162	323	159	485	--	507	--	257	88	--

TABLE 3

Summary of Groundwater Monitoring Results
JMN/Cleveland Container Landfill, Permit No. 23-02
Cleveland County, North Carolina

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	Upgradient			Downgradient							Blanks
						MW-1A	MW-1B	MW-1C	MW-4	MW-5	MW-6	MW-6A	MW-7	MW-7A	MW-8	
Temperature (field)	°C	06/01/97	--	--	--	16.90	--	--	16.10	15.90	17.60	--	16.10	--	17.60	--
	°C	11/09/97	--	--	--	16.10	--	--	16.90	16.90	16.00	--	15.80	--	16.60	--
	°C	02/01/98	--	--	--	13.90	--	--	13.10	15.80	15.90	--	13.80	--	15.90	--
	°C	07/28/98	--	--	--	15.40	--	--	16.70	15.90	15.10	--	19.90	--	18.17	--
	°C	01/25/99	--	--	--	25.00	--	--	25.00	25.00	25.00	--	25.00	--	25.00	--
	°C	07/21/99	--	--	--	19.70	--	--	20.00	19.40	20.60	--	22.70	--	19.40	--
	°C	01/25/00	--	--	--	16.10	--	--	7.70	7.90	8.30	--	13.00	--	15.50	--
	°C	07/20/00	--	--	--	21.80	--	--	23.30	20.00	21.90	--	22.20	--	22.00	--
	°C	01/08/01	--	--	--	16.00	--	--	15.70	15.80	16.00	--	16.30	--	16.00	--
	°C	01/08/01	--	--	--	--	--	--	15.70	15.80	--	--	--	--	16.00	--
	°C	07/17/01	--	--	--	--	21.80	19.90	20.30	20.70	--	18.80	--	19.60	20.10	--
	°C	09/25/01	--	--	--	--	19.80	19.40	--	--	--	19.70	--	17.60	--	--
	°C	11/27/01	--	--	--	--	17.10	17.00	--	--	--	15.70	--	15.50	--	--
	°C	01/23/02	--	--	--	--	15.90	15.90	15.70	16.60	--	15.80	--	14.90	17.50	--
	°C	07/16/02	--	--	--	--	21.10	20.20	19.30	18.40	--	21.30	--	18.40	22.00	--
	°C	01/29/03	--	--	--	--	14.80	14.10	13.10	15.80	--	--	--	13.60	15.50	--
	°C	07/28/03	--	--	--	--	20.10	19.60	21.50	19.00	--	18.10	--	19.30	--	--
	°C	01/14/04	--	--	--	--	16.20	11.70	13.10	17.20	--	7.70	--	15.60	--	--
	°C	07/07/04	--	--	--	--	21.60	20.60	23.10	23.70	--	18.30	--	18.80	--	--
	°C	08/31/04	--	--	--	--	--	--	--	--	--	--	--	--	19.60	--
	°C	01/26/05	--	--	--	--	16.90	17.50	10.70	15.20	--	15.10	--	13.40	14.90	--
	°C	07/20/05	--	--	--	--	22.40	20.70	23.70	20.70	--	19.50	--	19.30	20.40	--
	°C	01/20/06	--	--	--	--	17.70	17.50	13.50	15.80	--	16.30	--	15.90	15.20	--
	°C	07/25/06	--	--	--	--	21.60	22.20	23.30	19.90	--	21.40	--	21.60	22.40	--
	°C	01/25/07	--	--	--	--	16.60	15.60	14.30	16.50	--	17.80	--	16.30	17.00	--
	°C	07/26/07	--	--	--	--	18.56	18.59	22.41	21.49	--	21.71	--	21.25	21.41	--
	°C	01/09/08	--	--	--	--	17.16	17.16	17.40	19.46	--	18.83	--	18.40	19.29	--
Turbidity (field)	NTU	06/01/97	--	--	--	52	--	--	440	91	550	--	80	--	31	--
	NTU	11/09/97	--	--	--	>1000	--	--	>1000	>1000	>1000	--	>1000	--	>1000	--
	NTU	02/01/98	--	--	--	500	--	--	190	150	749	--	150	--	431	--
	NTU	07/28/98	--	--	--	41	--	--	17	26	142	--	19	--	15	--
	NTU	01/25/99	--	--	--	73	--	--	12	24	11	--	49	--	120	--
	NTU	07/21/99	--	--	--	120	--	--	38	205	122	--	120	--	7.77	--
	NTU	01/25/00	--	--	--	8.67	--	--	8.18	143	16	--	677	--	30	--
	NTU	07/20/00	--	--	--	32	--	--	12	165	27	--	16	--	39	--
	NTU	01/08/01	--	--	--	35	--	--	110	45	--	--	37	--	35	--
	NTU	01/08/01	--	--	--	--	--	--	110	45	--	--	--	--	35	--
	NTU	07/17/01	--	--	--	--	542	180	126	140	--	6.64	--	115	38	--
	NTU	09/25/01	--	--	--	--	145	11	--	--	--	6.85	--	20	--	--
	NTU	11/27/01	--	--	--	--	147	16	--	--	--	12	--	6.04	--	--
	NTU	01/23/02	--	--	--	--	156	10	152	12	--	4.28	--	11	39	--
	NTU	07/16/02	--	--	--	--	77	29	28	18	--	4.89	--	12	650	--
	NTU	01/29/03	--	--	--	--	62.1	12.4	23.9	24.5	--	--	--	5.93	65.3	--
	NTU	07/28/03	--	--	--	--	100	20	16	10	--	0	--	10	--	--
	NTU	01/14/04	--	--	--	--	80	7.55	61.7	45.2	--	9.48	--	26.1	--	--
	NTU	07/07/04	--	--	--	--	54	5.96	50.1	71.4	--	10.4	--	127	--	--
	NTU	08/31/04	--	--	--	--	--	--	--	--	--	--	--	--	82	--
	NTU	01/26/05	--	--	--	--	47.6	19.8	10.6	10.6	--	1.04	--	1.84	5.34	--
	NTU	07/20/05	--	--	--	--	46.1	18	12.7	14	--	21	--	31.7	17.8	--
	NTU	01/20/06	--	--	--	--	11	13.38	26.72	6.11	--	5.79	--	26.2	2.08	--
	NTU	07/25/06	--	--	--	--	283	22.4	56.6	38.6	--	2.64	--	8.18	34.5	--
	NTU	01/25/07	--	--	--	--	>1000	97.4	>1000	642	--	0	--	527	854	--
	NTU	07/26/07	--	--	--	--	150	24.6	29.4	14.1	--	12.8	--	54.1	1	--
	NTU	01/09/08	--	--	--	--	106	8.76	58.4	6.16	--	1.15	--	2.32	6.69	--

Notes:
mg/L = milligrams per liter
ug/L = micrograms per liter
J = Estimated value
B = Blank-qualified data
S.U. = Standard Units
NTU = Nephelometric Turbidity Units
R = Anomalous data
ND = Not detected at the stated reporting limit
uS/cm= microsiemens per cubic centimeter
mV = Millivolts
-- = no data
Blanks = field, trip and method blanks
Shaded = Concentrations above the NC 2L or Groundwater Protection standards (GPS) have been shaded
SWS Reporting Limit = NCPQL prior to 2007 and NCSWSL starting in 01/25/07
*The original 7/26/07 mercury hit in SW-4 appears to be anomalous, therefore the sample was re-prepped and re-analyzed for confirmation. The re-prep of these samples occurred outside the EPA's recommended hold time. Therefore, both sets of results are provided in the table above.

TABLE 4

Summary of Surface Water Monitoring Results
JMN/Cleveland Container Landfill, Permit No. 23-02
Cleveland County, North Carolina

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	(Upstream) SW-3	(Downstream) SW-4	Blanks
Arsenic	ug/L	01/29/03	--	--	5	ND	ND	ND
SW Standard = 50 ug/L	ug/L	07/28/03	--	--	5	ND	ND	ND
	ug/L	01/14/04	--	--	50	ND	ND	ND
	ug/L	07/07/04	--	--	50	ND	ND	ND
	ug/L	01/26/05	--	--	50	ND	ND	ND
	ug/L	07/20/05	--	--	50	Dry	ND	ND
	ug/L	01/20/06	--	--	10	ND	ND	ND
	ug/L	07/25/06	--	--	10	Dry	ND	ND
	ug/L	01/25/07	2.0	10.0	10	ND	ND	ND
	ug/L	07/26/07	2.0	10.0	10	Dry	2.3 B	4.4 J
	ug/L	01/09/08	2.0	10.0	10	Dry	ND	ND
Barium	ug/L	01/29/03	--	--	5	27.2	62.6	ND
(No SW Standard)	ug/L	07/28/03	--	--	5	77.5	28.2	46.9
	ug/L	01/14/04	--	--	500	ND	ND	ND
	ug/L	07/07/04	--	--	500	ND	ND	ND
	ug/L	01/26/05	--	--	500	ND	ND	ND
	ug/L	07/20/05	--	--	500	Dry	ND	ND
	ug/L	01/20/06	--	--	500	ND	ND	ND
	ug/L	07/25/06	--	--	500	Dry	ND	ND
	ug/L	01/25/07	0.20	10.0	100	29.9 J	24.0 J	0.30 J
	ug/L	07/26/07	0.20	10.0	100	Dry	17.2 J	0.80 J
	ug/L	01/09/08	0.20	10.0	100	Dry	15.7 J	ND
Chromium	ug/L	01/29/03	--	--	5	ND	ND	ND
SW Standard = 50 ug/L	ug/L	07/28/03	--	--	5	6.27	ND	ND
	ug/L	01/14/04	--	--	10	ND	ND	ND
	ug/L	07/07/04	--	--	10	ND	ND	ND
	ug/L	01/26/05	--	--	10	ND	ND	ND
	ug/L	07/20/05	--	--	10	Dry	ND	ND
	ug/L	01/20/06	--	--	10	ND	ND	ND
	ug/L	07/25/06	--	--	10	Dry	ND	ND
	ug/L	01/25/07	2.0	10.0	10	ND	ND	ND
	ug/L	07/26/07	2.0	10.0	10	Dry	ND	ND
	ug/L	01/09/08	2.0	10.0	10	Dry	ND	ND
Mercury	ug/L	01/25/07	0.11	0.20	0.2	ND	ND	ND
SW Standard = 0.012 ug/L	ug/L	07/26/07	0.11	0.20	0.2	Dry	0.23 R	0.25 R
(re-analyzation)	ug/L	07/26/07	0.11	0.20	0.2	Dry	ND	ND
	ug/L	01/09/08	0.11	0.20	0.2	Dry	ND	ND
Selenium	ug/L	01/29/03	--	--	5	11.5	23.3	ND
SW Standard = 5 ug/L	ug/L	07/28/03	--	--	5	ND	ND	ND
	ug/L	01/14/04	--	--	20	ND	ND	ND
	ug/L	07/07/04	--	--	20	ND	ND	ND
	ug/L	01/26/05	--	--	20	ND	ND	ND
	ug/L	07/20/05	--	--	20	Dry	ND	ND
	ug/L	01/20/06	--	--	20	ND	ND	ND
	ug/L	07/25/06	--	--	20	Dry	ND	ND
	ug/L	01/25/07	2.0	10.0	10	ND	ND	2.6 J
	ug/L	07/26/07	2.0	10.0	10	Dry	ND	2.7 J
	ug/L	01/09/08	2.0	10.0	10	Dry	ND	ND
Acetone	ug/L	01/29/03	--	--	5	ND	ND	ND
(No SW Standard)	ug/L	07/28/03	--	--	5	ND	ND	ND
	ug/L	01/14/04	--	--	100	ND	ND	ND
	ug/L	07/07/04	--	--	100	ND	ND	ND
	ug/L	01/26/05	--	--	100	ND	ND	ND
	ug/L	07/20/05	--	--	100	Dry	ND	ND
	ug/L	01/20/06	--	--	100	ND	ND	ND
	ug/L	07/25/06	--	--	100	Dry	ND	ND
	ug/L	01/25/07	0.90	5.0	100	ND	ND	ND
	ug/L	07/26/07	0.90	5.0	100	Dry	ND	ND
	ug/L	01/09/08	0.90	5.0	100	Dry	6.2 J	ND

TABLE 4

Summary of Surface Water Monitoring Results
JMN/Cleveland Container Landfill, Permit No. 23-02
Cleveland County, North Carolina

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	(Upstream) SW-3	(Downstream) SW-4	Blanks
Chlorobenzene	ug/L	01/29/03	--	--	1	ND	ND	ND
(No SW Standard)	ug/L	07/28/03	--	--	1	ND	ND	ND
	ug/L	01/14/04	--	--	5	ND	ND	ND
	ug/L	07/07/04	--	--	5	ND	ND	ND
	ug/L	01/26/05	--	--	5	6.82	ND	ND
	ug/L	07/20/05	--	--	5	Dry	ND	ND
	ug/L	01/20/06	--	--	5	ND	ND	ND
	ug/L	07/25/06	--	--	5	Dry	ND	ND
	ug/L	01/25/07	0.16	1.0	3	ND	ND	ND
	ug/L	07/26/07	0.16	1.0	3	Dry	ND	ND
	ug/L	01/09/08	0.16	1.0	3	Dry	ND	ND
1,2-Dichlorobenzene	ug/L	01/29/03	--	--	1	ND	ND	ND
(No SW Standard)	ug/L	07/28/03	--	--	1	ND	ND	ND
	ug/L	01/14/04	--	--	5	ND	ND	ND
	ug/L	07/07/04	--	--	5	ND	ND	ND
	ug/L	01/26/05	--	--	5	ND	15.4	ND
	ug/L	07/20/05	--	--	5	Dry	ND	ND
	ug/L	01/20/06	--	--	5	ND	ND	ND
	ug/L	07/25/06	--	--	5	Dry	ND	ND
	ug/L	01/25/07	0.17	1.0	5	ND	ND	ND
	ug/L	07/26/07	0.17	1.0	5	Dry	ND	ND
	ug/L	01/09/08	0.17	1.0	5	Dry	ND	ND
Toluene	ug/L	01/29/03	--	--	1	ND	ND	10.5
SW Standard = 11 ug/L	ug/L	07/28/03	--	--	1	1.15	ND	ND
	ug/L	01/14/04	--	--	5	ND	ND	ND
	ug/L	07/07/04	--	--	5	ND	ND	5.32
	ug/L	01/26/05	--	--	5	ND	ND	ND
	ug/L	07/20/05	--	--	5	Dry	ND	ND
	ug/L	01/20/06	--	--	5	ND	ND	ND
	ug/L	07/25/06	--	--	5	Dry	ND	ND
	ug/L	01/25/07	0.15	1.0	5	ND	ND	ND
	ug/L	07/26/07	0.15	1.0	1	Dry	ND	ND
	ug/L	01/09/08	0.15	1.0	1	Dry	ND	ND
pH (field)	S.U.	01/29/03	--	--	--	6.80	6.70	--
	S.U.	07/28/03	--	--	--	6.80	6.80	--
	S.U.	01/14/04	--	--	--	6.83	7.16	--
	S.U.	07/07/04	--	--	--	6.65	6.79	--
	S.U.	08/31/04	--	--	--	--	--	--
	S.U.	01/26/05	--	--	--	6.67	5.31	--
	S.U.	07/20/05	--	--	--	Dry	9.07	--
	S.U.	01/20/06	--	--	--	6.20	6.30	--
	S.U.	07/25/06	--	--	--	Dry	6.50	--
	S.U.	01/25/07	--	--	--	6.00	6.19	--
	S.U.	07/26/07	--	--	--	Dry	6.73	--
	S.U.	01/09/08	--	--	--	Dry	6.31	--
Specific	uS/cm	01/29/03	--	--	--	60.3	87	--
Conductance (field)	uS/cm	07/28/03	--	--	--	253	100	--
	uS/cm	01/14/04	--	--	--	76	60	--
	uS/cm	07/07/04	--	--	--	85.2	81	--
	uS/cm	08/31/04	--	--	--	--	--	--
	uS/cm	01/26/05	--	--	--	243	117	--
	uS/cm	07/20/05	--	--	--	Dry	90	--
	uS/cm	01/20/06	--	--	--	56.7	77.7	--
	uS/cm	07/25/06	--	--	--	Dry	47.1	--
	uS/cm	01/25/07	--	--	--	114	117	--
	uS/cm	07/26/07	--	--	--	Dry	193	--
	uS/cm	01/09/08	--	--	--	Dry	275	--

TABLE 4

Summary of Surface Water Monitoring Results
JMN/Cleveland Container Landfill, Permit No. 23-02
Cleveland County, North Carolina

Detected Monitoring Constituents/Analytes	Units	Sample Date	Detection Limit	Quantitation Limit	SWS Reporting Limit	(Upstream) SW-3	(Downstream) SW-4	Blanks
Temperature (field)	°C	01/29/03	--	--	--	3.2	6.2	--
	°C	07/28/03	--	--	--	26.8	25.7	--
	°C	01/14/04	--	--	--	7.1	6.7	--
	°C	07/07/04	--	--	--	27.9	28.3	--
	°C	08/31/04	--	--	--	--	--	--
	°C	01/26/05	--	--	--	14.1	3.5	--
	°C	07/20/05	--	--	--	Dry	26.1	--
	°C	01/20/06	--	--	--	16.2	13.1	--
	°C	07/25/06	--	--	--	Dry	27.6	--
	°C	01/25/07	--	--	--	11.8	13.8	--
	°C	07/26/07	--	--	--	Dry	24.07	--
	°C	01/09/08	--	--	--	Dry	11.82	--
Turbidity (field)	NTU	01/29/03	--	--	--	16.7	22.4	--
	NTU	07/28/03	--	--	--	11	18	--
	NTU	01/14/04	--	--	--	4.3	14.6	--
	NTU	07/07/04	--	--	--	4.82	4.04	--
	NTU	08/31/04	--	--	--	--	--	--
	NTU	01/26/05	--	--	--	5.2	29.5	--
	NTU	07/20/05	--	--	--	Dry	6.41	--
	NTU	01/20/06	--	--	--	3.21	5.28	--
	NTU	07/25/06	--	--	--	Dry	121	--
	NTU	01/25/07	--	--	--	0.0	0.0	--
	NTU	07/26/07	--	--	--	Dry	2.0	--
	NTU	01/09/08	--	--	--	Dry	116	--
Oxidation-Reduction Potential (field)	mV	01/25/07	--	--	--	153	233	--
	mV	07/26/07	--	--	--	Dry	77	--
	mV	01/09/08	--	--	--	Dry	151	--
Dissolved Oxygen (field)	mg/L	01/25/07	--	--	--	8.60	5.00	--
	mg/L	07/26/07	--	--	--	Dry	9.40	--
	mg/L	01/09/08	--	--	--	Dry	10.36	--

Notes:

mg/L = milligrams per liter
ug/L = micrograms per liter
J = Estimated value
B = Blank-qualified data
S.U. = Standard Units
NTU = Nephelometric Turbidity Units
ND = Not detected at the stated reporting limit
uS/cm= microsiemens per cubic centimeter
mV = Millivolts
R = Anamalous data
-- = no data
Blanks = field, trip and method blanks
Shaded = Concentrations above the Surface Water Standards have been shaded.
SW Standards= NC Freshwater Aquatic Life Standards as defined in 15A NCAC 2B
SWS Reporting Limit = NCPQL prior to 2007 and NCSWSL starting in 01/25/07

The original 7/26/07 mercury hit in SW-4 appears to be anomalous, therefore the sample was re-prepped and re-analyzed for confirmation. The re-prep of these samples occurred outside the EPA's recommended hold time. Therefore, both sets of results are provided in the table above.

* Surface Water Standard is an Action Level Standard

APPENDIX I

GROUNDWATER AND SURFACE WATER SAMPLING LOGS

Golder Associates

DATE: *1/8-9/2008*

GROUNDWATER SAMPLING LOG

Project Name: *JMN/ Cleveland Container LF* **Project No./Phase No.:** *063-6569008.100*
Well ID: *MW-1B* **Sampler(s):** *K. Higgs / R. Stringfellow*
Well Diameter: *2* **inches** **Init. Depth to Water:** *52.88* **feet**
Depth to Bottom: *63.59* **feet** **Total water Column:** *10.71* **feet**
Purge Volume: *1.75* **gallons** **3 x Purge Volume:** *5.25* **gallons**
Well Location: *Over the landfill next to access road.*
Equipment: *Horiba water quality meter, disposable bailer, WL indicator*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (oC)	Vol. (gallons)
13:44	7.89	0.094	271.0	17.71	0
13:57	7.16	0.117	>1000	17.48	1.75
14:12	6.51	0.124	>1000	17.57	3.50
14:27	6.14	0.121	>1000	17.38	5.25
Sampled on 1/9/08 @ 8:40					
8:49	5.70	0.162	106	17.16	--

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Weather 1/8: Mean temp 56F,avg. humidity 94%, no precip, pressure 30.31 in., max wind 9 mph, overcast
Weather 1/9: Mean temp 55F, avg. humidity 78%, no precip, pressure 30.07 in., max wind 17 mph, overcast

Signature: **Date:** 1/9/2008
QA/QC Sign Off: **Date:** 2/4/08

Golder Associates

DATE: *1/8-9/2008*

GROUNDWATER SAMPLING LOG

Project Name: *JMN/ Cleveland Container LF* **Project No./Phase No.:** *063-6569008.100*
Well ID: *MW-1C* **Sampler(s):** *K. Higgs / R. Stringfellow*
Well Diameter: *2* **inches** **Init. Depth to Water:** *50.58* **feet**
Depth to Bottom: *79.26* **feet** **Total water Column:** *28.68* **feet**
Purge Volume: *4.7* **gallons** **3 x Purge Volume:** *14.1* **gallons**
Well Location: *Over the landfill next to access road.*
Equipment: *Horiba water quality meter, disposable bailer, WL indicator*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (oC)	Vol. (gallons)
13:48	7.20	0.300	228.0	17.71	0
13:59	6.78	0.318	476.0	17.33	1.75
14:13	6.33	0.317	854.0	17.19	3.50
14:28	6.00	0.319	544.0	17.26	5.25
Sampled on 1/9/08 @ 8:53					
8:55	5.91	0.323	8.76	17.16	--

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Water was foaming
Weather 1/8: Mean temp 56F,avg. humidity 94%, no precip, pressure 30.31 in., max wind 9 mph, overcast
Weather 1/9: Mean temp 55F, avg. humidity 78%, no precip, pressure 30.07 in., max wind 17 mph, overcast

Signature: [signature] **Date:** 1/9/2008
QA/QC Sign Off: [signature] **Date:** 2/4/08

Golder Associates

DATE: *1/8-9/2008*

GROUNDWATER SAMPLING LOG

Project Name: *JMN/ Cleveland Container LF* **Project No./Phase No.:** *063-6569008.100*
Well ID: *MW-4* **Sampler(s):** *K. Higgs / R. Stringfellow*
Well Diameter: *2* **inches** **Init. Depth to Water:** *9.01* **feet**
Depth to Bottom: *17.64* **feet** **Total water Column:** *8.63* **feet**
Purge Volume: *1.40* **gallons** **3 x Purge Volume:** *4.2* **gallons**
Well Location: *Around backside of LF next to access road.*
Equipment: *Horiba water quality meter, disposable bailer, WL indicator*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (oC)	Vol. (gallons)
14:52	6.44	0.162	600.0	16.13	0.0
14:55	6.15	0.292	>1000	16.62	1.4
14:58	6.08	0.289	>1000	16.33	2.8
15:00	6.20	0.257	>1000	16.58	4.2
Sampled on 1/9/08 @ 9:56					
10:01	6.07	0.159	58.4	17.40	--

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Weather 1/8: Mean temp 56F,avg. humidity 94%, no precip, pressure 30.31 in., max wind 9 mph, overcast
Weather 1/9: Mean temp 55F, avg. humidity 78%, no precip, pressure 30.07 in., max wind 17 mph, overcast

Signature: **Date:** 1/9/2008
QA/QC Sign Off: **Date:** 2/4/08

Golder Associates

DATE: *1/8-9/2008*

GROUNDWATER SAMPLING LOG

Project Name: *JMN/ Cleveland Container LF* **Project No./Phase No.:** *063-6569008.100*
Well ID: *MW-5* **Sampler(s):** *K. Higgs / R. Stringfellow*
Well Diameter: *2* **inches** **Init. Depth to Water:** *18.98* **feet**
Depth to Bottom: *25.93* **feet** **Total water Column:** *6.95* **feet**
Purge Volume: *1.2* **gallons** **3 x Purge Volume:** *3.6* **gallons**
Well Location: *Around backside next to access road.*
Equipment: *Horiba water quality meter, disposable bailer, WL indicator*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (oC)	Vol. (gallons)
15:10	6.11	0.487	257.0	18.08	0.0
15:12	5.83	0.490	>1000	18.25	1.2
15:15	5.81	0.475	>1000	18.15	2.4
15:21	6.02	0.470	>1000	18.26	3.6
Sampled on 1/9/2008 @ 10:17					
10:31	5.73	0.485	6.16	19.46	--

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Weather 1/8: Mean temp 56F,avg. humidity 94%, no precip, pressure 30.31 in., max wind 9 mph, overcast
Weather 1/9: Mean temp 55F, avg. humidity 78%, no precip, pressure 30.07 in., max wind 17 mph, overcast

Signature: [signature] **Date:** 1/9/2008
QA/QC Sign Off: [signature] **Date:** 2/4/08

Golder Associates

DATE: *1/8-9/2008*

GROUNDWATER SAMPLING LOG

Project Name: *JMN/ Cleveland Container LF* **Project No./Phase No.:** *063-6569008.100*
Well ID: *MW-6A* **Sampler(s):** *K. Higgs / R. Stringfellow*
Well Diameter: *2* **inches** **Init. Depth to Water:** *31.96* **feet**
Depth to Bottom: *40.7* **feet** **Total water Column:** *8.74* **feet**
Purge Volume: *1.42* **gallons** **3 x Purge Volume:** *4.2* **gallons**
Well Location: *To the left of access road on the way to backside.*
Equipment: *Horiba water quality meter, disposable bailer, WL indicator*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (oC)	Vol. (gallons)
15:35	6.06	0.597	493.0	18.06	0.0
15:38	6.00	0.567	250.0	18.20	1.4
15:41	6.45	0.512	209.0	17.79	2.8
15:45	*DRY @ 3.25 gal*				
Sampled on 1/9/2008 @ 11:21					
11:30	6.40	0.507	1.15	18.83	--

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Weather 1/8: Mean temp 56F,avg. humidity 94%, no precip, pressure 30.31 in., max wind 9 mph, overcast
Weather 1/9: Mean temp 55F, avg. humidity 78%, no precip, pressure 30.07 in., max wind 17 mph, overcast

Signature: *Ryan Stringfellow* **Date:** *1/9/2008*
QA/QC Sign Off: *[illegible]* **Date:** *2/4/08*

DATE: *1/8-9/2008*

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *JMN/ Cleveland Container LF* **Project No./Phase No.:** *063-6569008.100*
Well ID: *MW-7A* **Sampler(s):** *K. Higgs / R. Stringfellow*
Well Diameter: *2* **inches** **Init. Depth to Water:** *36.39* **feet**
Depth to Bottom: *42.18* **feet** **Total water Column:** *5.79* **feet**
Purge Volume: *1.0* **gallons** **3 x Purge Volume:** *3.0* **gallons**
Well Location: *Next to access road.*
Equipment: *Horiba water quality meter, disposable bailer, WL indicator*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (oC)	Vol. (gallons)
16:00	5.23	0.254	>1000	17.36	0.0
16:03	5.30	0.243	723.0	17.02	1.0
16:05	5.20	0.236	721.0	16.98	2.0
16:09	5.44	0.246	>1000	16.91	3.0
Sampled on 1/9/2008 @ 11:47					
11:56	6.46	0.257	2.32	18.40	--

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Weather 1/8: Mean temp 56F,avg. humidity 94%, no precip, pressure 30.31 in., max wind 9 mph, overcast
Weather 1/9: Mean temp 55F, avg. humidity 78%, no precip, pressure 30.07 in., max wind 17 mph, overcast

Signature: [signature] **Date:** 1/9/2008
QA/QC Sign Off: [signature] **Date:** 2/4/08

DATE: *1/8-9/2008*

Golder Associates

GROUNDWATER SAMPLING LOG

Project Name: *JMN/ Cleveland Container LF* **Project No./Phase No.:** *063-6569008.100*
Well ID: *MW-8* **Sampler(s):** *K. Higgs / R. Stringfellow*
Well Diameter: *2* **inches** **Init. Depth to Water:** *49.64* **feet**
Depth to Bottom: *55.4* **feet** **Total water Column:** *5.76* **feet**
Purge Volume: *1.0* **gallons** **3 x Purge Volume:** *3.0* **gallons**
Well Location: *Next to the road outside of landfill.*
Equipment: *Horiba water quality meter, disposable bailer, WL indicator*

Time	pH (S.U.)	Cond. (mS/cm)	Turb. (NTU)	Temp. (oC)	Vol. (gallons)
16:25	5.60	0.082	152.0	17.51	0.0
16:27	5.40	0.077	285.0	17.43	1.0
16:36	5.52	0.062	293.0	17.28	2.0
16:38	*DRY @ 2.1 gal*				
Sampled on 1/9/2008 @ 12:08					
12:18	5.59	0.088	6.69	19.29	--

Comments (weather conditions, color, type of sample, purge-water management, etc.):
Weather 1/8: Mean temp 56F,avg. humidity 94%, no precip, pressure 30.31 in., max wind 9 mph, overcast
Weather 1/9: Mean temp 55F, avg. humidity 78%, no precip, pressure 30.07 in., max wind 17 mph, overcast

Signature: *Rge* **Date:** *1/9/2008*
QA/QC Sign Off: **Date:** *2/4/08*

DATE: *01/09/08*

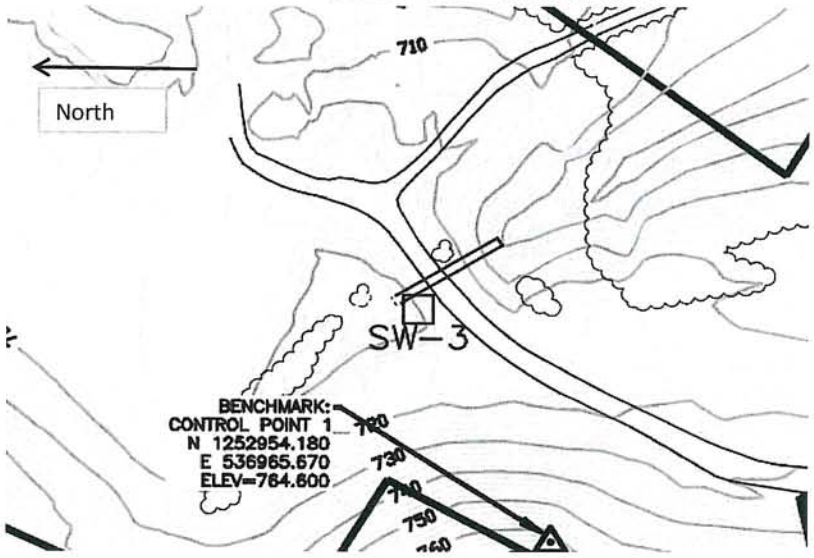
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: *JMN/Cleveland Container LF* **Project No./Phase No.:** *063-6569008.100*
Sample ID: *SW-3* **Sampler(s):** *K. Higgs / R. Stringfellow*
Sampling Location: *Drainage off access road on backside.*
Equipment: *Horiba water quality meter*

Time	9:35
pH s.u.	dry
Cond. mS/cm	dry
Turb. ntu	dry
Dis. O2 mg/L	dry
Temp. oC	dry
ORP mv	dry

Surface Water Location Sketch



Comments (sample methodology, weather conditions, color, silt, etc.):
DRY, no sample

Weather 1/9: Mean temp 55F, avg. humidity 78%, no precip, pressure 30.07 in., max wind 17 mph, overcast

Signature: Ryan [signature] **Date:** 1/9/2008
QA/QC Sign Off: [signature] **Date:** 2/4/08

DATE: *01/09/08*

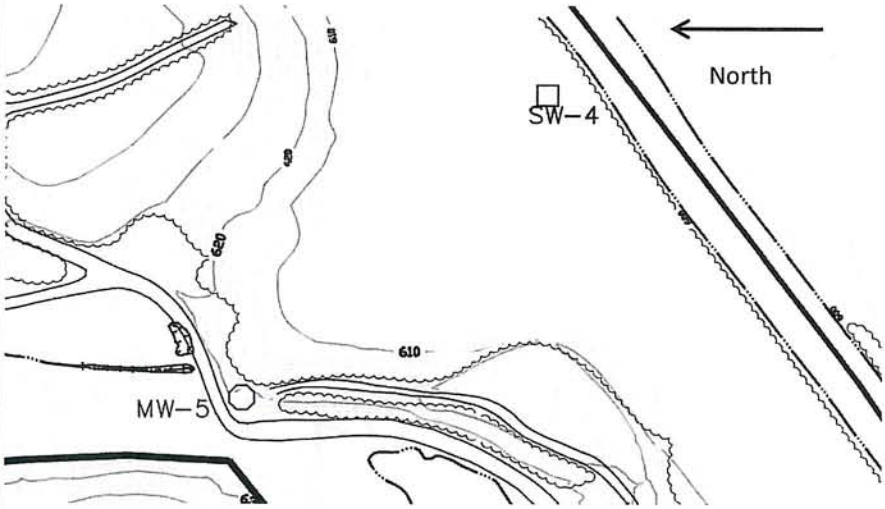
Golder Associates

SURFACE WATER SAMPLING LOG

Project Name: *JMN/Cleveland Container LF* **Project No./Phase No.:** *063-6569008.100*
Sample ID: *SW-4* **Sampler(s):** *B. Draper/ K. Higgs*
Sampling Location: *Sampled at Buffalo Creek*
Equipment: *Horiba water quality meter*

Time	10:50
pH s.u.	6.31
Cond. mS/cm	0.275
Turb. ntu	116
Dis. O2 mg/L	10.36
Temp. oC	11.82
ORP mv	151

Surface Water Location Sketch



Comments (sample methodology, weather conditions, color, silt, etc.):

Weather 1/9: Mean temp 55F, avg. humidity 78%, no precip, pressure 30.07 in., max wind 17 mph, overcast

Signature: Ryan [illegible] **Date:** 1/9/2008
QA/QC Sign Off: [illegible] **Date:** 2/4/08

Golder Associates

WELL CONDITION SUMMARY

DATE: 1-8/9/2008

Project Name: JMN/Cleveland Container LF
Personnel: K. Higgs / R. Stringfellow

Project No./Task No. 063-6569007.100
Page 1 of 1

Well ID	Protective Casing	Well Casing	Label	Lock	Pad Condition	Depth of Well (Feet)	General Turbudity	Comments/ Observations*
MW-1B	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged	64'	☐ Clear ☑ Turbid	
MW-1C	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged	79'	☑ Clear ☐ Turbid	
MW-4	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged	18'	☑ Clear ☐ Turbid	
MW-5	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged	26'	☑ Clear ☐ Turbid	
MW-6A	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged	41'	☑ Clear ☐ Turbid	
MW-7A	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged	42'	☑ Clear ☐ Turbid	
MW-8	☑ OK ☐ Damaged	☑ OK ☐ Damaged	☑ OK ☐ Inadequate	☑ Yes ☐ No	☑ OK ☐ Damaged	55'	☑ Clear ☐ Turbid	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged		☐ Clear ☐ Turbid	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged		☐ Clear ☐ Turbid	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged		☐ Clear ☐ Turbid	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged		☐ Clear ☐ Turbid	
	☐ OK ☐ Damaged	☐ OK ☐ Damaged	☐ OK ☐ Inadequate	☐ Yes ☐ No	☐ OK ☐ Damaged		☐ Clear ☐ Turbid	

* Note ponding water, weep holes, condition of surrounding area, including any disturbance of the ground since last inspection, evidence of contamination.

Signature: [signature] Date: 1-9-2008

APPENDIX II

JANUARY 2008 CERTIFICATES-OF-ANALYSIS, CHAIN-OF-CUSTODY FORMS AND LABORATORY DATA REVIEWS

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

www.encolabs.com

Thursday, January 24, 2008

Golder Associates, Inc. (GO007)

Attn: Dusty Reedy

The Wingate Building 4900 Koger Blvd., Suite 140

Greensboro, NC 27407

RECEIVED JAN 2 3 2008

RE: Laboratory Results for
Project Number: 0636569008.100, Project Name/Desc: Republic - JMN/Cleveland Contain
ENCO Workorder: C717616

Dear Dusty Reedy,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, January 10, 2008.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Stephanie Franz

Stephanie Franz
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 37.

PROJECT NARRATIVE

Date: 24 January 2008
Client: Golder Associates
Project: Republic-JMN/Cleveland Container
Lab ID: C717616

Overview

All samples submitted were analyzed by Environmental Conservation Laboratories, Inc. in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by Environmental Conservation Laboratories, Inc. will be discussed in the QC Remarks section below.

Quality Control Samples

No comments

Quality Control Remarks

No comments

Other Comments

All samples received under this work order arrived in acceptable conditions. The samples were not checked for residual chlorine, as it is not required.

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative.

Released By:
Environmental Conservation Laboratories, Inc.

Stephanie Franz
Project Manager

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 2302-MW1B **Lab ID: C717616-01** **Sampled: 01/09/08 08:40** **Received: 01/10/08 10:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/07/08	01/11/08 07:41	1/21/2008 15:46
EPA 7470A	02/06/08	01/21/08 08:18	1/22/2008 11:41
EPA 8260B	01/23/08	01/14/08 15:09	1/15/2008 16:39

Client ID: 2302-MW1C **Lab ID: C717616-02** **Sampled: 01/09/08 08:53** **Received: 01/10/08 10:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/07/08	01/11/08 07:41	1/21/2008 16:10
EPA 7470A	02/06/08	01/21/08 08:18	1/22/2008 11:44
EPA 8260B	01/23/08	01/14/08 15:09	1/15/2008 17:08

Client ID: 2302-MW4 **Lab ID: C717616-03** **Sampled: 01/09/08 09:56** **Received: 01/10/08 10:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/07/08	01/11/08 07:41	1/21/2008 16:17
EPA 7470A	02/06/08	01/21/08 08:18	1/22/2008 11:47
EPA 8260B	01/23/08	01/14/08 15:09	1/15/2008 17:37

Client ID: 2302-MW5 MS/MSD **Lab ID: C717616-04** **Sampled: 01/09/08 10:17** **Received: 01/10/08 10:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/07/08	01/11/08 07:41	1/21/2008 15:14
EPA 7470A	02/06/08	01/21/08 08:18	1/22/2008 11:26
EPA 8260B	01/23/08	01/14/08 15:09	1/15/2008 12:46

Client ID: 2302-MW6A **Lab ID: C717616-05** **Sampled: 01/09/08 11:21** **Received: 01/10/08 10:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/07/08	01/11/08 07:41	1/21/2008 16:24
EPA 7470A	02/06/08	01/21/08 08:18	1/22/2008 11:49
EPA 8260B	01/23/08	01/14/08 15:09	1/15/2008 18:06

Client ID: 2302-MW7A **Lab ID: C717616-06** **Sampled: 01/09/08 11:47** **Received: 01/10/08 10:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010B	07/07/08	01/11/08 07:41	1/21/2008 16:31
EPA 7470A	02/06/08	01/21/08 08:18	1/22/2008 11:52
EPA 8260B	01/23/08	01/14/08 15:09	1/15/2008 18:35

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Client ID: 2302-MW8	Lab ID: C717616-07	Sampled: 01/09/08 12:08	Received: 01/10/08 10:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 6010B	07/07/08	01/11/08 07:41	1/21/2008 16:38
EPA 7470A	02/06/08	01/21/08 08:18	1/22/2008 12:01
EPA 8260B	01/23/08	01/14/08 15:09	1/15/2008 19:04

Client ID: 2302-Field Blank	Lab ID: C717616-08	Sampled: 01/09/08 12:24	Received: 01/10/08 10:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 6010B	07/07/08	01/11/08 07:41	1/21/2008 16:45
EPA 7470A	02/06/08	01/21/08 08:18	1/22/2008 12:04
EPA 8260B	01/23/08	01/14/08 15:09	1/15/2008 19:33

Client ID: 2302-Trip Blank	Lab ID: C717616-09	Sampled: 01/09/08 00:00	Received: 01/10/08 10:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 8260B	01/23/08	01/14/08 15:09	1/15/2008 16:10

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 2302-MW1B — **Lab ID: C717616-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	53.6	J	1	0.20	10.0	100	ug/L	EPA 6010B	
Chromium	15.4		1	2.0	10.0	10	ug/L	EPA 6010B	

Client ID: 2302-MW1C — **Lab ID: C717616-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	27.6	J	1	0.20	10.0	100	ug/L	EPA 6010B	

Client ID: 2302-MW4 — **Lab ID: C717616-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic	2.7	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	51.0	J	1	0.20	10.0	100	ug/L	EPA 6010B	
cis-1,2-Dichloroethene	0.76	J	1	0.14	1.0	5	ug/L	EPA 8260B	

Client ID: 2302-MW5 MS/MSD — **Lab ID: C717616-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,2-Dichlorobenzene	18		1	0.17	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene	2.3		1	0.15	1.0	1	ug/L	EPA 8260B	
Barium	269		1	0.20	10.0	100	ug/L	EPA 6010B	
Benzene	0.97	J	1	0.12	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	6.9		1	0.16	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	1.3	J	1	0.14	1.0	5	ug/L	EPA 8260B	

Client ID: 2302-MW6A — **Lab ID: C717616-05**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	44.8	J	1	0.20	10.0	100	ug/L	EPA 6010B	
Chlorobenzene	0.63	J	1	0.16	1.0	3	ug/L	EPA 8260B	

Client ID: 2302-MW7A — **Lab ID: C717616-06**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,4-Dichlorobenzene	0.63	J	1	0.15	1.0	1	ug/L	EPA 8260B	
Arsenic	3.0	J	1	2.0	10.0	10	ug/L	EPA 6010B	
Barium	126		1	0.20	10.0	100	ug/L	EPA 6010B	
Benzene	1.8		1	0.12	1.0	1	ug/L	EPA 8260B	
Chlorobenzene	2.2	J	1	0.16	1.0	3	ug/L	EPA 8260B	
cis-1,2-Dichloroethene	2.9	J	1	0.14	1.0	5	ug/L	EPA 8260B	
Mercury	0.86		1	0.11	0.20	0.2	ug/L	EPA 7470A	

Client ID: 2302-MW8 — **Lab ID: C717616-07**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium	63.4	J	1	0.20	10.0	100	ug/L	EPA 6010B	

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ANALYTICAL RESULTS

Description: 2302-MW1B
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-01
Sampled: 01/09/08 08:40
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/15/08 16:39	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/15/08 16:39	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/15/08 16:39	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/15/08 16:39	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/15/08 16:39	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/15/08 16:39	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/15/08 16:39	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/15/08 16:39	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/15/08 16:39	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/15/08 16:39	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/15/08 16:39	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/15/08 16:39	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 16:39	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/15/08 16:39	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/15/08 16:39	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/15/08 16:39	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/15/08 16:39	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/15/08 16:39	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/15/08 16:39	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/15/08 16:39	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	01/15/08 16:39	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/15/08 16:39	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/15/08 16:39	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/15/08 16:39	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/15/08 16:39	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/15/08 16:39	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/15/08 16:39	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/15/08 16:39	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/15/08 16:39	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/15/08 16:39	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	01/15/08 16:39	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/15/08 16:39	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/15/08 16:39	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/15/08 16:39	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/15/08 16:39	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	1.0	1	EPA 8260B	01/15/08 16:39	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/15/08 16:39	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/15/08 16:39	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 16:39	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/15/08 16:39	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	01/15/08 16:39	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/15/08 16:39	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/15/08 16:39	jkg	

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Description: 2302-MW1B
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-01
Sampled: 01/09/08 08:40
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/15/08 16:39	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/15/08 16:39	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 16:39	jkg	
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/15/08 16:39	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*69-120*	*8A14030*	*EPA 8260B*	*01/15/08 16:39*	*jkg*	
Dibromofluoromethane	*47*	*1*	*50.0*	*93 %*	*61-120*	*8A14030*	*EPA 8260B*	*01/15/08 16:39*	*jkg*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*75-99*	*8A14030*	*EPA 8260B*	*01/15/08 16:39*	*jkg*	

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Description: 2302-MW1B
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-01
Sampled: 01/09/08 08:40
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 15:46	VLO	
Barium [7440-39-3] *	**53.6**	J	ug/L	1	0.20	10.0	100	EPA 6010B	01/21/08 15:46	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	01/21/08 15:46	VLO	
Chromium [7440-47-3] *	**15.4**		ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 15:46	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 15:46	VLO	
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	01/22/08 11:41	MPL	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 15:46	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 15:46	VLO	

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Description: 2302-MW1C
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-02
Sampled: 01/09/08 08:53
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/15/08 17:08	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/15/08 17:08	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/15/08 17:08	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/15/08 17:08	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/15/08 17:08	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/15/08 17:08	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/15/08 17:08	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/15/08 17:08	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/15/08 17:08	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/15/08 17:08	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/15/08 17:08	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/15/08 17:08	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 17:08	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/15/08 17:08	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/15/08 17:08	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/15/08 17:08	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/15/08 17:08	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/15/08 17:08	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/15/08 17:08	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/15/08 17:08	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	01/15/08 17:08	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/15/08 17:08	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/15/08 17:08	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/15/08 17:08	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/15/08 17:08	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/15/08 17:08	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/15/08 17:08	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/15/08 17:08	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/15/08 17:08	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/15/08 17:08	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	01/15/08 17:08	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/15/08 17:08	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/15/08 17:08	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/15/08 17:08	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/15/08 17:08	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	1.0	1	EPA 8260B	01/15/08 17:08	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/15/08 17:08	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/15/08 17:08	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 17:08	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/15/08 17:08	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	01/15/08 17:08	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/15/08 17:08	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/15/08 17:08	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/15/08 17:08	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/15/08 17:08	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 17:08	jkg	

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Description: 2302-MW1C
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-02
Sampled: 01/09/08 08:53
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/15/08 17:08	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	**Notes**
4-Bromofluorobenzene	*45*	*1*	*50.0*	*91 %*	*69-120*	*8A14030*	*EPA 8260B*	*01/15/08 17:08*	*jkg*	
Dibromofluoromethane	*47*	*1*	*50.0*	*94 %*	*61-120*	*8A14030*	*EPA 8260B*	*01/15/08 17:08*	*jkg*	
Toluene-d8	*42*	*1*	*50.0*	*85 %*	*75-99*	*8A14030*	*EPA 8260B*	*01/15/08 17:08*	*jkg*	

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Description: 2302-MW1C
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-02
Sampled: 01/09/08 08:53
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:10	VLO	
Barium [7440-39-3] *	**27.6**	J	ug/L	1	0.20	10.0	100	EPA 6010B	01/21/08 16:10	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	01/21/08 16:10	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:10	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:10	VLO	
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	01/22/08 11:44	MPL	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:10	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:10	VLO	

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Description: 2302-MW4
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-03
Sampled: 01/09/08 09:56
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/15/08 17:37	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/15/08 17:37	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/15/08 17:37	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/15/08 17:37	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/15/08 17:37	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/15/08 17:37	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/15/08 17:37	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/15/08 17:37	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/15/08 17:37	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/15/08 17:37	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/15/08 17:37	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/15/08 17:37	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 17:37	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/15/08 17:37	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/15/08 17:37	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/15/08 17:37	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/15/08 17:37	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/15/08 17:37	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/15/08 17:37	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/15/08 17:37	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	01/15/08 17:37	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/15/08 17:37	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/15/08 17:37	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/15/08 17:37	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/15/08 17:37	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/15/08 17:37	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/15/08 17:37	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/15/08 17:37	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/15/08 17:37	jkg	
cis-1,2-Dichloroethene [156-59-2] *	**0.76**	J	ug/L	1	0.14	1.0	5	EPA 8260B	01/15/08 17:37	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	01/15/08 17:37	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/15/08 17:37	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/15/08 17:37	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/15/08 17:37	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/15/08 17:37	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	1.0	1	EPA 8260B	01/15/08 17:37	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/15/08 17:37	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/15/08 17:37	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 17:37	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/15/08 17:37	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	01/15/08 17:37	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/15/08 17:37	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/15/08 17:37	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/15/08 17:37	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/15/08 17:37	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 17:37	jkg	

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Description: 2302-MW4
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-03
Sampled: 01/09/08 09:56
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/15/08 17:37	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*69-120*	*8A14030*	*EPA 8260B*	*01/15/08 17:37*	*jkg*	
Dibromofluoromethane	*49*	*1*	*50.0*	*97 %*	*61-120*	*8A14030*	*EPA 8260B*	*01/15/08 17:37*	*jkg*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*75-99*	*8A14030*	*EPA 8260B*	*01/15/08 17:37*	*jkg*	

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Description: 2302-MW4
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-03
Sampled: 01/09/08 09:56
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	**2.7**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:17	VLO	
Barium [7440-39-3] *	**51.0**	J	ug/L	1	0.20	10.0	100	EPA 6010B	01/21/08 16:17	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	01/21/08 16:17	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:17	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:17	VLO	
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	01/22/08 11:47	MPL	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:17	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:17	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 2302-MW5 MS/MSD
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-04
Sampled: 01/09/08 10:17
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/15/08 12:46	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/15/08 12:46	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/15/08 12:46	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/15/08 12:46	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/15/08 12:46	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/15/08 12:46	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/15/08 12:46	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/15/08 12:46	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/15/08 12:46	jkg	
1,2-Dichlorobenzene [95-50-1] *	**18**		ug/L	1	0.17	1.0	5	EPA 8260B	01/15/08 12:46	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/15/08 12:46	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/15/08 12:46	jkg	
1,4-Dichlorobenzene [106-46-7] *	**2.3**		ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 12:46	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/15/08 12:46	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/15/08 12:46	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/15/08 12:46	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/15/08 12:46	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/15/08 12:46	jkg	
Benzene [71-43-2] *	**0.97**	J	ug/L	1	0.12	1.0	1	EPA 8260B	01/15/08 12:46	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/15/08 12:46	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	01/15/08 12:46	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/15/08 12:46	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/15/08 12:46	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/15/08 12:46	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/15/08 12:46	jkg	
Chlorobenzene [108-90-7] *	**6.9**		ug/L	1	0.16	1.0	3	EPA 8260B	01/15/08 12:46	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/15/08 12:46	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/15/08 12:46	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/15/08 12:46	jkg	
cis-1,2-Dichloroethene [156-59-2] *	**1.3**	J	ug/L	1	0.14	1.0	5	EPA 8260B	01/15/08 12:46	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	01/15/08 12:46	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/15/08 12:46	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/15/08 12:46	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/15/08 12:46	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/15/08 12:46	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	1.0	1	EPA 8260B	01/15/08 12:46	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/15/08 12:46	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/15/08 12:46	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 12:46	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/15/08 12:46	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	01/15/08 12:46	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/15/08 12:46	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/15/08 12:46	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/15/08 12:46	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/15/08 12:46	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 12:46	jkg	

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Description: 2302-MW5 MS/MSD
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-04
Sampled: 01/09/08 10:17
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/15/08 12:46	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*69-120*	*8A14030*	*EPA 8260B*	*01/15/08 12:46*	*jkg*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*61-120*	*8A14030*	*EPA 8260B*	*01/15/08 12:46*	*jkg*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*75-99*	*8A14030*	*EPA 8260B*	*01/15/08 12:46*	*jkg*	

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Description: 2302-MW5 MS/MSD
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-04
Sampled: 01/09/08 10:17
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 15:14	VLO	
Barium [7440-39-3] *	**269**		ug/L	1	0.20	10.0	100	EPA 6010B	01/21/08 15:14	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	01/21/08 15:14	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 15:14	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 15:14	VLO	
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	01/22/08 11:26	MPL	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 15:14	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 15:14	VLO	

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Description: 2302-MW6A
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-05
Sampled: 01/09/08 11:21
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/15/08 18:06	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/15/08 18:06	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/15/08 18:06	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/15/08 18:06	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/15/08 18:06	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/15/08 18:06	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/15/08 18:06	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/15/08 18:06	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/15/08 18:06	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/15/08 18:06	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/15/08 18:06	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/15/08 18:06	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 18:06	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/15/08 18:06	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/15/08 18:06	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/15/08 18:06	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/15/08 18:06	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/15/08 18:06	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/15/08 18:06	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/15/08 18:06	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	01/15/08 18:06	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/15/08 18:06	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/15/08 18:06	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/15/08 18:06	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/15/08 18:06	jkg	
Chlorobenzene [108-90-7] *	**0.63**	J	ug/L	1	0.16	1.0	3	EPA 8260B	01/15/08 18:06	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/15/08 18:06	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/15/08 18:06	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/15/08 18:06	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/15/08 18:06	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	01/15/08 18:06	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/15/08 18:06	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/15/08 18:06	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/15/08 18:06	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/15/08 18:06	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	1.0	1	EPA 8260B	01/15/08 18:06	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/15/08 18:06	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/15/08 18:06	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 18:06	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/15/08 18:06	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	01/15/08 18:06	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/15/08 18:06	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/15/08 18:06	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/15/08 18:06	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/15/08 18:06	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 18:06	jkg	

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Description: 2302-MW6A
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-05
Sampled: 01/09/08 11:21
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/15/08 18:06	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*91 %*	*69-120*	*8A14030*	*EPA 8260B*	*01/15/08 18:06*	*jkg*	
Dibromofluoromethane	*48*	*1*	*50.0*	*97 %*	*61-120*	*8A14030*	*EPA 8260B*	*01/15/08 18:06*	*jkg*	
Toluene-d8	*42*	*1*	*50.0*	*83 %*	*75-99*	*8A14030*	*EPA 8260B*	*01/15/08 18:06*	*jkg*	

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Description: 2302-MW6A
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-05
Sampled: 01/09/08 11:21
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:24	VLO	
Barium [7440-39-3] *	**44.8**	J	ug/L	1	0.20	10.0	100	EPA 6010B	01/21/08 16:24	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	01/21/08 16:24	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:24	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:24	VLO	
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	01/22/08 11:49	MPL	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:24	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:24	VLO	

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Description: 2302-MW7A
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-06
Sampled: 01/09/08 11:47
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/15/08 18:35	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/15/08 18:35	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/15/08 18:35	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/15/08 18:35	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/15/08 18:35	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/15/08 18:35	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/15/08 18:35	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/15/08 18:35	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/15/08 18:35	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/15/08 18:35	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/15/08 18:35	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/15/08 18:35	jkg	
1,4-Dichlorobenzene [106-46-7] *	**0.63**	J	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 18:35	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/15/08 18:35	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/15/08 18:35	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/15/08 18:35	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/15/08 18:35	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/15/08 18:35	jkg	
Benzene [71-43-2] *	**1.8**		ug/L	1	0.12	1.0	1	EPA 8260B	01/15/08 18:35	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/15/08 18:35	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	01/15/08 18:35	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/15/08 18:35	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/15/08 18:35	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/15/08 18:35	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/15/08 18:35	jkg	
Chlorobenzene [108-90-7] *	**2.2**	J	ug/L	1	0.16	1.0	3	EPA 8260B	01/15/08 18:35	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/15/08 18:35	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/15/08 18:35	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/15/08 18:35	jkg	
cis-1,2-Dichloroethene [156-59-2] *	**2.9**	J	ug/L	1	0.14	1.0	5	EPA 8260B	01/15/08 18:35	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	01/15/08 18:35	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/15/08 18:35	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/15/08 18:35	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/15/08 18:35	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/15/08 18:35	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	1.0	1	EPA 8260B	01/15/08 18:35	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/15/08 18:35	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/15/08 18:35	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 18:35	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/15/08 18:35	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	01/15/08 18:35	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/15/08 18:35	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/15/08 18:35	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/15/08 18:35	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/15/08 18:35	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 18:35	jkg	

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Description: 2302-MW7A
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-06
Sampled: 01/09/08 11:47
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/15/08 18:35	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*91 %*	*69-120*	*8A14030*	*EPA 8260B*	*01/15/08 18:35*	*jkg*	
Dibromofluoromethane	*49*	*1*	*50.0*	*99 %*	*61-120*	*8A14030*	*EPA 8260B*	*01/15/08 18:35*	*jkg*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*75-99*	*8A14030*	*EPA 8260B*	*01/15/08 18:35*	*jkg*	

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Description: 2302-MW7A
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-06
Sampled: 01/09/08 11:47
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	**3.0**	J	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:31	VLO	
Barium [7440-39-3] *	**126**		ug/L	1	0.20	10.0	100	EPA 6010B	01/21/08 16:31	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	01/21/08 16:31	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:31	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:31	VLO	
Mercury [7439-97-6] *	**0.86**		ug/L	1	0.11	0.20	0.2	EPA 7470A	01/22/08 11:52	MPL	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:31	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:31	VLO	

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Description: 2302-MW8
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-07
Sampled: 01/09/08 12:08
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/15/08 19:04	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/15/08 19:04	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/15/08 19:04	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/15/08 19:04	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/15/08 19:04	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/15/08 19:04	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/15/08 19:04	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/15/08 19:04	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/15/08 19:04	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/15/08 19:04	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/15/08 19:04	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/15/08 19:04	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 19:04	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/15/08 19:04	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/15/08 19:04	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/15/08 19:04	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/15/08 19:04	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/15/08 19:04	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/15/08 19:04	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/15/08 19:04	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	01/15/08 19:04	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/15/08 19:04	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/15/08 19:04	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/15/08 19:04	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/15/08 19:04	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/15/08 19:04	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/15/08 19:04	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/15/08 19:04	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/15/08 19:04	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/15/08 19:04	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	01/15/08 19:04	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/15/08 19:04	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/15/08 19:04	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/15/08 19:04	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/15/08 19:04	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	1.0	1	EPA 8260B	01/15/08 19:04	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/15/08 19:04	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/15/08 19:04	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 19:04	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/15/08 19:04	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	01/15/08 19:04	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/15/08 19:04	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/15/08 19:04	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/15/08 19:04	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/15/08 19:04	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 19:04	jkg	

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Description: 2302-MW8
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-07
Sampled: 01/09/08 12:08
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/15/08 19:04	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*69-120*	*8A14030*	*EPA 8260B*	*01/15/08 19:04*	*jkg*	
Dibromofluoromethane	*50*	*1*	*50.0*	*99 %*	*61-120*	*8A14030*	*EPA 8260B*	*01/15/08 19:04*	*jkg*	
Toluene-d8	*42*	*1*	*50.0*	*84 %*	*75-99*	*8A14030*	*EPA 8260B*	*01/15/08 19:04*	*jkg*	

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Description: 2302-MW8
Matrix: Ground Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-07
Sampled: 01/09/08 12:08
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:38	VLO	
Barium [7440-39-3] *	**63.4**	J	ug/L	1	0.20	10.0	100	EPA 6010B	01/21/08 16:38	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	01/21/08 16:38	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:38	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:38	VLO	
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	01/22/08 12:01	MPL	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:38	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:38	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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Description: 2302-Field Blank
Matrix: Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-08
Sampled: 01/09/08 12:24
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/15/08 19:33	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/15/08 19:33	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/15/08 19:33	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/15/08 19:33	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/15/08 19:33	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/15/08 19:33	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/15/08 19:33	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/15/08 19:33	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/15/08 19:33	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/15/08 19:33	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/15/08 19:33	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/15/08 19:33	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 19:33	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/15/08 19:33	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/15/08 19:33	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/15/08 19:33	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/15/08 19:33	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/15/08 19:33	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/15/08 19:33	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/15/08 19:33	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	01/15/08 19:33	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/15/08 19:33	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/15/08 19:33	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/15/08 19:33	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/15/08 19:33	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/15/08 19:33	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/15/08 19:33	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/15/08 19:33	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/15/08 19:33	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/15/08 19:33	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	01/15/08 19:33	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/15/08 19:33	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/15/08 19:33	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/15/08 19:33	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/15/08 19:33	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	1.0	1	EPA 8260B	01/15/08 19:33	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/15/08 19:33	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/15/08 19:33	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 19:33	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/15/08 19:33	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	01/15/08 19:33	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/15/08 19:33	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/15/08 19:33	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/15/08 19:33	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/15/08 19:33	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 19:33	jkg	

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Description: 2302-Field Blank
Matrix: Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-08
Sampled: 01/09/08 12:24
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/15/08 19:33	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*90 %*	*69-120*	*8A14030*	*EPA 8260B*	*01/15/08 19:33*	*jkg*	
Dibromofluoromethane	*49*	*1*	*50.0*	*98 %*	*61-120*	*8A14030*	*EPA 8260B*	*01/15/08 19:33*	*jkg*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*75-99*	*8A14030*	*EPA 8260B*	*01/15/08 19:33*	*jkg*	

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Description: 2302-Field Blank
Matrix: Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-08
Sampled: 01/09/08 12:24
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717616

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:45	VLO	
Barium [7440-39-3] *	0.20	U	ug/L	1	0.20	10.0	100	EPA 6010B	01/21/08 16:45	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	01/21/08 16:45	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:45	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:45	VLO	
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	01/22/08 12:04	MPL	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:45	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 16:45	VLO	

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Description: 2302-Trip Blank
Matrix: Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-09
Sampled: 01/09/08 00:00
Sampled By:

Received: 01/10/08 10:30
Work Order: C717616

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/15/08 16:10	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/15/08 16:10	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/15/08 16:10	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/15/08 16:10	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/15/08 16:10	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/15/08 16:10	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/15/08 16:10	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/15/08 16:10	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/15/08 16:10	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/15/08 16:10	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/15/08 16:10	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/15/08 16:10	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 16:10	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/15/08 16:10	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/15/08 16:10	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/15/08 16:10	jkg	
Acetone [67-64-1] *	0.90	U	ug/L	1	0.90	5.0	100	EPA 8260B	01/15/08 16:10	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/15/08 16:10	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/15/08 16:10	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/15/08 16:10	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	01/15/08 16:10	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/15/08 16:10	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/15/08 16:10	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/15/08 16:10	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/15/08 16:10	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/15/08 16:10	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/15/08 16:10	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/15/08 16:10	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/15/08 16:10	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/15/08 16:10	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	01/15/08 16:10	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/15/08 16:10	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/15/08 16:10	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/15/08 16:10	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/15/08 16:10	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	1.0	1	EPA 8260B	01/15/08 16:10	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/15/08 16:10	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/15/08 16:10	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 16:10	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/15/08 16:10	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	01/15/08 16:10	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/15/08 16:10	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/15/08 16:10	jkg	
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/15/08 16:10	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/15/08 16:10	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/15/08 16:10	jkg	

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Description: 2302-Trip Blank
Matrix: Water
Project: Republic - JMN/Cleveland Container

Lab Sample ID: C717616-09
Sampled: 01/09/08 00:00
Sampled By:

Received: 01/10/08 10:30
Work Order: C717616

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/15/08 16:10	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*93 %*	*69-120*	*8A14030*	*EPA 8260B*	*01/15/08 16:10*	*jkg*	
Dibromofluoromethane	*47*	*1*	*50.0*	*94 %*	*61-120*	*8A14030*	*EPA 8260B*	*01/15/08 16:10*	*jkg*	
Toluene-d8	*42*	*1*	*50.0*	*83 %*	*75-99*	*8A14030*	*EPA 8260B*	*01/15/08 16:10*	*jkg*	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8A14030 - EPA 5030B_MS

Blank (8A14030-BLK1) Prepared: 01/14/2008 15:09 Analyzed: 01/15/2008 10:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	0.18	U	1.0	ug/L							
Vinyl chloride	0.15	U	1.0	ug/L							
Bromomethane	0.21	U	1.0	ug/L							
Chloroethane	0.40	U	1.0	ug/L							
Trichlorofluoromethane	0.16	U	1.0	ug/L							
1,1-Dichloroethene	0.14	U	1.0	ug/L							
Acetone	0.90	U	5.0	ug/L							
Iodomethane	0.23	U	2.0	ug/L							
Carbon disulfide	0.12	U	5.0	ug/L							
Methylene chloride	0.088	U	2.0	ug/L							
Acrylonitrile	2.0	U	5.0	ug/L							
trans-1,2-Dichloroethene	0.10	U	1.0	ug/L							
1,1-Dichloroethane	0.090	U	1.0	ug/L							
Vinyl acetate	0.19	U	2.0	ug/L							
2-Butanone	0.56	U	5.0	ug/L							
cis-1,2-Dichloroethene	0.14	U	1.0	ug/L							
Bromochloromethane	0.19	U	1.0	ug/L							
Chloroform	0.16	U	1.0	ug/L							
1,1,1-Trichloroethane	0.24	U	1.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
1,2-Dichloroethane	0.36	U	1.0	ug/L							
Benzene	0.12	U	1.0	ug/L							
Trichloroethene	0.23	U	1.0	ug/L							
1,2-Dichloropropane	0.18	U	1.0	ug/L							
Dibromomethane	0.14	U	1.0	ug/L							
Bromodichloromethane	0.19	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.16	U	1.0	ug/L							
4-Methyl-2-pentanone	0.36	U	5.0	ug/L							
Toluene	0.15	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.18	U	1.0	ug/L							
1,1,2-Trichloroethane	0.24	U	1.0	ug/L							
Tetrachloroethene	0.25	U	1.0	ug/L							
2-Hexanone	0.24	U	5.0	ug/L							
Dibromochloromethane	0.18	U	1.0	ug/L							
1,2-Dibromoethane	0.19	U	1.0	ug/L							
Chlorobenzene	0.16	U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	0.16	U	1.0	ug/L							
Ethylbenzene	0.17	U	1.0	ug/L							
Styrene	0.12	U	1.0	ug/L							
Bromoform	0.36	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.27	U	1.0	ug/L							
1,2,3-Trichloropropane	0.32	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.60	U	1.0	ug/L							
1,4-Dichlorobenzene	0.15	U	1.0	ug/L							
1,2-Dichlorobenzene	0.17	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.19	U	1.0	ug/L							
Xylenes (Total)	0.21	U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*43*			*ug/L*	*50.0*		*86*	*61-120*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8A14030 - EPA 5030B_MS

Blank (8A14030-BLK1) Continued Prepared: 01/14/2008 15:09 Analyzed: 01/15/2008 10:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*75-99*			
Surrogate: 4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*90*	*69-120*			

LCS (8A14030-BS1) Prepared: 01/14/2008 15:09 Analyzed: 01/15/2008 10:49

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0		95	71-121			
Benzene	20		1.0	ug/L	20.0		102	77-128			
Trichloroethene	17		1.0	ug/L	20.0		86	79-120			
Toluene	18		1.0	ug/L	20.0		91	77-120			
Chlorobenzene	18		1.0	ug/L	20.0		91	78-120			

Matrix Spike (8A14030-MS1) Prepared: 01/14/2008 15:09 Analyzed: 01/15/2008 11:18
Source: C717616-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.14 U	109	71-121			
Benzene	24		1.0	ug/L	20.0	0.97	115	77-128			
Trichloroethene	20		1.0	ug/L	20.0	0.23 U	98	79-120			
Toluene	21		1.0	ug/L	20.0	0.15 U	104	77-120			
Chlorobenzene	28		1.0	ug/L	20.0	6.9	103	78-120			

Matrix Spike Dup (8A14030-MSD1) Prepared: 01/14/2008 15:09 Analyzed: 01/15/2008 11:48
Source: C717616-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.14 U	109	71-121	0	27	
Benzene	25		1.0	ug/L	20.0	0.97	118	77-128	3	27	
Trichloroethene	20		1.0	ug/L	20.0	0.23 U	102	79-120	4	27	
Toluene	22		1.0	ug/L	20.0	0.15 U	108	77-120	4	23	
Chlorobenzene	28		1.0	ug/L	20.0	6.9	103	78-120	0.1	25	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8A11005 - EPA 3005A

Blank (8A11005-BLK1) Prepared: 01/11/2008 07:41 Analyzed: 01/21/2008 14:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.0	U	10.0	ug/L							
Barium	0.20	U	10.0	ug/L							
Cadmium	0.50	U	1.00	ug/L							
Chromium	2.0	U	10.0	ug/L							
Lead	2.0	U	10.0	ug/L							
Selenium	2.0	U	10.0	ug/L							
Silver	2.0	U	10.0	ug/L							

LCS (8A11005-BS1) Prepared: 01/11/2008 07:41 Analyzed: 01/21/2008 15:03

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8A11005 - EPA 3005A

LCS (8A11005-BS1) Continued Prepared: 01/11/2008 07:41 Analyzed: 01/21/2008 15:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	516		10.0	ug/L	500		103	82-117			
Barium	525		10.0	ug/L	500		105	72-125			
Cadmium	261		1.00	ug/L	250		105	72-120			
Chromium	505		10.0	ug/L	500		101	78-119			
Lead	497		10.0	ug/L	500		99	72-121			
Selenium	545		10.0	ug/L	500		109	82-127			
Silver	46.2		10.0	ug/L	50.0		92	80-128			

Matrix Spike (8A11005-MS1) Prepared: 01/11/2008 07:41 Analyzed: 01/21/2008 15:21

Source: C717616-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	521		10.0	ug/L	500	2.0 U	104	64-126			
Barium	805		10.0	ug/L	500	269	107	74-119			
Cadmium	262		1.00	ug/L	250	0.50 U	105	68-121			
Chromium	490		10.0	ug/L	500	2.0 U	98	73-120			
Lead	502		10.0	ug/L	500	2.0 U	100	68-126			
Selenium	552		10.0	ug/L	500	2.0 U	110	65-129			
Silver	45.2		10.0	ug/L	50.0	2.0 U	90	69-121			

Matrix Spike Dup (8A11005-MSD1) Prepared: 01/11/2008 07:41 Analyzed: 01/21/2008 15:28

Source: C717616-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	518		10.0	ug/L	500	2.0 U	104	64-126	0.7	12	
Barium	812		10.0	ug/L	500	269	109	74-119	0.8	11	
Cadmium	258		1.00	ug/L	250	0.50 U	103	68-121	2	12	
Chromium	482		10.0	ug/L	500	2.0 U	96	73-120	2	10	
Lead	496		10.0	ug/L	500	2.0 U	99	68-126	1	19	
Selenium	549		10.0	ug/L	500	2.0 U	110	65-129	0.4	10	
Silver	44.6		10.0	ug/L	50.0	2.0 U	89	69-121	1	12	

Batch 8A21003 - EPA 7470A

Blank (8A21003-BLK1) Prepared: 01/21/2008 08:18 Analyzed: 01/22/2008 11:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (8A21003-BS1) Prepared: 01/21/2008 08:18 Analyzed: 01/22/2008 11:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.76		0.20	ug/L	5.00		95	87-123			

Matrix Spike (8A21003-MS1) Prepared: 01/21/2008 08:18 Analyzed: 01/22/2008 11:29

Source: C717616-04

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8A21003 - EPA 7470A

Matrix Spike (8A21003-MS1) Continued Prepared: 01/21/2008 08:18 Analyzed: 01/22/2008 11:29

Source: C717616-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.34		0.20	ug/L	5.00	0.11 U	87	63-132			

Matrix Spike Dup (8A21003-MSD1) Prepared: 01/21/2008 08:18 Analyzed: 01/22/2008 11:32

Source: C717616-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.28		0.20	ug/L	5.00	0.11 U	86	63-132	2	10	

Post Spike (8A21003-PS1) Prepared: 01/21/2008 08:18 Analyzed: 01/22/2008 11:35

Source: C717616-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.06		0.20	ug/L	5.00	-0.14	84	0-200			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
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1015 Passport Way
Cary, NC 27513
(919) 677-1669 Fax (919) 677-9846

Page 1 of 1

Client Name: Golder Associates, Inc. (GO007)	Project Number: 0636569008.100
Address: The Wingate Building 4800 Koger Blvd., Suite 140	Project Name/Desc: Republic - JMN/Cleveland Container
City/ST/Zip: Greensboro, NC 27407	PO # / Billing Info:
Tel: (336) 852-4903 Fax: (336) 852-4904	Reporting Contact: Dusty Reedy
Sampler(s) Name, Affiliation (Print): K. Higgs / R. Stringfellow	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Analyses: 8260B Appendix 1; Ag, As, Ba, Cd, Cr, Hg, Pb, Se

Requested Turnaround Times
Note: Rush requests subject to acceptance by the facility
✓ Standard
__ Expedited
Due __/__/__

Lab Workorder: C717616

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag, As, Ba, Cd, Cr, Hg, Pb, Se									Sample Comments
	2302-MW1B	1-9-08	8:40	G	Water	4	X	X									NC App I (VOCs) & 8 RCRA Metals
	2302-MW1C	1-9-08	8:53	G	Water	4	X	X									
	2302-MW4	1-9-08	9:56	G	Water	4	X	X									
	2302-MW5 MS/MSD	1-9-08	10:17	G	Water	7	X	X									
	2302-MW6A	1-9-08	11:21	G	Water	4	X	X									
	2302-MW7A	1-9-08	11:47	G	Water	4	X	X									
	2302-MW8	1-9-08	12:08	G	Water	4	X	X									
	2302-Field Blank	1-9-08	12:24	G	Water	4	X	X									
	2302 Trip Blank	—	—	G	Water	2	X										NC App I (VOCs Only)

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
DSW JWL	12/20/07	[signature]	1-9-08/16:30	[signature]	1/10/08 1030
Comments: (1) Please Provide a "Level 2" data report (2) Unit rates per "Basic Ordering Agreement for Laboratory Services" dated April, 2004 & 2006 ENCO MSF Price list (3) Need 7-10 day TAT without surcharge (4) Estimated Fee = $1,120 (June/July rates)		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-313 2.6°C		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: None H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

LOA per Kyle Higgs: [signature] Approved by: [signature]

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ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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(919) 677-1669 Fax (919) 677-9846

Client Name: Golder Associates, Inc. (GO007)	Project Number: 0636569008.100
Address: The Wingate Building 4900 Koger Blvd., Suite 140	Project Name/Desc: Republic - JMN/Cleveland Container
City/ST/Zip: Greensboro, NC 27407	PO # / Billing Info:
Tel: (336) 852-4903 / Fax: (336) 852-4904	Reporting Contact: Dusty Reedy
Sampler(s) Name, Affiliation (Print): K. Higgs / R. Stringfellow	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required):

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C717616

Requested Analyses — Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag,As,Ba,Cd,Cr,Hg,Pb,Se									Sample Comments
	2302-MW1B	1-9-08	8:40	G	Water	4	X	X									NC App I (VOCs) + 8 RCRA Metals
	2302-MW1C	1-9-08	8:53	G	Water	4	X	X									
	2302-MW4	1-9-08	9:56	G	Water	4	X	X									
	2302-MW5 MS/MSD	1-9-08	10:17	G	Water	7	X	X									
	2302-MW6A	1-9-08	11:21	G	Water	4	X	X									
	2302-MW7A	1-9-08	11:47	G	Water	4	X	X									
	2302-MW8	1-9-08	12:08	G	Water	4	X	X									
	2302-Field Blank	1-9-08	12:24	G	Water	4	X	X									
	2302-Trip Blank	—	—	G	Water	2	X										NC App I (VOCs Only)

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
DSW JWL	12/20/07	[signature]	1-9-08/16:30	[signature]	1/10/08 10:30
		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time

Comments
1. Please Provide a "Level 2" data report
2. Unit rates per "Basic Ordering Agreement for Laboratory Services" dated April, 2004 & 2006 ENCO MSA Price list
3. Need 7-10 day TAT without surcharge
4. Estimated Fee = $1280 (Jan/July rates)

Cooler #'s & Temps on Receipt: C-313 2.6°C

Condition Upon Receipt: ___ Acceptable ___ Unacceptable

Matrix : GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

LOA per Kyle Higgs: [signature] Approved by: [signature]

WORK ORDER

Printed: 1/24/2008 9:12:51AM

C717616

ENCO Cary

Sample Receipt Conditions

Client: Golder Associates, Inc. (GO007)
Project: Republic - JMN/Cleveland Container
PO #:

Lab Project Mgr: Stephanie Franz
Project Number: 0636569008.100

Report To:
Golder Associates, Inc. (GO007)
Dusty Reedy
The Wingate Building 4900 Koger Blvd., Suite 140
Greensboro, NC 27407
Phone: (336) 852-4903
Fax: (336) 852-4904

Invoice To:
Golder Associates, Inc. (GO007)
Accounts Payable
The Wingate Building 4900 Koger Blvd., Suite 140
Greensboro, NC 27407
Phone :(804) 358-7900
Fax: 804-358-2900

Received By:	Derek Williams	Date Received:	10-Jan-08 10:30
Logged In By:	Derek Williams	Date Logged In:	10-Jan-08 11:03

Work Order Comments:

C-313 received at 2.6°C

Containers Intact	Y	Containers Properly Preserved	Y	Proper Containers Received	Y	All Samples in PreLog Received	Y	COC/Labels Agree	Y
Custody Seals Intact	Y	Volatile Containers Preserved	Y	Volatile Containers Headspace Free	Y	Aqueous Samples Checked for Residual Cl	N	Received On Ice	Y

GOLDER ASSOCIATES NC, INC.
QUALITY ASSURANCE & QUALITY CONTROL
LABORATORY DATA REVIEW

Project Name: Republic - JMN/Cleveland Container Landfill - Groundwater

Project Reference Number: 063-6569008.100

Sampling Event Date: January 9, 2008

Review Date: February 4, 2008 *Initials:* JD

Review Date: February 5, 2008 *Initials:* RS

Report #: C717616

Person(s) performing the review are to initial each item on this form as acknowledgement of data acceptance, or as acknowledgement of a review issue. In the case of the latter, a brief explanation should follow the applicable item.

Golder Associates Inc. has reviewed the laboratory certificates of analysis, chain-of-custody form, and laboratory provided sample group quality assurance and quality control data for the above referenced sample group to identify potential bias or inaccuracy, in general accordance with the following United States Environmental Protection Agency documents:

- Region III Modifications to Functional Guidelines for Organic Data Review Multi-Media, Multi-Concentration, September 1994;
- Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses, April 1993; and
- Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses, July 1998.

COMPLIANCE ANALYTE LIST(S) (check all that apply)

X NC Closed Facility/C & D List

___ NC Appendix I

___ NC Appendix I + Detects

___ NC Appendix II

___ NC Subtitle D Leachate List

Other: _____.

1.0 CHAIN OF CUSTODY (COC) REVIEW

JD RS COC was properly signed by all parties.

JD RS Correct project name and number are on the form.

JD RS Sample receipt condition at laboratory was acceptable.

JD RS Each sample and blank submitted for analysis appears in the report.

Notes: _____

2.0 SAMPLE HOLDING TIMES

JD RS Holding times for extraction and/or analysis were met for each analytical Method (see below for reference).

Notes: _____

Review Criteria		
Method	**Analytes**	**Holding Time**
SW-846 Method 8260 and 8011	VOCs	14 days
SW-846 Methods 8270, 8080, 8081, 8082, and 8151	SVOCs, PCBs, pesticides and herbicides	7 days for extraction, 40 days from extraction for analysis
SW-846 Methods 6000 and 7000 Series	Metals except mercury	6 months (no temperature requirements)
SW-846 Method 7470	Mercury	28 days
SW-846 Method 376.1	Sulfide	7 days
SW-846 Method 9010	Cyanide	14 days
EPA Method 300	Nitrate/Sulfate	48 hours/28 days
EPA Method 405.1	BOD	48 hours
EPA Method 410.4	COD	28 days
EPA Method 365.4	Phosphorous	28 days

3.0 LABORATORY QUALITY CONTROL REVIEW

JD RS Laboratory analyzed at least one internal blank for each method, where applicable.

JD RS Laboratory blank is interference-free.

JD RS Surrogate recoveries are provided for each analytical method, where applicable.

JD RS Surrogate recoveries for each method are within the acceptable limits (i.e., at least 50% of the surrogates were within range).

JD RS MS/MSD/LCS data results are provided for each analytical method.

JD RS MS/MSD/LCS recoveries for each method are within the acceptable limits (i.e., at least 1 of the 3 were within range).

Notes: _____

4.0 ANALYTE LISTS/METHODS

JD RS The proper number of constituents are present for each analyte list as identified above (including detects where applicable).

JD RS Proper EPA SW-846 analytical methods were used for analysis.

Notes: _____

5.0 DATA REPORTING

JD RS All analytical reporting associated with the event was performed by the contracted lab.

JD RS Trip, field and/or equipment, and laboratory blank results have all been reported. All detects for blanks are listed below by constituent. All laboratory method blanks, if any, have been 'flagged' with a 'B' where detected in other samples as appropriate and a laboratory narrative was provided. If the sample was flagged by the laboratory and is not within 5X of the concentration in the blank (or 10X for commonly detected laboratory contaminants-acetone, methylene chloride and phthalates), list below with explanation if flags should be removed. If flags need to be added for samples, also list below.

JD RS It is clear from the laboratory report that samples have or have not been diluted during analysis, and if the samples have been diluted, the result is reported as a multiple of the dilution (e.g., a sample diluted 10x resulting in an analytical detection of 1.0 should be reported as 10). Those that have been diluted are listed below with the dilution factor.

JD RS The report provides the reporting limit for each constituent.

JD RS The results were reported at or below their proper reporting limits (e.g., NC Solid Waste Section reporting limits - SWSLs). Those that are not reported correctly are listed below (by constituent) with the proper reporting limit listed beside them. State if the reporting limit error is due to dilutions.

JD RS No inorganic and organic constituents were reported above their respective NC 2L Drinking Water Standards or Groundwater Protection Standards (GPS) in wells or field/equipment/trip blanks or above applicable Surface Water Standards in surface water points.

- ***1,4-dichlorobenzene was detected at 2.3 µg/L in MW-5 (2L = 1.4)***
- ***Benzene was detected at 1.8 µg/L in MW-7A (2L = 1)***

JD RS No inorganic and organic constituents were detected in a well or surface water point at concentrations outside of their historical range (more than 5X previous concentrations or first-time detections).

- ***Benzene detected at highest historical concentration in MW-7A (1.8 µg/L)***

JD RS Other report issues/Communications with laboratory/etc.:

Notes: _____

Environmental Conservation Laboratories, Inc.
102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

www.encolabs.com

Tuesday, January 22, 2008

Golder Associates, Inc. (GO007)

Attn: Dusty Reedy

The Wingate Building 4900 Koger Blvd., Suite 140

Greensboro, NC 27407

RECEIVED JAN 2 3 2008

RE: Laboratory Results for
Project Number: 0636569008.100, Project Name/Desc: Republic - JMN/Cleveland Contain
ENCO Workorder: C717615

Dear Dusty Reedy,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, January 10, 2008.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Stephanie Franz
Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 13.

PROJECT NARRATIVE

Date: 22 January 2008
Client: Golder Associates
Project: Republic- JMN/Cleveland Container- SWs
Lab ID: C717615

Overview

All samples submitted were analyzed by Environmental Conservation Laboratories, Inc. in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by Environmental Conservation Laboratories, Inc. will be discussed in the QC Remarks section below.

Quality Control Samples

The Method Blank for the 8260B analysis had a low-level (less than half of the MRL) detection of Methylene Chloride. This is a common laboratory contaminant, and the associated sample had no detectable concentration of this analyte.

The spike recovery of 1,1-Dichloroethene is outside of control limits for the 8260B MS. Because of this high recovery, the %RPD (precision) for this analyte was exceeded control limits as well. The QC batch was approved based on acceptable spike recovery in the LCS and the completeness of the QC data.

Quality Control Remarks

No comments

Other Comments

All samples received under this work order arrived in acceptable conditions. The samples were not checked for residual chlorine, as it is not a requirement. Sample 2302-SW3 was not received because the source was dry.

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative.

Released By:
Environmental Conservation Laboratories, Inc.

Stephanie Franz
Project Manager

www.encolabs.com

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 2302-SW4	Lab ID: C717615-02	Sampled: 01/09/08 10:50	Received: 01/10/08 10:30
Parameter	**Hold Date/Time(s)**	**Prep Date/Time(s)**	**Analysis Date/Time(s)**
EPA 6010B	07/07/08	01/11/08 07:41	1/21/2008 15:39
EPA 7470A	02/06/08	01/21/08 08:04	1/22/2008 10:57
EPA 8260B	01/23/08	01/12/08 10:28	1/14/2008 19:09

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 2302-SW4 **Lab ID: C717615-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	6.2	J	1	0.90	5.0	100	ug/L	EPA 8260B	
Barium	15.7	J	1	0.20	10.0	100	ug/L	EPA 6010B	

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ANALYTICAL RESULTS

Description: 2302-SW4
Matrix: Surface Water
Project: Republic - JMN/Cleveland Container-SWs

Lab Sample ID: C717615-02
Sampled: 01/09/08 10:50
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717615

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/14/08 19:09	jkg	
1,1,1-Trichloroethane [71-55-6] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/14/08 19:09	jkg	
1,1,2,2-Tetrachloroethane [79-34-5] *	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	01/14/08 19:09	jkg	
1,1,2-Trichloroethane [79-00-5] *	0.24	U	ug/L	1	0.24	1.0	1	EPA 8260B	01/14/08 19:09	jkg	
1,1-Dichloroethane [75-34-3] *	0.090	U	ug/L	1	0.090	1.0	5	EPA 8260B	01/14/08 19:09	jkg	
1,1-Dichloroethene [75-35-4] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/14/08 19:09	jkg	
1,2,3-Trichloropropane [96-18-4] *	0.32	U	ug/L	1	0.32	1.0	1	EPA 8260B	01/14/08 19:09	jkg	
1,2-Dibromo-3-chloropropane [96-12-8] *	0.19	U	ug/L	1	0.19	1.0	13	EPA 8260B	01/14/08 19:09	jkg	
1,2-Dibromoethane [106-93-4] *	0.19	U	ug/L	1	0.19	1.0	1	EPA 8260B	01/14/08 19:09	jkg	
1,2-Dichlorobenzene [95-50-1] *	0.17	U	ug/L	1	0.17	1.0	5	EPA 8260B	01/14/08 19:09	jkg	
1,2-Dichloroethane [107-06-2] *	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	01/14/08 19:09	jkg	
1,2-Dichloropropane [78-87-5] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/14/08 19:09	jkg	
1,4-Dichlorobenzene [106-46-7] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/14/08 19:09	jkg	
2-Butanone [78-93-3] *	0.56	U	ug/L	1	0.56	5.0	100	EPA 8260B	01/14/08 19:09	jkg	
2-Hexanone [591-78-6] *	0.24	U	ug/L	1	0.24	5.0	50	EPA 8260B	01/14/08 19:09	jkg	
4-Methyl-2-pentanone [108-10-1] *	0.36	U	ug/L	1	0.36	5.0	100	EPA 8260B	01/14/08 19:09	jkg	
Acetone [67-64-1] *	**6.2**	J	ug/L	1	0.90	5.0	100	EPA 8260B	01/14/08 19:09	jkg	
Acrylonitrile [107-13-1] *	2.0	U	ug/L	1	2.0	5.0	200	EPA 8260B	01/14/08 19:09	jkg	
Benzene [71-43-2] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/14/08 19:09	jkg	
Bromochloromethane [74-97-5] *	0.19	U	ug/L	1	0.19	1.0	3	EPA 8260B	01/14/08 19:09	jkg	
Bromodichloromethane [75-27-4] *	0.19	U	ug/L	1	0.19	0.40	1	EPA 8260B	01/14/08 19:09	jkg	
Bromoform [75-25-2] *	0.36	U	ug/L	1	0.36	1.0	3	EPA 8260B	01/14/08 19:09	jkg	
Bromomethane [74-83-9] *	0.21	U	ug/L	1	0.21	1.0	10	EPA 8260B	01/14/08 19:09	jkg	
Carbon disulfide [75-15-0] *	0.12	U	ug/L	1	0.12	5.0	100	EPA 8260B	01/14/08 19:09	jkg	
Carbon tetrachloride [56-23-5] *	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	01/14/08 19:09	jkg	
Chlorobenzene [108-90-7] *	0.16	U	ug/L	1	0.16	1.0	3	EPA 8260B	01/14/08 19:09	jkg	
Chloroethane [75-00-3] *	0.40	U	ug/L	1	0.40	1.0	10	EPA 8260B	01/14/08 19:09	jkg	
Chloroform [67-66-3] *	0.16	U	ug/L	1	0.16	1.0	5	EPA 8260B	01/14/08 19:09	jkg	
Chloromethane [74-87-3] *	0.18	U	ug/L	1	0.18	1.0	1	EPA 8260B	01/14/08 19:09	jkg	
cis-1,2-Dichloroethene [156-59-2] *	0.14	U	ug/L	1	0.14	1.0	5	EPA 8260B	01/14/08 19:09	jkg	
cis-1,3-Dichloropropene [10061-01-5] *	0.16	U	ug/L	1	0.16	0.20	1	EPA 8260B	01/14/08 19:09	jkg	
Dibromochloromethane [124-48-1] *	0.18	U	ug/L	1	0.18	1.0	3	EPA 8260B	01/14/08 19:09	jkg	
Dibromomethane [74-95-3] *	0.14	U	ug/L	1	0.14	1.0	10	EPA 8260B	01/14/08 19:09	jkg	
Ethylbenzene [100-41-4] *	0.17	U	ug/L	1	0.17	1.0	1	EPA 8260B	01/14/08 19:09	jkg	
Iodomethane [74-88-4] *	0.23	U	ug/L	1	0.23	2.0	10	EPA 8260B	01/14/08 19:09	jkg	
Methylene chloride [75-09-2] *	0.088	U	ug/L	1	0.088	1.0	1	EPA 8260B	01/14/08 19:09	jkg	
Styrene [100-42-5] *	0.12	U	ug/L	1	0.12	1.0	1	EPA 8260B	01/14/08 19:09	jkg	
Tetrachloroethene [127-18-4] *	0.25	U	ug/L	1	0.25	1.0	1	EPA 8260B	01/14/08 19:09	jkg	
Toluene [108-88-3] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/14/08 19:09	jkg	
trans-1,2-Dichloroethene [156-60-5] *	0.10	U	ug/L	1	0.10	1.0	5	EPA 8260B	01/14/08 19:09	jkg	
trans-1,3-Dichloropropene [10061-02-6] *	0.18	U	ug/L	1	0.18	0.20	1	EPA 8260B	01/14/08 19:09	jkg	
trans-1,4-Dichloro-2-butene [110-57-6] *	0.60	U	ug/L	1	0.60	1.0	100	EPA 8260B	01/14/08 19:09	jkg	
Trichloroethene [79-01-6] *	0.23	U	ug/L	1	0.23	1.0	1	EPA 8260B	01/14/08 19:09	jkg	

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Description: 2302-SW4
Matrix: Surface Water
Project: Republic - JMN/Cleveland Container-SWs

Lab Sample ID: C717615-02
Sampled: 01/09/08 10:50
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717615

Volatile Organic Compounds by GCMS

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichlorofluoromethane [75-69-4] *	0.16	U	ug/L	1	0.16	1.0	1	EPA 8260B	01/14/08 19:09	jkg	
Vinyl acetate [108-05-4] *	0.19	U	ug/L	1	0.19	2.0	50	EPA 8260B	01/14/08 19:09	jkg	
Vinyl chloride [75-01-4] *	0.15	U	ug/L	1	0.15	1.0	1	EPA 8260B	01/14/08 19:09	jkg	
Xylenes (Total) [1330-20-7]	0.21	U	ug/L	1	0.21	1.0	5	EPA 8260B	01/14/08 19:09	jkg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*86 %*	*69-120*	*8A12004*	*EPA 8260B*	*01/14/08 19:09*	*jkg*	
Dibromofluoromethane	*53*	*1*	*50.0*	*105 %*	*61-120*	*8A12004*	*EPA 8260B*	*01/14/08 19:09*	*jkg*	
Toluene-d8	*43*	*1*	*50.0*	*86 %*	*75-99*	*8A12004*	*EPA 8260B*	*01/14/08 19:09*	*jkg*	

www.encolabs.com

Description: 2302-SW4
Matrix: Surface Water
Project: Republic - JMN/Cleveland Container-SWs

Lab Sample ID: C717615-02
Sampled: 01/09/08 10:50
Sampled By: K Higgs/R Stringfellow

Received: 01/10/08 10:30
Work Order: C717615

Metals by EPA 6000/7000 Series Methods

** - ENCO Cary certified analyte [NC 591]*

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Arsenic [7440-38-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 15:39	VLO	
Barium [7440-39-3] *	**15.7**	J	ug/L	1	0.20	10.0	100	EPA 6010B	01/21/08 15:39	VLO	
Cadmium [7440-43-9] *	0.50	U	ug/L	1	0.50	1.00	1	EPA 6010B	01/21/08 15:39	VLO	
Chromium [7440-47-3] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 15:39	VLO	
Lead [7439-92-1] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 15:39	VLO	
Mercury [7439-97-6] *	0.11	U	ug/L	1	0.11	0.20	0.2	EPA 7470A	01/22/08 10:57	MPL	
Selenium [7782-49-2] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 15:39	VLO	
Silver [7440-22-4] *	2.0	U	ug/L	1	2.0	10.0	10	EPA 6010B	01/21/08 15:39	VLO	

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8A12004 - EPA 5030B_MS

Blank (8A12004-BLK1) Prepared: 01/12/2008 10:28 Analyzed: 01/14/2008 13:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chloromethane	0.18	U	1.0	ug/L							
Vinyl chloride	0.15	U	1.0	ug/L							
Bromomethane	0.21	U	1.0	ug/L							
Chloroethane	0.40	U	1.0	ug/L							
Trichlorofluoromethane	0.16	U	1.0	ug/L							
1,1-Dichloroethene	0.14	U	1.0	ug/L							
Acetone	0.90	U	5.0	ug/L							
Iodomethane	0.23	U	2.0	ug/L							
Carbon disulfide	0.12	U	5.0	ug/L							
Methylene chloride	**0.50**	**J**	1.0	ug/L							O-01
Acrylonitrile	2.0	U	5.0	ug/L							
trans-1,2-Dichloroethene	0.10	U	1.0	ug/L							
1,1-Dichloroethane	0.090	U	1.0	ug/L							
Vinyl acetate	0.19	U	2.0	ug/L							
2-Butanone	0.56	U	5.0	ug/L							
cis-1,2-Dichloroethene	0.14	U	1.0	ug/L							
Bromochloromethane	0.19	U	1.0	ug/L							
Chloroform	0.16	U	1.0	ug/L							
1,1,1-Trichloroethane	0.24	U	1.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
1,2-Dichloroethane	0.36	U	1.0	ug/L							
Benzene	0.12	U	1.0	ug/L							
Trichloroethene	0.23	U	1.0	ug/L							
1,2-Dichloropropane	0.18	U	1.0	ug/L							
Dibromomethane	0.14	U	1.0	ug/L							
Bromodichloromethane	0.19	U	0.40	ug/L							
cis-1,3-Dichloropropene	0.16	U	0.20	ug/L							
4-Methyl-2-pentanone	0.36	U	5.0	ug/L							
Toluene	0.15	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.18	U	0.20	ug/L							
1,1,2-Trichloroethane	0.24	U	1.0	ug/L							
Tetrachloroethene	0.25	U	1.0	ug/L							
2-Hexanone	0.24	U	5.0	ug/L							
Dibromochloromethane	0.18	U	1.0	ug/L							
1,2-Dibromoethane	0.19	U	1.0	ug/L							
Chlorobenzene	0.16	U	1.0	ug/L							
1,1,1,2-Tetrachloroethane	0.16	U	1.0	ug/L							
Ethylbenzene	0.17	U	1.0	ug/L							
Styrene	0.12	U	1.0	ug/L							
Bromoform	0.36	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.27	U	1.0	ug/L							
1,2,3-Trichloropropane	0.32	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.60	U	1.0	ug/L							
1,4-Dichlorobenzene	0.15	U	1.0	ug/L							
1,2-Dichlorobenzene	0.17	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.19	U	1.0	ug/L							
Xylenes (Total)	0.21	U	1.0	ug/L							
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*101*	*61-120*			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 8A12004 - EPA 5030B_MS

Blank (8A12004-BLK1) Continued Prepared: 01/12/2008 10:28 Analyzed: 01/14/2008 13:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Toluene-d8	*41*			*ug/L*	*50.0*		*82*	*75-99*			
Surrogate: 4-Bromofluorobenzene	*43*			*ug/L*	*50.0*		*86*	*69-120*			

LCS (8A12004-BS1) Prepared: 01/12/2008 10:28 Analyzed: 01/14/2008 13:32

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		110	71-121			
Benzene	19		1.0	ug/L	20.0		96	77-128			
Trichloroethene	17		1.0	ug/L	20.0		87	79-120			
Toluene	18		1.0	ug/L	20.0		89	77-120			
Chlorobenzene	17		1.0	ug/L	20.0		87	78-120			

Matrix Spike (8A12004-MS1) Prepared: 01/12/2008 10:28 Analyzed: 01/14/2008 22:33
Source: C800129-16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	40		1.0	ug/L	20.0	0.14 U	198	71-121			QM-07
Benzene	23		1.0	ug/L	20.0	0.12 U	113	77-128			
Trichloroethene	19		1.0	ug/L	20.0	0.23 U	96	79-120			
Toluene	20		1.0	ug/L	20.0	0.15 U	99	77-120			
Chlorobenzene	19		1.0	ug/L	20.0	0.16 U	95	78-120			

Matrix Spike Dup (8A12004-MSD1) Prepared: 01/12/2008 10:28 Analyzed: 01/14/2008 14:46
Source: C800129-16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.14 U	104	71-121	62	27	QM-11
Benzene	17		1.0	ug/L	20.0	0.12 U	87	77-128	26	27	
Trichloroethene	16		1.0	ug/L	20.0	0.23 U	81	79-120	18	27	
Toluene	18		1.0	ug/L	20.0	0.15 U	92	77-120	8	23	
Chlorobenzene	16		1.0	ug/L	20.0	0.16 U	81	78-120	16	25	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8A11005 - EPA 3005A

Blank (8A11005-BLK1) Prepared: 01/11/2008 07:41 Analyzed: 01/21/2008 14:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.0	U	10.0	ug/L							
Barium	0.20	U	10.0	ug/L							
Cadmium	0.50	U	1.00	ug/L							
Chromium	2.0	U	10.0	ug/L							
Lead	2.0	U	10.0	ug/L							
Selenium	2.0	U	10.0	ug/L							
Silver	2.0	U	10.0	ug/L							

LCS (8A11005-BS1) Prepared: 01/11/2008 07:41 Analyzed: 01/21/2008 15:03

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8A11005 - EPA 3005A

LCS (8A11005-BS1) Continued Prepared: 01/11/2008 07:41 Analyzed: 01/21/2008 15:03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	516		10.0	ug/L	500		103	82-117			
Barium	525		10.0	ug/L	500		105	72-125			
Cadmium	261		1.00	ug/L	250		105	72-120			
Chromium	505		10.0	ug/L	500		101	78-119			
Lead	497		10.0	ug/L	500		99	72-121			
Selenium	545		10.0	ug/L	500		109	82-127			
Silver	46.2		10.0	ug/L	50.0		92	80-128			

Matrix Spike (8A11005-MS1) Prepared: 01/11/2008 07:41 Analyzed: 01/21/2008 15:21

Source: C717616-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	521		10.0	ug/L	500	2.0 U	104	64-126			
Barium	805		10.0	ug/L	500	269	107	74-119			
Cadmium	262		1.00	ug/L	250	0.50 U	105	68-121			
Chromium	490		10.0	ug/L	500	2.0 U	98	73-120			
Lead	502		10.0	ug/L	500	2.0 U	100	68-126			
Selenium	552		10.0	ug/L	500	2.0 U	110	65-129			
Silver	45.2		10.0	ug/L	50.0	2.0 U	90	69-121			

Matrix Spike Dup (8A11005-MSD1) Prepared: 01/11/2008 07:41 Analyzed: 01/21/2008 15:28

Source: C717616-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	518		10.0	ug/L	500	2.0 U	104	64-126	0.7	12	
Barium	812		10.0	ug/L	500	269	109	74-119	0.8	11	
Cadmium	258		1.00	ug/L	250	0.50 U	103	68-121	2	12	
Chromium	482		10.0	ug/L	500	2.0 U	96	73-120	2	10	
Lead	496		10.0	ug/L	500	2.0 U	99	68-126	1	19	
Selenium	549		10.0	ug/L	500	2.0 U	110	65-129	0.4	10	
Silver	44.6		10.0	ug/L	50.0	2.0 U	89	69-121	1	12	

Batch 8A21002 - EPA 7470A

Blank (8A21002-BLK1) Prepared: 01/21/2008 08:04 Analyzed: 01/22/2008 10:17

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.11	U	0.20	ug/L							

LCS (8A21002-BS1) Prepared: 01/21/2008 08:04 Analyzed: 01/22/2008 10:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.96		0.20	ug/L	5.00		99	87-123			

Matrix Spike (8A21002-MS1) Prepared: 01/21/2008 08:04 Analyzed: 01/22/2008 10:26

Source: C716559-01

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 8A21002 - EPA 7470A

Matrix Spike (8A21002-MS1) Continued Prepared: 01/21/2008 08:04 Analyzed: 01/22/2008 10:26

Source: C716559-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.80		0.20	ug/L	5.00	0.11 U	96	63-132			

Matrix Spike Dup (8A21002-MSD1) Prepared: 01/21/2008 08:04 Analyzed: 01/22/2008 10:29

Source: C716559-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.45		0.20	ug/L	5.00	0.11 U	89	63-132	8	10	

Post Spike (8A21002-PS1) Prepared: 01/21/2008 08:04 Analyzed: 01/22/2008 10:32

Source: C716559-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.31		0.20	ug/L	5.00	-0.02	87	0-200			

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
O-01	This compound is a common laboratory contaminant.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

1015 Passport Way
Cary, NC 27513
(919) 677-1669 Fax (919) 677-9846

Page 1 of 1

Client Name: Golder Associates, Inc. (GO007)	Project Number: 0636569008.100
Address: The Wingate Building 4900 Koger Blvd., Suite 140	Project Name/Desc: Republic - JMN/Cleveland Container-SWs
City/ST/Zip: Greensboro, NC 27407	PO # / Billing Info
Tel: (336) 852-4903 Fax: (336) 852-4904	Reporting Contact: Dusty Reedy
Sampler(s) Name, Affiliation (Print): K. Higgs / R. Stringfellow	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required)

Requested Analyses: 8260B Appendix 1; Ag,As,Ba,Cd,Cr,Hg,Pb,Se

Requested Turnaround Times
Note : Rush requests subject to acceptance by the facility
✓ Standard
__ Expedited
Due __/__/__

Lab Workorder: C717615

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag,As,Ba,Cd,Cr,Hg,Pb,Se	Sample Comments
	2302-SW3	—	—	—	Water	4	~~X~~	~~X~~	→ DRY-No Sample
	2302-SW4	1-9-08	10:50	G	Water	4	X	X	NC App I (VOCs) + RCRA Metals

Preservation (See Codes) (Combine as necessary)

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
DSW JWL	12/20/07	[signature]	1-9-08/16:50	[signature]	1/10/08 10:30
Relinquished By			Date/Time	Received By	Date/Time
Relinquished By			Date/Time	Received By	Date/Time

Comments:
(1) Please provide a "Level 2" Data Report
(2) ~~Please~~ Unit rates per "Basic Ordering Agreement for Laboratory Services" dated April 9, 2004 + 2006 ENCO Price List.
(3) Need 7-10 day TAT without surcharge
(4) Estimated Fee of $20 (Jan/July rates)

Cooler # & Temp on Receipt: C-248 2.7°C

Condition Upon Receipt: __ Acceptable __ Unacceptable

Matrix: GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: N-None H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

LOA per Kyle Higgs: [signature] Approved by: [signature]

www.encolabs.com

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

1015 Passport Way
Cary, NC 27513
(919) 677-1669 Fax (919) 677-9846

Client Name: Golder Associates, Inc. (GO007)	Project Number: 0636569008.100
Address: The Wingate Building 4900 Koger Blvd., Suite 140	Project Name/Desc: Republic - JMN/Cleveland Container-SWs
City/ST/Zip: Greensboro, NC 27407	PO # / Billing Info
Tel: (336) 852-4903 Fax: (336) 852-4904	Reporting Contact: Dusty Reedy
Sampler(s) Name, Affiliation (Print): K. Higgs / R. Stringfellow	Billing Contact: Accounts Payable
Sampler(s) Signature: [signature]	Facility # (if required)

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C717615

Requested Analyses: 8260B Appendix 1; Ag,As,Ba,Cd,Cr,Hg,Pb,Se

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B Appendix 1	Ag,As,Ba,Cd,Cr,Hg,Pb,Se	Sample Comments
	2302-SW3	—	—	—	Water	4	~~X~~	~~X~~	DRY-No Sample
	2302-SW4	1-9-08	10:50	G	Water	4	X	X	NC App I (VOCs) + RCRA Metals

<-- Total # of Containers

Sample Kit Prepared By: DSW [signature]	Date/Time: 12/20/07	Relinquished By: [signature]	Date/Time: 1-9-08/16:50	Received By: [signature]	Date/Time: 1/10/08 10:30
Comments: (1) Please provide a "Level 2" Data Report (2) ~~Please~~ Unit rates per "Basic Ordering Agreement for Laboratory Services" dated April 9, 2004 + 2006 ENCO Price List. (3) Need 7-10 day TAT without surcharge (4) Estimated Fee = $320 (Jan/July rates)		Relinquished By: [signature]	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt: C-248 2.7°C		Condition Upon Receipt: ___ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

LOA per Kyle Higgs: [signature] Approved by: [signature]

WORK ORDER

Printed: 1/22/2008 4:57:03PM

C717615

ENCO Cary

Sample Receipt Conditions

Client: Golder Associates, Inc. (GO007)
Project: Republic - JMN/Cleveland Container-SWs
PO #:

Lab Project Mgr: Stephanie Franz
Project Number: 0636569008.100

Report To:
Golder Associates, Inc. (GO007)
Dusty Reedy
The Wingate Building 4900 Koger Blvd., Suite 140
Greensboro, NC 27407
Phone: (336) 852-4903
Fax: (336) 852-4904

Invoice To:
Golder Associates, Inc. (GO007)
Accounts Payable
The Wingate Building 4900 Koger Blvd., Suite 140
Greensboro, NC 27407
Phone :(804) 358-7900
Fax: 804-358-2900

Received By:	Derek Williams	Date Received:	10-Jan-08 10:30
Logged In By:	Derek Williams	Date Logged In:	10-Jan-08 11:14

Work Order Comments:

C-248 received at 2.7°C

Containers Intact	Y	Containers Properly Preserved	Y	Proper Containers Received	Y	All Samples in PreLog Received	N	COC/Labels Agree	Y
Custody Seals Intact	Y	Volatile Containers Preserved	Y	Volatile Containers Headspace Free	Y	Aqueous Samples Checked for Residual Cl	N	Received On Ice	Y

GOLDER ASSOCIATES NC, INC.
QUALITY ASSURANCE & QUALITY CONTROL
LABORATORY DATA REVIEW

Project Name: Republic - JMN/Cleveland Container Landfill – Surface Water

Project Reference Number: 063-6569008.100

Sampling Event Date: January 9, 2008

Review Date: February 4, 2008 *Initials:* JD

Review Date: February 5, 2008 *Initials:* RS

Report #: C717615

Person(s) performing the review are to initial each item on this form as acknowledgement of data acceptance, or as acknowledgement of a review issue. In the case of the latter, a brief explanation should follow the applicable item.

Golder Associates Inc. has reviewed the laboratory certificates of analysis, chain-of-custody form, and laboratory provided sample group quality assurance and quality control data for the above referenced sample group to identify potential bias or inaccuracy, in general accordance with the following United States Environmental Protection Agency documents:

- Region III Modifications to Functional Guidelines for Organic Data Review Multi-Media, Multi-Concentration, September 1994;
- Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses, April 1993; and
- Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses, July 1998.

COMPLIANCE ANALYTE LIST(S) (check all that apply)

X NC Closed Facility/C & D List

___ NC Appendix I

___ NC Appendix I + Detects

___ NC Appendix II

___ NC Subtitle D Leachate List

Other: _____.

1.0 CHAIN OF CUSTODY (COC) REVIEW

JD RS COC was properly signed by all parties.

JD RS Correct project name and number are on the form.

JD RS Sample receipt condition at laboratory was acceptable.

JD RS Each sample and blank submitted for analysis appears in the report.

- ***Sample SW-3 was not submitted for analysis since the sampling point was dry.***

Notes: _____

2.0 SAMPLE HOLDING TIMES

JD RS Holding times for extraction and/or analysis were met for each analytical Method (see below for reference).

Notes: _____

Review Criteria		
Method	**Analytes**	**Holding Time**
SW-846 Method 8260 and 8011	VOCs	14 days
SW-846 Methods 8270, 8080, 8081, 8082, and 8151	SVOCs, PCBs, pesticides and herbicides	7 days for extraction, 40 days from extraction for analysis
SW-846 Methods 6000 and 7000 Series	Metals except mercury	6 months (no temperature requirements)
SW-846 Method 7470	Mercury	28 days
SW-846 Method 376.1	Sulfide	7 days
SW-846 Method 9010	Cyanide	14 days
EPA Method 300	Nitrate/Sulfate	48 hours/28 days
EPA Method 405.1	BOD	48 hours
EPA Method 410.4	COD	28 days
EPA Method 365.4	Phosphorous	28 days

3.0 LABORATORY QUALITY CONTROL REVIEW

JD RS Laboratory analyzed at least one internal blank for each method, where applicable.

JD RS Laboratory blank is interference-free.

- ***Methylene chloride was detected in method blank 8A12004-BLK1 at an estimated concentration of 0.50 µg/L (J). This was flagged with a "O-01" flag by the lab since this is considered a common laboratory contaminant.***

JD RS Surrogate recoveries are provided for each analytical method, where applicable.

JD RS Surrogate recoveries for each method are within the acceptable limits (i.e., at least 50% of the surrogates were within range).

JD RS MS/MSD/LCS data results are provided for each analytical method.

JD RS MS/MSD/LCS recoveries for each method are within the acceptable limits (i.e., at least 1 of the 3 were within range).

- ***The spike recovery for 1,1-dichloroethene for the MS (8A12004-MS1) was outside the acceptance limits. The batch was accepted based on acceptable LCS recovery and flagged with a "QM-07" flag.***
- ***The precision between duplicate matrix spikes of the same sample (8A12004-MSD1 for 1,1-dichloroethene) was outside acceptance limits and flagged with a "QM-11" flag.***

Notes: _____

4.0 ANALYTE LISTS/METHODS

JD RS The proper number of constituents are present for each analyte list as identified above (including detects where applicable).

JD RS Proper EPA SW-846 analytical methods were used for analysis.

Notes: _____

5.0 DATA REPORTING

JD RS All analytical reporting associated with the event was performed by the contracted lab.

JD RS Trip, field and/or equipment, and laboratory blank results have all been reported. All detects for blanks are listed below by constituent. All laboratory method blanks, if any, have been 'flagged' with a 'B' where detected in other samples as appropriate and a laboratory narrative was provided. If the sample was flagged by the laboratory and is not within 5X of the concentration in the blank (or 10X for commonly detected laboratory contaminants-acetone, methylene chloride and phthalates), list below with explanation if flags should be removed. If flags need to be added for samples, also list below.

- ***Methylene chloride was detected in method blank 8A12004-BLK1 at an estimated concentration of 0.5 µg/L (J). This was flagged with a "O-01" flag by the lab since this is considered a common laboratory contaminant. Methylene chloride was not detected in the surface water sample.***

JD RS It is clear from the laboratory report that samples have or have not been diluted during analysis, and if the samples have been diluted, the result is reported as a multiple of the dilution (e.g., a sample diluted 10x resulting in an analytical detection of 1.0 should be reported as 10). Those that have been diluted are listed below with the dilution factor.

JD RS The report provides the reporting limit for each constituent.

JD RS The results were reported at or below their proper reporting limits (e.g., NC Solid Waste Section reporting limits - SWSLs). Those that are not reported correctly are listed below (by constituent) with the proper reporting limit listed beside them. State if the reporting limit error is due to dilutions.

JD RS No inorganic and organic constituents were reported above their respective NC 2L Drinking Water Standards or Groundwater Protection Standards (GPS) in wells or field/equipment/trip blanks or above applicable Surface Water Standards in surface water points.

JD RS No inorganic and organic constituents were detected in a well or surface water point at

concentrations outside of their historical range (more than 5X previous concentrations or first-time detections).

- ***Acetone was detected for the first time in SW-4 at an estimated concentration of 6.2 µg/L (J).***

JD RS Other report issues/Communications with laboratory/etc.:

Notes: _____