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).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- 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):

Engineering & Environmental Science Company, Inc.

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

Name: T. Patrick Shillington Phone: 919-781-7798

E-mail: e2s@bellsouth.net

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Hoke County Landfill	700 CC Steele Rd. Raeford, NC	47-01		December 17, 2013

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

T. Patrick Shillington	President/Consultant	919-781-7798
Facility Representative Name (Print)	Title	(Area Code) Telephone Number
T. Patrick Shillington	01/06/14	Affix NC Licensed/ Professional Geologist/Engineer Seal here:
Signature	Date	

SEAL 15472 ENGINEER 01/06/14

Revised 01/2007

E²S

ENGINEERING & ENVIRONMENTAL SCIENCE COMPANY

3008 ANDERSON DRIVE, SUITE 102

RALEIGH, NC 27609

(919) 781-7798

January 6, 2014

Mr. Don Russell
Solid Waste Office
P. O. Box 179
Raeford, NC 28376

RE: Monitoring Well and Surface Water Test Results
12/17/2013 Sampling Event
Hoke County Landfill
Permit No. 47-01

Dear Mr. Russell:

Submitted are the test results for the water sampled from the five (5) monitoring wells and three (3) surface water samples at the Hoke County Landfill. A Sampling Locations Map is provided as Figure 1 in Attachment A. The sampling was conducted on December 17, 2013. The test results for each well and surface water sample are summarized in Table 1 in Attachment A. Attachment B contains the test results as submitted by Con-Test Analytical Laboratories.

Prior to sampling each well, the water level depth was determined in reference to the top of the well casing. Teflon disposable bailers attached to nylon rope were used for purging and sampling water from the wells. A new bailer and rope were used for each well. The wells were purged of at least three times the volume of static water in the well, prior to sampling. The wells were immediately sampled after purging.

Surface water samples were collected by dipping the container beneath the water surface and then opening the container, to allow for water collection. The collected samples were placed on ice for transportation to the laboratory. Temperature, pH conductivity and Total Suspended Solids were determined in the field with the Hanna water test instrument.

Table 1, Attachment A, summarizes the test results and the analytical laboratory report and chain of custody are provided in Attachment B. We appreciate serving Hoke County on the well and surface water sampling and testing. Please contact us if you have any questions concerning the test results.

Sincerely,

T. Patrick Shillington, P.E.
President

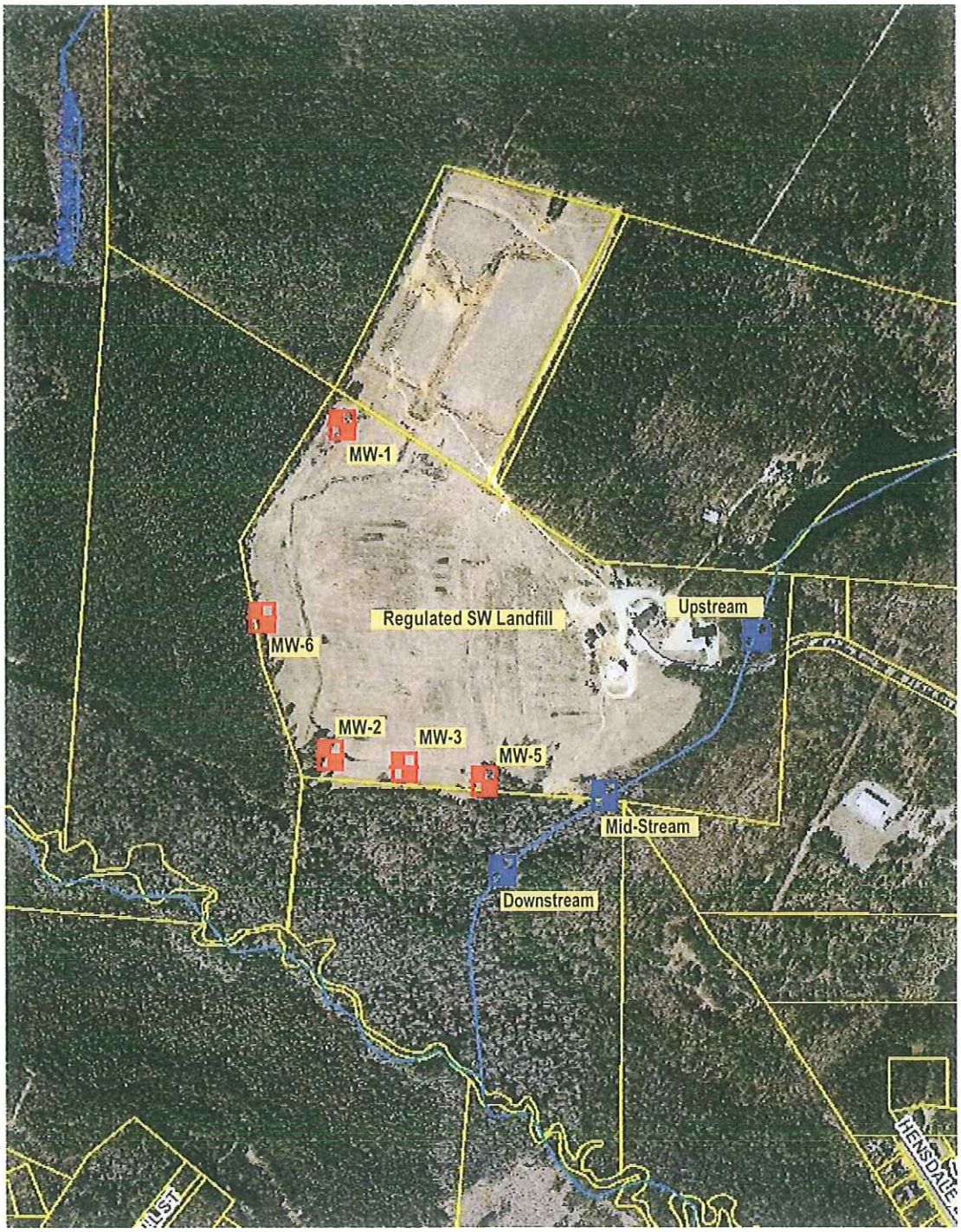
SEAL 15472 ENGINEER T. PATRICK SHILLINGTON

01/06/14

Robert W. Brantly, E.I.
Project Engineer

Attachment A: Figure and Table
Attachment B: Analytical Test Results

ATTACHMENT A:
Figure and Table



Groundwater Sample Location

Surface Water Sample Location

1"=700'

ENGINEERING & ENVIRONMENTAL SCIENCE COMPANY
3008 ANDERSON DR., SUITE 102
RALEIGH, NORTH CAROLINA 27609
(919) 781-7798

Sampling Locations
Hoke County Landfill (47-01)
700 CC Steele Road
Raeford, NC 28376

DATE: 1/6/14

FIGURE NO. 1

Facilty Permit	Well ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	COLLECTION DATE	ANALYSIS DATE	2L Standard	NCAC 2B Surface Water	SWSL
47-01	MW-1	71-43-2	16	Benzene	0.43	ug/L	12/17/2013	12/20/2013	1	-	1
47-01	MW-1	75-34-3	75	1,1-Dichloroethane	0.64	ug/L	12/17/2013	12/20/2013	6	-	5
47-01	MW-1	156-59-2	78	cis-1,2-Dichloroethylene	0.45	ug/L	12/17/2013	12/20/2013	70	-	5
47-01	MW-1	127-18-4	192	Tetrachloroethylene	0.12	ug/L	12/17/2013	12/20/2013	0.7	-	1
47-01	MW-1	79-01-6	201	Trichloroethylene	0.3	ug/L	12/17/2013	12/20/2013	3	-	1
47-01	MW-1	75-01-4	211	Vinyl Chloride	0.36	ug/L	12/17/2013	12/20/2013	0.03	-	1
47-01	MW-1	1330-20-7	346	Xylene	0.13	ug/L	12/17/2013	12/20/2013	500	-	5
47-01	MW-1	7440-38-2	14	Arsenic	15	ug/L	12/17/2013	12/20/2013	10	-	10
47-01	MW-1	7440-39-3	15	Barium	47	ug/L	12/17/2013	12/20/2013	700	-	100
47-01	MW-1	7440-43-9	34	Cadmium	0.14	ug/L	12/17/2013	12/20/2013	2	-	1
47-01	MW-1			Well Elevation	251.19	ft.					
47-01	MW-1			Groundwater Depth	53.02	ft.					
47-01	MW-1			Water Level Elevation	198.17	ft.					
47-01	MW-1			Temperature	16.4	C					
47-01	MW-1			pH	5.4						
47-01	MW-1			Conductivity	48	mV					
47-01	MW-1			Total Suspended Solids	212	ppm					
47-01	MW-2	71-43-2	16	Benzene	0.81	ug/L	12/17/2013	12/20/2013	1	-	1
47-01	MW-2	108-90-7	39	Chlorobenzene	2.7	ug/L	12/17/2013	12/20/2013	50	-	3
47-01	MW-2	95-50-1	69	1,2-Dichlorobenzene	0.3	ug/L	12/17/2013	12/20/2013	20	-	5
47-01	MW-2	106-46-7	71	1,4-Dichlorobenzene	2	ug/L	12/17/2013	12/20/2013	6	-	1
47-01	MW-2	75-34-3	75	1,1-Dichloroethane	1	ug/L	12/17/2013	12/20/2013	6	-	5
47-01	MW-2	156-59-2	78	cis-1,2-Dichloroethylene	2	ug/L	12/17/2013	12/20/2013	70	-	5
47-01	MW-2	79-01-6	201	Trichloroethylene	0.32	ug/L	12/17/2013	12/20/2013	3	-	1
47-01	MW-2	75-01-4	211	Vinyl Chloride	0.24	ug/L	12/17/2013	12/20/2013	0.03	-	1
47-01	MW-2	7440-38-2	14	Arsenic	0.92	ug/L	12/17/2013	12/20/2013	10	-	10
47-01	MW-2	7440-39-3	15	Barium	42	ug/L	12/17/2013	12/20/2013	700	-	100
47-01	MW-2	7440-43-9	34	Cadmium	2.3	ug/L	12/17/2013	12/20/2013	2	-	1
47-01	MW-2	7439-92-1	131	Lead	0.54	ug/L	12/17/2013	12/20/2013	15	-	10
47-01	MW-2			Well Elevation	217	ft.					
47-01	MW-2			Groundwater Depth	17.93	ft.					
47-01	MW-2			Water Level Elevation	199.07	ft.					
47-01	MW-2			Temperature	16.2	C					
47-01	MW-2			pH	5.6						

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Facilty Permit	Well ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	COLLECTION DATE	ANALYSIS DATE	2L Standard	NCAC 2B Surface Water	SWSL
47-01	MW-2			Conductivity	81	mV					
47-01	MW-2			Total Suspended Solids	159	ppm					
47-01	MW-3	71-43-2	16	Benzene	2.6	ug/L	12/17/2013	12/20/2013	1	-	1
47-01	MW-3	108-90-7	39	Chlorobenzene	5.6	ug/L	12/17/2013	12/20/2013	50	-	3
47-01	MW-3	95-50-1	69	1,2-Dichlorobenzene	0.15	ug/L	12/17/2013	12/20/2013	20	-	5
47-01	MW-3	106-46-7	71	1,4-Dichlorobenzene	5.5	ug/L	12/17/2013	12/20/2013	6	-	1
47-01	MW-3	75-34-3	75	1,1-Dichloroethane	2.1	ug/L	12/17/2013	12/20/2013	6	-	5
47-01	MW-3	156-59-2	78	cis-1,2-Dichloroethylene	3.3	ug/L	12/17/2013	12/20/2013	70	-	5
47-01	MW-3	127-18-4	192	Tetrachloroethylene	0.19	ug/L	12/17/2013	12/20/2013	0.7	-	1
47-01	MW-3	108-88-3	196	Toluene	0.11	ug/L	12/17/2013	12/20/2013	600	-	1
47-01	MW-3	79-01-6	201	Trichloroethylene	0.64	ug/L	12/17/2013	12/20/2013	3	-	1
47-01	MW-3	75-01-4	211	Vinyl Chloride	0.69	ug/L	12/17/2013	12/20/2013	0.03	-	1
47-01	MW-3	7440-38-2	14	Arsenic	19	ug/L	12/17/2013	12/20/2013	10	-	10
47-01	MW-3	7440-39-3	15	Barium	45	ug/L	12/17/2013	12/20/2013	700	-	100
47-01	MW-3	7440-43-9	34	Cadmium	3.3	ug/L	12/17/2013	12/20/2013	2	-	1
47-01	MW-3	7439-92-1	131	Lead	0.19	ug/L	12/17/2013	12/20/2013	15	-	10
47-01	MW-3	7782-49-2	132	Selenium	2.3	ug/l	12/17/2013	12/20/2013	20	-	10
47-01	MW-3			Well Elevation	212.64	ft.					
47-01	MW-3			Groundwater Depth	28.2	ft.					
47-01	MW-3			Water Level Elevation	184.44	ft.					
47-01	MW-3			Temperature	16.2	C					
47-01	MW-3			pH	5.8						
47-01	MW-3			Conductivity	64	mV					
47-01	MW-3			Total Suspended Solids	208	ppm					
47-01	MW-5	67-64-1	3	Acetone	10	ug/L	12/17/2013	12/20/2013	6000	-	100
47-01	MW-5	71-43-2	16	Benzene	23	ug/L	12/17/2013	12/20/2013	1	-	1
47-01	MW-5	108-90-7	39	Chlorobenzene	98	ug/L	12/17/2013	12/20/2013	50	-	3
47-01	MW-5	95-50-1	69	1,2-Dichlorobenzene	2.3	ug/L	12/17/2013	12/20/2013	20	-	5
47-01	MW-5	106-46-7	71	1,4-Dichlorobenzene	6.7	ug/L	12/17/2013	12/20/2013	6	-	1
47-01	MW-5	156-59-2	78	cis-1,2-Dichloroethylene	4.5	ug/L	12/17/2013	12/20/2013	70	-	5
47-01	MW-5	108-88-3	196	Toluene	0.13	ug/L	12/17/2013	12/20/2013	600	-	1
47-01	MW-5	79-01-6	201	Trichloroethylene	0.22	ug/L	12/17/2013	12/20/2013	3	-	1
47-01	MW-5	75-01-4	211	Vinyl Chloride	3.3	ug/L	12/17/2013	12/20/2013	0.03	-	1
47-01	MW-5	7440-38-2	14	Arsenic	14	ug/L	12/17/2013	12/20/2013	10	-	10

Facilty Permit	Well ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	COLLECTION DATE	ANALYSIS DATE	2L Standard	NCAC 2B Surface Water	SWSL
47-01	MW-5	7440-39-3	15	Barium	38	ug/L	12/17/2013	12/20/2013	700	-	100
47-01	MW-5	7440-43-9	34	Cadmium	3.5	ug/L	12/17/2013	12/20/2013	2	-	1
47-01	MW-5	7440-47-3	51	Chromium	1.9	ug/L	12/17/2013	12/20/2013	10	-	10
47-01	MW-5	7439-92-1	131	Lead	1.7	ug/L	12/17/2013	12/20/2013	15	-	10
47-01	MW-5	7782-49-2	132	Selenium	2	ug/l	12/17/2013	12/20/2013	20	-	10
47-01	MW-5			Well Elevation	227.81	ft.					
47-01	MW-5			Groundwater Depth	23.21	ft.					
47-01	MW-5			Water Level Elevation	204.6	ft.					
47-01	MW-5			Temperature	16.5	C					
47-01	MW-5			pH	5.8						
47-01	MW-5			Conductivity	21	mV					
47-01	MW-5			Total Suspended Solids	321	ppm					
47-01	MW-5	67-64-1	3	Acetone	6.2	ug/L	12/17/2013	12/20/2013	6000	-	100
47-01	MW-6	71-43-2	16	Benzene	2.9	ug/L	12/17/2013	12/20/2013	1	-	1
47-01	MW-6	108-90-7	39	Chlorobenzene	10	ug/L	12/17/2013	12/20/2013	50	-	3
47-01	MW-6	95-50-1	69	1,2-Dichlorobenzene	0.47	ug/L	12/17/2013	12/20/2013	20	-	5
47-01	MW-6	106-46-7	71	1,4-Dichlorobenzene	7.2	ug/L	12/17/2013	12/20/2013	6	-	1
47-01	MW-6	75-34-3	75	1,1-Dichloroethane	1.5	ug/L	12/17/2013	12/20/2013	6	-	5
47-01	MW-6	156-59-2	78	cis-1,2-Dichloroethylene	4.2	ug/L	12/17/2013	12/20/2013	70	-	5
47-01	MW-6	100-41-4	110	Ethylbenzene	0.15	ug/L	12/17/2013	12/20/2013	600	-	1
47-01	MW-6	108-88-3	196	Toluene	0.15	ug/L	12/17/2013	12/20/2013	600	-	1
47-01	MW-6	79-01-6	201	Trichloroethylene	0.72	ug/L	12/17/2013	12/20/2013	3	-	1
47-01	MW-6	75-01-4	211	Vinyl Chloride	0.95	ug/L	12/17/2013	12/20/2013	0.03	-	1
47-01	MW-6	1330-20-7	346	Xylene	0.14	ug/L	12/17/2013	12/20/2013	500	-	5
47-01	MW-6	7440-38-2	14	Arsenic	13	ug/L	12/17/2013	12/20/2013	10	-	10
47-01	MW-6	7440-39-3	15	Barium	58	ug/L	12/17/2013	12/20/2013	700	-	100
47-01	MW-6	7439-92-1	131	Lead	0.15	ug/L	12/17/2013	12/20/2013	15	-	10
47-01	MW-6			Well Elevation	204.65	ft.					
47-01	MW-6			Groundwater Depth	37.92	ft.					
47-01	MW-6			Water Level Elevation	166.73	ft.					
47-01	MW-6			Temperature	16.9	C					
47-01	MW-6			pH	6						
47-01	MW-6			Conductivity	55	mV					
47-01	MW-6			Total Suspended Solids	285	ppm					

Facilty Permit	Well ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	COLLECTION DATE	ANALYSIS DATE	2L Standard	NCAC 2B Surface Water	SWSL
47-01	US	7440-39-3	15	Barium	20	ug/L	12/17/2013	12/20/2013	700	N/A	100
47-01	US	7439-92-1	131	Lead	0.24	ug/L	12/17/2013	12/20/2013	15	25	10
47-01	US			Temperature	15.4	C					
47-01	US			pH	6.1					6-9	
47-01	US			Conductivity	121	mV					
47-01	US			Total Suspended Solids	78	ppm					
47-01	MS	7440-39-3	15	Barium	25	ug/L	12/17/2013	12/20/2013	700	N/A	100
47-01	MS	7439-92-1	131	Lead	0.56	ug/L	12/17/2013	12/20/2013	15	25	10
47-01	MS			Temperature	15.1	C					
47-01	MS			pH	6					6-9	
47-01	MS			Conductivity	101	mV					
47-01	MS			Total Suspended Solids	91	ppm					
47-01	DS	7440-39-3	15	Barium	23	ug/L	12/17/2013	12/20/2013	700	N/A	100
47-01	DS	7440-43-9	34	Cadmium	0.062	ug/L	12/17/2013	12/20/2013	2	-	1
47-01	DS	7439-92-1	131	Lead	0.26	ug/L	12/17/2013	12/20/2013	15	25	10
47-01	DS			Temperature	15.2	C					
47-01	DS			pH	6.1					6-9	
47-01	DS			Conductivity	80	mV					
47-01	DS			Total Suspended Solids	94	ppm					

Bold values exceed SWSL Standards

Red values exceed 2L Standards

ATTACHMENT B:
Analytical Test Results

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

January 6, 2014

Pat Shillington
E2S
3008 Anderson Drive, Suite 102
Raleigh, NC 27609

Project Location: Hoke Landfill
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 13L0759

Enclosed are results of analyses for samples received by the laboratory on December 19, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

E2S
3008 Anderson Drive, Suite 102
Raleigh, NC 27609
ATTN: Pat Shillington

REPORT DATE: 1/6/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13L0759

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Hoke Landfill

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-1	13L0759-01	Ground Water		SW-846 6020A	
				SW-846 7470A	
				SW-846 8260B	
MW-2	13L0759-02	Ground Water		SW-846 6020A	
				SW-846 7470A	
				SW-846 8260B	
MW-3	13L0759-03	Ground Water		SW-846 6020A	
				SW-846 7470A	
				SW-846 8260B	
MW-5	13L0759-04	Ground Water		SW-846 6020A	
				SW-846 7470A	
				SW-846 8260B	
MW-6	13L0759-05	Ground Water		SW-846 6020A	
				SW-846 7470A	
				SW-846 8260B	
MS	13L0759-06	Ground Water		SW-846 6020A	
				SW-846 7470A	
				SW-846 8260B	
DS	13L0759-07	Ground Water		SW-846 6020A	
				SW-846 7470A	
				SW-846 8260B	
US	13L0759-08	Ground Water		SW-846 6020A	
				SW-846 7470A	
				SW-846 8260B	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 1/6/13: The 8260 target analyte list has been revised per the client specific list for this project.

SW-846 8260B

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

trans-1,4-Dichloro-2-butene

13L0759-01[MW-1], 13L0759-02[MW-2], 13L0759-03[MW-3], 13L0759-04[MW-5], 13L0759-05[MW-6], 13L0759-06[MS], 13L0759-07[DS], 13L0759-08[US], B087524-BLK1, B087524-BS1, B087524-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

2-Hexanone (MBK), 4-Methyl-2-pentanone (MIBK)

B087524-BS1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

trans-1,4-Dichloro-2-butene

13L0759-01[MW-1], 13L0759-02[MW-2], 13L0759-03[MW-3], 13L0759-04[MW-5], 13L0759-05[MW-6], 13L0759-06[MS], 13L0759-07[DS], 13L0759-08[US], B087524-BLK1, B087524-BS1, B087524-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromomethane, Methylene Chloride

B087524-BS1, B087524-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Chemist

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill | Sample Description: | Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: MW-1 | Sampled: 12/17/2013 12:17

Sample ID: 13L0759-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.7	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Benzene	0.43	1.0	0.079	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Dibromomethane	ND	1.0	0.070	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
1,2-Dichlorobenzene	ND	1.0	0.076	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
1,4-Dichlorobenzene	0.19	1.0	0.046	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 14:27	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.12	µg/L	1	L-04, V-05	SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
1,1-Dichloroethane	0.64	1.0	0.16	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 14:27	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
cis-1,2-Dichloroethylene	0.45	1.0	0.15	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 14:27	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Iodomethane	ND	10	3.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	ZZZ
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Tetrachloroethylene	0.12	1.0	0.080	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Toluene	ND	1.0	0.090	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Trichloroethylene	0.30	1.0	0.077	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill | Sample Description: | Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: MW-1 | Sampled: 12/17/2013 12:17

Sample ID: 13L0759-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,3-Trichloropropane	ND	2.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
Vinyl Acetate	ND	20	1.3	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	ZZZ
Vinyl Chloride	0.36	2.0	0.13	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 14:27	EEH
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:27	EEH
o-Xylene	0.13	1.0	0.11	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 14:27	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.0	70-130		12/20/13 14:27
Toluene-d8	103	70-130		12/20/13 14:27
4-Bromofluorobenzene	103	70-130		12/20/13 14:27

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill
Sample Description:
Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: MW-1
Sampled: 12/17/2013 12:17

Sample ID: 13L0759-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	15	0.80	0.70	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:12	KSH
Barium	47	20	2.4	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:12	KSH
Cadmium	0.14	1.0	0.059	µg/L	2	J	SW-846 6020A	12/20/13	12/23/13 16:12	KSH
Chromium	ND	2.0	1.3	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:12	KSH
Lead	ND	2.0	0.12	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:12	KSH
Mercury	ND	0.10	0.048	µg/L	1		SW-846 7470A	12/20/13	12/20/13 11:36	SAJ
Selenium	ND	10	1.5	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:12	KSH
Silver	ND	1.0	0.13	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:12	KSH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill | Sample Description: | Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: MW-2 | Sampled: 12/17/2013 13:36

Sample ID: 13L0759-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.7	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Benzene	0.81	1.0	0.079	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Chlorobenzene	2.7	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Dibromomethane	ND	1.0	0.070	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
1,2-Dichlorobenzene	0.30	1.0	0.076	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 14:53	EEH
1,4-Dichlorobenzene	2.0	1.0	0.046	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.12	µg/L	1	L-04, V-05	SW-846 8260B	12/20/13	12/20/13 14:53	EEH
1,1-Dichloroethane	1.0	1.0	0.16	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
cis-1,2-Dichloroethylene	2.0	1.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Iodomethane	ND	10	3.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	ZZZ
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Tetrachloroethylene	ND	1.0	0.080	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Toluene	ND	1.0	0.090	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Trichloroethylene	0.32	1.0	0.077	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 14:53	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
1,2,3-Trichloropropane	ND	2.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill | Sample Description: | Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: MW-2 | Sampled: 12/17/2013 13:36

Sample ID: 13L0759-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Vinyl Acetate	ND	20	1.3	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	ZZZ
Vinyl Chloride	0.24	2.0	0.13	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 14:53	EEH
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	12/20/13	12/20/13 14:53	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	88.7	70-130		12/20/13 14:53
Toluene-d8	105	70-130		12/20/13 14:53
4-Bromofluorobenzene	102	70-130		12/20/13 14:53

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill | Sample Description: | Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: MW-2 | Sampled: 12/17/2013 13:36

Sample ID: 13L0759-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	0.92	0.80	0.70	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:16	KSH
Barium	42	20	2.4	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:16	KSH
Cadmium	2.3	1.0	0.059	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:16	KSH
Chromium	ND	2.0	1.3	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:16	KSH
Lead	0.54	2.0	0.12	µg/L	2	J	SW-846 6020A	12/20/13	12/23/13 16:16	KSH
Mercury	ND	0.10	0.048	µg/L	1		SW-846 7470A	12/20/13	12/20/13 11:37	SAJ
Selenium	ND	10	1.5	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:16	KSH
Silver	ND	1.0	0.13	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:16	KSH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill | Sample Description: | Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: MW-3 | Sampled: 12/17/2013 13:05

Sample ID: 13L0759-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.7	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Benzene	2.6	1.0	0.079	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Chlorobenzene	5.6	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Dibromomethane	ND	1.0	0.070	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
1,2-Dichlorobenzene	0.15	1.0	0.076	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 15:22	EEH
1,4-Dichlorobenzene	5.5	1.0	0.046	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.12	µg/L	1	L-04, V-05	SW-846 8260B	12/20/13	12/20/13 15:22	EEH
1,1-Dichloroethane	2.1	1.0	0.16	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
cis-1,2-Dichloroethylene	3.3	1.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Iodomethane	ND	10	3.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	ZZZ
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Tetrachloroethylene	0.19	1.0	0.080	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Toluene	0.11	1.0	0.090	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 15:22	EEH
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Trichloroethylene	0.64	1.0	0.077	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 15:22	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
1,2,3-Trichloropropane	ND	2.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill | Sample Description: | Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: MW-3 | Sampled: 12/17/2013 13:05

Sample ID: 13L0759-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Vinyl Acetate	ND	20	1.3	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	ZZZ
Vinyl Chloride	0.69	2.0	0.13	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 15:22	EEH
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:22	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.2	70-130		12/20/13 15:22
Toluene-d8	103	70-130		12/20/13 15:22
4-Bromofluorobenzene	101	70-130		12/20/13 15:22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill
Sample Description:
Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: MW-3
Sampled: 12/17/2013 13:05

Sample ID: 13L0759-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	19	0.80	0.70	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:19	KSH
Barium	45	20	2.4	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:19	KSH
Cadmium	3.3	1.0	0.059	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:19	KSH
Chromium	ND	2.0	1.3	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:19	KSH
Lead	0.19	2.0	0.12	µg/L	2	J	SW-846 6020A	12/20/13	12/23/13 16:19	KSH
Mercury	ND	0.10	0.048	µg/L	1		SW-846 7470A	12/20/13	12/20/13 11:39	SAJ
Selenium	2.3	10	1.5	µg/L	2	J	SW-846 6020A	12/20/13	12/23/13 16:19	KSH
Silver	ND	1.0	0.13	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:19	KSH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill | Sample Description: | Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: MW-5 | Sampled: 12/17/2013 14:07

Sample ID: 13L0759-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	10	50	4.7	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Benzene	23	1.0	0.079	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Chlorobenzene	98	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Dibromomethane	ND	1.0	0.070	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
1,2-Dichlorobenzene	2.3	1.0	0.076	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
1,4-Dichlorobenzene	6.7	1.0	0.046	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.12	µg/L	1	L-04, V-05	SW-846 8260B	12/20/13	12/20/13 15:48	EEH
1,1-Dichloroethane	0.36	1.0	0.16	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 15:48	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
cis-1,2-Dichloroethylene	4.5	1.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Hexachlorobutadiene	ND	0.50	0.17	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Tetrachloroethylene	ND	1.0	0.080	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Toluene	0.13	1.0	0.090	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 15:48	EEH
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Trichloroethylene	0.22	1.0	0.077	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 15:48	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
1,2,3-Trichloropropane	ND	2.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill | Sample Description: | Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: MW-5 | Sampled: 12/17/2013 14:07

Sample ID: 13L0759-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Vinyl Acetate	ND	20	1.3	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	ZZZ
Vinyl Chloride	3.3	2.0	0.13	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	12/20/13	12/20/13 15:48	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	89.3	70-130		12/20/13 15:48
Toluene-d8	100	70-130		12/20/13 15:48
4-Bromofluorobenzene	100	70-130		12/20/13 15:48

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill
Sample Description:
Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: MW-5
Sampled: 12/17/2013 14:07

Sample ID: 13L0759-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	14	0.80	0.70	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:23	KSH
Barium	38	20	2.4	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:23	KSH
Cadmium	3.5	1.0	0.059	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:23	KSH
Chromium	1.9	2.0	1.3	µg/L	2	J	SW-846 6020A	12/20/13	12/23/13 16:23	KSH
Lead	1.7	2.0	0.12	µg/L	2	J	SW-846 6020A	12/20/13	12/23/13 16:23	KSH
Mercury	ND	0.10	0.048	µg/L	1		SW-846 7470A	12/20/13	12/20/13 11:41	SAJ
Selenium	2.0	10	1.5	µg/L	2	J	SW-846 6020A	12/20/13	12/23/13 16:23	KSH
Silver	ND	1.0	0.13	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:23	KSH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill | Sample Description: | Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: MW-6 | Sampled: 12/17/2013 11:55

Sample ID: 13L0759-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	6.2	50	4.7	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Benzene	2.9	1.0	0.079	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Chlorobenzene	10	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Dibromomethane	ND	1.0	0.070	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
1,2-Dichlorobenzene	0.47	1.0	0.076	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 16:15	EEH
1,4-Dichlorobenzene	7.2	1.0	0.046	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.12	µg/L	1	L-04, V-05	SW-846 8260B	12/20/13	12/20/13 16:15	EEH
1,1-Dichloroethane	1.5	1.0	0.16	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
cis-1,2-Dichloroethylene	4.2	1.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
1,3-Dichloropropane	ND	0.50	0.099	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Ethylbenzene	0.15	1.0	0.092	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 16:15	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Iodomethane	ND	10	3.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	ZZZ
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Tetrachloroethylene	ND	1.0	0.080	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Toluene	0.15	1.0	0.090	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 16:15	EEH
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Trichloroethylene	0.72	1.0	0.077	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill
Sample Description:
Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: MW-6
Sampled: 12/17/2013 11:55

Sample ID: 13L0759-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,3-Trichloropropane	ND	2.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
Vinyl Acetate	ND	20	1.3	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	ZZZ
Vinyl Chloride	0.95	2.0	0.13	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 16:15	EEH
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:15	EEH
o-Xylene	0.14	1.0	0.11	µg/L	1	J	SW-846 8260B	12/20/13	12/20/13 16:15	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.0	70-130		12/20/13 16:15
Toluene-d8	102	70-130		12/20/13 16:15
4-Bromofluorobenzene	101	70-130		12/20/13 16:15

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill
Sample Description:
Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: MW-6
Sampled: 12/17/2013 11:55

Sample ID: 13L0759-05

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	13	0.80	0.70	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:27	KSH
Barium	58	20	2.4	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:27	KSH
Cadmium	ND	1.0	0.059	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:27	KSH
Chromium	ND	2.0	1.3	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:27	KSH
Lead	0.15	2.0	0.12	µg/L	2	J	SW-846 6020A	12/20/13	12/23/13 16:27	KSH
Mercury	ND	0.10	0.048	µg/L	1		SW-846 7470A	12/20/13	12/20/13 11:42	SAJ
Selenium	ND	10	1.5	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:27	KSH
Silver	ND	1.0	0.13	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:27	KSH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill | Sample Description: | Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: MS | Sampled: 12/17/2013 14:57

Sample ID: 13L0759-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.7	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Benzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Dibromomethane	ND	1.0	0.070	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
1,2-Dichlorobenzene	ND	1.0	0.076	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
1,4-Dichlorobenzene	ND	1.0	0.046	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.12	µg/L	1	L-04, V-05	SW-846 8260B	12/20/13	12/20/13 16:41	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Iodomethane	ND	10	3.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	ZZZ
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Tetrachloroethylene	ND	1.0	0.080	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Toluene	ND	1.0	0.090	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Trichloroethylene	ND	1.0	0.077	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill | Sample Description: | Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: MS | Sampled: 12/17/2013 14:57

Sample ID: 13L0759-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,3-Trichloropropane	ND	2.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
Vinyl Acetate	ND	20	1.3	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	ZZZ
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	12/20/13	12/20/13 16:41	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.0	70-130		12/20/13 16:41
Toluene-d8	103	70-130		12/20/13 16:41
4-Bromofluorobenzene	100	70-130		12/20/13 16:41

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill
Sample Description:
Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: MS
Sampled: 12/17/2013 14:57

Sample ID: 13L0759-06

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.80	0.70	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:42	KSH
Barium	25	20	2.4	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:42	KSH
Cadmium	ND	1.0	0.059	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:42	KSH
Chromium	ND	2.0	1.3	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:42	KSH
Lead	0.56	2.0	0.12	µg/L	2	J	SW-846 6020A	12/20/13	12/23/13 16:42	KSH
Mercury	ND	0.10	0.048	µg/L	1		SW-846 7470A	12/20/13	12/20/13 11:48	SAJ
Selenium	ND	10	1.5	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:42	KSH
Silver	ND	1.0	0.13	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:42	KSH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill | Sample Description: | Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: DS | Sampled: 12/17/2013 14:41

Sample ID: 13L0759-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.7	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Benzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Dibromomethane	ND	1.0	0.070	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
1,2-Dichlorobenzene	ND	1.0	0.076	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
1,4-Dichlorobenzene	ND	1.0	0.046	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.12	µg/L	1	L-04, V-05	SW-846 8260B	12/20/13	12/20/13 17:08	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Iodomethane	ND	10	3.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	ZZZ
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Tetrachloroethylene	ND	1.0	0.080	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Toluene	ND	1.0	0.090	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Trichloroethylene	ND	1.0	0.077	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
1,2,3-Trichloropropane	ND	2.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill
Sample Description:
Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: DS
Sampled: 12/17/2013 14:41

Sample ID: 13L0759-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Vinyl Acetate	ND	20	1.3	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	ZZZ
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:08	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.6	70-130		12/20/13 17:08
Toluene-d8	103	70-130		12/20/13 17:08
4-Bromofluorobenzene	98.7	70-130		12/20/13 17:08

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill
Sample Description:
Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: DS
Sampled: 12/17/2013 14:41

Sample ID: 13L0759-07

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.80	0.70	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:46	KSH
Barium	23	20	2.4	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:46	KSH
Cadmium	0.062	1.0	0.059	µg/L	2	J	SW-846 6020A	12/20/13	12/23/13 16:46	KSH
Chromium	ND	2.0	1.3	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:46	KSH
Lead	0.26	2.0	0.12	µg/L	2	J	SW-846 6020A	12/20/13	12/23/13 16:46	KSH
Mercury	ND	0.10	0.048	µg/L	1		SW-846 7470A	12/20/13	12/20/13 11:50	SAJ
Selenium	ND	10	1.5	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:46	KSH
Silver	ND	1.0	0.13	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:46	KSH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill | Sample Description: | Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: US | Sampled: 12/17/2013 14:25

Sample ID: 13L0759-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.7	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Acrylonitrile	ND	5.0	0.58	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Benzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Bromomethane	ND	2.0	0.94	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Dibromomethane	ND	1.0	0.070	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
1,2-Dichlorobenzene	ND	1.0	0.076	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
1,4-Dichlorobenzene	ND	1.0	0.046	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
trans-1,4-Dichloro-2-butene	ND	2.0	0.12	µg/L	1	L-04, V-05	SW-846 8260B	12/20/13	12/20/13 17:34	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
cis-1,3-Dichloropropene	ND	0.50	0.062	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
trans-1,3-Dichloropropene	ND	0.50	0.056	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Iodomethane	ND	10	3.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	ZZZ
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Tetrachloroethylene	ND	1.0	0.080	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Toluene	ND	1.0	0.090	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Trichloroethylene	ND	1.0	0.077	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
1,2,3-Trichloropropane	ND	2.0	0.12	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Hoke Landfill
Sample Description:
Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: US
Sampled: 12/17/2013 14:25

Sample ID: 13L0759-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Vinyl Acetate	ND	20	1.3	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	ZZZ
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	12/20/13	12/20/13 17:34	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.5	70-130		12/20/13 17:34
Toluene-d8	101	70-130		12/20/13 17:34
4-Bromofluorobenzene	102	70-130		12/20/13 17:34

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Project Location: Hoke Landfill
Sample Description:
Work Order: 13L0759

Date Received: 12/19/2013

Field Sample #: US
Sampled: 12/17/2013 14:25

Sample ID: 13L0759-08

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.80	0.70	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:50	KSH
Barium	20	20	2.4	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:50	KSH
Cadmium	ND	1.0	0.059	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:50	KSH
Chromium	ND	2.0	1.3	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:50	KSH
Lead	0.24	2.0	0.12	µg/L	2	J	SW-846 6020A	12/20/13	12/23/13 16:50	KSH
Mercury	ND	0.10	0.048	µg/L	1		SW-846 7470A	12/20/13	12/20/13 11:51	SAJ
Selenium	ND	10	1.5	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:50	KSH
Silver	ND	1.0	0.13	µg/L	2		SW-846 6020A	12/20/13	12/23/13 16:50	KSH

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Sample Extraction Data

Prep Method: SW-846 3005A-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13L0759-01 [MW-1]	B087555	50.0	50.0	12/20/13
13L0759-02 [MW-2]	B087555	50.0	50.0	12/20/13
13L0759-03 [MW-3]	B087555	50.0	50.0	12/20/13
13L0759-04 [MW-5]	B087555	50.0	50.0	12/20/13
13L0759-05 [MW-6]	B087555	50.0	50.0	12/20/13
13L0759-06 [MS]	B087555	50.0	50.0	12/20/13
13L0759-07 [DS]	B087555	50.0	50.0	12/20/13
13L0759-08 [US]	B087555	50.0	50.0	12/20/13

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13L0759-01 [MW-1]	B087494	6.00	6.00	12/20/13
13L0759-02 [MW-2]	B087494	6.00	6.00	12/20/13
13L0759-03 [MW-3]	B087494	6.00	6.00	12/20/13
13L0759-04 [MW-5]	B087494	6.00	6.00	12/20/13
13L0759-05 [MW-6]	B087494	6.00	6.00	12/20/13
13L0759-06 [MS]	B087494	6.00	6.00	12/20/13
13L0759-07 [DS]	B087494	6.00	6.00	12/20/13
13L0759-08 [US]	B087494	6.00	6.00	12/20/13

Prep Method: SW-846 5030B-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13L0759-01 [MW-1]	B087524	5	5.00	12/20/13
13L0759-02 [MW-2]	B087524	5	5.00	12/20/13
13L0759-03 [MW-3]	B087524	5	5.00	12/20/13
13L0759-04 [MW-5]	B087524	5	5.00	12/20/13
13L0759-05 [MW-6]	B087524	5	5.00	12/20/13
13L0759-06 [MS]	B087524	5	5.00	12/20/13
13L0759-07 [DS]	B087524	5	5.00	12/20/13
13L0759-08 [US]	B087524	5	5.00	12/20/13

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B087524 - SW-846 5030B										
Blank (B087524-BLK1)				Prepared & Analyzed: 12/20/13						
Acetone	ND	50	µg/L							
Acrylonitrile	ND	5.0	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							
2-Butanone (MEK)	ND	20	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							L-04, V-05
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Iodomethane	ND	10	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
Vinyl Acetate	ND	20	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*23.4*		µg/L	25.0		93.5	70-130			
Surrogate: Toluene-d8	*26.0*		µg/L	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	*25.4*		µg/L	25.0		102	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B087524 - SW-846 5030B												
LCS (B087524-BS1)				Prepared & Analyzed: 12/20/13								
Acetone	74.1	50	µg/L	100		74.1		70-160				†
Acrylonitrile	7.28	5.0	µg/L	10.0		72.8		70-130				
Benzene	8.38	1.0	µg/L	10.0		83.8		70-130				
Bromochloromethane	8.24	1.0	µg/L	10.0		82.4		70-130				
Bromodichloromethane	9.30	0.50	µg/L	10.0		93.0		70-130				
Bromoform	9.34	1.0	µg/L	10.0		93.4		70-130				
Bromomethane	7.47	2.0	µg/L	10.0		74.7		40-160			V-20	†
2-Butanone (MEK)	74.3	20	µg/L	100		74.3		40-160				†
Carbon Disulfide	10.0	4.0	µg/L	10.0		100		70-130				
Carbon Tetrachloride	9.29	5.0	µg/L	10.0		92.9		70-130				
Chlorobenzene	8.75	1.0	µg/L	10.0		87.5		70-130				
Chlorodibromomethane	9.80	0.50	µg/L	10.0		98.0		70-130				
Chloroethane	10.0	2.0	µg/L	10.0		100		70-130				
Chloroform	8.85	2.0	µg/L	10.0		88.5		70-130				
Chloromethane	7.18	2.0	µg/L	10.0		71.8		40-160				†
1,2-Dibromo-3-chloropropane (DBCP)	7.21	5.0	µg/L	10.0		72.1		70-130				
1,2-Dibromoethane (EDB)	8.89	0.50	µg/L	10.0		88.9		70-130				
Dibromomethane	8.72	1.0	µg/L	10.0		87.2		70-130				
1,2-Dichlorobenzene	8.32	1.0	µg/L	10.0		83.2		70-130				
1,4-Dichlorobenzene	8.98	1.0	µg/L	10.0		89.8		70-130				
trans-1,4-Dichloro-2-butene	5.37	2.0	µg/L	10.0		**53.7**	*	70-130			L-04, V-05	
1,1-Dichloroethane	9.24	1.0	µg/L	10.0		92.4		70-130				
1,2-Dichloroethane	8.48	1.0	µg/L	10.0		84.8		70-130				
1,1-Dichloroethylene	8.52	1.0	µg/L	10.0		85.2		70-130				
cis-1,2-Dichloroethylene	8.98	1.0	µg/L	10.0		89.8		70-130				
trans-1,2-Dichloroethylene	8.94	1.0	µg/L	10.0		89.4		70-130				
1,2-Dichloropropane	8.64	1.0	µg/L	10.0		86.4		70-130				
cis-1,3-Dichloropropene	8.55	0.50	µg/L	10.0		85.5		70-130				
trans-1,3-Dichloropropene	9.37	0.50	µg/L	10.0		93.7		70-130				
Ethylbenzene	8.87	1.0	µg/L	10.0		88.7		70-130				
2-Hexanone (MBK)	65.2	10	µg/L	100		**65.2**	*	70-160			L-07	†
Iodomethane	10.4	10	µg/L	10.0		104		70-130				
Methylene Chloride	12.7	5.0	µg/L	10.0		127		70-130			V-20	
4-Methyl-2-pentanone (MIBK)	69.1	10	µg/L	100		**69.1**	*	70-160			L-07	†
Styrene	8.85	1.0	µg/L	10.0		88.5		70-130				
1,1,1,2-Tetrachloroethane	9.40	1.0	µg/L	10.0		94.0		70-130				
1,1,2,2-Tetrachloroethane	8.51	0.50	µg/L	10.0		85.1		70-130				
Tetrachloroethylene	9.14	1.0	µg/L	10.0		91.4		70-130				
Toluene	8.72	1.0	µg/L	10.0		87.2		70-130				
1,1,1-Trichloroethane	9.01	1.0	µg/L	10.0		90.1		70-130				
1,1,2-Trichloroethane	8.95	1.0	µg/L	10.0		89.5		70-130				
Trichloroethylene	8.60	1.0	µg/L	10.0		86.0		70-130				
Trichlorofluoromethane (Freon 11)	8.75	2.0	µg/L	10.0		87.5		70-130				
1,2,3-Trichloropropane	7.99	2.0	µg/L	10.0		79.9		70-130				
Vinyl Acetate	53.6	20	µg/L	100		**53.6**	*	70-130				
Vinyl Chloride	5.96	2.0	µg/L	10.0		59.6		40-160				†
m+p Xylene	17.5	2.0	µg/L	20.0		87.4		70-130				
o-Xylene	8.73	1.0	µg/L	10.0		87.3		70-130				
Surrogate: 1,2-Dichloroethane-d4	*23.3*		µg/L	25.0		93.2		70-130				
Surrogate: Toluene-d8	*25.3*		µg/L	25.0		101		70-130				
Surrogate: 4-Bromofluorobenzene	*24.4*		µg/L	25.0		97.4		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B087524 - SW-846 5030B													
LCS Dup (B087524-BSD1)				Prepared & Analyzed: 12/20/13									
Acetone	72.4	50	µg/L	100		72.4		70-160	2.32		25		†
Acrylonitrile	7.94	5.0	µg/L	10.0		79.4		70-130	8.67		25		
Benzene	7.70	1.0	µg/L	10.0		77.0		70-130	8.46		25		
Bromochloromethane	7.28	1.0	µg/L	10.0		72.8		70-130	12.4		25		
Bromodichloromethane	8.69	0.50	µg/L	10.0		86.9		70-130	6.78		25		
Bromoform	9.27	1.0	µg/L	10.0		92.7		70-130	0.752		25		
Bromomethane	8.07	2.0	µg/L	10.0		80.7		40-160	7.72		25	V-20	†
2-Butanone (MEK)	88.0	20	µg/L	100		88.0		40-160	16.9		25		†
Carbon Disulfide	8.72	4.0	µg/L	10.0		87.2		70-130	13.7		25		
Carbon Tetrachloride	8.49	5.0	µg/L	10.0		84.9		70-130	9.00		25		
Chlorobenzene	8.16	1.0	µg/L	10.0		81.6		70-130	6.98		25		
Chlorodibromomethane	9.32	0.50	µg/L	10.0		93.2		70-130	5.02		25		
Chloroethane	8.81	2.0	µg/L	10.0		88.1		70-130	12.8		25		
Chloroform	7.79	2.0	µg/L	10.0		77.9		70-130	12.7		25		
Chloromethane	5.63	2.0	µg/L	10.0		56.3		40-160	24.2		25		†
1,2-Dibromo-3-chloropropane (DBCP)	8.37	5.0	µg/L	10.0		83.7		70-130	14.9		25		
1,2-Dibromoethane (EDB)	8.82	0.50	µg/L	10.0		88.2		70-130	0.791		25		
Dibromomethane	8.59	1.0	µg/L	10.0		85.9		70-130	1.50		25		
1,2-Dichlorobenzene	7.86	1.0	µg/L	10.0		78.6		70-130	5.69		25		
1,4-Dichlorobenzene	8.19	1.0	µg/L	10.0		81.9		70-130	9.20		25		
trans-1,4-Dichloro-2-butene	6.35	2.0	µg/L	10.0		**63.5**	*	70-130	16.7		25	L-04, V-05	
1,1-Dichloroethane	8.27	1.0	µg/L	10.0		82.7		70-130	11.1		25		
1,2-Dichloroethane	8.05	1.0	µg/L	10.0		80.5		70-130	5.20		25		
1,1-Dichloroethylene	7.67	1.0	µg/L	10.0		76.7		70-130	10.5		25		
cis-1,2-Dichloroethylene	7.95	1.0	µg/L	10.0		79.5		70-130	12.2		25		
trans-1,2-Dichloroethylene	7.89	1.0	µg/L	10.0		78.9		70-130	12.5		25		
1,2-Dichloropropane	8.04	1.0	µg/L	10.0		80.4		70-130	7.19		25		
cis-1,3-Dichloropropene	8.16	0.50	µg/L	10.0		81.6		70-130	4.67		25		
trans-1,3-Dichloropropene	8.91	0.50	µg/L	10.0		89.1		70-130	5.03		25		
Ethylbenzene	8.35	1.0	µg/L	10.0		83.5		70-130	6.04		25		
2-Hexanone (MBK)	79.6	10	µg/L	100		79.6		70-160	19.8		25		†
Iodomethane	7.09	10	µg/L	10.0		70.9		70-130	**38.0**	*	25	J	
Methylene Chloride	11.8	5.0	µg/L	10.0		118		70-130	7.16		25	V-20	
4-Methyl-2-pentanone (MIBK)	77.0	10	µg/L	100		77.0		70-160	10.9		25		†
Styrene	8.60	1.0	µg/L	10.0		86.0		70-130	2.87		25		
1,1,1,2-Tetrachloroethane	8.63	1.0	µg/L	10.0		86.3		70-130	8.54		25		
1,1,2,2-Tetrachloroethane	9.26	0.50	µg/L	10.0		92.6		70-130	8.44		25		
Tetrachloroethylene	8.87	1.0	µg/L	10.0		88.7		70-130	3.00		25		
Toluene	8.21	1.0	µg/L	10.0		82.1		70-130	6.02		25		
1,1,1-Trichloroethane	8.06	1.0	µg/L	10.0		80.6		70-130	11.1		25		
1,1,2-Trichloroethane	8.49	1.0	µg/L	10.0		84.9		70-130	5.28		25		
Trichloroethylene	8.05	1.0	µg/L	10.0		80.5		70-130	6.61		25		
Trichlorofluoromethane (Freon 11)	7.69	2.0	µg/L	10.0		76.9		70-130	12.9		25		
1,2,3-Trichloropropane	8.52	2.0	µg/L	10.0		85.2		70-130	6.42		25		
Vinyl Acetate	56.8	20	µg/L	100		**56.8**	*	70-130	5.84		25		
Vinyl Chloride	4.82	2.0	µg/L	10.0		48.2		40-160	21.2		25		†
m+p Xylene	16.6	2.0	µg/L	20.0		83.0		70-130	5.10		25		
o-Xylene	8.22	1.0	µg/L	10.0		82.2		70-130	6.02		25		
Surrogate: 1,2-Dichloroethane-d4	*22.3*		µg/L	25.0		89.2		70-130					
Surrogate: Toluene-d8	*25.7*		µg/L	25.0		103		70-130					
Surrogate: 4-Bromofluorobenzene	*25.2*		µg/L	25.0		101		70-130					

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B087494 - SW-846 7470A Prep										
Blank (B087494-BLK1)				Prepared & Analyzed: 12/20/13						
Mercury	ND	0.10	µg/L							
LCS (B087494-BS1)				Prepared & Analyzed: 12/20/13						
Mercury	1.88	0.10	µg/L	2.00		94.0	80-120			
LCS Dup (B087494-BSD1)				Prepared & Analyzed: 12/20/13						
Mercury	1.88	0.10	µg/L	2.00		94.0	80-120	0.00425	20	
Batch B087555 - SW-846 3005A										
Blank (B087555-BLK1)				Prepared: 12/20/13 Analyzed: 12/23/13						
Arsenic	ND	0.80	µg/L							
Barium	ND	20	µg/L							
Cadmium	ND	1.0	µg/L							
Chromium	ND	20	µg/L							
Lead	ND	2.0	µg/L							
Selenium	ND	10	µg/L							
Silver	ND	1.0	µg/L							
LCS (B087555-BS1)				Prepared: 12/20/13 Analyzed: 12/23/13						
Arsenic	534	4.0	µg/L	500		107	80-120			
Barium	526	100	µg/L	500		105	80-120			
Cadmium	547	5.0	µg/L	500		109	80-120			
Chromium	543	100	µg/L	500		109	80-120			
Lead	533	10	µg/L	500		107	80-120			
Selenium	548	50	µg/L	500		110	80-120			
Silver	507	5.0	µg/L	500		101	80-120			
LCS Dup (B087555-BSD1)				Prepared: 12/20/13 Analyzed: 12/23/13						
Arsenic	546	4.0	µg/L	500		109	80-120	2.20	20	
Barium	537	100	µg/L	500		107	80-120	1.97	20	
Cadmium	547	5.0	µg/L	500		109	80-120	0.109	20	
Chromium	560	100	µg/L	500		112	80-120	3.06	20	
Lead	544	10	µg/L	500		109	80-120	2.01	20	
Selenium	544	50	µg/L	500		109	80-120	0.666	20	
Silver	472	5.0	µg/L	500		94.4	80-120	7.06	20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6020A in Water	
Arsenic	CT,NH,NY,NC,ME,VA,NJ
Barium	CT,NH,NY,NC,ME,VA,NJ
Cadmium	CT,NH,NY,RI,NC,ME,VA,NJ
Chromium	CT,NH,NY,NC,ME,VA,NJ
Lead	CT,NH,NY,NC,ME,VA,NJ
Selenium	CT,NH,NY,NC,ME,VA,NJ
Silver	CT,NH,NY,NC,ME,VA,NJ
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA,NJ
SW-846 8260B in Water	
Acetone	CT,NH,NY,NC,ME
Acrylonitrile	CT,NY,NC,ME
Benzene	CT,NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
Carbon Disulfide	CT,NH,NY,NC,ME
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
Dibromomethane	NH,NY,NC,ME
1,2-Dichlorobenzene	CT,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
trans-1,4-Dichloro-2-butene	NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
1,3-Dichloropropane	NY,NC,ME
1,1-Dichloropropene	NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
Ethylbenzene	CT,NH,NY,NC,ME
Hexachlorobutadiene	CT,NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Iodomethane	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Water	
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC,ME
Styrene	CT,NH,NY,NC,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Toluene	CT,NH,NY,NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME
1,1,2-Trichloroethane	CT,NH,NY,NC,ME
Trichloroethylene	CT,NH,NY,NC,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME
1,2,3-Trichloropropane	NH,NY,NC,ME
Vinyl Acetate	NH,NY,NC,ME
Vinyl Chloride	CT,NH,NY,NC,ME
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014

Rev 11.09.2012

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www.contestlabs.com

CHAIN OF CUSTODY RECORD

13L0759

39 Spruce Street
East longmeadow, MA 01028

Company Name: E2S
Address: 3008 Anderson Dr. St. 102
Raleigh, NC 27603
Attention: Pat Shillington
Project Location: Hoke
Sampled By: RWB

Telephone: (919) 781-7798
Project #
Client PO#

DATA DELIVERY (check all that apply)
O FAX ☑ EMAIL O WEBSITE
Fax #
Email: e2s@bellsouth.net
Format: ☑ PDF O EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
O yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	8260 (47 VOCs)	Total RCRA Metals	# of Containers	** Preservation	***Container Code
01	MW-1	12/17/13	12:17		X			X	X			
02	MW-2	↓	1:36		X			X	X			
03	MW-3	↓	1:05		X			X	X			
04	MW-5	↓	2:07		X			X	X			
05	MW-6	↓	11:55		X			X	X			
06	MS	↓	2:57		X			X	X			
07	DS	↓	2:41		X			X	X			
08	VS	↓	2:25		X			X	X			

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 12/18/13 1600
Received by: (signature)	Date/Time: 12/18/13 1600
Relinquished by: (signature)	Date/Time: 12/18/13 1900
Received by: (signature) Kenneth B 2.9°	Date/Time: 12/19/13 1236

Turnaround †
☐ 5-Day
☐ 7 Day
☐ 10-Day
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
North Carolina
☐ 2L
☐ GWPC
☑ SWSL
☐ IHSB
☐ Other _____

Program Information
O DSCA
☑ SWS Landfill
O Other:
O IHSB Orphaned Landfill
O UST
O REC
NELAC & AIHA-LAP, LLC
Accredited
WBE/DBE Certified

† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED. PLEASE BE CAREFUL TO NOT CONTAMINATE THIS DOCUMENT

Search Results (388 Records) - 12/8/2010 3:49:53 PM

All units are in (ug/L) unless noted.
NE = Not Established
CAS numbers that begin with "SW" are not real CAS numbers, instead this represents the Solid Waste Section's ID
Names in green signify Appendix I and II Constituents

CAS Number	Name	Other Names	2L Std.	GWP* Std.	SWSL **	SW ID
630-20-6	1,1,1,2-Tetrachloroethane	Ethane, 1,1,1,2-tetrachloro-	NE	1	5	190
71-55-6	1,1,1-Trichloroethane; Methylchloroform	Ethane, 1,1,1-trichloro-	200	--	1	200
79-34-5	1,1,2,2-Tetrachloroethane	Ethane, 1,1,2,2-tetrachloro-	0.2	0.18	3	191
79-00-5	1,1,2-Trichloroethane	Ethane, 1,1,2-trichloro-	NE	0.6	1	202
75-34-3	1,1-Dichloroethane; Ethylidene chloride	Ethane, 1,1-dichloro-	6	--	5	75
75-35-4	1,1-Dichloroethylene; 1,1-Dichloroethene;	Ethene, 1,1-dichloro-	7	--	5	77
96-18-4	1,2,3-Trichloropropane	Propane, 1,2,3-trichloro-	0.005	--	1	206
96-12-8	1,2-Dibromo-3-chloropropane; DBCP	Propane, 1,2-dibromo-3-chloro-	0.04	--	13	67
106-93-4	1,2-Dibromoethane; Ethylene dibromide; EDB	Ethane, 1,2-dibromo-	0.02	--	1	68
107-06-2	1,2-Dichloroethane; Ethylene dichloride	Ethane, 1,2-dichloro-	0.4	--	1	76
78-87-5	1,2-Dichloropropane	Propane, 1,2-dichloro-	0.6	--	1	82
591-78-6	2-Hexanone; Methyl butyl ketone	2-Hexanone	NE	280	50	124
108-10-1	4-Methyl-2-pentanone; Methyl isobutyl ketone	2-Pentanone, 4-methyl-	NE	560	100	147
67-64-1	Acetone	2-Propanone	6000	--	100	3
107-13-1	Acrylonitrile	2-Propenenitrile	NE	NE	200	8
71-43-2	Benzene	Benzene	1	--	1	16
74-97-5	Bromochloromethane; Chlorobromethane	Methane, bromochloro-	NE	0.6	3	28
75-27-4	Bromodichloromethane; Dichlorobromomethane	Methane, bromodichloro-	0.6	--	1	29
75-25-2	Bromoform; Tribromomethane	Methane, tribromo-	4	--	3	30
75-15-0	Carbon disulfide	Carbon disulfide	700	--	100	35
56-23-5	Carbon tetrachloride	Methane, tetrachloro-	0.3	--	1	36
108-90-7	Chlorobenzene	Benzene, chloro-	50	--	3	39
75-00-3	Chloroethane; Ethyl chloride	Ethane, chloro-	3000	--	10	41
67-66-3	Chloroform; Trichloromethane	Methane, trichloro-	70	--	5	44
156-59-2	cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene	Ethene, 1,2-dichloro-,(Z)-	70	--	5	78
10061-01-5	cis-1,3-Dichloropropene	1-Propene, 1,3-dichloro-, (Z)-	0.4	--	1	86
124-48-1	Dibromochloromethane; Chlorodibromomethane	Methane, dibromochloro-	0.4	0.41	3	66
100-41-4	Ethylbenzene	Benzene, ethyl-	600	--	1	110
74-83-9	Methyl bromide; Bromomethane	Methane, bromo-	NE	10	10	136
74-87-3	Methyl chloride; Chloromethane	Methane, chloro-	3	--	1	137
78-93-3	Methyl ethyl ketone; MEK; 2-Butanone	2-Butanone	4000	--	100	141
74-88-4	Methyl iodide; Iodomethane	Methane, iodo-	NE	NE	10	142
74-95-3	Methylene bromide; Dibromomethane	Methane, dibromo-	NE	70	10	139
75-09-2	Methylene chloride; Dichloromethane	Methane, dichloro-	5	--	1	140
95-50-1	o-Dichlorobenzene; 1,2-Dichlorobenzene	Benzene, 1,2-dichloro-	20	--	5	69
106-46-7	p-Dichlorobenzene; 1,4-Dichlorobenzene	Benzene, 1,4-dichloro-	6	--	1	71
100-42-5	Styrene	Benzene, ethenyl-	70	--	1	186
127-18-4	Tetrachloroethylene; Tetrachloroethene; Perchloroethylene	Ethene, tetrachloro-	0.7	--	1	192

108-88-3	Toluene	Benzene, methyl-	600	--	1	196
156-60-5	trans-1,2-Dichloroethylene; trans-1,2-Dichloroethene	Ethene, 1,2-dichloro-,(E)-	100	--	5	79
10061-02-6	trans-1,3-Dichloropropene	1-Propene, 1,3-dichloro-, (E)-	0.4	--	1	87
110-57-6	trans-1,4-Dichloro-2-butene	2-Butene, 1,4-dichloro-, (E)-	NE	NE	100	73
79-01-6	Trichloroethylene; Trichloroethene	Ethene, trichloro-	3	--	1	201
75-69-4	Trichlorofluoromethane; CFC-11	Methane,trichlorofluoro-	2000	--	1	203
108-05-4	Vinyl acetate	Acetic acid, ethenylester	NE	88	50	210
75-01-4	Vinyl chloride; Chloroethene	Ethene, chloro-	0.03	--	1	211
1330-20-7	Xylene (total)	dimethyl	500	--	5	346

* GWP = Groundwater Protection
** SWSL = Solid Waste Section Limit

	METALS					
CAS Number	Name	Other Names	2L Std.	GWP* Std.	SWSL**	SW ID
7440-38-2	Arsenic	Arsenic	10	--	10	14
7440-39-3	Barium	Barium	700	--	100	15
7440-43-9	Cadmium	Cadmium	2	--	1	34
7440-47-3	Chromium	Chromium	10	--	10	51
7439-92-1	Lead	Lead	15	--	10	131
7439-97-6	Mercury	Mercury	1	--	0.2	132
7782-49-2	Selenium	Selenium	20	--	10	183
7440-22-4	Silver	Silver	20	--	10	184

FedEx

804244898860

Ship (P/U) date :
Wed 12/18/2013 6:56 pm
EAST LONGMEADOW, MA US

Delivered
Signed for by: C MILLER

Actual delivery :
Thur 12/19/2013 12:36 pm
EAST LONGMEADOW, MA US

2 Piece shipment

Travel History

Date/Time	Activity	Location
- 12/19/2013 - Thursday		
12:36 pm	Delivered	EAST LONGMEADOW, MA
9:47 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
9:40 am	At local FedEx facility	WINDSOR LOCKS, CT
6:54 am	At destination sort facility	EAST GRANBY, CT
5:22 am	Departed FedEx location	INDIANAPOLIS, IN
12:07 am	Arrived at FedEx location	INDIANAPOLIS, IN
- 12/18/2013 - Wednesday		
8:54 pm	Left FedEx origin facility	RALEIGH, NC
6:56 pm	Picked up Tendered at FedEx Office	RALEIGH, NC

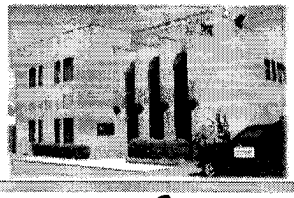
Local Scan Time

Shipment Facts

Tracking number	804244898860	**Service**	FedEx Priority Overnight
Master tracking number	804244898860	**Dimensions**	13x10x9 in.
Delivered To	Shipping/Receiving	**Total pieces**	2
Total shipment weight	102 lbs / 46.3 kgs	**Shipper reference**	80
Packaging	Your Packaging	**Special handling section**	Deliver Weekday

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: E2S **RECEIVED BY:** KOB **DATE:** 12-19-13

1) Was the chain(s) of custody relinquished and signed? Yes No **No CoC Included**

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.9°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic	8	Non-ConTest Container	
40 mL Vial - type listed below	16	Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl 16 # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved

Time and Date Frozen:

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Rev. 4 August 2013

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** KOJ **Date/Time:** 12-19-13 1236