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

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

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

Solid Waste Monitoring Data Submittal Information

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

Municipal Engineering Services Company, PA

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

Name: Madeline German Phone: (919) 772-5393

E-mail: mgerman@mesco.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Graham County Closed Unlined MSWLF	400 Snowbird Road Robbinsville, NC 28771	38-01	.0500	May 31, 2011

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

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

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

Madeline German — Digitally signed by Madeline German DN: cn=Madeline German, o=MESCO, ou, email=mgerman@mesco.com, c=US Date: 2011.07.12 15:35:49 -04'00' — 7/12/2011 — Affix NC Licensed/ Professional Geologist Seal

Signature — Date

PO Box 97, Garner, NC 27529

Facility Representative Address

C-0281

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

Revised 6/2009

Pace Analytical Services, Inc.
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Huntersville, NC 28078
(704)875-9092

June 16, 2011

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

RE: Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

Dear Mr. Pfohl:
Enclosed are the analytical results for sample(s) received by the laboratory on June 02, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

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

Sincerely,

Kevin Godwin

kevin.godwin@pacelabs.com
Project Manager

Enclosures

cc: Ms. Maggie German, Municipal Engineering Services

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CERTIFICATIONS

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Virginia Certification #: 00213
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DHH Drinking Water # LA 100031
West Virginia Certification #: 357

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
Connecticut Certification #: PH-0106
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 99030002
South Carolina Certification #: 99030001
Virginia Certification #: 00072
West Virginia Certification #: 356

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SAMPLE SUMMARY

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9295391001	**MW-1**	Water	05/31/11 10:30	06/02/11 13:30
9295391002	**MW-2**	Water	05/31/11 12:45	06/02/11 13:30
9295391003	**MW-3**	Water	05/31/11 12:00	06/02/11 13:30
9295391004	**EB**	Water	05/31/11 12:10	06/02/11 13:30
9295391005	**UPSTREAM**	Water	05/31/11 12:20	06/02/11 13:30
9295391006	**DOWNSTREAM**	Water	05/31/11 10:00	06/02/11 13:30

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SAMPLE ANALYTE COUNT

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9295391001	**MW-1**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9295391002	**MW-2**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9295391003	**MW-3**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9295391004	**EB**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9295391005	**UPSTREAM**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C
9295391006	**DOWNSTREAM**	EPA 6010	JMW	15	PASI-A
		EPA 8260	MCK	52	PASI-C

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ANALYTICAL RESULTS

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

Sample: MW-1 **Lab ID: 9295391001** Collected: 05/31/11 10:30 Received: 06/02/11 13:30 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	06/06/11 12:45	06/09/11 15:51	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	06/06/11 12:45	06/09/11 15:51	7440-38-2	
Barium	**109**	ug/L	100	0.20	1	06/06/11 12:45	06/09/11 15:51	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	06/06/11 12:45	06/09/11 15:51	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	06/06/11 12:45	06/09/11 15:51	7440-43-9	
Chromium	**1.1J**	ug/L	10.0	0.40	1	06/06/11 12:45	06/09/11 15:51	7440-47-3	
Cobalt	**218**	ug/L	10.0	0.60	1	06/06/11 12:45	06/09/11 15:51	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	06/06/11 12:45	06/09/11 15:51	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	06/06/11 12:45	06/09/11 15:51	7439-92-1	
Nickel	**7.2J**	ug/L	50.0	1.7	1	06/06/11 12:45	06/09/11 15:51	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	06/06/11 12:45	06/09/11 15:51	7782-49-2	
Silver	**0.61J**	ug/L	10.0	0.10	1	06/06/11 12:45	06/09/11 15:51	7440-22-4	
Thallium	**5.1J**	ug/L	5.5	3.0	1	06/06/11 12:45	06/09/11 15:51	7440-28-0	
Vanadium	ND	ug/L	25.0	0.20	1	06/06/11 12:45	06/09/11 15:51	7440-62-2	
Zinc	**23.0**	ug/L	10.0	0.40	1	06/06/11 12:45	06/09/11 15:51	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/03/11 13:35	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/03/11 13:35	107-13-1	
Benzene	**1.4**	ug/L	1.0	0.25	1		06/03/11 13:35	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/03/11 13:35	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/03/11 13:35	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/03/11 13:35	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/03/11 13:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/03/11 13:35	78-93-3	
Carbon disulfide	**2.1J**	ug/L	100	1.2	1		06/03/11 13:35	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/03/11 13:35	56-23-5	
Chlorobenzene	**15.1**	ug/L	3.0	0.23	1		06/03/11 13:35	108-90-7	
Chloroethane	**1.1J**	ug/L	10.0	0.54	1		06/03/11 13:35	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/03/11 13:35	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/03/11 13:35	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/03/11 13:35	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/03/11 13:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/03/11 13:35	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/03/11 13:35	74-95-3	
1,2-Dichlorobenzene	**0.50J**	ug/L	5.0	0.30	1		06/03/11 13:35	95-50-1	
1,4-Dichlorobenzene	**4.3**	ug/L	1.0	0.33	1		06/03/11 13:35	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/03/11 13:35	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/03/11 13:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/03/11 13:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/03/11 13:35	75-35-4	
cis-1,2-Dichloroethene	**0.52J**	ug/L	5.0	0.19	1		06/03/11 13:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/03/11 13:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/03/11 13:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/03/11 13:35	142-28-9	

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ANALYTICAL RESULTS

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

Sample: MW-1 **Lab ID: 9295391001** Collected: 05/31/11 10:30 Received: 06/02/11 13:30 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/03/11 13:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/03/11 13:35	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/03/11 13:35	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/03/11 13:35	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/03/11 13:35	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/03/11 13:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/03/11 13:35	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/03/11 13:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/03/11 13:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/03/11 13:35	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/03/11 13:35	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/03/11 13:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/03/11 13:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/03/11 13:35	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/03/11 13:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/03/11 13:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/03/11 13:35	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/03/11 13:35	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/03/11 13:35	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/03/11 13:35	1330-20-7	
4-Bromofluorobenzene (S)	95	%	70-130		1		06/03/11 13:35	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		06/03/11 13:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		06/03/11 13:35	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		06/03/11 13:35	2037-26-5	

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ANALYTICAL RESULTS

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

Sample: MW-2 **Lab ID: 9295391002** Collected: 05/31/11 12:45 Received: 06/02/11 13:30 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	06/06/11 12:45	06/09/11 16:20	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	06/06/11 12:45	06/09/11 16:20	7440-38-2	
Barium	**78.7J**	ug/L	100	0.20	1	06/06/11 12:45	06/09/11 16:20	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	06/06/11 12:45	06/09/11 16:20	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	06/06/11 12:45	06/09/11 16:20	7440-43-9	
Chromium	**0.98J**	ug/L	10.0	0.40	1	06/06/11 12:45	06/09/11 16:20	7440-47-3	
Cobalt	**57.7**	ug/L	10.0	0.60	1	06/06/11 12:45	06/09/11 16:20	7440-48-4	
Copper	**0.38J**	ug/L	10.0	0.30	1	06/06/11 12:45	06/09/11 16:20	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	06/06/11 12:45	06/09/11 16:20	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	06/06/11 12:45	06/09/11 16:20	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	06/06/11 12:45	06/09/11 16:20	7782-49-2	
Silver	**0.36J**	ug/L	10.0	0.10	1	06/06/11 12:45	06/09/11 16:20	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	06/06/11 12:45	06/09/11 16:20	7440-28-0	
Vanadium	ND	ug/L	25.0	0.20	1	06/06/11 12:45	06/09/11 16:20	7440-62-2	
Zinc	**15.4**	ug/L	10.0	0.40	1	06/06/11 12:45	06/09/11 16:20	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**3.0J**	ug/L	100	2.2	1		06/03/11 14:01	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/03/11 14:01	107-13-1	
Benzene	**0.27J**	ug/L	1.0	0.25	1		06/03/11 14:01	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/03/11 14:01	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/03/11 14:01	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/03/11 14:01	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/03/11 14:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/03/11 14:01	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/03/11 14:01	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/03/11 14:01	56-23-5	
Chlorobenzene	**1.9J**	ug/L	3.0	0.23	1		06/03/11 14:01	108-90-7	
Chloroethane	**0.69J**	ug/L	10.0	0.54	1		06/03/11 14:01	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/03/11 14:01	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/03/11 14:01	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/03/11 14:01	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/03/11 14:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/03/11 14:01	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/03/11 14:01	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/03/11 14:01	95-50-1	
1,4-Dichlorobenzene	**0.59J**	ug/L	1.0	0.33	1		06/03/11 14:01	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/03/11 14:01	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/03/11 14:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/03/11 14:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/03/11 14:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/03/11 14:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/03/11 14:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/03/11 14:01	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/03/11 14:01	142-28-9	

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ANALYTICAL RESULTS

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

Sample: MW-2 **Lab ID: 9295391002** Collected: 05/31/11 12:45 Received: 06/02/11 13:30 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/03/11 14:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/03/11 14:01	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/03/11 14:01	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/03/11 14:01	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/03/11 14:01	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/03/11 14:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/03/11 14:01	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/03/11 14:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/03/11 14:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/03/11 14:01	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/03/11 14:01	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/03/11 14:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/03/11 14:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/03/11 14:01	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/03/11 14:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/03/11 14:01	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/03/11 14:01	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/03/11 14:01	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/03/11 14:01	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/03/11 14:01	1330-20-7	
4-Bromofluorobenzene (S)	98	%	70-130		1		06/03/11 14:01	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		06/03/11 14:01	1868-53-7	
1,2-Dichloroethane-d4 (S)	111	%	70-130		1		06/03/11 14:01	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		06/03/11 14:01	2037-26-5	

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ANALYTICAL RESULTS

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

Sample: MW-3 **Lab ID: 9295391003** Collected: 05/31/11 12:00 Received: 06/02/11 13:30 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	06/06/11 12:45	06/09/11 16:25	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	06/06/11 12:45	06/09/11 16:25	7440-38-2	
Barium	**15.6J**	ug/L	100	0.20	1	06/06/11 12:45	06/09/11 16:25	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	06/06/11 12:45	06/09/11 16:25	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	06/06/11 12:45	06/09/11 16:25	7440-43-9	
Chromium	**1.3J**	ug/L	10.0	0.40	1	06/06/11 12:45	06/09/11 16:25	7440-47-3	
Cobalt	**1.5J**	ug/L	10.0	0.60	1	06/06/11 12:45	06/09/11 16:25	7440-48-4	
Copper	**1.3J**	ug/L	10.0	0.30	1	06/06/11 12:45	06/09/11 16:25	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	06/06/11 12:45	06/09/11 16:25	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	06/06/11 12:45	06/09/11 16:25	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	06/06/11 12:45	06/09/11 16:25	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	06/06/11 12:45	06/09/11 16:25	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	06/06/11 12:45	06/09/11 16:25	7440-28-0	
Vanadium	ND	ug/L	25.0	0.20	1	06/06/11 12:45	06/09/11 16:25	7440-62-2	
Zinc	**15.2**	ug/L	10.0	0.40	1	06/06/11 12:45	06/09/11 16:25	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/03/11 14:26	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/03/11 14:26	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/03/11 14:26	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/03/11 14:26	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/03/11 14:26	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/03/11 14:26	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/03/11 14:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/03/11 14:26	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/03/11 14:26	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/03/11 14:26	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/03/11 14:26	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/03/11 14:26	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/03/11 14:26	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/03/11 14:26	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/03/11 14:26	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/03/11 14:26	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/03/11 14:26	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/03/11 14:26	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/03/11 14:26	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/03/11 14:26	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/03/11 14:26	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/03/11 14:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/03/11 14:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/03/11 14:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/03/11 14:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/03/11 14:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/03/11 14:26	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/03/11 14:26	142-28-9	

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ANALYTICAL RESULTS

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

Sample: MW-3 **Lab ID: 9295391003** Collected: 05/31/11 12:00 Received: 06/02/11 13:30 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/03/11 14:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/03/11 14:26	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/03/11 14:26	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/03/11 14:26	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/03/11 14:26	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/03/11 14:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/03/11 14:26	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/03/11 14:26	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/03/11 14:26	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/03/11 14:26	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/03/11 14:26	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/03/11 14:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/03/11 14:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/03/11 14:26	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/03/11 14:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/03/11 14:26	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/03/11 14:26	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/03/11 14:26	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/03/11 14:26	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/03/11 14:26	1330-20-7	
4-Bromofluorobenzene (S)	93	%	70-130		1		06/03/11 14:26	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		06/03/11 14:26	1868-53-7	
1,2-Dichloroethane-d4 (S)	114	%	70-130		1		06/03/11 14:26	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		06/03/11 14:26	2037-26-5	

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ANALYTICAL RESULTS

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

Sample: EB **Lab ID: 9295391004** Collected: 05/31/11 12:10 Received: 06/02/11 13:30 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	06/06/11 12:45	06/09/11 16:29	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	06/06/11 12:45	06/09/11 16:29	7440-38-2	
Barium	ND	ug/L	100	0.20	1	06/06/11 12:45	06/09/11 16:29	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	06/06/11 12:45	06/09/11 16:29	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	06/06/11 12:45	06/09/11 16:29	7440-43-9	
Chromium	**2.2J**	ug/L	10.0	0.40	1	06/06/11 12:45	06/09/11 16:29	7440-47-3	
Cobalt	ND	ug/L	10.0	0.60	1	06/06/11 12:45	06/09/11 16:29	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	06/06/11 12:45	06/09/11 16:29	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	06/06/11 12:45	06/09/11 16:29	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	06/06/11 12:45	06/09/11 16:29	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	06/06/11 12:45	06/09/11 16:29	7782-49-2	
Silver	**0.10J**	ug/L	10.0	0.10	1	06/06/11 12:45	06/09/11 16:29	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	06/06/11 12:45	06/09/11 16:29	7440-28-0	
Vanadium	ND	ug/L	25.0	0.20	1	06/06/11 12:45	06/09/11 16:29	7440-62-2	
Zinc	**8.7J**	ug/L	10.0	0.40	1	06/06/11 12:45	06/09/11 16:29	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**6.9J**	ug/L	100	2.2	1		06/03/11 14:52	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/03/11 14:52	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/03/11 14:52	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/03/11 14:52	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/03/11 14:52	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/03/11 14:52	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/03/11 14:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/03/11 14:52	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/03/11 14:52	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/03/11 14:52	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/03/11 14:52	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/03/11 14:52	75-00-3	
Chloroform	**1.3J**	ug/L	5.0	0.14	1		06/03/11 14:52	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/03/11 14:52	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/03/11 14:52	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/03/11 14:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/03/11 14:52	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/03/11 14:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/03/11 14:52	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/03/11 14:52	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/03/11 14:52	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/03/11 14:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/03/11 14:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/03/11 14:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/03/11 14:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/03/11 14:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/03/11 14:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/03/11 14:52	142-28-9	

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ANALYTICAL RESULTS

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

Sample: EB **Lab ID: 9295391004** Collected: 05/31/11 12:10 Received: 06/02/11 13:30 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/03/11 14:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/03/11 14:52	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/03/11 14:52	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/03/11 14:52	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/03/11 14:52	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/03/11 14:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/03/11 14:52	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/03/11 14:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/03/11 14:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/03/11 14:52	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/03/11 14:52	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/03/11 14:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/03/11 14:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/03/11 14:52	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/03/11 14:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/03/11 14:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/03/11 14:52	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/03/11 14:52	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/03/11 14:52	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/03/11 14:52	1330-20-7	
4-Bromofluorobenzene (S)	92	%	70-130		1		06/03/11 14:52	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		1		06/03/11 14:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	114	%	70-130		1		06/03/11 14:52	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/03/11 14:52	2037-26-5	

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ANALYTICAL RESULTS

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

Sample: UPSTREAM **Lab ID: 9295391005** Collected: 05/31/11 12:20 Received: 06/02/11 13:30 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	06/06/11 12:45	06/09/11 16:32	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	06/06/11 12:45	06/09/11 16:32	7440-38-2	
Barium	**6.2J**	ug/L	100	0.20	1	06/06/11 12:45	06/09/11 16:32	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	06/06/11 12:45	06/09/11 16:32	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	06/06/11 12:45	06/09/11 16:32	7440-43-9	
Chromium	**0.66J**	ug/L	10.0	0.40	1	06/06/11 12:45	06/09/11 16:32	7440-47-3	
Cobalt	**0.76J**	ug/L	10.0	0.60	1	06/06/11 12:45	06/09/11 16:32	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	06/06/11 12:45	06/09/11 16:32	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	06/06/11 12:45	06/09/11 16:32	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	06/06/11 12:45	06/09/11 16:32	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	06/06/11 12:45	06/09/11 16:32	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	06/06/11 12:45	06/09/11 16:32	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	06/06/11 12:45	06/09/11 16:32	7440-28-0	
Vanadium	**0.43J**	ug/L	25.0	0.20	1	06/06/11 12:45	06/09/11 16:32	7440-62-2	
Zinc	**10.1**	ug/L	10.0	0.40	1	06/06/11 12:45	06/09/11 16:32	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	**2.8J**	ug/L	100	2.2	1		06/03/11 15:17	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/03/11 15:17	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/03/11 15:17	71-43-2	
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/03/11 15:17	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/03/11 15:17	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/03/11 15:17	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/03/11 15:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/03/11 15:17	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/03/11 15:17	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/03/11 15:17	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/03/11 15:17	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/03/11 15:17	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/03/11 15:17	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/03/11 15:17	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/03/11 15:17	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/03/11 15:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/03/11 15:17	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/03/11 15:17	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/03/11 15:17	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/03/11 15:17	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/03/11 15:17	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/03/11 15:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/03/11 15:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/03/11 15:17	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/03/11 15:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/03/11 15:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/03/11 15:17	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/03/11 15:17	142-28-9	

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ANALYTICAL RESULTS

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

Sample: UPSTREAM **Lab ID: 9295391005** Collected: 05/31/11 12:20 Received: 06/02/11 13:30 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/03/11 15:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/03/11 15:17	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/03/11 15:17	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/03/11 15:17	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/03/11 15:17	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/03/11 15:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/03/11 15:17	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/03/11 15:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/03/11 15:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/03/11 15:17	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/03/11 15:17	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/03/11 15:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/03/11 15:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/03/11 15:17	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/03/11 15:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/03/11 15:17	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/03/11 15:17	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/03/11 15:17	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/03/11 15:17	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/03/11 15:17	1330-20-7	
4-Bromofluorobenzene (S)	92	%	70-130		1		06/03/11 15:17	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		1		06/03/11 15:17	1868-53-7	
1,2-Dichloroethane-d4 (S)	116	%	70-130		1		06/03/11 15:17	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		06/03/11 15:17	2037-26-5	

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ANALYTICAL RESULTS

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

Sample: DOWNSTREAM **Lab ID: 9295391006** Collected: 05/31/11 10:00 Received: 06/02/11 13:30 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 ICP Groundwater	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Antimony	ND	ug/L	6.0	2.6	1	06/06/11 12:45	06/09/11 16:35	7440-36-0	
Arsenic	ND	ug/L	10.0	2.7	1	06/06/11 12:45	06/09/11 16:35	7440-38-2	
Barium	**6.4J**	ug/L	100	0.20	1	06/06/11 12:45	06/09/11 16:35	7440-39-3	
Beryllium	ND	ug/L	1.0	0.10	1	06/06/11 12:45	06/09/11 16:35	7440-41-7	
Cadmium	ND	ug/L	1.0	0.50	1	06/06/11 12:45	06/09/11 16:35	7440-43-9	
Chromium	**0.74J**	ug/L	10.0	0.40	1	06/06/11 12:45	06/09/11 16:35	7440-47-3	
Cobalt	**9.5J**	ug/L	10.0	0.60	1	06/06/11 12:45	06/09/11 16:35	7440-48-4	
Copper	ND	ug/L	10.0	0.30	1	06/06/11 12:45	06/09/11 16:35	7440-50-8	
Lead	ND	ug/L	10.0	4.0	1	06/06/11 12:45	06/09/11 16:35	7439-92-1	
Nickel	ND	ug/L	50.0	1.7	1	06/06/11 12:45	06/09/11 16:35	7440-02-0	
Selenium	ND	ug/L	10.0	3.8	1	06/06/11 12:45	06/09/11 16:35	7782-49-2	
Silver	ND	ug/L	10.0	0.10	1	06/06/11 12:45	06/09/11 16:35	7440-22-4	
Thallium	ND	ug/L	5.5	3.0	1	06/06/11 12:45	06/09/11 16:35	7440-28-0	
Vanadium	ND	ug/L	25.0	0.20	1	06/06/11 12:45	06/09/11 16:35	7440-62-2	
Zinc	**7.2J**	ug/L	10.0	0.40	1	06/06/11 12:45	06/09/11 16:35	7440-66-6	
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
Acetone	ND	ug/L	100	2.2	1		06/03/11 15:43	67-64-1	
Acrylonitrile	ND	ug/L	200	1.9	1		06/03/11 15:43	107-13-1	
Benzene	ND	ug/L	1.0	0.25	1		06/03/11 15:43	71-43-2	pH
Bromochloromethane	ND	ug/L	3.0	0.17	1		06/03/11 15:43	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.18	1		06/03/11 15:43	75-27-4	
Bromoform	ND	ug/L	3.0	0.26	1		06/03/11 15:43	75-25-2	
Bromomethane	ND	ug/L	10.0	0.29	1		06/03/11 15:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	0.96	1		06/03/11 15:43	78-93-3	
Carbon disulfide	ND	ug/L	100	1.2	1		06/03/11 15:43	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.25	1		06/03/11 15:43	56-23-5	
Chlorobenzene	ND	ug/L	3.0	0.23	1		06/03/11 15:43	108-90-7	
Chloroethane	ND	ug/L	10.0	0.54	1		06/03/11 15:43	75-00-3	
Chloroform	ND	ug/L	5.0	0.14	1		06/03/11 15:43	67-66-3	
Chloromethane	ND	ug/L	1.0	0.11	1		06/03/11 15:43	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L	13.0	2.5	1		06/03/11 15:43	96-12-8	
Dibromochloromethane	ND	ug/L	3.0	0.21	1		06/03/11 15:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.27	1		06/03/11 15:43	106-93-4	
Dibromomethane	ND	ug/L	10.0	0.21	1		06/03/11 15:43	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	5.0	0.30	1		06/03/11 15:43	95-50-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.33	1		06/03/11 15:43	106-46-7	
trans-1,4-Dichloro-2-butene	ND	ug/L	100	1.0	1		06/03/11 15:43	110-57-6	
1,1-Dichloroethane	ND	ug/L	5.0	0.32	1		06/03/11 15:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		06/03/11 15:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	0.56	1		06/03/11 15:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	0.19	1		06/03/11 15:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	0.49	1		06/03/11 15:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.27	1		06/03/11 15:43	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.28	1		06/03/11 15:43	142-28-9	

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ANALYTICAL RESULTS

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

Sample: DOWNSTREAM **Lab ID: 9295391006** Collected: 05/31/11 10:00 Received: 06/02/11 13:30 Matrix: Water

Comments: • The samples were received outside of required temperature range. Analysis was completed upon client approval.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level Landfill	Analytical Method: EPA 8260								
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.13	1		06/03/11 15:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.26	1		06/03/11 15:43	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.30	1		06/03/11 15:43	100-41-4	
2-Hexanone	ND	ug/L	50.0	0.46	1		06/03/11 15:43	591-78-6	
Iodomethane	ND	ug/L	10.0	0.32	1		06/03/11 15:43	74-88-4	
Methylene Chloride	ND	ug/L	1.0	0.97	1		06/03/11 15:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	0.33	1		06/03/11 15:43	108-10-1	
Styrene	ND	ug/L	1.0	0.26	1		06/03/11 15:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	0.33	1		06/03/11 15:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	3.0	0.40	1		06/03/11 15:43	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.46	1		06/03/11 15:43	127-18-4	
Toluene	ND	ug/L	1.0	0.26	1		06/03/11 15:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.48	1		06/03/11 15:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.29	1		06/03/11 15:43	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.47	1		06/03/11 15:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.20	1		06/03/11 15:43	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.41	1		06/03/11 15:43	96-18-4	
Vinyl acetate	ND	ug/L	50.0	0.35	1		06/03/11 15:43	108-05-4	
Vinyl chloride	ND	ug/L	1.0	0.62	1		06/03/11 15:43	75-01-4	
Xylene (Total)	ND	ug/L	5.0	0.66	1		06/03/11 15:43	1330-20-7	
4-Bromofluorobenzene (S)	94	%	70-130		1		06/03/11 15:43	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		1		06/03/11 15:43	1868-53-7	
1,2-Dichloroethane-d4 (S)	115	%	70-130		1		06/03/11 15:43	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		06/03/11 15:43	2037-26-5	

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QUALITY CONTROL DATA

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

QC Batch: MPRP/8485 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: 6010 MET NC Groundwater
Associated Lab Samples: 9295391001, 9295391002, 9295391003, 9295391004, 9295391005, 9295391006

METHOD BLANK: 614938 — Matrix: Water
Associated Lab Samples: 9295391001, 9295391002, 9295391003, 9295391004, 9295391005, 9295391006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	ND	6.0	06/09/11 14:19	
Arsenic	ug/L	ND	10.0	06/09/11 14:19	
Barium	ug/L	ND	100	06/09/11 14:19	
Beryllium	ug/L	ND	1.0	06/09/11 14:19	
Cadmium	ug/L	ND	1.0	06/09/11 14:19	
Chromium	ug/L	ND	10.0	06/09/11 14:19	
Cobalt	ug/L	ND	10.0	06/09/11 14:19	
Copper	ug/L	ND	10.0	06/09/11 14:19	
Lead	ug/L	ND	10.0	06/09/11 14:19	
Nickel	ug/L	ND	50.0	06/09/11 14:19	
Selenium	ug/L	ND	10.0	06/09/11 14:19	
Silver	ug/L	0.17J	10.0	06/09/11 14:19	
Thallium	ug/L	ND	5.5	06/09/11 14:19	
Vanadium	ug/L	ND	25.0	06/09/11 14:19	
Zinc	ug/L	6.9J	10.0	06/09/11 14:19	

LABORATORY CONTROL SAMPLE: 614939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	487	97	80-120	
Arsenic	ug/L	500	494	99	80-120	
Barium	ug/L	500	507	101	80-120	
Beryllium	ug/L	500	497	99	80-120	
Cadmium	ug/L	500	495	99	80-120	
Chromium	ug/L	500	485	97	80-120	
Cobalt	ug/L	500	494	99	80-120	
Copper	ug/L	500	507	101	80-120	
Lead	ug/L	500	493	99	80-120	
Nickel	ug/L	500	498	100	80-120	
Selenium	ug/L	500	494	99	80-120	
Silver	ug/L	250	243	97	80-120	
Thallium	ug/L	500	492	98	80-120	
Vanadium	ug/L	500	490	98	80-120	
Zinc	ug/L	500	491	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 614940 614941

Parameter	Units	9295374002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	ug/L	ND	500	500	483	495	97	99	75-125	2	25	

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QUALITY CONTROL DATA

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 614940 614941

Parameter	Units	9295374002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	ND	500	500	488	498	98	100	75-125	2	25	
Barium	ug/L	74.4J	500	500	573	585	100	102	75-125	2	25	
Beryllium	ug/L	ND	500	500	491	497	98	99	75-125	1	25	
Cadmium	ug/L	ND	500	500	489	499	98	100	75-125	2	25	
Chromium	ug/L	ND	500	500	482	492	96	98	75-125	2	25	
Cobalt	ug/L	41.7	500	500	533	543	98	100	75-125	2	25	
Copper	ug/L	4.8J	500	500	508	519	101	103	75-125	2	25	
Lead	ug/L	ND	500	500	487	495	97	99	75-125	2	25	
Nickel	ug/L	3.0J	500	500	494	503	98	100	75-125	2	25	
Selenium	ug/L	ND	500	500	493	507	98	101	75-125	3	25	
Silver	ug/L	0.29J	250	250	241	246	96	98	75-125	2	25	
Thallium	ug/L	ND	500	500	485	498	97	100	75-125	3	25	
Vanadium	ug/L	0.37J	500	500	486	497	97	99	75-125	2	25	
Zinc	ug/L	20.1	500	500	499	507	96	97	75-125	2	25	

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QUALITY CONTROL DATA

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

QC Batch: MSV/15509 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level Landfill
Associated Lab Samples: 9295391001, 9295391002, 9295391003, 9295391004, 9295391005, 9295391006

METHOD BLANK: 615221 Matrix: Water
Associated Lab Samples: 9295391001, 9295391002, 9295391003, 9295391004, 9295391005, 9295391006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	5.0	06/03/11 13:10	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/03/11 13:10	
1,1,2,2-Tetrachloroethane	ug/L	ND	3.0	06/03/11 13:10	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/03/11 13:10	
1,1-Dichloroethane	ug/L	ND	5.0	06/03/11 13:10	
1,1-Dichloroethene	ug/L	ND	5.0	06/03/11 13:10	
1,2,3-Trichloropropane	ug/L	ND	1.0	06/03/11 13:10	
1,2-Dibromo-3-chloropropane	ug/L	ND	13.0	06/03/11 13:10	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/03/11 13:10	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/03/11 13:10	
1,2-Dichloroethane	ug/L	ND	1.0	06/03/11 13:10	
1,2-Dichloropropane	ug/L	ND	1.0	06/03/11 13:10	
1,3-Dichloropropane	ug/L	ND	1.0	06/03/11 13:10	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/03/11 13:10	
2-Butanone (MEK)	ug/L	ND	100	06/03/11 13:10	
2-Hexanone	ug/L	ND	50.0	06/03/11 13:10	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	06/03/11 13:10	
Acetone	ug/L	ND	100	06/03/11 13:10	
Acrylonitrile	ug/L	ND	200	06/03/11 13:10	
Benzene	ug/L	ND	1.0	06/03/11 13:10	
Bromochloromethane	ug/L	ND	3.0	06/03/11 13:10	
Bromodichloromethane	ug/L	ND	1.0	06/03/11 13:10	
Bromoform	ug/L	ND	3.0	06/03/11 13:10	
Bromomethane	ug/L	ND	10.0	06/03/11 13:10	
Carbon disulfide	ug/L	ND	100	06/03/11 13:10	
Carbon tetrachloride	ug/L	ND	1.0	06/03/11 13:10	
Chlorobenzene	ug/L	ND	3.0	06/03/11 13:10	
Chloroethane	ug/L	ND	10.0	06/03/11 13:10	
Chloroform	ug/L	ND	5.0	06/03/11 13:10	
Chloromethane	ug/L	ND	1.0	06/03/11 13:10	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/03/11 13:10	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/03/11 13:10	
Dibromochloromethane	ug/L	ND	3.0	06/03/11 13:10	
Dibromomethane	ug/L	ND	10.0	06/03/11 13:10	
Ethylbenzene	ug/L	ND	1.0	06/03/11 13:10	
Iodomethane	ug/L	ND	10.0	06/03/11 13:10	
Methylene Chloride	ug/L	ND	1.0	06/03/11 13:10	
Styrene	ug/L	ND	1.0	06/03/11 13:10	
Tetrachloroethene	ug/L	ND	1.0	06/03/11 13:10	
Toluene	ug/L	ND	1.0	06/03/11 13:10	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/03/11 13:10	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/03/11 13:10	
trans-1,4-Dichloro-2-butene	ug/L	ND	100	06/03/11 13:10	

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QUALITY CONTROL DATA

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

METHOD BLANK: 615221 Matrix: Water

Associated Lab Samples: 9295391001, 9295391002, 9295391003, 9295391004, 9295391005, 9295391006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Trichloroethene	ug/L	ND	1.0	06/03/11 13:10	
Trichlorofluoromethane	ug/L	ND	1.0	06/03/11 13:10	
Vinyl acetate	ug/L	ND	50.0	06/03/11 13:10	
Vinyl chloride	ug/L	ND	1.0	06/03/11 13:10	
Xylene (Total)	ug/L	ND	5.0	06/03/11 13:10	
1,2-Dichloroethane-d4 (S)	%	115	70-130	06/03/11 13:10	
4-Bromofluorobenzene (S)	%	97	70-130	06/03/11 13:10	
Dibromofluoromethane (S)	%	114	70-130	06/03/11 13:10	
Toluene-d8 (S)	%	96	70-130	06/03/11 13:10	

LABORATORY CONTROL SAMPLE: 615222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	58.3	117	70-130	
1,1,1-Trichloroethane	ug/L	50	55.8	112	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	60.1	120	70-130	
1,1,2-Trichloroethane	ug/L	50	55.1	110	70-130	
1,1-Dichloroethane	ug/L	50	56.5	113	70-130	
1,1-Dichloroethene	ug/L	50	57.7	115	70-132	
1,2,3-Trichloropropane	ug/L	50	56.6	113	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	52.0	104	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	56.4	113	70-130	
1,2-Dichlorobenzene	ug/L	50	53.1	106	70-130	
1,2-Dichloroethane	ug/L	50	55.7	111	70-130	
1,2-Dichloropropane	ug/L	50	54.9	110	70-130	
1,3-Dichloropropane	ug/L	50	56.9	114	70-130	
1,4-Dichlorobenzene	ug/L	50	50.8	102	70-130	
2-Butanone (MEK)	ug/L	100	108	108	70-145	
2-Hexanone	ug/L	100	125	125	70-144	
4-Methyl-2-pentanone (MIBK)	ug/L	100	116	116	70-140	
Acetone	ug/L	100	110	110	50-175	
Acrylonitrile	ug/L	250	285	114	70-143	
Benzene	ug/L	50	52.0	104	70-130	
Bromochloromethane	ug/L	50	53.5	107	70-130	
Bromodichloromethane	ug/L	50	57.0	114	70-130	
Bromoform	ug/L	50	48.5	97	70-130	
Bromomethane	ug/L	50	48.0	96	54-130	
Carbon disulfide	ug/L	50	60.5J	121	70-131	
Carbon tetrachloride	ug/L	50	55.4	111	70-132	
Chlorobenzene	ug/L	50	55.0	110	70-130	
Chloroethane	ug/L	50	59.2	118	64-134	
Chloroform	ug/L	50	54.9	110	70-130	
Chloromethane	ug/L	50	50.7	101	64-130	
cis-1,2-Dichloroethene	ug/L	50	54.2	108	70-131	
cis-1,3-Dichloropropene	ug/L	50	51.5	103	70-130	

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QUALITY CONTROL DATA

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

LABORATORY CONTROL SAMPLE: 615222

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromochloromethane	ug/L	50	52.5	105	70-130	
Dibromomethane	ug/L	50	52.0	104	70-131	
Ethylbenzene	ug/L	50	55.3	111	70-130	
Iodomethane	ug/L	100	92.2	92	49-180	
Methylene Chloride	ug/L	50	54.8	110	63-130	
Styrene	ug/L	50	53.0	106	70-130	
Tetrachloroethene	ug/L	50	55.9	112	70-130	
Toluene	ug/L	50	50.6	101	70-130	
trans-1,2-Dichloroethene	ug/L	50	56.0	112	70-130	
trans-1,3-Dichloropropene	ug/L	50	48.1	96	70-132	
trans-1,4-Dichloro-2-butene	ug/L	50	65.3J	131	70-141	
Trichloroethene	ug/L	50	52.6	105	70-130	
Trichlorofluoromethane	ug/L	50	62.3	125	62-133	
Vinyl acetate	ug/L	100	97.3	97	66-157	
Vinyl chloride	ug/L	50	62.0	124	69-130	
Xylene (Total)	ug/L	150	171	114	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			105	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 615223 615224

Parameter	Units	9295374002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	0.82J	50	50	61.3	61.0	121	120	70-166	0	30	
Benzene	ug/L	16.1	50	50	77.6	77.0	123	122	70-148	1	30	
Chlorobenzene	ug/L	0.47J	50	50	59.2	58.2	117	116	70-146	2	30	
Toluene	ug/L	24.7	50	50	82.0	82.6	115	116	70-155	1	30	
Trichloroethene	ug/L	11.4	50	50	69.6	68.0	116	113	69-151	2	30	
1,2-Dichloroethane-d4 (S)	%						113	111	70-130			
4-Bromofluorobenzene (S)	%						97	96	70-130			
Dibromofluoromethane (S)	%						111	108	70-130			
Toluene-d8 (S)	%						94	95	70-130			

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QUALIFIERS

Project: GRAHAM CO. MSWLF
Pace Project No.: 9295391

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

LABORATORIES

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

ANALYTE QUALIFIERS

pH	Post-analysis pH measurement indicates insufficient VOA sample preservation.

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1476860

Section A Required Client Information:

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

Section B Required Project Information:

Report To: Jim Pfohl
Copy To: Mgermain@mesco.com
Purchase Order No.:
Project Name:
Project Number: Graham Co. [redacted] MSWLF

Section C Invoice Information:

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

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

Site Location STATE: NC

Section D Required Client Information

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

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	COLLECTED Composite Start Time	COLLECTED Composite End/Grab Date	COLLECTED Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	VOCs - App I	Metals - App I	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-1	WT	G	5/31/11	10:30				4			1	3						✓	✓	W	9295391
2	MW-2			5/31/11	12:45																	9295391001
3	MW-3			5/31/11	12:00																	002
4	EB			5/31/11	12:10				5													003
5	Upstream			5/31/11	12:20				4													004
6	Downstream			5/31/11	10:00				4													005
7																						006
8																						007
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Pace Provided DI H_2O &	[signature] /MESCO	1/11		[signature] /PACE	06/01/11	1330	75	Y	N	Y
Geotech D. Bailer for EB										

MW-1 Downgradient
MW-2 Downgradient
MW-3 Background

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jim Patterson
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 5/31/11

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

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: Municipal Project # 92953391

Where Received: ☒ Huntersville ☐ Asheville ☐ Eden

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

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

Optional
Proj. Due Date:
Proj. Name:

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

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

Temp Correction Factor: Add / Subtract 0 °C

Corrected Cooler Temp.: 7.5 C **Biological Tissue is Frozen:** Yes (No)

Temp should be above freezing to 6°C

Date and Initials of person examining contents: BH 06/02/11

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: WT	☑Yes ☐No ☐N/A	12.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ~~☐N/A~~	16. Recived Trip BLANK not on COC
Trip Blank Custody Seals Present	☑Yes ☐No ~~☐N/A~~	
Pace Trip Blank Lot # (if purchased):		

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

Person Contacted: Maddie German / Jonathan Pfohl Date/Time: 6/2/11

Comments/ Resolution: PM informed of temperature. Client instructed to continue with analysis. KB.

SCURF Review: VG **Date:** 6/2/11 **SRF Review:** EW **Date:** 6/2/11

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