[redacted] ☐ 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):

Grey Engineering, Inc.

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

Name: John C. Grey, Jr., PE Phone: 336-751-2110

E-mail: jgrey@greyengineering.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Davie County MSW Landfill	360 Dalton Rd., Mocksville, NC 27028	30-01	.0500	November 21, 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.

John C. Grey, Jr., PE — President — 336-751-2110

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

1-17-12

Signature — Date

254 W. Water St., Mocksville, NC 27028

Facility Representative Address

C-0909

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

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA PROFESSIONAL SEAL 015407 ENGINEER JOHN C. GREY, JR.

1-17-12

Revised 6/2009

GREY
ENGINEERING, INC.

January 17, 2012

Compliance Unit
NCDENR-DWM, Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646

Re: MSW Landfill Monitoring
Davie County MSW Landfill
360 Dalton Rd, Mocksville
Project #202.019

Dear Sir/Madam:

With Respect to the closed Davie County MSW Landfill, permit #30-01, and the closed Davie County C&D Landfill, permit #30-03, the following information is included on the enclosed CD: field collection reports, laboratory analysis report; exceedance summary table with history; detection summary table with history; MSW Landfill environmental monitoring reporting form; C&D Landfill environmental monitoring reporting form; vicinity map and monitoring well location map. The sampling was conducted in November 2011.

This presentation of data differs from previous semi-annual monitoring reports in that, monitoring wells for the MSW and C&D landfills are clearly defined and separated. Based on conversations with Elizabeth Werner, Hydrogeologist with NCDENR and Ed Henriques, Environmental Department Manager with S&ME, the sampling network has been revised to become compliant with appropriate regulations. Two separate networks are presented; one network monitors compliance for the closed MSW Landfill, permit #30-01, and includes compliance monitoring wells numbered 2,3,4,13A, 16S, 16D, 17, 18 and *nature and extent wells numbered 19S, 19D, 21, and 22.* The other network monitors the closed C&D Landfill, permit #30-03, and includes compliance monitoring wells numbered 6,7,8A, 9 and *nature and extent well number 20.*

All surface water sampling sites are compliant. All C&D monitoring wells are compliant. With respect to MSW monitoring wells, you will note from the Exceedance Summary Table that monitoring wells **MW-4** (Benzene), **MW-13A** (Chromium), **MW-16D** (Benzene, Tetrachloroethene), and *nature and extent wells* ***MW-19D*** (Tetrachloroehene), ***MW-21*** (Benzene, Chromium) show exceedance of 2L levels for the November 21st-22nd sampling event.

These exceedances result from historic landfill use. The landfill is now capped and closed. As reported in previous reports, S&ME has reasonably estimated the limits of waste, revised the compliance boundary and determined that some of the existing monitoring wells are inappropriately placed too close to the edge of the buried waste and should be removed from the program. The monitoring wells that are no longer sampled and have therefore been removed from the compliance networks are: MW-1, MW-5, MW-8, MW-10, MW-11, MW-12, MW-14, and MW-15. The nature and extent wells, after conversation with Elizabeth Werner, are being sampled to discern the development of significant trends but are not included in the compliance networks at this time.

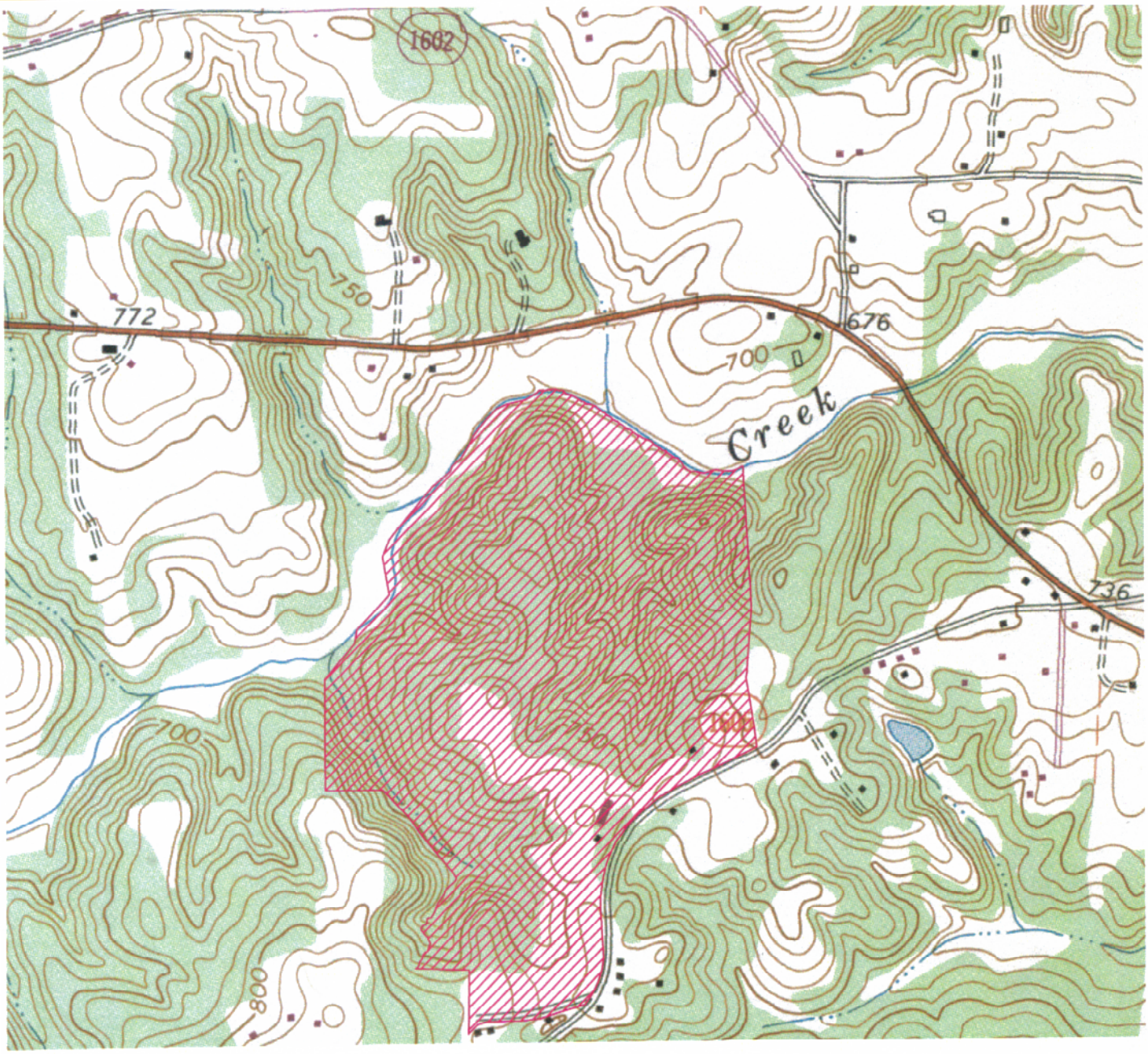
Per review and approval of Water Quality Monitor Plan Modification (Doc ID #15247), MW-8A was installed to replace MW-8. MW-8A results were included in the C&D Detection Summary Table. Copies of the Water Quality Monitor Plan Modification and Ms. Werner's letter of approval are included as attachments to this summary.

If you should have any questions, do not hesitate to contact me.

Sincerely,
Grey Engineering, Inc

John C. Grey, PE
Cc: Mr. James J. Stockert, Davie County Deputy Manager
Mr. Ed Henriques, S&ME, Environmental Department Manager

P.O. Box 9 • Mocksville, NC 27028 • Phone: (336) 751-2110 • Fax: (336) 751-6348 • www.greyengineering.com



MOCKSVILLE QUADRANGLE
NORTH CAROLINA
USGS 7.5 MINUTE TOPOGRAPHIC SERES
1969

0 1000 2000 3000

SCALE: 1"=1000' CONTOURS AT 2'

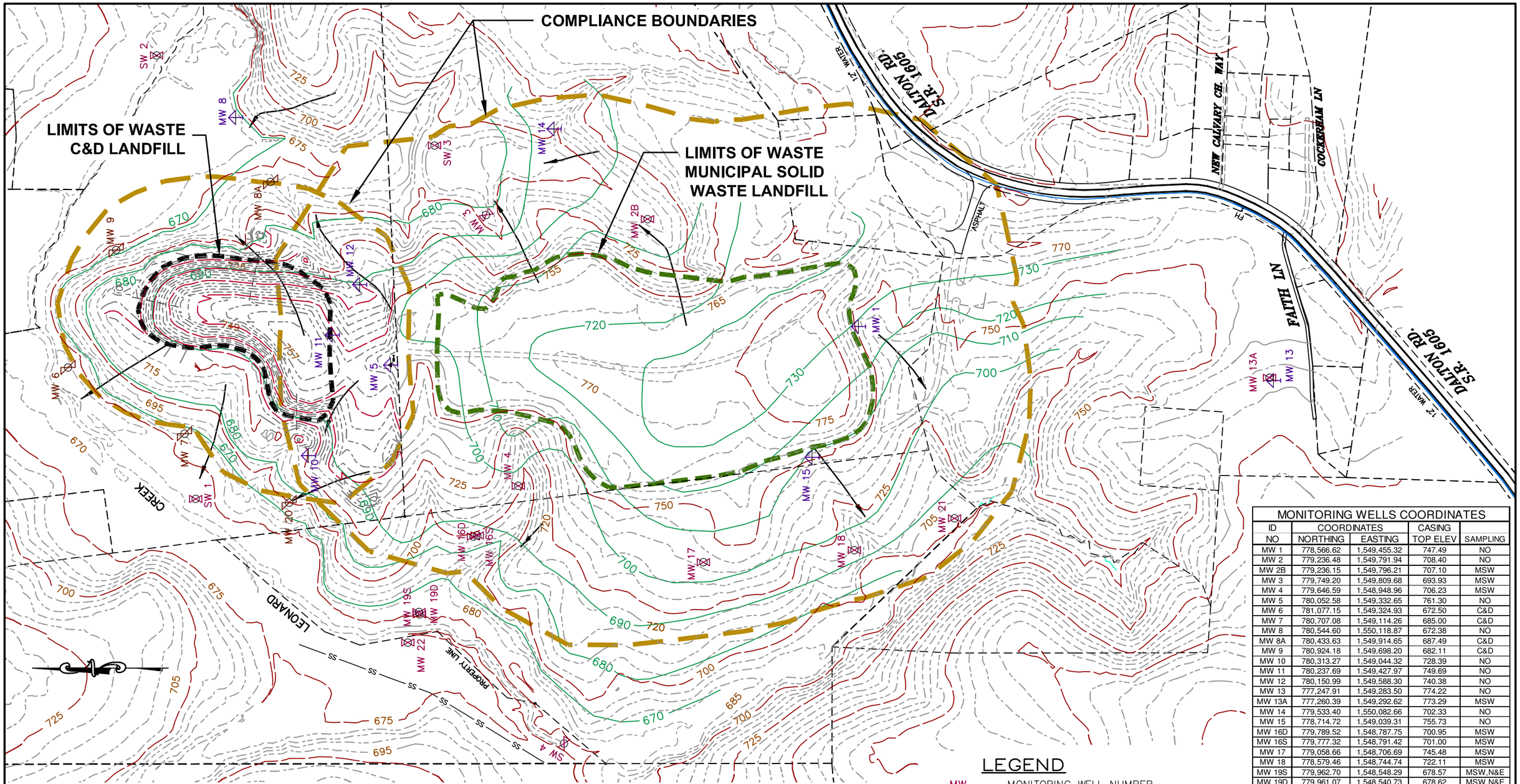
GREY ENGINEERING, INC.
Civil Design and Surveying
P.O. Box 9 Mocksville, N.C. 27028
greyengineering.com (336)751-2110

DRAWN BY: C. DAVIDSON
DESIGN BY: C. DAVIDSON
PROJ. NO.: 202.019
DATE: 06-22-04

DAVIE COUNTY LANDFILL

MOCKSVILLE, NORTH CAROLINA
SITE LOCATION MAP

SHEET 1 OF 1



MONITORING WELLS COORDINATES				
ID	COORDINATES		CASING	
NO	NORTHING	EASTING	TOP ELEV	SAMPLING
MW 1	778,566.62	1,549,455.32	747.49	NO
MW 2	779,236.48	1,549,791.94	708.40	NO
MW 2B	779,236.15	1,549,796.21	707.10	MSW
MW 3	779,749.20	1,549,809.68	693.93	MSW
MW 4	779,646.59	1,548,948.96	706.23	MSW
MW 5	780,052.58	1,549,332.65	761.30	NO
MW 6	781,077.15	1,549,324.93	672.50	C&D
MW 7	780,707.08	1,549,114.26	685.00	C&D
MW 8	780,544.60	1,550,118.87	672.38	NO
MW 8A	780,433.63	1,549,914.65	687.49	C&D
MW 9	780,924.18	1,549,698.20	682.11	C&D
MW 10	780,313.27	1,549,044.32	728.39	NO
MW 11	780,237.69	1,549,427.97	749.69	NO
MW 12	780,150.99	1,549,588.30	740.38	NO
MW 13	777,247.91	1,549,283.50	774.22	NO
MW 13A	777,260.39	1,549,292.62	773.29	MSW
MW 14	779,533.40	1,550,082.66	702.33	NO
MW 15	778,714.72	1,549,039.31	755.73	NO
MW 16D	779,789.52	1,548,787.75	700.95	MSW
MW 16S	779,777.32	1,548,791.42	701.00	MSW
MW 17	779,058.66	1,548,706.69	745.48	MSW
MW 18	778,579.46	1,548,744.74	722.11	MSW
MW 19S	779,962.70	1,548,548.29	678.57	MSW,N&E
MW 19D	779,961.07	1,548,540.73	678.62	MSW,N&E
MW 20	780,374.89	1,548,895.47	703.05	C&D,N&E
MW 21	778,260.86	1,548,845.74	704.55	MSW,N&E
MW 22	779,998.25	1,548,451.21	673.83	MSW,N&E
SW 1	780,671.78	1,548,907.64		NO
SW 2	780,795.77	1,550,316.07		NO
SW 3	779,912.71	1,550,030.14		NO
SW 4	779,501.70	1,548,130.73		NO

GENERAL NOTES:

1. EXISTING WELL NO'S 1 THROUGH 15, SW1 THROUGH SW4, ORIGINALLY FROM KUHN CONSTRUCTION SURVEYS, DAVIE COUNTY LANDFILL SURVEY, JOB 089-L, DWG 1997-4+; 10-97. ELEVATION ADJUSTED TO GEOID 2009.
2. EXISTING WELL NO'S 16S, 16D, 17, AND 18 SURVEYED BY GREY ENGINEERING, 12/11/03.
3. EXISTING WELL NO'S 8A, 19S, 19D, 20, 21 AND 18 SURVEYED BY GREY ENGINEERING IN 2009 THROUGH 2012.
4. TOPOGRAPHY AND ROAD LOCATIONS ARE APPROXIMATE. TOPOGRAPHY FROM MOCKSVILLE NC QUADRANGLE; USGS 7.5 MINUTE TOPOGRAPHIC SERIES, 1994.
5. NORTH IS BASED ON NATIONAL GEODETIC SURVEY 'NORTH CAROLINA GEOID 2009'.
6. ELEVATIONS SHOWN AT TIME OF SAMPLING

\202075ge\Pln geoid12\Well Loc

LEGEND

MW	MONITORING WELL NUMBER
SW	SURFACE WATER NUMBER
740	TOPOGRAPHIC CONTOUR LINE
680	GROUNDWATER CONTOUR LINE
	GROUNDWATER FLOW DIRECTION
MSW	MSW SAMPLING
C&D	C&D SAMPLING
NO	NOT SAMPLED
N&E	NATURE & EXTENT

0 300 600 900

SCALE: 1"=300' CONTOURS AT 10'

DAVIE COUNTY LANDFILL
MOCKSVILLE, NORTH CAROLINA

SAMPLE LOCATIONS/GROUNDWATER CONTOUR MAP
JAN 2012

GREY ENGINEERING, INC.
greyengineering.com Mocksville, N.C. (336)751-2110

SHEET: 1 of 1

GROUNDWATER SAMPLING FIELD DATA

Location:	Davie County Landfill	Purge Date:	Monday, November 21, 2011
Project No.:	1584-03-109	Purge Time:	
Source Well:	3001 MW-2	Sample Date:	Monday, November 21, 2011
		Sample Time:	1250
Locked?.	Yes: ____ No: x	Weather:	Cloudy
Sampled By.	Mike Cook	Air Temp:	65 *F

Water Level & Well Data

Depth to water from measuring point:	6.78	feet
Depth to well bottom from measuring point:	22.10	feet
Height of water column:	15.32	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Peristaltic Pump

Sample Method: Peristaltic Pump

Purge Rate: 200.0 ml/min

Control Settings: On: ____ sec; Off: ____ sec; Pressure: ____ psi

Purge Time

Start ____ Stop ____

Sample Collection Time

Start ____ Stop ____

Volume of water in well

2" well:

height: 15.32 x .163 = 2.49716

Volume of water removed: 7.5 gallons ____ liters x

Was well purged dry: Yes ____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1220	11/21/2011	17.00	6.49	1128.00			1.00	
1225	11/21/2011	16.40	6.48	1162.00			1.00	
1230	11/21/2011	16.50	6.44	1150.00			1.00	
1240	11/21/2011	16.50	6.45	1148.00			1.00	
1245	11/21/2011	16.50	6.41	1128.00			1.00	

Final Readings	1245	11/21/2011	16.50	6.41	1128.00			1.00	

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GROUNDWATER SAMPLING FIELD DATA

Location: Davie County Landfill
Project No.: 1584-03-109
Source Well: 3001 MW-3

Locked?: Yes: x No: ____
Sampled By: Mike Cook

Purge Date: Monday, November 21, 2011
Purge Time:
Sample Date: Monday, November 21, 2011
Sample Time: 930
Weather: Cloudy
Air Temp: 70 *F

Water Level & Well Data

Depth to water from measuring point: 13.31 feet
Depth to well bottom from measuring point: 36.75 feet
Height of water column: 23.44 feet
Measuring point: Top of Casing

Well Purging & Sample Collection

Purge Method: Peristaltic Pump
Sample Method: Peristaltic Pump
Purge Rate: 200 ml/min
Control Settings: On: ____ sec.
Off: ____ sec.
Pressure: ____ psi

Purge Time
Start ____ Stop ____
Sample Collection Time
Start ____ Stop ____

Volume of water in well
2" well:
height: 23.44 x .163 = 3.82072

Volume of water removed: 6.0 gallons ____ liters x

Was well purged dry: Yes ____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
905	11/21/2011	15.60	6.47	966.00			1.00	
910	11/21/2011	16.00	6.61	952.00			1.00	
915	11/21/2011	15.60	6.40	1070.00			1.00	
920	11/21/2011	15.60	6.36	1115.00			1.00	
925	11/21/2011	15.60	6.35	1158.00			1.00	

Final Readings	925	11/21/2011	15.60	6.35	1158.00			1.00	
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GROUNDWATER SAMPLING FIELD DATA

Location:	Davie County Landfill	Purge Date:	Monday, November 21, 2011
Project No.:	1584-03-109	Purge Time:	
Source Well:	3001 MW-4	Sample Date:	Monday, November 21, 2011
		Sample Time:	1605
Locked?:	Yes: x No:	Weather:	Cloudy
Sampled By:	Mike Cook	Air Temp:	65 *F

Water Level & Well Data

Depth to water from measuring point:	11.65	feet
Depth to well bottom from measuring point:	30.30	feet
Height of water column:	18.65	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Peristaltic Pump

Sample Method: Peristaltic Pump

Purge Rate: 200 ml/min

Control Settings: On: _____ sec.
Off: _____ sec.
Pressure: _____ psi

Purge Time

Start _____ Stop _____

Sample Collection Time

Start _____ Stop _____

Volume of water in well

2" well:

height: 18.65 x .163 = 3.03995

Volume of water removed: 6.0 gallons _____ liters x

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1545	11/21/2011	17.60	6.04	868.00				
1550	11/21/2011	15.90	6.21	888.00				
1555	11/21/2011	16.20	6.22	882.00				
1600	11/21/2011	16.00	6.23	888.00				
1605	11/21/2011	16.20	6.22	887.00				

Final Readings	1605	11/21/2011	16.20	6.22	887.00			1.00	

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GROUNDWATER SAMPLING FIELD DATA

Location: Davie County Landfill
Project No : 1584-03-109
Source Well: 3003 MW-6

Locked?: Yes: x No: ____
Sampled By: Mike Cook

Purge Date: Monday, November 21, 2011
Purge Time: ____
Sample Date: Monday, November 21, 2011
Sample Time: 1450
Weather: Cloudy
Air Temp: 65 *F

Water Level & Well Data

Depth to water from measuring point: 7.38 feet
Depth to well bottom from measuring point: 15.35 feet
Height of water column: 7.97 feet
Measuring point: Top of Casing

Well Purging & Sample Collection

Purge Method: Peristaltic Pump
Sample Method: Peristaltic Pump
Purge Rate: 200 ml/min
Control Settings: On: ____ sec.
Off: ____ sec.
Pressure: ____ psi

Purge Time
Start ____ Stop ____
Sample Collection Time
Start ____ Stop ____

Volume of water in well
2" well:
height: 7.97 x .163 = 1.29911

Volume of water removed: 6.0 gallons ____ liters x

Was well purged dry: Yes ____ No x

Note: Rinsed out flow thru cell between 1530 and 1535 readings.

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O	*Turbidity	DTW
1425	11/21/2011	16.00	6.45	173.00				
1430	11/21/2011	15.40	6.31	173.00				
1435	11/21/2011	15.40	6.31	171.00				
1440	11/21/2011	15.30	6.31	171.00				
1445	11/21/2011	15.30	6.30	175.00				

Final Readings									
	1445	11/21/2011	15.30	6.30	175.00			1.00	

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GROUNDWATER SAMPLING FIELD DATA

Location:	Davie County Landfill	Purge Date:	Monday, November 21, 2011
Project No.:	1584-03-109	Purge Time:	
Source Well:	3003 MW-7	Sample Date:	Monday, November 21, 2011
		Sample Time:	1340
Locked?:	Yes: x No:	Weather:	Cloudy
Sampled By:	Mike Cook	Air Temp:	65 *F

Water Level & Well Data

Depth to water from measuring point:	17.93	feet
Depth to well bottom from measuring point:	20.67	feet
Height of water column:	2.74	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Peristaltic Pump

Sample Method: Peristaltic Pump

Purge Rate: 200 ml/min

Control Settings: On: ____ sec.
Off: ____ sec.
Pressure: ____ psi

Purge Time
Start ____ Stop ____

Sample Collection Time
Start ____ Stop ____

Volume of water in well

2" well:

height: 2.74 x .163 = 0.44662

Volume of water removed: 1.3 gallons ____ liters x

Was well purged dry: Yes ____ No x

Field Analyses

*Stabilization Parameters

	Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
Final Readings	1340	11/21/2011	24.10	6.68	88.60			1.00	

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GROUNDWATER SAMPLING FIELD DATA

Location: Davie County Landfill
Project No.: 1584-03-109
Source Well: 3003 MW-8a

Locked?: Yes: x No: ____
Sampled By: Mike Cook

Purge Date: Monday, November 21, 2011
Purge Time: ____
Sample Date: Monday, November 21, 2011
Sample Time: ____
Weather: Cloudy
Air Temp: 65 *F

Water Level & Well Data

Depth to water from measuring point: 19.16 feet
Depth to well bottom from measuring point: 32.91 feet
Height of water column: 13.75 feet
Measuring point: Top of Casing

Well Purging & Sample Collection

Purge Method: Whaler Pump
Sample Method: Whaler Pump
Purge Rate: 0.25 gpm
Control Settings: On: ____ sec.
Off: ____ sec.
Pressure: ____ psi

Purge Time
Start ____ Stop ____
Sample Collection Time
Start ____ Stop ____

Volume of water in well
2" well:
height: 13.75 x .163 = 2.24125

Volume of water removed: 6.0 gallons x liters ____

Was well purged dry: Yes ____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1028	11/21/2011	14.90	6.88	252.00				
1032	11/21/2011	15.10	6.60	217.00				
1036	11/21/2011	15.20	6.37	218.00				
1040	11/21/2011	15.00	6.30	213.00				
1044	11/21/2011	15.00	6.30	213.00				

Final Readings	1044	11/21/2011	15.00	6.30	213.00			1.00	

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GROUNDWATER SAMPLING FIELD DATA

Location:	Davie County Landfill	Purge Date:	Monday, November 21, 2011
Project No.:	1584-03-109	Purge Time:	
Source Well:	3003 MW-9	Sample Date:	Monday, November 21, 2011
		Sample Time:	1530
Locked?:	Yes: x No:	Weather:	Cloudy
Sampled By:	Mike Cook	Air Temp:	65 *F

Water Level & Well Data

Depth to water from measuring point:	14.80	feet
Depth to well bottom from measuring point:	17.55	feet
Height of water column:	2.75	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Peristaltic Pump

Sample Method: Peristaltic Pump

Purge Rate: 100 ml/min

Control Settings: On: _____ sec.

Off: _____ sec

Pressure: _____ psi

Purge Time

Start _____ Stop _____

Sample Collection Time

Start _____ Stop _____

Volume of water in well

2" well.

height: 2.75 x .163 = 0.44825

Volume of water removed: 1.5 gallons _____ liters x

Was well purged dry: Yes x No _____

Field Analyses

*Stabilization Parameters

	Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
Final Readings	1530	11/21/2011	16.60	6.00	123 70 u S			2 00	

GROUNDWATER SAMPLING FIELD DATA

Location:	Davie County Landfill	Purge Date:	Monday, November 21, 2011
Project No.:	1584-03-109	Purge Time:	
Source Well:	3001 MW-13a	Sample Date:	Monday, November 21, 2011
		Sample Time:	1245
Locked?:	Yes: x No:	Weather:	Cloudy
Sampled By:	Gary Simcox	Air Temp:	70 *F

Water Level & Well Data

Depth to water from measuring point:	36.89	feet
Depth to well bottom from measuring point:	50.10	feet
Height of water column:	13.21	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Whaler Pump

Sample Method: Whaler Pump

Purge Rate: 0.5 gpm

Control Settings: On: _____ sec.

Off: _____ sec.

Pressure: _____ psi

Purge Time

Start 1220 Stop 1240

Sample Collection Time

Start 1240 Stop 1245

Volume of water in well

2" well:

height: 13.21 x .163 = 2.15323

Volume of water removed: 6.5 gallons x liters _____

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1225	11/21/2011	17.80	7.78	228.00			2.00	
1230	11/21/2011	17.20	7.47	211.00			2.00	
1235	11/21/2011	17.20	7.04	182.50			2.00	

Final Readings	1235	11/21/2011	17.20	7.04	182.50			2.00	
			*C	units	u S				

GROUNDWATER SAMPLING FIELD DATA

Location: Davie County Landfill
Project No.: 1584-03-109
Source Well: 3001 MW-16s

Locked?: Yes: x No: _____
Sampled By: Gary Simcox

Purge Date: Monday, November 21, 2011
Purge Time: _____
Sample Date: Monday, November 21, 2011
Sample Time: 1420
Weather: Cloudy
Air Temp: 65 *F

Water Level & Well Data

Depth to water from measuring point: 15.34 feet
Depth to well bottom from measuring point: 25.65 feet
Height of water column: 10.31 feet
Measuring point: Top of Casing

Well Purging & Sample Collection

Purge Method: Whaler Pump
Sample Method: Whaler Pump
Purge Rate: 0.5 gpm
Control Settings: On: _____ sec.
Off: _____ sec.
Pressure: _____ psi

Purge Time
Start 1400 Stop 1415
Sample Collection Time
Start 1415 Stop 1420

Volume of water in well
2" well:
height: 10.31 x .163 = 1.68053

Volume of water removed: 5.0 gallons x liters _____

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1405	11/21/2011	15.60	6.24	138.50			2.00	
1410	11/21/2011	15.90	6.14	132.40			2.00	
1415	11/21/2011	15.90	6.10	131.70			1.00	

Final Readings	1415	11/21/2011	15.90	6.10	131.70			1.00	
			*C	unit	u S				

GROUNDWATER SAMPLING FIELD DATA

Location:	Davie County Landfill	Purge Date:	Monday, November 21, 2011
Project No.:	1584-03-109	Purge Time:	
Source Well:	3001 MW-16d	Sample Date:	Monday, November 21, 2011
		Sample Time:	1600
Locked?:	Yes: x No:	Weather:	Cloudy
Sampled By:	Gary Simcox	Air Temp:	65 *F

Water Level & Well Data

Depth to water from measuring point:	15.39	feet
Depth to well bottom from measuring point:	58.65	feet
Height of water column:	43.26	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Whaler Pump

Sample Method: Whaler Pump

Purge Rate: 0.5 gpm

Control Settings: On: ____ sec.
Off: ____ sec.
Pressure: ____ psi

Purge Time

Start 1515 Stop 1555

Sample Collection Time

Start 1555 Stop 1600

Volume of water in well

2" well:

height: 43.26 x .163 = 7.05138

Volume of water removed: 21.2 gallons x liters ____

Was well purged dry: Yes ____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1525	11/21/2011	15.30	6.13	460.00			1.00	
1535	11/21/2011	15.00	6.15	473.00			1.00	
1545	11/21/2011	15.00	6.21	474.00			1.00	
1555	11/21/2011	14.90	6.16	474.00			1.00	

Final Readings	1555	11/21/2011	14.90	6.16	474.00			1.00	
			*C	units	u S				

GROUNDWATER SAMPLING FIELD DATA

Location:	Davie County Landfill	Purge Date:	Monday, November 21, 2011
Project No.:	1584-03-109	Purge Time:	
Source Well:	3001 MW-17	Sample Date:	Monday, November 21, 2011
		Sample Time:	1440
Locked?:	Yes: x No:	Weather:	Cloudy
Sampled By:	Gary Simcox	Air Temp:	65 *F

Water Level & Well Data

Depth to water from measuring point:	53.11	feet
Depth to well bottom from measuring point:	61.40	feet
Height of water column.	8.29	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Whaler Pump

Sample Method: Whaler Pump

Purge Rate: 0.25 gpm

Control Settings: On: ____ sec.
Off: ____ sec.
Pressure: ____ psi

Purge Time

Start 1415 Stop 1435

Sample Collection Time

Start 1435 Stop 1440

Volume of water in well

2" well:

height: 8.29 x .163 = 1.35127

Volume of water removed: 4.1 gallons x liters ____

Was well purged dry: Yes ____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1420	11/21/2011	17.20	6.24	140.20			3.00	
1425	11/21/2011	17.40	6.10	139.40			2.00	
1435	11/21/2011	17.60	6.04	138.00			1.00	
Final Readings	1435	11/21/2011	17.60	6.04	138.00			1.00	
			*C	units	u S				

GROUNDWATER SAMPLING FIELD DATA

Location: Davie County Landfill
Project No.: 1584-03-109
Source Well: 3001 MW-18

Locked?: Yes: x No: _____
Sampled By: Gary Simcox

Purge Date: Monday, November 21, 2011
Purge Time: _____
Sample Date: Monday, November 21, 2011
Sample Time: 1335
Weather: Cloudy
Air Temp: 65 *F

Water Level & Well Data

Depth to water from measuring point: 27.85 feet
Depth to well bottom from measuring point: 41.10 feet
Height of water column: 13.25 feet
Measuring point: Top of Casing

Well Purging & Sample Collection

Purge Method: Whaler Pump
Sample Method: Whaler Pump
Purge Rate: 0.5 gpm
Control Settings: On: _____ sec.
Off: _____ sec.
Pressure: _____ psi

Purge Time
Start 1310 Stop 1330

Sample Collection Time
Start 1330 Stop 1335

Volume of water in well
2" well:
height: 13.25 x .163 = 2.15975

Volume of water removed: 6.5 gallons x liters _____

Was well purged dry: Yes _____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1315	11/21/11	15.60	6.79	106.10			1.00	
1320	11/21/11	15.90	6.20	102.70			1.00	
1325	11/21/11	16.20	6.12	102.50			1.00	

Final Readings

1325	11/21/11	16.20	6.12	102.50			1.00	
		*C	units	u S				

GROUNDWATER SAMPLING FIELD DATA

Location: Davie County Landfill
Project No.: 1584-03-109
Source Well: 3001 MW-19s

Locked?: Yes: x No: ____
Sampled By: Gary Simcox

Purge Date: Monday, November 21, 2011
Purge Time: ____
Sample Date: Monday, November 21, 2011
Sample Time: 1020
Weather: Cloudy
Air Temp: 65 *F

Water Level & Well Data

Depth to water from measuring point: 7.46 feet
Depth to well bottom from measuring point: 17.40 feet
Height of water column: 9.94 feet
Measuring point: Top of Casing

Well Purging & Sample Collection

Purge Method: Whaler Pump
Sample Method: Whaler Pump
Purge Rate: 0.5 gpm
Control Settings: On: ____ sec.
Off: ____ sec.
Pressure: ____ psi

Purge Time
Start 950 Stop 1015
Sample Collection Time
Start 1015 Stop 1020

Volume of water in well
2" well:
height: 9.94 x .163 = 1.62022

Volume of water removed: 4.9 gallons x liters ____

Was well purged dry: Yes ____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
955	11/21/2011	16.70	6.68	171.80			3.00	
1005	11/21/2011	16.50	6.49	207.00			1.00	
1015	11/21/2011	16.50	6.47	205.00			1.00	

Final Readings									
	1015	11/21/2011	16.50	6.47	205.00			1.00	
			*C	units	u S				

GROUNDWATER SAMPLING FIELD DATA

Location:	Davie County Landfill	Purge Date:	Monday, November 21, 2011
Project No.:	1584-03-109	Purge Time:	
Source Well.	3001 MW-19d	Sample Date:	Monday, November 21, 2011
		Sample Time:	940
Locked?:	Yes: x No.	Weather:	Cloudy
Sampled By.	Gary Simcox	Air Temp:	65 *F

Water Level & Well Data

Depth to water from measuring point:	5.81	feet
Depth to well bottom from measuring point:	73.40	feet
Height of water column:	67.59	feet
Measuring point:	Top of Casing	

Well Purging & Sample Collection

Purge Method: Whaler Pump

Sample Method: Whaler Pump

Purge Rate: 1.0 gpm

Control Settings: On: ____ sec.

Off: ____ sec

Pressure: ____ psi

Purge Time

Start 900 Stop 935

Sample Collection Time

Start 935 Stop 940

Volume of water in well

2" well.

height: 67.59 x .163 = 11.01717

Volume of water removed: 33.1 gallons x liters ____

Was well purged dry: Yes ____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
905	11/21/2011	16.00	6.54	480.00			1.00	
915	11/21/2011	15.70	6.55	436.00			1.00	
925	11/21/2011	15.50	6.50	440.00			1.00	
935	11/21/2011	15.40	6.48	438.00			1.00	
Final Readings	935	11/21/2011	15.40	6.48	438.000			1.00	
			*C	units	u S				

GROUNDWATER SAMPLING FIELD DATA

Location: Davie County Landfill
Project No.: 1584-03-109
Source Well: 3003 MW-20

Locked?: Yes: x No: ____
Sampled By: Gary Simcox

Purge Date: Monday, November 21, 2011
Purge Time: ____
Sample Date: Monday, November 21, 2011
Sample Time: 1710
Weather: Cloudy
Air Temp: 65 *F

Water Level & Well Data

Depth to water from measuring point: 34.43 feet
Depth to well bottom from measuring point: 50.40 feet
Height of water column: 15.97 feet
Measuring point: Top of Casing

Well Purging & Sample Collection

Purge Method: Whaler Pump
Sample Method: Whaler Pump
Purge Rate: 0.5 gpm
Control Settings: On: ____ sec.
Off: ____ sec.
Pressure: ____ psi

Purge Time
Start 1640 Stop 1705
Sample Collection Time
Start 1705 Stop 1710

Volume of water in well
2" well:
height: 15.97 x .163 = 2.60311

Volume of water removed: 7.8 gallons x liters ____

Was well purged dry: Yes ____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1645	11/21/2011	15.60	6.40	209.000			2.00	
1650	1/21/2011	14.90	6,27	221.000			1.00	
1655	11/21/2011	15.00	6.30	239.000			1.00	
1700	11/21/2011	14.90	6.29	241.000				

Final Readings	1700	11/21/2011	14.90	6.29	241.000			1.00	
					u S				

GROUNDWATER SAMPLING FIELD DATA

Location: Davie County Landfill
Project No.: 1584-03-109
Source Well: 3001 MW-21

Locked?: Yes: x No: ____
Sampled By: Gary Simcox

Purge Date: Monday, November 21, 2011
Purge Time: ____
Sample Date: Monday, November 21, 2011
Sample Time: 1105
Weather: Cloudy
Air Temp: 65 *F

Water Level & Well Data

Depth to water from measuring point: 4.46 feet
Depth to well bottom from measuring point: 22.10 feet
Height of water column: 17.64 feet
Measuring point: Top of Casing

Well Purging & Sample Collection

Purge Method: Whaler Pump
Sample Method: Whaler Pump
Purge Rate: 0.5 gpm
Control Settings: On: ____ sec.
Off: ____ sec.
Pressure: ____ psi

Purge Time
Start 1040 Stop 1100
Sample Collection Time
Start 1100 Stop 1105

Note: Duplicate taken here @ 0700hrs.

Volume of water in well
2" well:
height: 17.64 x .163 = 2.87532

Volume of water removed: 8.6 gallons x liters ____

Was well purged dry: Yes ____ No x

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
1045	11/21/2011	16.20	6.55	735.00			2.00	
1050	11/21/2011	16.20	6.72	715.00			2.00	
1055	11/21/2011	16.60	6.84	732.00			2.00	

Final Readings	1055	11/21/2011	16.60	6.84	732.00			2.00	
			*C	units	u S				

GROUNDWATER SAMPLING FIELD DATA

Location: Davie County Landfill
Project No.: 1584-03-109
Source Well: 3001 SW-1

Locked?: Yes: _____ No: _____
Sampled By: Ed Henriques

Purge Date: Monday, November 21, 2011
Purge Time: _____
Sample Date: Monday, November 21, 2011
Sample Time: 1304
Weather: Cloudy
Air Temp: 65 *F

Water Level & Well Data

Depth to water from measuring point: _____ feet
Depth to well bottom from measuring point: _____ feet
Height of water column: _____ feet
Measuring point: _____

Well Purging & Sample Collection

Purge Method _____
Sample Method Grab
Purge Rate _____ ml/min
Control Settings On: _____ sec.
Off: _____ sec.
Pressure. _____ psi

Purge Time
Start _____ Stop _____
Sample Collection Time
Start _____ Stop _____

Volume of water in well
2" well:
height: 0 x .163 = 0

Volume of water removed _____ gallons _____ liters _____

Was well purged dry Yes _____ No _____

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW

GROUNDWATER SAMPLING FIELD DATA

Location: Davie County Landfill
Project No.: 1584-03-109
Source Well: 3001 SW-2

Locked?: Yes: _____ No: _____
Sampled By: Ed Henriques

Purge Date: Monday, November 21, 2011
Purge Time: _____
Sample Date: Monday, November 21, 2011
Sample Time: 1311
Weather: Cloudy
Air Temp: 65 *F

Water Level & Well Data

Depth to water from measuring point: _____ feet
Depth to well bottom from measuring point: _____ feet
Height of water column: _____ feet
Measuring point: _____

Well Purging & Sample Collection

Purge Method _____
Sample Method Grab
Purge Rate _____ ml/min
Control Settings On: _____ sec.
Off: _____ sec.
Pressure: _____ psi

Purge Time
Start _____ Stop _____
Sample Collection Time
Start _____ Stop _____

Volume of water in well
2" well:
height: 0 x .163 = 0

Volume of water removed _____ gallons _____ liters _____

Was well purged dry Yes _____ No _____

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
Final Readings								

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GROUNDWATER SAMPLING FIELD DATA

Location: Davie County Landfill
Project No.: 1584-03-109
Source Well: 3001SW-3

Locked?: Yes: _____ No: _____
Sampled By: Ed Henriques

Purge Date: Monday, November 21, 2011
Purge Time: _____
Sample Date: Monday, November 21, 2011
Sample Time: 1411
Weather: Cloudy
Air Temp: 65 *F

Water Level & Well Data

Depth to water from measuring point: _____ feet
Depth to well bottom from measuring point: _____ feet
Height of water column: _____ feet
Measuring point: _____

Well Purging & Sample Collection

Purge Method _____
Sample Method Grab
Purge Rate _____ ml/min
Control Settings On: _____ sec
Off: _____ sec.
Pressure: _____ psi

Purge Time
Start _____ Stop _____
Sample Collection Time
Start _____ Stop _____

Volume of water in well
2" well:
height: 0 x .163 = 0

Volume of water removed _____ gallons _____ liters _____

Was well purged dry Yes _____ No _____

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW

GROUNDWATER SAMPLING FIELD DATA

Location: Davie County Landfill
Project No.: 1584-03-109
Source Well: 3001 SW-4

Locked?: Yes: _____ No: _____
Sampled By: Ed Henriques

Purge Date: Monday, November 21, 2011
Purge Time: _____
Sample Date: Monday, November 21, 2011
Sample Time: 1248
Weather: Cloudy
Air Temp: 65 *F

Water Level & Well Data

Depth to water from measuring point: _____ feet
Depth to well bottom from measuring point: _____ feet
Height of water column: _____ feet
Measuring point: _____

Well Purging & Sample Collection

Purge Method _____
Sample Method Grab
Purge Rate _____ ml/min
Control Settings On: _____ sec.
Off: _____ sec.
Pressure: _____ psi

Purge Time
Start _____ Stop _____
Sample Collection Time
Start _____ Stop _____

Volume of water in well
2" well:
height: 0 x .163 = 0

Volume of water removed _____ gallons _____ liters _____

Was well purged dry Yes _____ No _____

Field Analyses

*Stabilization Parameters

Time	Date	Temp	pH	Conductivity	*ORP	*D.O.	*Turbidity	DTW
Final Readings								

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

Thursday, December 8, 2011

Grey Engineering (GR009)

Attn: Joy Howard

254 West Water Street

Mocksville, NC 27028

RE: Laboratory Results for
Project Number: 1584-03-109, Project Name/Desc: Davie County Landfill - SW
ENCO Workorder: C114239

Dear Joy Howard,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Tuesday, November 22, 2011.

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,

Chuck Smith

Project Manager

Enclosure(s)

The total number of pages in this report, including this page is 24.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: 3001-SW1 **Lab ID: C114239-01** **Sampled: 11/21/11 13:04** **Received: 11/22/11 13:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	05/19/12	11/30/11 08:37	12/2/2011 11:25
EPA 8260B	12/05/11	11/29/11 12:41	11/30/2011 07:55

Client ID: 3001-SW2 **Lab ID: C114239-02** **Sampled: 11/21/11 13:11** **Received: 11/22/11 13:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	05/19/12	11/30/11 08:37	12/2/2011 11:27
EPA 7470A	12/19/11	12/07/11 13:20	12/7/2011 13:20
EPA 8260B	12/05/11	11/29/11 12:41	11/30/2011 08:25

Client ID: 3001-SW3 **Lab ID: C114239-03** **Sampled: 11/21/11 14:11** **Received: 11/22/11 13:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	05/19/12	11/30/11 08:37	12/2/2011 11:29
EPA 7470A	12/19/11	12/07/11 14:05	12/7/2011 14:05
EPA 8260B	12/05/11	11/29/11 12:41	11/30/2011 08:53

Client ID: 3001-SW4 **Lab ID: C114239-04** **Sampled: 11/21/11 12:48** **Received: 11/22/11 13:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	05/19/12	11/30/11 08:37	12/2/2011 11:30
EPA 7470A	12/19/11	12/07/11 14:07	12/7/2011 14:07
EPA 8260B	12/05/11	11/29/11 12:41	11/30/2011 09:22

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NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID: 3001-SW1 **Lab ID: C114239-01**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	27.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	

Client ID: 3001-SW2 **Lab ID: C114239-02**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	28.9	J	1	1.00	10.0	100	ug/L	EPA 6010C	

Client ID: 3001-SW3 **Lab ID: C114239-03**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	52.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Chromium - Total	3.85	J	1	1.00	10.0	10	ug/L	EPA 6010C	

Client ID: 3001-SW4 **Lab ID: C114239-04**

Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Barium - Total	27.6	J	1	1.00	10.0	100	ug/L	EPA 6010C	

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ANALYTICAL RESULTS

Description: 3001-SW1 **Lab Sample ID:** C114239-01 **Received:** 11/22/11 13:30

Matrix: Surface Water **Sampled:** 11/21/11 13:04 **Work Order:** C114239

Project: Davie County Landfill - SW **Sampled By:** Gary Simcox

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] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	11/30/11 07:55	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	11/30/11 07:55	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	11/30/11 07:55	JKG	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	11/30/11 07:55	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/30/11 07:55	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	11/30/11 07:55	JKG	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/30/11 07:55	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/30/11 07:55	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/30/11 07:55	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/30/11 07:55	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/30/11 07:55	JKG	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	11/30/11 07:55	JKG	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	11/30/11 07:55	JKG	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	11/30/11 07:55	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/30/11 07:55	JKG	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	11/30/11 07:55	JKG	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	11/30/11 07:55	JKG	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	11/30/11 07:55	JKG	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	11/30/11 07:55	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	11/30/11 07:55	JKG	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	11/30/11 07:55	JKG	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/30/11 07:55	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	1.4	U	ug/L	1	1.4	2.0	NE	EPA 8260B	11/30/11 07:55	JKG	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
o-Xylene [95-47-6] ^	0.63	U	ug/L	1	0.63	1.0	NE	EPA 8260B	11/30/11 07:55	JKG	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0	NE	EPA 8260B	11/30/11 07:55	JKG	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	11/30/11 07:55	JKG	

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Description: 3001-SW1 | **Lab Sample ID:** C114239-01 | **Received:** 11/22/11 13:30

Matrix: Surface Water | **Sampled:** 11/21/11 13:04 | **Work Order:** C114239

Project: Davie County Landfill - SW | **Sampled By:** Gary Simcox

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
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/30/11 07:55	JKG	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
Trichlorofluoromethane [75-69-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/30/11 07:55	JKG	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	11/30/11 07:55	JKG	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	11/30/11 07:55	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*51-122*	*1K29022*	*EPA 8260B*	*11/30/11 07:55*	*JKG*	
Dibromofluoromethane	*58*	*1*	*50.0*	*115 %*	*68-117*	*1K29022*	*EPA 8260B*	*11/30/11 07:55*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*102 %*	*67-127*	*1K29022*	*EPA 8260B*	*11/30/11 07:55*	*JKG*	

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Description: 3001-SW1 | **Lab Sample ID:** C114239-01 | **Received:** 11/22/11 13:30

Matrix: Surface Water | **Sampled:** 11/21/11 13:04 | **Work Order:** C114239

Project: Davie County Landfill - SW | **Sampled By:** Gary Simcox

Metals (total recoverable) 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] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	12/02/11 11:25	JDH	
Barium [7440-39-3] ^	**27.2**	J	ug/L	1	1.00	10.0	100	EPA 6010C	12/02/11 11:25	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	12/02/11 11:25	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	12/02/11 11:25	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	12/02/11 11:25	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	10	EPA 6010C	12/02/11 11:25	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	12/02/11 11:25	JDH	

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

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Description: 3001-SW2 | **Lab Sample ID:** C114239-02 | **Received:** 11/22/11 13:30

Matrix: Surface Water | **Sampled:** 11/21/11 13:11 | **Work Order:** C114239

Project: Davie County Landfill - SW | **Sampled By:** Gary Simcox

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] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	11/30/11 08:25	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/30/11 08:25	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	11/30/11 08:25	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/30/11 08:25	JKG	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	11/30/11 08:25	JKG	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	11/30/11 08:25	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	11/30/11 08:25	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/30/11 08:25	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/30/11 08:25	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	11/30/11 08:25	JKG	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	11/30/11 08:25	JKG	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	11/30/11 08:25	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	11/30/11 08:25	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/30/11 08:25	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/30/11 08:25	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/30/11 08:25	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/30/11 08:25	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/30/11 08:25	JKG	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	11/30/11 08:25	JKG	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	11/30/11 08:25	JKG	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	11/30/11 08:25	JKG	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	11/30/11 08:25	JKG	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	11/30/11 08:25	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/30/11 08:25	JKG	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	11/30/11 08:25	JKG	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	11/30/11 08:25	JKG	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	11/30/11 08:25	JKG	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	11/30/11 08:25	JKG	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/30/11 08:25	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	11/30/11 08:25	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	11/30/11 08:25	JKG	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	11/30/11 08:25	JKG	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	11/30/11 08:25	JKG	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	11/30/11 08:25	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/30/11 08:25	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	1.4	U	ug/L	1	1.4	2.0	NE	EPA 8260B	11/30/11 08:25	JKG	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/30/11 08:25	JKG	
o-Xylene [95-47-6] ^	0.63	U	ug/L	1	0.63	1.0	NE	EPA 8260B	11/30/11 08:25	JKG	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	11/30/11 08:25	JKG	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	11/30/11 08:25	JKG	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0	NE	EPA 8260B	11/30/11 08:25	JKG	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	11/30/11 08:25	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	11/30/11 08:25	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	11/30/11 08:25	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/30/11 08:25	JKG	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	11/30/11 08:25	JKG	

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Description: 3001-SW2 | **Lab Sample ID:** C114239-02 | **Received:** 11/22/11 13:30

Matrix: Surface Water | **Sampled:** 11/21/11 13:11 | **Work Order:** C114239

Project: Davie County Landfill - SW | **Sampled By:** Gary Simcox

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] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/30/11 08:25	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/30/11 08:25	JKG	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	11/30/11 08:25	JKG	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	11/30/11 08:25	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*93 %*	*51-122*	*1K29022*	*EPA 8260B*	*11/30/11 08:25*	*JKG*	
Dibromofluoromethane	*58*	*1*	*50.0*	*117 %*	*68-117*	*1K29022*	*EPA 8260B*	*11/30/11 08:25*	*JKG*	
Toluene-d8	*50*	*1*	*50.0*	*99 %*	*67-127*	*1K29022*	*EPA 8260B*	*11/30/11 08:25*	*JKG*	

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Description: 3001-SW2
Matrix: Surface Water
Project: Davie County Landfill - SW

Lab Sample ID: C114239-02
Sampled: 11/21/11 13:11
Sampled By: Gary Simcox

Received: 11/22/11 13:30
Work Order: C114239

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
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	12/07/11 13:20	KER	

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Description: 3001-SW2 | **Lab Sample ID:** C114239-02 | **Received:** 11/22/11 13:30

Matrix: Surface Water | **Sampled:** 11/21/11 13:11 | **Work Order:** C114239

Project: Davie County Landfill - SW | **Sampled By:** Gary Simcox

Metals (total recoverable) 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] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	12/02/11 11:27	JDH	
Barium [7440-39-3] ^	**28.9**	J	ug/L	1	1.00	10.0	100	EPA 6010C	12/02/11 11:27	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	12/02/11 11:27	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	12/02/11 11:27	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	12/02/11 11:27	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	10	EPA 6010C	12/02/11 11:27	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	12/02/11 11:27	JDH	

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

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Description: 3001-SW3 | **Lab Sample ID:** C114239-03 | **Received:** 11/22/11 13:30

Matrix: Surface Water | **Sampled:** 11/21/11 14:11 | **Work Order:** C114239

Project: Davie County Landfill - SW | **Sampled By:** Gary Simcox

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] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	11/30/11 08:53	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/30/11 08:53	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	11/30/11 08:53	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/30/11 08:53	JKG	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	11/30/11 08:53	JKG	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	11/30/11 08:53	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	11/30/11 08:53	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/30/11 08:53	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/30/11 08:53	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	11/30/11 08:53	JKG	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	11/30/11 08:53	JKG	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	11/30/11 08:53	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	11/30/11 08:53	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/30/11 08:53	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/30/11 08:53	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/30/11 08:53	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/30/11 08:53	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/30/11 08:53	JKG	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	11/30/11 08:53	JKG	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	11/30/11 08:53	JKG	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	11/30/11 08:53	JKG	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	11/30/11 08:53	JKG	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	11/30/11 08:53	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/30/11 08:53	JKG	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	11/30/11 08:53	JKG	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	11/30/11 08:53	JKG	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	11/30/11 08:53	JKG	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	11/30/11 08:53	JKG	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/30/11 08:53	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	11/30/11 08:53	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	11/30/11 08:53	JKG	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	11/30/11 08:53	JKG	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	11/30/11 08:53	JKG	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	11/30/11 08:53	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/30/11 08:53	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	1.4	U	ug/L	1	1.4	2.0	NE	EPA 8260B	11/30/11 08:53	JKG	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/30/11 08:53	JKG	
o-Xylene [95-47-6] ^	0.63	U	ug/L	1	0.63	1.0	NE	EPA 8260B	11/30/11 08:53	JKG	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	11/30/11 08:53	JKG	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	11/30/11 08:53	JKG	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0	NE	EPA 8260B	11/30/11 08:53	JKG	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	11/30/11 08:53	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	11/30/11 08:53	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	11/30/11 08:53	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/30/11 08:53	JKG	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	11/30/11 08:53	JKG	

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Description: 3001-SW3
Matrix: Surface Water
Project: Davie County Landfill - SW

Lab Sample ID: C114239-03
Sampled: 11/21/11 14:11
Sampled By: Gary Simcox

Received: 11/22/11 13:30
Work Order: C114239

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] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/30/11 08:53	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/30/11 08:53	JKG	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	11/30/11 08:53	JKG	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	11/30/11 08:53	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*47*	*1*	*50.0*	*94 %*	*51-122*	*1K29022*	*EPA 8260B*	*11/30/11 08:53*	*JKG*	
Dibromofluoromethane	*57*	*1*	*50.0*	*115 %*	*68-117*	*1K29022*	*EPA 8260B*	*11/30/11 08:53*	*JKG*	
Toluene-d8	*51*	*1*	*50.0*	*102 %*	*67-127*	*1K29022*	*EPA 8260B*	*11/30/11 08:53*	*JKG*	

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Description: 3001-SW3
Matrix: Surface Water
Project: Davie County Landfill - SW

Lab Sample ID: C114239-03
Sampled: 11/21/11 14:11
Sampled By: Gary Simcox

Received: 11/22/11 13:30
Work Order: C114239

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
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	12/07/11 14:05	KER	

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Description: 3001-SW3 | **Lab Sample ID:** C114239-03 | **Received:** 11/22/11 13:30

Matrix: Surface Water | **Sampled:** 11/21/11 14:11 | **Work Order:** C114239

Project: Davie County Landfill - SW | **Sampled By:** Gary Simcox

Metals (total recoverable) 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] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	12/02/11 11:29	JDH	
Barium [7440-39-3] ^	**52.7**	J	ug/L	1	1.00	10.0	100	EPA 6010C	12/02/11 11:29	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	12/02/11 11:29	JDH	
Chromium [7440-47-3] ^	**3.85**	J	ug/L	1	1.00	10.0	10	EPA 6010C	12/02/11 11:29	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	12/02/11 11:29	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	10	EPA 6010C	12/02/11 11:29	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	12/02/11 11:29	JDH	

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

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Description: 3001-SW4 | **Lab Sample ID:** C114239-04 | **Received:** 11/22/11 13:30

Matrix: Surface Water | **Sampled:** 11/21/11 12:48 | **Work Order:** C114239

Project: Davie County Landfill - SW | **Sampled By:** Gary Simcox

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] ^	0.90	U	ug/L	1	0.90	1.0	5	EPA 8260B	11/30/11 09:22	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	11/30/11 09:22	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.75	U	ug/L	1	0.75	1.0	3	EPA 8260B	11/30/11 09:22	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/30/11 09:22	JKG	
1,1-Dichloroethane [75-34-3] ^	0.080	U	ug/L	1	0.080	1.0	5	EPA 8260B	11/30/11 09:22	JKG	
1,1-Dichloroethene [75-35-4] ^	0.60	U	ug/L	1	0.60	1.0	5	EPA 8260B	11/30/11 09:22	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	11/30/11 09:22	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	11/30/11 09:22	JKG	
1,2-Dibromoethane [106-93-4] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/30/11 09:22	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.11	U	ug/L	1	0.11	1.0	5	EPA 8260B	11/30/11 09:22	JKG	
1,2-Dichloroethane [107-06-2] ^	0.47	U	ug/L	1	0.47	1.0	1	EPA 8260B	11/30/11 09:22	JKG	
1,2-Dichloropropane [78-87-5] ^	0.59	U	ug/L	1	0.59	1.0	1	EPA 8260B	11/30/11 09:22	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.79	U	ug/L	1	0.79	1.0	1	EPA 8260B	11/30/11 09:22	JKG	
2-Butanone [78-93-3] ^	1.3	U	ug/L	1	1.3	5.0	100	EPA 8260B	11/30/11 09:22	JKG	
2-Hexanone [591-78-6] ^	0.88	U	ug/L	1	0.88	5.0	50	EPA 8260B	11/30/11 09:22	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	11/30/11 09:22	JKG	
Acetone [67-64-1] ^	1.2	U	ug/L	1	1.2	5.0	100	EPA 8260B	11/30/11 09:22	JKG	
Acrylonitrile [107-13-1] ^	3.5	U	ug/L	1	3.5	10	200	EPA 8260B	11/30/11 09:22	JKG	
Benzene [71-43-2] ^	0.68	U	ug/L	1	0.68	1.0	1	EPA 8260B	11/30/11 09:22	JKG	
Bromochloromethane [74-97-5] ^	0.87	U	ug/L	1	0.87	1.0	3	EPA 8260B	11/30/11 09:22	JKG	
Bromodichloromethane [75-27-4] ^	0.75	U	ug/L	1	0.75	1.0	1	EPA 8260B	11/30/11 09:22	JKG	
Bromoform [75-25-2] ^	0.68	U	ug/L	1	0.68	1.0	3	EPA 8260B	11/30/11 09:22	JKG	
Bromomethane [74-83-9] ^	0.58	U	ug/L	1	0.58	1.0	10	EPA 8260B	11/30/11 09:22	JKG	
Carbon disulfide [75-15-0] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	11/30/11 09:22	JKG	
Carbon tetrachloride [56-23-5] ^	0.69	U	ug/L	1	0.69	1.0	1	EPA 8260B	11/30/11 09:22	JKG	
Chlorobenzene [108-90-7] ^	0.74	U	ug/L	1	0.74	1.0	3	EPA 8260B	11/30/11 09:22	JKG	
Chloroethane [75-00-3] ^	0.75	U	ug/L	1	0.75	1.0	10	EPA 8260B	11/30/11 09:22	JKG	
Chloroform [67-66-3] ^	0.70	U	ug/L	1	0.70	1.0	5	EPA 8260B	11/30/11 09:22	JKG	
Chloromethane [74-87-3] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	11/30/11 09:22	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.72	U	ug/L	1	0.72	1.0	5	EPA 8260B	11/30/11 09:22	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.075	U	ug/L	1	0.075	1.0	1	EPA 8260B	11/30/11 09:22	JKG	
Dibromochloromethane [124-48-1] ^	0.63	U	ug/L	1	0.63	1.0	3	EPA 8260B	11/30/11 09:22	JKG	
Dibromomethane [74-95-3] ^	0.90	U	ug/L	1	0.90	1.0	10	EPA 8260B	11/30/11 09:22	JKG	
Ethylbenzene [100-41-4] ^	0.62	U	ug/L	1	0.62	1.0	1	EPA 8260B	11/30/11 09:22	JKG	
Iodomethane [74-88-4] ^	1.7	U	ug/L	1	1.7	5.0	10	EPA 8260B	11/30/11 09:22	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	1.4	U	ug/L	1	1.4	2.0	NE	EPA 8260B	11/30/11 09:22	JKG	
Methylene chloride [75-09-2] ^	0.14	U	ug/L	1	0.14	1.0	1	EPA 8260B	11/30/11 09:22	JKG	
o-Xylene [95-47-6] ^	0.63	U	ug/L	1	0.63	1.0	NE	EPA 8260B	11/30/11 09:22	JKG	
Styrene [100-42-5] ^	0.053	U	ug/L	1	0.053	1.0	1	EPA 8260B	11/30/11 09:22	JKG	
Tetrachloroethene [127-18-4] ^	0.73	U	ug/L	1	0.73	1.0	1	EPA 8260B	11/30/11 09:22	JKG	
Tetrahydrofuran [109-99-9] ^	0.80	U	ug/L	1	0.80	1.0	NE	EPA 8260B	11/30/11 09:22	JKG	
Toluene [108-88-3] ^	0.85	U	ug/L	1	0.85	1.0	1	EPA 8260B	11/30/11 09:22	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.12	U	ug/L	1	0.12	1.0	5	EPA 8260B	11/30/11 09:22	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.50	U	ug/L	1	0.50	1.0	1	EPA 8260B	11/30/11 09:22	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.70	U	ug/L	1	0.70	1.0	100	EPA 8260B	11/30/11 09:22	JKG	
Trichloroethene [79-01-6] ^	0.72	U	ug/L	1	0.72	1.0	1	EPA 8260B	11/30/11 09:22	JKG	

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Description: 3001-SW4 | **Lab Sample ID:** C114239-04 | **Received:** 11/22/11 13:30

Matrix: Surface Water | **Sampled:** 11/21/11 12:48 | **Work Order:** C114239

Project: Davie County Landfill - SW | **Sampled By:** Gary Simcox

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] ^	0.66	U	ug/L	1	0.66	1.0	1	EPA 8260B	11/30/11 09:22	JKG	
Vinyl acetate [108-05-4] ^	0.95	U	ug/L	1	0.95	5.0	50	EPA 8260B	11/30/11 09:22	JKG	
Vinyl chloride [75-01-4] ^	0.60	U	ug/L	1	0.60	1.0	1	EPA 8260B	11/30/11 09:22	JKG	
Xylenes (Total) [1330-20-7] ^	2.1	U	ug/L	1	2.1	3.0	5	EPA 8260B	11/30/11 09:22	JKG	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*45*	*1*	*50.0*	*91 %*	*51-122*	*1K29022*	*EPA 8260B*	*11/30/11 09:22*	*JKG*	
Dibromofluoromethane	*59*	*1*	*50.0*	*118 %*	*68-117*	*1K29022*	*EPA 8260B*	*11/30/11 09:22*	*JKG*	*QS-03*
Toluene-d8	*51*	*1*	*50.0*	*101 %*	*67-127*	*1K29022*	*EPA 8260B*	*11/30/11 09:22*	*JKG*	

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Description: 3001-SW4
Matrix: Surface Water
Project: Davie County Landfill - SW

Lab Sample ID: C114239-04
Sampled: 11/21/11 12:48
Sampled By: Gary Simcox

Received: 11/22/11 13:30
Work Order: C114239

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
Mercury [7439-97-6] ^	0.170	U	ug/L	1	0.170	0.200	0.2	EPA 7470A	12/07/11 14:07	KER	

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Description: 3001-SW4 | **Lab Sample ID:** C114239-04 | **Received:** 11/22/11 13:30

Matrix: Surface Water | **Sampled:** 11/21/11 12:48 | **Work Order:** C114239

Project: Davie County Landfill - SW | **Sampled By:** Gary Simcox

Metals (total recoverable) 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] ^	2.80	U	ug/L	1	2.80	10.0	10	EPA 6010C	12/02/11 11:30	JDH	
Barium [7440-39-3] ^	**27.6**	J	ug/L	1	1.00	10.0	100	EPA 6010C	12/02/11 11:30	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	12/02/11 11:30	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	12/02/11 11:30	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	12/02/11 11:30	JDH	
Selenium [7782-49-2] ^	2.70	U	ug/L	1	2.70	10.0	10	EPA 6010C	12/02/11 11:30	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	12/02/11 11:30	JDH	

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 1K29022 - EPA 5030B_MS

Blank (1K29022-BLK1) Prepared: 11/29/2011 12:41 Analyzed: 11/30/2011 02:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.90	U	1.0	ug/L							
1,1,1-Trichloroethane	0.65	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.75	U	1.0	ug/L							
1,1,2-Trichloroethane	0.66	U	1.0	ug/L							
1,1-Dichloroethane	0.080	U	1.0	ug/L							
1,1-Dichloroethene	0.60	U	1.0	ug/L							
1,2,3-Trichloropropane	0.72	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.11	U	1.0	ug/L							
1,2-Dichloroethane	0.47	U	1.0	ug/L							
1,2-Dichloropropane	0.59	U	1.0	ug/L							
1,4-Dichlorobenzene	0.79	U	1.0	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Acrylonitrile	3.5	U	10	ug/L							
Benzene	0.68	U	1.0	ug/L							
Bromochloromethane	0.87	U	1.0	ug/L							
Bromodichloromethane	0.75	U	1.0	ug/L							
Bromoform	0.68	U	1.0	ug/L							
Bromomethane	0.58	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon tetrachloride	0.69	U	1.0	ug/L							
Chlorobenzene	0.74	U	1.0	ug/L							
Chloroethane	0.75	U	1.0	ug/L							
Chloroform	0.70	U	1.0	ug/L							
Chloromethane	0.55	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.72	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.075	U	1.0	ug/L							
Dibromochloromethane	0.63	U	1.0	ug/L							
Dibromomethane	0.90	U	1.0	ug/L							
Ethylbenzene	0.62	U	1.0	ug/L							
Iodomethane	1.7	U	5.0	ug/L							
m,p-Xylenes	1.4	U	2.0	ug/L							
Methylene chloride	0.14	U	1.0	ug/L							
o-Xylene	0.63	U	1.0	ug/L							
Styrene	0.053	U	1.0	ug/L							
Tetrachloroethene	0.73	U	1.0	ug/L							
Tetrahydrofuran	0.80	U	1.0	ug/L							
Toluene	0.85	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.12	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.50	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.70	U	1.0	ug/L							
Trichloroethene	0.72	U	1.0	ug/L							
Trichlorofluoromethane	0.66	U	1.0	ug/L							
Vinyl acetate	0.95	U	5.0	ug/L							
Vinyl chloride	0.60	U	1.0	ug/L							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 1K29022 - EPA 5030B_MS

Blank (1K29022-BLK1) Continued Prepared: 11/29/2011 12:41 Analyzed: 11/30/2011 02:07

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Xylenes (Total)	2.1	U	3.0	ug/L							
Surrogate: 4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*95*	*51-122*			
Surrogate: Dibromofluoromethane	*57*			*ug/L*	*50.0*		*115*	*68-117*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*103*	*67-127*			

LCS (1K29022-BS1) Prepared: 11/29/2011 12:41 Analyzed: 11/30/2011 02:36

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		106	75-133			
Benzene	23		1.0	ug/L	20.0		114	81-134			
Chlorobenzene	22		1.0	ug/L	20.0		109	83-117			
Toluene	22		1.0	ug/L	20.0		110	71-118			
Trichloroethene	22		1.0	ug/L	20.0		112	75-115			
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*51-122*			
Surrogate: Dibromofluoromethane	*51*			*ug/L*	*50.0*		*101*	*68-117*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*101*	*67-127*			

Matrix Spike (1K29022-MS1) Prepared: 11/29/2011 12:41 Analyzed: 11/30/2011 03:05

Source: C114355-10

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	0.60 U	111	75-133			
Benzene	22		1.0	ug/L	20.0	0.68 U	109	81-134			
Chlorobenzene	21		1.0	ug/L	20.0	0.74 U	106	83-117			
Toluene	22		1.0	ug/L	20.0	0.85 U	109	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.72 U	107	75-115			
Surrogate: 4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*93*	*51-122*			
Surrogate: Dibromofluoromethane	*50*			*ug/L*	*50.0*		*100*	*68-117*			
Surrogate: Toluene-d8	*50*			*ug/L*	*50.0*		*100*	*67-127*			

Matrix Spike Dup (1K29022-MSD1) Prepared: 11/29/2011 12:41 Analyzed: 11/30/2011 03:34

Source: C114355-10

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	0.60 U	104	75-133	6	20	
Benzene	21		1.0	ug/L	20.0	0.68 U	105	81-134	4	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.74 U	104	83-117	2	16	
Toluene	21		1.0	ug/L	20.0	0.85 U	106	71-118	3	17	
Trichloroethene	22		1.0	ug/L	20.0	0.72 U	109	75-115	2	18	
Surrogate: 4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*93*	*51-122*			
Surrogate: Dibromofluoromethane	*49*			*ug/L*	*50.0*		*99*	*68-117*			
Surrogate: Toluene-d8	*51*			*ug/L*	*50.0*		*101*	*67-127*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 1L06003 - EPA 7470A

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 1L06003 - EPA 7470A

Blank (1L06003-BLK1) Prepared: 12/07/2011 12:56 Analyzed: 12/07/2011 12:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (1L06003-BS1) Prepared: 12/07/2011 12:57 Analyzed: 12/07/2011 12:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.13		0.200	ug/L	5.00		103	80-120			

Matrix Spike (1L06003-MS1) Prepared: 12/07/2011 13:01 Analyzed: 12/07/2011 13:01

Source: C113311-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.16		0.200	ug/L	5.00	0.170 U	103	75-125			

Matrix Spike Dup (1L06003-MSD1) Prepared: 12/07/2011 13:04 Analyzed: 12/07/2011 13:04

Source: C113311-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.02		0.200	ug/L	5.00	0.170 U	100	75-125	3	25	

Post Spike (1L06003-PS1) Prepared: 12/07/2011 13:06 Analyzed: 12/07/2011 13:06

Source: C113311-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.42		0.200	ug/L	5.00	0.0610	107	75-125			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1K30012 - EPA 3005A

Blank (1K30012-BLK1) Prepared: 11/30/2011 08:37 Analyzed: 12/02/2011 10:55

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	2.80	U	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Cadmium	0.360	U	1.00	ug/L							
Chromium	1.00	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Selenium	2.70	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							

LCS (1K30012-BS1) Prepared: 11/30/2011 08:37 Analyzed: 12/02/2011 10:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	182		10.0	ug/L	200		91	80-120			
Barium	198		10.0	ug/L	200		99	80-120			
Cadmium	19.5		1.00	ug/L	20.0		97	80-120			
Chromium	186		10.0	ug/L	200		93	80-120			

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 1K30012 - EPA 3005A

LCS (1K30012-BS1) Continued Prepared: 11/30/2011 08:37 Analyzed: 12/02/2011 10:57

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Lead	188		10.0	ug/L	200		94	80-120			
Selenium	185		10.0	ug/L	200		92	80-120			
Silver	199		10.0	ug/L	200		100	80-120			

Matrix Spike (1K30012-MS1) Prepared: 11/30/2011 08:37 Analyzed: 12/02/2011 11:05

Source: C113050-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	180		10.0	ug/L	200	2.80 U	90	75-125			
Barium	215		10.0	ug/L	200	15.7	99	75-125			
Cadmium	18.6		1.00	ug/L	20.0	0.360 U	93	75-125			
Chromium	196		10.0	ug/L	200	4.28	96	75-125			
Lead	126		10.0	ug/L	200	1.90 U	63	75-125			QM-07
Selenium	254		10.0	ug/L	200	68.4	93	75-125			
Silver	203		10.0	ug/L	200	1.90 U	101	75-125			

Matrix Spike Dup (1K30012-MSD1) Prepared: 11/30/2011 08:37 Analyzed: 12/02/2011 11:07

Source: C113050-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	185		10.0	ug/L	200	2.80 U	92	75-125	2	20	
Barium	223		10.0	ug/L	200	15.7	104	75-125	4	20	
Cadmium	19.3		1.00	ug/L	20.0	0.360 U	97	75-125	4	20	
Chromium	196		10.0	ug/L	200	4.28	96	75-125	0.4	20	
Lead	128		10.0	ug/L	200	1.90 U	64	75-125	2	20	QM-07
Selenium	260		10.0	ug/L	200	68.4	96	75-125	2	20	
Silver	205		10.0	ug/L	200	1.90 U	102	75-125	0.8	20	

Post Spike (1K30012-PS1) Prepared: 11/30/2011 08:37 Analyzed: 12/02/2011 11:09

Source: C113050-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	0.170		0.0100	mg/L	0.200	-0.00535	88	80-120			
Barium	0.207		0.0100	mg/L	0.200	0.0157	96	80-120			
Cadmium	0.0178		0.00100	mg/L	0.0200	-0.000761	93	80-120			
Chromium	0.182		0.0100	mg/L	0.200	0.00428	89	80-120			
Lead	0.118		0.0100	mg/L	0.200	-0.0624	90	80-120			
Selenium	0.247		0.0100	mg/L	0.200	0.0684	89	80-120			
Silver	0.183		0.0100	mg/L	0.200	-0.000710	92	80-120			

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.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QS-03	Surrogate recovery outside acceptance limits

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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Cary, NC 27511
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Page ____ of ____

Client Name: Grey Engineering (GR009)	Project Number: 1584-03-109
Address: 254 West Water Street	Project Name/Desc: Davie County Landfill - SW
City/ST/Zip: Mocksville, NC 27028	PO # / Billing Info:
Tel: (336) 751-2110 Fax: (336) 751-6348	Reporting Contact: Joy Howard
Sampler(s) Name, Affiliation (Print): GARY SIMCOX	Billing Contact: Accounts Payable
Sampler(s) Signature:	Site Location / Time Zone:

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

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C114239

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 1,8260B Extended	Ag,As,Ba,Cd,Cr,Pb,Se	Hg								Sample Comments
	3001-SW1	11/21/11	1304	G	SW	4	X	X	X								
	3001-SW2	11/21/11	1311	G	SW	4	X	X	X								
	3001-SW3	11/21/11	1411	G	SW	4	X	X	X								
	3001-SW4	11/21/11	1248	G	SW	4	X	X	X								

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
MEStamper	11/17/11 1600		11/22/11	Briana Gregory	11/22/11 13:30
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: C-812 2.3°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **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