E²S

ENGINEERING & ENVIRONMENTAL SCIENCE COMPANY

3008 ANDERSON DRIVE, SUITE 102

RALEIGH, NC 27609

(919) 781-7798

January 9, 2012

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

RE: Monitoring Well Test Results
For 12/19/2011 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) wells and three (3) surface water samples at the Hoke County Landfill. The sampling was conducted on December 19, 2011. 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

Attachment A: Table
Attachment B: Analytical Test Results

ATTACHMENT A:
Table

Facilty Permit	Well ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	COLLECTION DATE	ANALYSIS DATE	2L Standard	NCAC 2B Surface Water	SWSL
19-01	MW-1	71-43-2	16	Benzene	**0.43**	ug/L	12/19/2011	12/23/2011	1	-	1
19-01	MW-1	78-93-3	141	Methyl ethyl ketone	**11**	ug/L	12/19/2011	12/23/2011	4000	-	100
19-01	MW-1	106-46-7	71	1,4-Dichlorobenzene	**0.19**	ug/L	12/19/2011	12/23/2011	6	-	1
19-01	MW-1	75-34-3	75	1,1-Dichloroethane	**0.87**	ug/L	12/19/2011	12/23/2011	6	-	5
19-01	MW-1	156-59-2	78	cis-1,2-Dichloroethylene	**0.29**	ug/L	12/19/2011	12/23/2011	70	-	5
19-01	MW-1	108-88-3	196	Toluene	**0.16**	ug/L	12/19/2011	12/23/2011	600	-	1
19-01	MW-1	79-01-6	201	Trichloroethylene	**0.39**	ug/L	12/19/2011	12/23/2011	3		1
19-01	MW-1	75-01-4	211	Vinyl Chloride	**0.48**	ug/L	12/19/2011	12/23/2011	0.03	-	1
19-01	MW-1	1330-20-7	346	m+p Xylene	**0.26**	ug/L	12/19/2011	12/23/2011	500	-	5
19-01	MW-1	1330-20-7	346	o-Xylene	**0.15**	ug/L	12/19/2011	12/23/2011	500	-	5
19-01	MW-1	7440-39-3	15	Barium	**43**	ug/L	12/19/2011	12/29/2011	700	-	100
19-01	MW-1	7440-43-9	34	Cadmium	**0.078**	ug/L	12/19/2011	12/29/2011	2	-	1
19-01	MW-1	7439-92-1	131	Lead	**0.31**	ug/L	12/19/2011	12/29/2011	15	-	10
19-01	MW-1			Well Elevation	251.19	ft.	12/19/2011				
19-01	MW-1			Groundwater Depth	55.85	ft.	12/19/2011				
19-01	MW-1			Water Level Elevation	195.34	ft.	12/19/2011				
19-01	MW-1			Temperature	17.6	C	12/19/2011				
19-01	MW-1			pH	5.3		12/19/2011				
19-01	MW-1			Conductivity	53	mV	12/19/2011				
19-01	MW-1			Total Suspended Solids	1439	ppm	12/19/2011				
19-01	MW-2	71-43-2	16	Benzene	**0.85**	ug/L	12/19/2011	12/23/2011	1	-	1
19-01	MW-2	108-90-7	39	Chlorobenzene	**3.1**	ug/L	12/19/2011	12/23/2011	50	-	3
19-01	MW-2	95-50-1	69	1,2-Dichlorobenzene	**0.37**	ug/L	12/19/2011	12/23/2011	20	-	5
19-01	MW-2	106-46-7	71	1,4 Dichlorobenzene	**2.4**	ug/L	12/19/2011	12/23/2011	6	-	1
19-01	MW-2	75-34-3	75	1,1-Dichloroethane	**1.2**	ug/L	12/19/2011	12/23/2011	6	-	5
19-01	MW-2	156-59-2	78	cis-1,2-Dichloroethylene	**2.4**	ug/L	12/19/2011	12/23/2011	70	-	5
19-01	MW-2	79-01-6	201	Trichloroethylene	**0.36**	ug/L	12/19/2011	12/23/2011	3		1
19-01	MW-2	75-01-4	211	Vinyl Chloride	**0.29**	ug/L	12/19/2011	12/23/2011	0.03	-	1
19-01	MW-2	7440-39-3	15	Barium	**43**	ug/L	12/19/2011	12/29/2011	700	-	100
19-01	MW-2	7440-43-9	34	Cadmium	**0.036**	ug/L	12/19/2011	12/29/2011	2	-	1
19-01	MW-2	7439-92-1	131	Lead	**1.6**	ug/L	12/19/2011	12/29/2011	15	-	10
19-01	MW-2	7439-97-6	346	Mercury	**0.086**	ug/L	12/19/2011	12/27/2011	500		5
19-01	MW-2			Well Elevation	217	ft.	12/19/2011				
19-01	MW-2			Groundwater Depth	19.01	ft.	12/19/2011				

Facilty Permit	Well ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	COLLECTION DATE	ANALYSIS DATE	2L Standard	NCAC 2B Surface Water	SWSL
19-01	MW-2			Water Level Elevation	197.99	ft.	12/19/2011				
19-01	MW-2			Temperature	15.4	C	12/19/2011				
19-01	MW-2			pH	5.4		12/19/2011				
19-01	MW-2			Conductivity	121	mV	12/19/2011				
19-01	MW-2			Total Suspended Solids	183	ppm	12/19/2011				
19-01	MW-3	71-43-2	16	Benzene	**3.1**	ug/L	12/19/2011	12/23/2011	1	-	1
19-01	MW-3	95-50-1	69	1,2-Dichlorobenzene	**0.22**	ug/L	12/19/2011	12/23/2011	20	-	5
19-01	MW-3	106-46-7	71	1,4 Dichlorobenzene	**5.9**	ug/L	12/19/2011	12/23/2011	6	-	1
19-01	MW-3	75-34-3	75	1,1 Dichloroethane	**2.5**	ug/L	12/19/2011	12/23/2011	6	-	5
19-01	MW-3	156-59-2	78	cis-1,2-Dichloroethylene	**5**	ug/L	12/19/2011	12/23/2011	70	-	5
19-01	MW-3	100-41-4	110	Ethylbenzene	**0.19**	ug/L	12/19/2011	12/23/2011	600	-	1
19-01	MW-3	108-88-3	196	Toluene	**0.14**	ug/L	12/19/2011	12/23/2011	600	-	1
19-01	MW-3	79-01-6	201	Trichloroethylene	**0.74**	ug/L	12/19/2011	12/23/2011	3		1
19-01	MW-3	75-01-4	211	Vinyl Chloride	**0.88**	ug/L	12/19/2011	12/29/2011	0.03	-	1
19-01	MW-3	7440-39-3	15	Barium	**64**	ug/L	12/19/2011	12/29/2011	700	-	100
19-01	MW-3	7440-43-9	34	Cadmium	**0.16**	ug/L	12/19/2011	12/29/2011	2	-	1
19-01	MW-3	7439-92-1	131	Lead	**2.7**	ug/L	12/19/2011	12/29/2011	15	-	10
19-01	MW-3	7439-97-6	346	Mercury	**0.071**	ug/L	12/19/2011	12/27/2011	500		5
19-01	MW-3			Well Elevation	212.64	ft.	12/19/2011				
19-01	MW-3			Groundwater Depth	28.6	ft.	12/19/2011				
19-01	MW-3			Water Level Elevation	184.04	ft.	12/19/2011				
19-01	MW-3			Temperature	15.5	C	12/19/2011				
19-01	MW-3			pH	5.8		12/19/2011				
19-01	MW-3			Conductivity	11	mV	12/19/2011				
19-01	MW-3			Total Suspended Solids	211	ppm	12/19/2011				
19-01	MW-5	71-43-2	16	Benzene	**5.5**	ug/L	12/19/2011	12/23/2011	1	-	1
19-01	MW-5	108-90-7	39	Chlorobenzene	**63**	ug/L	12/19/2011	12/23/2011	50	-	3
19-01	MW-5	95-50-1	69	1,2-Dichlorobenzene	**2.1**	ug/L	12/19/2011	12/23/2011	20	-	5
19-01	MW-5	106-46-7	71	1,4 Dichlorobenzene	**6.6**	ug/L	12/19/2011	12/23/2011	6	-	1
19-01	MW-5	156-59-2	78	cis-1,2-Dichloroethylene	**5.1**	ug/L	12/19/2011	12/23/2011	70	-	5
19-01	MW-5	108-88-3	196	Toluene	**0.14**	ug/L	12/19/2011	12/23/2011	600	-	1
19-01	MW-5	79-01-6	201	Trichloroethylene	**0.29**	ug/L	12/19/2011	12/23/2011	3		1
19-01	MW-5	75-01-4	211	Vinyl Chloride	**3**	ug/L	12/19/2011	12/23/2011	0.03	-	1
19-01	MW-5	7440-39-3	15	Barium	**36**	ug/L	12/19/2011	12/29/2011	700	-	100

Facilty Permit	Well ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	COLLECTION DATE	ANALYSIS DATE	2L Standard	NCAC 2B Surface Water	SWSL
19-01	MW-5	7439-92-1	131	Lead	**0.56**	ug/L	12/19/2011	12/29/2011	15	-	10
19-01	MW-5			Well Elevation	227.81	ft.	12/19/2011				
19-01	MW-5			Groundwater Depth	23.99	ft.	12/19/2011				
19-01	MW-5			Water Level Elevation	203.82	ft.	12/19/2011				
19-01	MW-5			Temperature	15.7	C	12/19/2011				
19-01	MW-5			pH	5.9		12/19/2011				
19-01	MW-5			Conductivity	9	mV	12/19/2011				
19-01	MW-5			Total Suspended Solids	438	ppm	12/19/2011				
19-01	MW-6	71-43-2	16	Benzene	**2.8**	ug/L	12/19/2011	12/23/2011	1	-	1
19-01	MW-6	108-90-7	39	Chlorobenzene	**4.8**	ug/L	12/19/2011	12/23/2011	50	-	3
19-01	MW-6	95-50-1	69	1,2-Dichlorobenzene	**0.4**	ug/L	12/19/2011	12/23/2011	20	-	5
19-01	MW-6	106-46-7	71	1,4 Dichlorobenzene	**5.6**	ug/L	12/19/2011	12/23/2011	6	-	1
19-01	MW-6	75-34-3	75	1,1-Dichloroethane	**2**	ug/L	12/19/2011	12/23/2011	6	-	5
19-01	MW-6	156-59-2	78	cis-1,2-Dichloroethylene	**5.8**	ug/L	12/19/2011	12/23/2011	70	-	5
19-01	MW-6	100-41-4	110	Ethylbenzene	**0.29**	ug/L	12/19/2011	12/23/2011	600	-	1
19-01	MW-6	108-88-3	196	Toluene	**0.21**	ug/L	12/19/2011	12/23/2011	600	-	1
19-01	MW-6	79-01-6	201	Trichloroethylene	**0.85**	ug/L	12/19/2011	12/23/2011	3		1
19-01	MW-6	75-01-4	211	Vinyl Chloride	**1.1**	ug/L	12/19/2011	12/23/2011	0.03	-	1
19-01	MW-6	1330-20-7	346	o-Xylene	**0.15**	ug/L	12/19/2011	12/23/2011	500	-	5
19-01	MW-6	7440-39-3	15	Barium	**72**	ug/L	12/19/2011	12/29/2011	700	-	100
19-01	MW-6	7439-97-6	346	Mercury	**0.19**	ug/L	12/19/2011	12/27/2011	500		5
19-01	MW-6	7439-92-1	131	Lead	**1.2**	ug/L	12/19/2011	12/29/2011	15	-	10
19-01	MW-6			Well Elevation	204.65	ft.	12/19/2011				
19-01	MW-6			Groundwater Depth	38.2	ft.	12/19/2011				
19-01	MW-6			Water Level Elevation	166.45	ft.	12/19/2011				
19-01	MW-6			Temperature	16.8	C	12/19/2011				
19-01	MW-6			pH	6.4		12/19/2011				
19-01	MW-6			Conductivity	75	mV	12/19/2011				
19-01	MW-6			Total Suspended Solids	1480	ppm	12/19/2011				
19-01	US	74-87-3	137	Chloromethane	**0.22**	ug/L	12/19/2011	12/26/2011	3	---	1
19-01	US	74-88-4	142	Iodomethane	**1.3**	ug/L	12/19/2011	12/26/2011	NE	NE	10
19-01	US	7440-39-3	15	Barium	**21**	ug/L	12/19/2011	12/29/2011	700	-	100
19-01	US	7439-92-1	131	Lead	**0.33**	ug/L	12/19/2011	12/29/2011	15	25	10
19-01	MS	7440-39-3	15	Barium	**22**	ug/L	12/19/2011	12/29/2011	700	-	100

Facilty Permit	Well ID	CAS Number	SWS ID	PARAMETER	RESULT	UNITS	COLLECTION DATE	ANALYSIS DATE	2L Standard	NCAC 2B Surface Water	SWSL
19-01	MS	7439-92-1	131	Lead	**2.6**	ug/L	12/19/2011	12/29/2011	15	25	10
19-01	DS	108-90-7	39	Chlorobenzene	**1.5**	ug/L	12/19/2011	12/24/2011	50	-	3
19-01	DS	106-46-7	71	1,4 Dichlorobenzene	**0.3**	ug/L	12/19/2011	12/24/2011	6	-	1
19-01	DS	108-88-3	196	Toluene	**0.23**	ug/L	12/19/2011	12/24/2011	600	-	1
19-01	DS	7440-39-3	15	Barium	**28**	ug/L	12/19/2011	12/29/2011	700	-	100
19-01	DS	7439-92-1	131	Lead	**0.2**	ug/L	12/19/2011	12/29/2011	15	25	10

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 3, 2012

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

Project Location: Hoke County Landfill
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 11L0864

Enclosed are results of analyses for samples received by the laboratory on December 21, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Holly L. Folsom

Holly L. Folsom
Project Manager

con-test®
ANALYTICAL LABORATORY

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: 1/3/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11L0864

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

PROJECT LOCATION: Hoke County Landfill

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-1	11L0864-01	Ground Water		SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260C	
MW-6	11L0864-02	Ground Water		SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260C	
MW-2	11L0864-03	Ground Water		SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260C	
MW-3	11L0864-04	Ground Water		SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260C	
MW-5	11L0864-05	Ground Water		SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260C	
DS	11L0864-06	Ground Water		SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260C	
MS	11L0864-07	Ground Water		SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260C	
US	11L0864-08	Ground Water		SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260C	

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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.

For method 3030C, the laboratory received samples after the recommended holding time for filtration.

SW-846 8260C

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:

1,2-Dibromo-3-chloropropane (DBCP)

11L0864-01[MW-1], 11L0864-02[MW-6], 11L0864-03[MW-2], 11L0864-04[MW-3], 11L0864-05[MW-5], 11L0864-06[DS], 11L0864-07[MS], 11L0864-08[US], B043394-BLK1, B043394-BS1, B043394-BSD1, B043428-BLK1, B043428-BS1, B043428-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:

Methylene Chloride

B043428-BS1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B043428-BS1

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Acetone, Bromomethane

11L0864-08[US], B043428-BLK1, B043428-BS1, B043428-BSD1

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:

1,2-Dibromo-3-chloropropane (DBCP), Iodomethane, Methylene Chloride

11L0864-01[MW-1], 11L0864-02[MW-6], 11L0864-03[MW-2], 11L0864-04[MW-3], 11L0864-05[MW-5], 11L0864-06[DS], 11L0864-07[MS], 11L0864-08[US], B043394-BLK1, B043394-BS1, B043394-BSD1, B043428-BLK1, B043428-BS1, B043428-BSD1

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ANALYTICAL LABORATORY

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

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 individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill
Sample Description:
Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: MW-1
Sampled: 12/19/2011 11:11

Sample ID: 11L0864-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	0.54	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Acrylonitrile	ND	5.0	0.51	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Benzene	0.43	1.0	0.050	µg/L	1	J	SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Bromochloromethane	ND	1.0	0.10	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Bromodichloromethane	ND	0.50	0.080	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Bromoform	ND	1.0	0.25	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Bromomethane	ND	2.0	0.38	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
2-Butanone (MEK)	11	20	0.41	µg/L	1	J	SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Carbon Disulfide	ND	2.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Carbon Tetrachloride	ND	5.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Chlorobenzene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Chlorodibromomethane	ND	0.50	0.12	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Chloroethane	ND	2.0	0.33	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Chloroform	ND	2.0	0.040	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Chloromethane	ND	2.0	0.13	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.48	µg/L	1	L-04, V-05	SW-846 8260C	12/23/11	12/23/11 22:34	TJR
1,2-Dibromoethane (EDB)	ND	0.50	0.14	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Dibromomethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
1,2-Dichlorobenzene	ND	1.0	0.060	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
1,4-Dichlorobenzene	0.19	1.0	0.11	µg/L	1	J	SW-846 8260C	12/23/11	12/23/11 22:34	TJR
trans-1,4-Dichloro-2-butene	ND	2.0	0.77	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
1,1-Dichloroethane	0.87	1.0	0.090	µg/L	1	J	SW-846 8260C	12/23/11	12/23/11 22:34	TJR
1,2-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
1,1-Dichloroethylene	ND	1.0	0.10	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
cis-1,2-Dichloroethylene	0.29	1.0	0.050	µg/L	1	J	SW-846 8260C	12/23/11	12/23/11 22:34	TJR
trans-1,2-Dichloroethylene	ND	1.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
cis-1,3-Dichloropropene	ND	0.50	0.070	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
trans-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Ethylbenzene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
2-Hexanone (MBK)	ND	10	0.66	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Iodomethane	ND	10	0.80	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Methylene Chloride	ND	5.0	2.3	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
4-Methyl-2-pentanone (MIBK)	ND	10	0.22	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Styrene	ND	1.0	0.060	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
1,1,1,2-Tetrachloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
1,1,2,2-Tetrachloroethane	ND	0.50	0.18	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Tetrachloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Toluene	0.16	1.0	0.040	µg/L	1	J	SW-846 8260C	12/23/11	12/23/11 22:34	TJR
1,1,1-Trichloroethane	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
1,1,2-Trichloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Trichloroethylene	0.39	1.0	0.12	µg/L	1	J	SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Trichlorofluoromethane (Freon 11)	ND	2.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill | Sample Description: | Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: MW-1 | Sampled: 12/19/2011 11:11

Sample ID: 11L0864-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,3-Trichloropropane	ND	2.0	0.21	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Vinyl Acetate	ND	20	12	µg/L	1		SW-846 8260C	12/23/11	12/23/11 22:34	TJR
Vinyl Chloride	0.48	2.0	0.16	µg/L	1	J	SW-846 8260C	12/23/11	12/23/11 22:34	TJR
m+p Xylene	0.26	2.0	0.070	µg/L	1	J	SW-846 8260C	12/23/11	12/23/11 22:34	TJR
o-Xylene	0.15	1.0	0.050	µg/L	1	J	SW-846 8260C	12/23/11	12/23/11 22:34	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	92.0	70-130		12/23/11 22:34
Toluene-d8	99.2	70-130		12/23/11 22:34
4-Bromofluorobenzene	98.8	70-130		12/23/11 22:34

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill
Sample Description:
Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: MW-1
Sampled: 12/19/2011 11:11

Sample ID: 11L0864-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	10	8.6	µg/L	1		SW-846 6010C	12/27/11	12/29/11 15:36	OP
Barium	0.043	0.050	0.015	mg/L	1	J	SW-846 6010C	12/27/11	12/29/11 15:36	OP
Cadmium	0.078	0.50	0.026	µg/L	1	J	SW-846 6020A	12/27/11	12/29/11 13:00	KSH
Chromium	ND	10	3.4	µg/L	1		SW-846 6010C	12/27/11	12/29/11 15:36	OP
Lead	0.31	1.0	0.12	µg/L	1	J	SW-846 6020A	12/27/11	12/29/11 13:00	KSH
Mercury	ND	0.10	0.040	µg/L	1		SW-846 7470A	12/23/11	12/27/11 11:00	AMR
Selenium	ND	5.0	2.5	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:00	KSH
Silver	ND	0.50	0.16	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:00	KSH

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill | Sample Description: | Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: MW-6 | Sampled: 12/19/2011 12:00

Sample ID: 11L0864-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	0.54	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Acrylonitrile	ND	5.0	0.51	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Benzene	2.8	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Bromochloromethane	ND	1.0	0.10	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Bromodichloromethane	ND	0.50	0.080	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Bromoform	ND	1.0	0.25	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Bromomethane	ND	2.0	0.38	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
2-Butanone (MEK)	ND	20	0.41	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Carbon Disulfide	ND	2.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Carbon Tetrachloride	ND	5.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Chlorobenzene	4.8	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Chlorodibromomethane	ND	0.50	0.12	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Chloroethane	ND	2.0	0.33	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Chloroform	ND	2.0	0.040	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Chloromethane	ND	2.0	0.13	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.48	µg/L	1	L-04, V-05	SW-846 8260C	12/23/11	12/23/11 23:06	TJR
1,2-Dibromoethane (EDB)	ND	0.50	0.14	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Dibromomethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
1,2-Dichlorobenzene	0.40	1.0	0.060	µg/L	1	J	SW-846 8260C	12/23/11	12/23/11 23:06	TJR
1,4-Dichlorobenzene	5.6	1.0	0.11	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
trans-1,4-Dichloro-2-butene	ND	2.0	0.77	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
1,1-Dichloroethane	2.0	1.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
1,2-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
1,1-Dichloroethylene	ND	1.0	0.10	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
cis-1,2-Dichloroethylene	5.8	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
trans-1,2-Dichloroethylene	ND	1.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
cis-1,3-Dichloropropene	ND	0.50	0.070	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
trans-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Ethylbenzene	0.29	1.0	0.050	µg/L	1	J	SW-846 8260C	12/23/11	12/23/11 23:06	TJR
2-Hexanone (MBK)	ND	10	0.66	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Iodomethane	ND	10	0.80	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Methylene Chloride	ND	5.0	2.3	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
4-Methyl-2-pentanone (MIBK)	ND	10	0.22	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Styrene	ND	1.0	0.060	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
1,1,1,2-Tetrachloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
1,1,2,2-Tetrachloroethane	ND	0.50	0.18	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Tetrachloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Toluene	0.21	1.0	0.040	µg/L	1	J	SW-846 8260C	12/23/11	12/23/11 23:06	TJR
1,1,1-Trichloroethane	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
1,1,2-Trichloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Trichloroethylene	0.85	1.0	0.12	µg/L	1	J	SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Trichlorofluoromethane (Freon 11)	ND	2.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill
Sample Description:
Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: MW-6
Sampled: 12/19/2011 12:00

Sample ID: 11L0864-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,3-Trichloropropane	ND	2.0	0.21	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Vinyl Acetate	ND	20	12	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
Vinyl Chloride	1.1	2.0	0.16	µg/L	1	J	SW-846 8260C	12/23/11	12/23/11 23:06	TJR
m+p Xylene	ND	2.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:06	TJR
o-Xylene	0.15	1.0	0.050	µg/L	1	J	SW-846 8260C	12/23/11	12/23/11 23:06	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	98.1	70-130		12/23/11 23:06
Toluene-d8	99.5	70-130		12/23/11 23:06
4-Bromofluorobenzene	98.1	70-130		12/23/11 23:06

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill | Sample Description: | Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: MW-6 | Sampled: 12/19/2011 12:00

Sample ID: 11L0864-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	10	8.6	µg/L	1		SW-846 6010C	12/27/11	12/29/11 16:00	OP
Barium	0.072	0.050	0.015	mg/L	1		SW-846 6010C	12/27/11	12/29/11 16:00	OP
Cadmium	ND	0.50	0.026	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:07	KSH
Chromium	ND	10	3.4	µg/L	1		SW-846 6010C	12/27/11	12/29/11 16:00	OP
Lead	1.2	1.0	0.12	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:07	KSH
Mercury	0.19	0.10	0.040	µg/L	1		SW-846 7470A	12/23/11	12/27/11 11:01	AMR
Selenium	ND	5.0	2.5	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:07	KSH
Silver	ND	0.50	0.16	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:07	KSH

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill | Sample Description: | Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: MW-2 | Sampled: 12/19/2011 12:45

Sample ID: 11L0864-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	0.54	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Acrylonitrile	ND	5.0	0.51	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Benzene	0.85	1.0	0.050	µg/L	1	J	SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Bromochloromethane	ND	1.0	0.10	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Bromodichloromethane	ND	0.50	0.080	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Bromoform	ND	1.0	0.25	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Bromomethane	ND	2.0	0.38	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
2-Butanone (MEK)	ND	20	0.41	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Carbon Disulfide	ND	2.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Carbon Tetrachloride	ND	5.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Chlorobenzene	3.1	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Chlorodibromomethane	ND	0.50	0.12	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Chloroethane	ND	2.0	0.33	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Chloroform	ND	2.0	0.040	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Chloromethane	ND	2.0	0.13	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.48	µg/L	1	L-04, V-05	SW-846 8260C	12/23/11	12/23/11 23:37	TJR
1,2-Dibromoethane (EDB)	ND	0.50	0.14	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Dibromomethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
1,2-Dichlorobenzene	0.37	1.0	0.060	µg/L	1	J	SW-846 8260C	12/23/11	12/23/11 23:37	TJR
1,4-Dichlorobenzene	2.4	1.0	0.11	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
trans-1,4-Dichloro-2-butene	ND	2.0	0.77	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
1,1-Dichloroethane	1.2	1.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
1,2-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
1,1-Dichloroethylene	ND	1.0	0.10	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
cis-1,2-Dichloroethylene	2.4	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
trans-1,2-Dichloroethylene	ND	1.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
cis-1,3-Dichloropropene	ND	0.50	0.070	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
trans-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Ethylbenzene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
2-Hexanone (MBK)	ND	10	0.66	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Iodomethane	ND	10	0.80	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Methylene Chloride	ND	5.0	2.3	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
4-Methyl-2-pentanone (MIBK)	ND	10	0.22	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Styrene	ND	1.0	0.060	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
1,1,1,2-Tetrachloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
1,1,2,2-Tetrachloroethane	ND	0.50	0.18	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Tetrachloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Toluene	ND	1.0	0.040	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
1,1,1-Trichloroethane	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
1,1,2-Trichloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Trichloroethylene	0.36	1.0	0.12	µg/L	1	J	SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Trichlorofluoromethane (Freon 11)	ND	2.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR

con-test®
ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill | Sample Description: | Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: MW-2 | Sampled: 12/19/2011 12:45

Sample ID: 11L0864-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,3-Trichloropropane	ND	2.0	0.21	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Vinyl Acetate	ND	20	12	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
Vinyl Chloride	0.29	2.0	0.16	µg/L	1	J	SW-846 8260C	12/23/11	12/23/11 23:37	TJR
m+p Xylene	ND	2.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR
o-Xylene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/23/11 23:37	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	94.2	70-130		12/23/11 23:37
Toluene-d8	100	70-130		12/23/11 23:37
4-Bromofluorobenzene	97.8	70-130		12/23/11 23:37

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill
Sample Description:
Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: MW-2
Sampled: 12/19/2011 12:45

Sample ID: 11L0864-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	10	8.6	µg/L	1		SW-846 6010C	12/27/11	12/29/11 16:05	OP
Barium	0.043	0.050	0.015	mg/L	1	J	SW-846 6010C	12/27/11	12/29/11 16:05	OP
Cadmium	0.036	0.50	0.026	µg/L	1	J	SW-846 6020A	12/27/11	12/29/11 13:11	KSH
Chromium	ND	10	3.4	µg/L	1		SW-846 6010C	12/27/11	12/29/11 16:05	OP
Lead	1.6	1.0	0.12	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:11	KSH
Mercury	0.086	0.10	0.040	µg/L	1	J	SW-846 7470A	12/23/11	12/27/11 11:03	AMR
Selenium	ND	5.0	2.5	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:11	KSH
Silver	ND	0.50	0.16	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:11	KSH

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill
Sample Description:
Work Order: 11L0864
Date Received: 12/21/2011
Field Sample #: MW-3
Sampled: 12/19/2011 13:20
Sample ID: 11L0864-04
Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	0.54	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Acrylonitrile	ND	5.0	0.51	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Benzene	3.1	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Bromochloromethane	ND	1.0	0.10	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Bromodichloromethane	ND	0.50	0.080	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Bromoform	ND	1.0	0.25	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Bromomethane	ND	2.0	0.38	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
2-Butanone (MEK)	ND	20	0.41	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Carbon Disulfide	ND	2.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Carbon Tetrachloride	ND	5.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Chlorobenzene	6.0	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Chlorodibromomethane	ND	0.50	0.12	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Chloroethane	ND	2.0	0.33	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Chloroform	ND	2.0	0.040	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Chloromethane	ND	2.0	0.13	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.48	µg/L	1	L-04, V-05	SW-846 8260C	12/23/11	12/24/11 0:09	TJR
1,2-Dibromoethane (EDB)	ND	0.50	0.14	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Dibromomethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
1,2-Dichlorobenzene	0.22	1.0	0.060	µg/L	1	J	SW-846 8260C	12/23/11	12/24/11 0:09	TJR
1,4-Dichlorobenzene	5.9	1.0	0.11	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
trans-1,4-Dichloro-2-butene	ND	2.0	0.77	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
1,1-Dichloroethane	2.5	1.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
1,2-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
1,1-Dichloroethylene	ND	1.0	0.10	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
cis-1,2-Dichloroethylene	5.0	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
trans-1,2-Dichloroethylene	ND	1.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
cis-1,3-Dichloropropene	ND	0.50	0.070	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
trans-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Ethylbenzene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
2-Hexanone (MBK)	ND	10	0.66	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Iodomethane	ND	10	0.80	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Methylene Chloride	ND	5.0	2.3	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
4-Methyl-2-pentanone (MIBK)	ND	10	0.22	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Styrene	ND	1.0	0.060	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
1,1,1,2-Tetrachloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
1,1,2,2-Tetrachloroethane	ND	0.50	0.18	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Tetrachloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Toluene	0.14	1.0	0.040	µg/L	1	J	SW-846 8260C	12/23/11	12/24/11 0:09	TJR
1,1,1-Trichloroethane	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
1,1,2-Trichloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Trichloroethylene	0.74	1.0	0.12	µg/L	1	J	SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Trichlorofluoromethane (Freon 11)	ND	2.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill | Sample Description: | Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: MW-3 | Sampled: 12/19/2011 13:20

Sample ID: 11L0864-04

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,3-Trichloropropane	ND	2.0	0.21	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Vinyl Acetate	ND	20	12	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
Vinyl Chloride	0.88	2.0	0.16	µg/L	1	J	SW-846 8260C	12/23/11	12/24/11 0:09	TJR
m+p Xylene	ND	2.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR
o-Xylene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:09	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	94.0	70-130		12/24/11 0:09
Toluene-d8	101	70-130		12/24/11 0:09
4-Bromofluorobenzene	96.2	70-130		12/24/11 0:09

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill | Sample Description: | Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: MW-3 | Sampled: 12/19/2011 13:20

Sample ID: 11L0864-04

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	10	8.6	µg/L	1		SW-846 6010C	12/27/11	12/29/11 16:27	OP
Barium	0.064	0.050	0.015	mg/L	1		SW-846 6010C	12/27/11	12/29/11 16:27	OP
Cadmium	0.16	0.50	0.026	µg/L	1	J	SW-846 6020A	12/27/11	12/29/11 13:14	KSH
Chromium	ND	10	3.4	µg/L	1		SW-846 6010C	12/27/11	12/29/11 16:27	OP
Lead	2.7	1.0	0.12	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:14	KSH
Mercury	0.071	0.10	0.040	µg/L	1	J	SW-846 7470A	12/23/11	12/27/11 11:04	AMR
Selenium	ND	5.0	2.5	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:14	KSH
Silver	ND	0.50	0.16	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:14	KSH

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill
Sample Description:
Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: MW-5
Sampled: 12/19/2011 13:45

Sample ID: 11L0864-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	0.54	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Acrylonitrile	ND	5.0	0.51	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Benzene	5.3	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Bromochloromethane	ND	1.0	0.10	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Bromodichloromethane	ND	0.50	0.080	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Bromoform	ND	1.0	0.25	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Bromomethane	ND	2.0	0.38	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
2-Butanone (MEK)	ND	20	0.41	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Carbon Disulfide	ND	2.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Carbon Tetrachloride	ND	5.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Chlorobenzene	63	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Chlorodibromomethane	ND	0.50	0.12	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Chloroethane	ND	2.0	0.33	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Chloroform	ND	2.0	0.040	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Chloromethane	ND	2.0	0.13	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.48	µg/L	1	L-04, V-05	SW-846 8260C	12/23/11	12/24/11 0:41	TJR
1,2-Dibromoethane (EDB)	ND	0.50	0.14	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Dibromomethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
1,2-Dichlorobenzene	2.1	1.0	0.060	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
1,4-Dichlorobenzene	6.6	1.0	0.11	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
trans-1,4-Dichloro-2-butene	ND	2.0	0.77	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
1,1-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
1,2-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
1,1-Dichloroethylene	ND	1.0	0.10	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
cis-1,2-Dichloroethylene	5.1	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
trans-1,2-Dichloroethylene	ND	1.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
cis-1,3-Dichloropropene	ND	0.50	0.070	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
trans-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Ethylbenzene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
2-Hexanone (MBK)	ND	10	0.66	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Iodomethane	ND	10	0.80	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Methylene Chloride	ND	5.0	2.3	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
4-Methyl-2-pentanone (MIBK)	ND	10	0.22	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Styrene	ND	1.0	0.060	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
1,1,1,2-Tetrachloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
1,1,2,2-Tetrachloroethane	ND	0.50	0.18	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Tetrachloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Toluene	0.14	1.0	0.040	µg/L	1	J	SW-846 8260C	12/23/11	12/24/11 0:41	TJR
1,1,1-Trichloroethane	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
1,1,2-Trichloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Trichloroethylene	0.29	1.0	0.12	µg/L	1	J	SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Trichlorofluoromethane (Freon 11)	ND	2.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill | Sample Description: | Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: MW-5 | Sampled: 12/19/2011 13:45

Sample ID: 11L0864-05

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,3-Trichloropropane	ND	2.0	0.21	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Vinyl Acetate	ND	20	12	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
Vinyl Chloride	3.0	2.0	0.16	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
m+p Xylene	ND	2.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR
o-Xylene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 0:41	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	95.3	70-130		12/24/11 0:41
Toluene-d8	100	70-130		12/24/11 0:41
4-Bromofluorobenzene	96.4	70-130		12/24/11 0:41

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill
Sample Description:
Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: MW-5
Sampled: 12/19/2011 13:45

Sample ID: 11L0864-05

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	10	8.6	µg/L	1		SW-846 6010C	12/27/11	12/29/11 16:33	OP
Barium	0.036	0.050	0.015	mg/L	1	J	SW-846 6010C	12/27/11	12/29/11 16:33	OP
Cadmium	ND	0.50	0.026	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:18	KSH
Chromium	ND	10	3.4	µg/L	1		SW-846 6010C	12/27/11	12/29/11 16:33	OP
Lead	0.56	1.0	0.12	µg/L	1	J	SW-846 6020A	12/27/11	12/29/11 13:18	KSH
Mercury	ND	0.10	0.040	µg/L	1		SW-846 7470A	12/23/11	12/27/11 11:06	AMR
Selenium	ND	5.0	2.5	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:18	KSH
Silver	ND	0.50	0.16	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:18	KSH

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill | Sample Description: | Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: DS | Sampled: 12/19/2011 14:00

Sample ID: 11L0864-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	0.54	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Acrylonitrile	ND	5.0	0.51	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Benzene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Bromochloromethane	ND	1.0	0.10	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Bromodichloromethane	ND	0.50	0.080	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Bromoform	ND	1.0	0.25	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Bromomethane	ND	2.0	0.38	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
2-Butanone (MEK)	ND	20	0.41	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Carbon Disulfide	ND	2.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Carbon Tetrachloride	ND	5.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Chlorobenzene	1.5	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Chlorodibromomethane	ND	0.50	0.12	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Chloroethane	ND	2.0	0.33	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Chloroform	ND	2.0	0.040	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Chloromethane	ND	2.0	0.13	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.48	µg/L	1	L-04, V-05	SW-846 8260C	12/23/11	12/24/11 1:13	TJR
1,2-Dibromoethane (EDB)	ND	0.50	0.14	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Dibromomethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
1,2-Dichlorobenzene	ND	1.0	0.060	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
1,4-Dichlorobenzene	0.30	1.0	0.11	µg/L	1	J	SW-846 8260C	12/23/11	12/24/11 1:13	TJR
trans-1,4-Dichloro-2-butene	ND	2.0	0.77	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
1,1-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
1,2-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
1,1-Dichloroethylene	ND	1.0	0.10	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
cis-1,2-Dichloroethylene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
trans-1,2-Dichloroethylene	ND	1.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
cis-1,3-Dichloropropene	ND	0.50	0.070	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
trans-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Ethylbenzene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
2-Hexanone (MBK)	ND	10	0.66	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Iodomethane	ND	10	0.80	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Methylene Chloride	ND	5.0	2.3	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
4-Methyl-2-pentanone (MIBK)	ND	10	0.22	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Styrene	ND	1.0	0.060	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
1,1,1,2-Tetrachloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
1,1,2,2-Tetrachloroethane	ND	0.50	0.18	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Tetrachloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Toluene	0.23	1.0	0.040	µg/L	1	J	SW-846 8260C	12/23/11	12/24/11 1:13	TJR
1,1,1-Trichloroethane	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
1,1,2-Trichloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Trichloroethylene	ND	1.0	0.12	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Trichlorofluoromethane (Freon 11)	ND	2.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill | Sample Description: | Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: DS | Sampled: 12/19/2011 14:00

Sample ID: 11L0864-06

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,3-Trichloropropane	ND	2.0	0.21	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Vinyl Acetate	ND	20	12	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
Vinyl Chloride	ND	2.0	0.16	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
m+p Xylene	ND	2.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR
o-Xylene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:13	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	93.7	70-130		12/24/11 1:13
Toluene-d8	99.7	70-130		12/24/11 1:13
4-Bromofluorobenzene	98.1	70-130		12/24/11 1:13

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill | Sample Description: | Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: DS | Sampled: 12/19/2011 14:00

Sample ID: 11L0864-06

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	10	8.6	µg/L	1		SW-846 6010C	12/27/11	12/29/11 16:39	OP
Barium	0.028	0.050	0.015	mg/L	1	J	SW-846 6010C	12/27/11	12/29/11 16:39	OP
Cadmium	ND	0.50	0.026	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:21	KSH
Chromium	ND	10	3.4	µg/L	1		SW-846 6010C	12/27/11	12/29/11 16:39	OP
Lead	0.20	1.0	0.12	µg/L	1	J	SW-846 6020A	12/27/11	12/29/11 13:21	KSH
Mercury	ND	0.10	0.040	µg/L	1		SW-846 7470A	12/23/11	12/27/11 11:08	AMR
Selenium	ND	5.0	2.5	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:21	KSH
Silver	ND	0.50	0.16	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:21	KSH

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill
Sample Description:
Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: MS
Sampled: 12/19/2011 14:15

Sample ID: 11L0864-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	0.54	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Acrylonitrile	ND	5.0	0.51	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Benzene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Bromochloromethane	ND	1.0	0.10	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Bromodichloromethane	ND	0.50	0.080	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Bromoform	ND	1.0	0.25	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Bromomethane	ND	2.0	0.38	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
2-Butanone (MEK)	ND	20	0.41	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Carbon Disulfide	ND	2.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Carbon Tetrachloride	ND	5.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Chlorobenzene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Chlorodibromomethane	ND	0.50	0.12	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Chloroethane	ND	2.0	0.33	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Chloroform	ND	2.0	0.040	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Chloromethane	ND	2.0	0.13	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.48	µg/L	1	L-04, V-05	SW-846 8260C	12/23/11	12/24/11 1:45	TJR
1,2-Dibromoethane (EDB)	ND	0.50	0.14	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Dibromomethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
1,2-Dichlorobenzene	ND	1.0	0.060	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
1,4-Dichlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
trans-1,4-Dichloro-2-butene	ND	2.0	0.77	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
1,1-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
1,2-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
1,1-Dichloroethylene	ND	1.0	0.10	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
cis-1,2-Dichloroethylene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
trans-1,2-Dichloroethylene	ND	1.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
cis-1,3-Dichloropropene	ND	0.50	0.070	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
trans-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Ethylbenzene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
2-Hexanone (MBK)	ND	10	0.66	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Iodomethane	ND	10	0.80	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Methylene Chloride	ND	5.0	2.3	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
4-Methyl-2-pentanone (MIBK)	ND	10	0.22	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Styrene	ND	1.0	0.060	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
1,1,1,2-Tetrachloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
1,1,2,2-Tetrachloroethane	ND	0.50	0.18	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Tetrachloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Toluene	ND	1.0	0.040	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
1,1,1-Trichloroethane	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
1,1,2-Trichloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Trichloroethylene	ND	1.0	0.12	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Trichlorofluoromethane (Freon 11)	ND	2.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill
Sample Description:
Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: MS
Sampled: 12/19/2011 14:15

Sample ID: 11L0864-07

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,3-Trichloropropane	ND	2.0	0.21	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Vinyl Acetate	ND	20	12	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
Vinyl Chloride	ND	2.0	0.16	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
m+p Xylene	ND	2.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR
o-Xylene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/24/11 1:45	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	94.4	70-130		12/24/11 1:45
Toluene-d8	100	70-130		12/24/11 1:45
4-Bromofluorobenzene	97.6	70-130		12/24/11 1:45

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill
Sample Description:
Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: MS
Sampled: 12/19/2011 14:15

Sample ID: 11L0864-07

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	10	8.6	µg/L	1		SW-846 6010C	12/27/11	12/29/11 16:44	OP
Barium	0.022	0.050	0.015	mg/L	1	J	SW-846 6010C	12/27/11	12/29/11 16:44	OP
Cadmium	ND	0.50	0.026	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:25	KSH
Chromium	ND	10	3.4	µg/L	1		SW-846 6010C	12/27/11	12/29/11 16:44	OP
Lead	2.6	1.0	0.12	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:25	KSH
Mercury	ND	0.10	0.040	µg/L	1		SW-846 7470A	12/23/11	12/27/11 11:13	AMR
Selenium	ND	5.0	2.5	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:25	KSH
Silver	ND	0.50	0.16	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:25	KSH

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill
Sample Description:
Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: US
Sampled: 12/19/2011 14:30

Sample ID: 11L0864-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	0.54	µg/L	1	R-05	SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Acrylonitrile	ND	5.0	0.51	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Benzene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Bromochloromethane	ND	1.0	0.10	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Bromodichloromethane	ND	0.50	0.080	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Bromoform	ND	1.0	0.25	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Bromomethane	ND	2.0	0.38	µg/L	1	R-05	SW-846 8260C	12/23/11	12/26/11 13:12	LBD
2-Butanone (MEK)	ND	20	0.41	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Carbon Disulfide	ND	2.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Carbon Tetrachloride	ND	5.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Chlorobenzene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Chlorodibromomethane	ND	0.50	0.12	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Chloroethane	ND	2.0	0.33	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Chloroform	ND	2.0	0.040	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Chloromethane	0.22	2.0	0.13	µg/L	1	J	SW-846 8260C	12/23/11	12/26/11 13:12	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.48	µg/L	1	L-04, V-05	SW-846 8260C	12/23/11	12/26/11 13:12	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.14	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Dibromomethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
1,2-Dichlorobenzene	ND	1.0	0.060	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
1,4-Dichlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.77	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
1,1-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
1,2-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
1,1-Dichloroethylene	ND	1.0	0.10	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
cis-1,3-Dichloropropene	ND	0.50	0.070	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
trans-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Ethylbenzene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
2-Hexanone (MBK)	ND	10	0.66	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Iodomethane	1.3	10	0.80	µg/L	1	V-05, J	SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Methylene Chloride	ND	5.0	2.3	µg/L	1	V-05	SW-846 8260C	12/23/11	12/26/11 13:12	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	0.22	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Styrene	ND	1.0	0.060	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.18	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Tetrachloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Toluene	ND	1.0	0.040	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
1,1,1-Trichloroethane	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
1,1,2-Trichloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Trichloroethylene	ND	1.0	0.12	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD

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

Project Location: Hoke County Landfill
Sample Description:
Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: US
Sampled: 12/19/2011 14:30

Sample ID: 11L0864-08

Sample Matrix: Ground Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,3-Trichloropropane	ND	2.0	0.21	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Vinyl Acetate	ND	20	12	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
Vinyl Chloride	ND	2.0	0.16	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
m+p Xylene	ND	2.0	0.070	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD
o-Xylene	ND	1.0	0.050	µg/L	1		SW-846 8260C	12/23/11	12/26/11 13:12	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	90.2	70-130		12/26/11 13:12
Toluene-d8	101	70-130		12/26/11 13:12
4-Bromofluorobenzene	95.5	70-130		12/26/11 13:12

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County Landfill | Sample Description: | Work Order: 11L0864

Date Received: 12/21/2011

Field Sample #: US | Sampled: 12/19/2011 14:30

Sample ID: 11L0864-08

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	10	8.6	µg/L	1		SW-846 6010C	12/27/11	12/29/11 16:48	OP
Barium	0.021	0.050	0.015	mg/L	1	J	SW-846 6010C	12/27/11	12/29/11 16:48	OP
Cadmium	ND	0.50	0.026	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:28	KSH
Chromium	ND	10	3.4	µg/L	1		SW-846 6010C	12/27/11	12/29/11 16:48	OP
Lead	0.33	1.0	0.12	µg/L	1	J	SW-846 6020A	12/27/11	12/29/11 13:28	KSH
Mercury	ND	0.10	0.040	µg/L	1		SW-846 7470A	12/23/11	12/27/11 11:15	AMR
Selenium	ND	5.0	2.5	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:28	KSH
Silver	ND	0.50	0.16	µg/L	1		SW-846 6020A	12/27/11	12/29/11 13:28	KSH

con-test® ANALYTICAL LABORATORY

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

Sample Extraction Data

Prep Method: SM 3030C-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11L0864-01 [MW-1]	B043496	50.0	50.0	12/27/11
11L0864-02 [MW-6]	B043496	50.0	50.0	12/27/11
11L0864-03 [MW-2]	B043496	50.0	50.0	12/27/11
11L0864-04 [MW-3]	B043496	50.0	50.0	12/27/11
11L0864-05 [MW-5]	B043496	50.0	50.0	12/27/11
11L0864-06 [DS]	B043496	50.0	50.0	12/27/11
11L0864-07 [MS]	B043496	50.0	50.0	12/27/11
11L0864-08 [US]	B043496	50.0	50.0	12/27/11

Prep Method: SM 3030C-SW-846 6020A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11L0864-01 [MW-1]	B043497	50.0	50.0	12/27/11
11L0864-02 [MW-6]	B043497	50.0	50.0	12/27/11
11L0864-03 [MW-2]	B043497	50.0	50.0	12/27/11
11L0864-04 [MW-3]	B043497	50.0	50.0	12/27/11
11L0864-05 [MW-5]	B043497	50.0	50.0	12/27/11
11L0864-06 [DS]	B043497	50.0	50.0	12/27/11
11L0864-07 [MS]	B043497	50.0	50.0	12/27/11
11L0864-08 [US]	B043497	50.0	50.0	12/27/11

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11L0864-01 [MW-1]	B043366	6.00	6.00	12/23/11
11L0864-02 [MW-6]	B043366	6.00	6.00	12/23/11
11L0864-03 [MW-2]	B043366	6.00	6.00	12/23/11
11L0864-04 [MW-3]	B043366	6.00	6.00	12/23/11
11L0864-05 [MW-5]	B043366	6.00	6.00	12/23/11
11L0864-06 [DS]	B043366	6.00	6.00	12/23/11
11L0864-07 [MS]	B043366	6.00	6.00	12/23/11
11L0864-08 [US]	B043366	6.00	6.00	12/23/11

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11L0864-01 [MW-1]	B043394	5	5.00	12/23/11
11L0864-02 [MW-6]	B043394	5	5.00	12/23/11
11L0864-03 [MW-2]	B043394	5	5.00	12/23/11
11L0864-04 [MW-3]	B043394	5	5.00	12/23/11
11L0864-05 [MW-5]	B043394	5	5.00	12/23/11
11L0864-06 [DS]	B043394	5	5.00	12/23/11
11L0864-07 [MS]	B043394	5	5.00	12/23/11

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11L0864-08 [US]	B043428	5	5.00	12/23/11

con-test® ANALYTICAL LABORATORY

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

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 B043394 - SW-846 5030B										
Blank (B043394-BLK1)				Prepared & Analyzed: 12/23/11						
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	2.0	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							L-04, V-05
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							
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	*24.0*		µg/L	25.0		96.2	70-130			
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100	70-130			
Surrogate: 4-Bromofluorobenzene	*24.5*		µg/L	25.0		98.0	70-130			

con-test® ANALYTICAL LABORATORY

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

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 B043394 - SW-846 5030B												
LCS (B043394-BS1)				Prepared & Analyzed: 12/23/11								
Acetone	127	50	µg/L	100		127		70-160		25		†
Acrylonitrile	10.9	5.0	µg/L	10.0		109		70-130		25		
Benzene	9.61	1.0	µg/L	10.0		96.1		70-130		25		
Bromochloromethane	11.0	1.0	µg/L	10.0		110		70-130		25		
Bromodichloromethane	9.77	0.50	µg/L	10.0		97.7		70-130		25		
Bromoform	7.09	1.0	µg/L	10.0		70.9		70-130		25		
Bromomethane	6.51	2.0	µg/L	10.0		65.1		40-160		25		†
2-Butanone (MEK)	106	20	µg/L	100		106		40-160		25		†
Carbon Disulfide	10.0	2.0	µg/L	10.0		100		70-130		25		
Carbon Tetrachloride	9.20	5.0	µg/L	10.0		92.0		70-130		25		
Chlorobenzene	11.0	1.0	µg/L	10.0		110		70-130		25		
Chlorodibromomethane	10.9	0.50	µg/L	10.0		109		70-130		25		
Chloroethane	10.8	2.0	µg/L	10.0		108		70-130		25		
Chloroform	10.4	2.0	µg/L	10.0		104		70-130		25		
Chloromethane	8.57	2.0	µg/L	10.0		85.7		40-160		25		†
1,2-Dibromo-3-chloropropane (DBCP)	6.77	5.0	µg/L	10.0		**67.7**	*	70-130		25	L-04, V-05	
1,2-Dibromoethane (EDB)	10.7	0.50	µg/L	10.0		107		70-130		25		
Dibromomethane	11.1	1.0	µg/L	10.0		111		70-130		25		
1,2-Dichlorobenzene	10.8	1.0	µg/L	10.0		108		70-130		25		
1,4-Dichlorobenzene	10.8	1.0	µg/L	10.0		108		70-130		25		
trans-1,4-Dichloro-2-butene	9.54	2.0	µg/L	10.0		95.4		70-130		25		
1,1-Dichloroethane	11.2	1.0	µg/L	10.0		112		70-130		25		
1,2-Dichloroethane	10.6	1.0	µg/L	10.0		106		70-130		25		
1,1-Dichloroethylene	11.2	1.0	µg/L	10.0		112		70-130		25		
cis-1,2-Dichloroethylene	10.8	1.0	µg/L	10.0		108		70-130		25		
trans-1,2-Dichloroethylene	11.4	1.0	µg/L	10.0		114		70-130		25		
1,2-Dichloropropane	10.2	1.0	µg/L	10.0		102		70-130		25		
cis-1,3-Dichloropropene	11.4	0.50	µg/L	10.0		114		70-130		25		
trans-1,3-Dichloropropene	8.42	0.50	µg/L	10.0		84.2		70-130		25		
Ethylbenzene	10.8	1.0	µg/L	10.0		108		70-130		25		
2-Hexanone (MBK)	97.8	10	µg/L	100		97.8		70-160		25		†
Methylene Chloride	8.20	5.0	µg/L	10.0		82.0		70-130		25		
4-Methyl-2-pentanone (MIBK)	97.1	10	µg/L	100		97.1		70-160		25		†
Styrene	11.1	1.0	µg/L	10.0		111		70-130		25		
1,1,1,2-Tetrachloroethane	10.1	1.0	µg/L	10.0		101		70-130		25		
1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.0		106		70-130		25		
Tetrachloroethylene	11.4	1.0	µg/L	10.0		114		70-130		25		
Toluene	10.4	1.0	µg/L	10.0		104		70-130		25		
1,1,1-Trichloroethane	9.53	1.0	µg/L	10.0		95.3		70-130		25		
1,1,2-Trichloroethane	10.6	1.0	µg/L	10.0		106		70-130		25		
Trichloroethylene	10.4	1.0	µg/L	10.0		104		70-130		25		
Trichlorofluoromethane (Freon 11)	10.4	2.0	µg/L	10.0		104		70-130		25		
1,2,3-Trichloropropane	10.7	2.0	µg/L	10.0		107		70-130		25		
Vinyl Chloride	8.54	2.0	µg/L	10.0		85.4		40-160		25		†
m+p Xylene	21.3	2.0	µg/L	20.0		107		70-130		25		
o-Xylene	10.7	1.0	µg/L	10.0		107		70-130		25		
Surrogate: 1,2-Dichloroethane-d4	*23.8*		µg/L	25.0		95.0		70-130				
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100		70-130				
Surrogate: 4-Bromofluorobenzene	*25.1*		µg/L	25.0		100		70-130				

con-test® ANALYTICAL LABORATORY

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

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 B043394 - SW-846 5030B												
LCS Dup (B043394-BSD1)				Prepared & Analyzed: 12/23/11								
Acetone	134	50	µg/L	100		134		70-160	4.81	25		†
Acrylonitrile	11.1	5.0	µg/L	10.0		111		70-130	1.55	25		
Benzene	9.60	1.0	µg/L	10.0		96.0		70-130	0.104	25		
Bromochloromethane	10.7	1.0	µg/L	10.0		107		70-130	2.21	25		
Bromodichloromethane	9.82	0.50	µg/L	10.0		98.2		70-130	0.510	25		
Bromoform	7.11	1.0	µg/L	10.0		71.1		70-130	0.282	25		
Bromomethane	7.20	2.0	µg/L	10.0		72.0		40-160	10.1	25		†
2-Butanone (MEK)	113	20	µg/L	100		113		40-160	6.52	25		†
Carbon Disulfide	9.69	2.0	µg/L	10.0		96.9		70-130	3.55	25		
Carbon Tetrachloride	8.80	5.0	µg/L	10.0		88.0		70-130	4.44	25		
Chlorobenzene	10.6	1.0	µg/L	10.0		106		70-130	2.96	25		
Chlorodibromomethane	10.8	0.50	µg/L	10.0		108		70-130	1.10	25		
Chloroethane	10.4	2.0	µg/L	10.0		104		70-130	3.78	25		
Chloroform	10.1	2.0	µg/L	10.0		101		70-130	2.54	25		
Chloromethane	8.42	2.0	µg/L	10.0		84.2		40-160	1.77	25		†
1,2-Dibromo-3-chloropropane (DBCP)	6.82	5.0	µg/L	10.0		**68.2**	*	70-130	0.736	25	L-04, V-05	
1,2-Dibromoethane (EDB)	10.7	0.50	µg/L	10.0		107		70-130	0.281	25		
Dibromomethane	10.6	1.0	µg/L	10.0		106		70-130	4.53	25		
1,2-Dichlorobenzene	10.5	1.0	µg/L	10.0		105		70-130	2.54	25		
1,4-Dichlorobenzene	10.5	1.0	µg/L	10.0		105		70-130	2.63	25		
trans-1,4-Dichloro-2-butene	9.61	2.0	µg/L	10.0		96.1		70-130	0.731	25		
1,1-Dichloroethane	11.1	1.0	µg/L	10.0		111		70-130	1.44	25		
1,2-Dichloroethane	10.7	1.0	µg/L	10.0		107		70-130	1.22	25		
1,1-Dichloroethylene	10.9	1.0	µg/L	10.0		109		70-130	1.99	25		
cis-1,2-Dichloroethylene	10.5	1.0	µg/L	10.0		105		70-130	2.62	25		
trans-1,2-Dichloroethylene	11.2	1.0	µg/L	10.0		112		70-130	2.04	25		
1,2-Dichloropropane	10.3	1.0	µg/L	10.0		103		70-130	0.685	25		
cis-1,3-Dichloropropene	11.2	0.50	µg/L	10.0		112		70-130	1.59	25		
trans-1,3-Dichloropropene	8.35	0.50	µg/L	10.0		83.5		70-130	0.835	25		
Ethylbenzene	10.5	1.0	µg/L	10.0		105		70-130	2.54	25		
2-Hexanone (MBK)	101	10	µg/L	100		101		70-160	3.24	25		†
Methylene Chloride	7.83	5.0	µg/L	10.0		78.3		70-130	4.62	25		
4-Methyl-2-pentanone (MIBK)	102	10	µg/L	100		102		70-160	4.49	25		†
Styrene	10.9	1.0	µg/L	10.0		109		70-130	2.00	25		
1,1,1,2-Tetrachloroethane	9.71	1.0	µg/L	10.0		97.1		70-130	3.84	25		
1,1,2,2-Tetrachloroethane	10.7	0.50	µg/L	10.0		107		70-130	0.657	25		
Tetrachloroethylene	11.1	1.0	µg/L	10.0		111		70-130	2.67	25		
Toluene	10.1	1.0	µg/L	10.0		101		70-130	2.35	25		
1,1,1-Trichloroethane	9.09	1.0	µg/L	10.0		90.9		70-130	4.73	25		
1,1,2-Trichloroethane	10.2	1.0	µg/L	10.0		102		70-130	3.74	25		
Trichloroethylene	10.2	1.0	µg/L	10.0		102		70-130	1.94	25		
Trichlorofluoromethane (Freon 11)	10.4	2.0	µg/L	10.0		104		70-130	0.00	25		
1,2,3-Trichloropropane	11.1	2.0	µg/L	10.0		111		70-130	3.39	25		
Vinyl Chloride	8.53	2.0	µg/L	10.0		85.3		40-160	0.117	25		†
m+p Xylene	21.2	2.0	µg/L	20.0		106		70-130	0.517	25		
o-Xylene	10.5	1.0	µg/L	10.0		105		70-130	1.23	25		
Surrogate: 1,2-Dichloroethane-d4	*24.0*		µg/L	25.0		96.2		70-130				
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.3		70-130				
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.0		100		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 B043428 - SW-846 5030B										
Blank (B043428-BLK1)				Prepared & Analyzed: 12/26/11						
Acetone	ND	50	µg/L							R-05
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							R-05
2-Butanone (MEK)	ND	20	µg/L							
Carbon Disulfide	ND	2.0	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							L-04, V-05
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							
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	1.7	10	µg/L							V-05, J
Methylene Chloride	ND	5.0	µg/L							V-05
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	*23.2*		µg/L	25.0		93.0	70-130			
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	*24.3*		µg/L	25.0		97.2	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 B043428 - SW-846 5030B												
LCS (B043428-BS1)				Prepared & Analyzed: 12/26/11								
Acetone	107	50	µg/L	100		107		70-160		25	R-05	†
Acrylonitrile	9.52	5.0	µg/L	10.0		95.2		70-130		25		
Benzene	9.44	1.0	µg/L	10.0		94.4		70-130		25		
Bromochloromethane	10.3	1.0	µg/L	10.0		103		70-130		25		
Bromodichloromethane	10.0	0.50	µg/L	10.0		100		70-130		25		
Bromoform	7.13	1.0	µg/L	10.0		71.3		70-130		25		
Bromomethane	2.87	2.0	µg/L	10.0		**28.7**	*	40-160		25	L-07A, R-05	†
2-Butanone (MEK)	89.4	20	µg/L	100		89.4		40-160		25		†
Carbon Disulfide	9.71	2.0	µg/L	10.0		97.1		70-130		25		
Carbon Tetrachloride	9.41	5.0	µg/L	10.0		94.1		70-130		25		
Chlorobenzene	10.9	1.0	µg/L	10.0		109		70-130		25		
Chlorodibromomethane	11.2	0.50	µg/L	10.0		112		70-130		25		
Chloroethane	10.5	2.0	µg/L	10.0		105		70-130		25		
Chloroform	10.1	2.0	µg/L	10.0		101		70-130		25		
Chloromethane	7.66	2.0	µg/L	10.0		76.6		40-160		25		†
1,2-Dibromo-3-chloropropane (DBCP)	5.72	5.0	µg/L	10.0		**57.2**	*	70-130		25	L-04, V-05	
1,2-Dibromoethane (EDB)	10.6	0.50	µg/L	10.0		106		70-130		25		
Dibromomethane	10.6	1.0	µg/L	10.0		106		70-130		25		
1,2-Dichlorobenzene	10.3	1.0	µg/L	10.0		103		70-130		25		
1,4-Dichlorobenzene	10.5	1.0	µg/L	10.0		105		70-130		25		
trans-1,4-Dichloro-2-butene	9.04	2.0	µg/L	10.0		90.4		70-130		25		
1,1-Dichloroethane	10.9	1.0	µg/L	10.0		109		70-130		25		
1,2-Dichloroethane	10.5	1.0	µg/L	10.0		105		70-130		25		
1,1-Dichloroethylene	11.2	1.0	µg/L	10.0		112		70-130		25		
cis-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102		70-130		25		
trans-1,2-Dichloroethylene	10.8	1.0	µg/L	10.0		108		70-130		25		
1,2-Dichloropropane	10.8	1.0	µg/L	10.0		108		70-130		25		
cis-1,3-Dichloropropene	11.4	0.50	µg/L	10.0		114		70-130		25		
trans-1,3-Dichloropropene	8.51	0.50	µg/L	10.0		85.1		70-130		25		
Ethylbenzene	10.8	1.0	µg/L	10.0		108		70-130		25		
2-Hexanone (MBK)	92.3	10	µg/L	100		92.3		70-160		25		†
Methylene Chloride	6.67	5.0	µg/L	10.0		**66.7**	*	70-130		25	L-07, V-05	
4-Methyl-2-pentanone (MIBK)	93.8	10	µg/L	100		93.8		70-160		25		†
Styrene	11.2	1.0	µg/L	10.0		112		70-130		25		
1,1,1,2-Tetrachloroethane	10.1	1.0	µg/L	10.0		101		70-130		25		
1,1,2,2-Tetrachloroethane	10.1	0.50	µg/L	10.0		101		70-130		25		
Tetrachloroethylene	12.5	1.0	µg/L	10.0		125		70-130		25		
Toluene	10.6	1.0	µg/L	10.0		106		70-130		25		
1,1,1-Trichloroethane	9.33	1.0	µg/L	10.0		93.3		70-130		25		
1,1,2-Trichloroethane	10.1	1.0	µg/L	10.0		101		70-130		25		
Trichloroethylene	10.6	1.0	µg/L	10.0		106		70-130		25		
Trichlorofluoromethane (Freon 11)	11.2	2.0	µg/L	10.0		112		70-130		25		
1,2,3-Trichloropropane	10.1	2.0	µg/L	10.0		101		70-130		25		
Vinyl Chloride	8.80	2.0	µg/L	10.0		88.0		40-160		25		†
m+p Xylene	22.1	2.0	µg/L	20.0		110		70-130		25		
o-Xylene	10.7	1.0	µg/L	10.0		107		70-130		25		
Surrogate: 1,2-Dichloroethane-d4	*22.5*		µg/L	25.0		89.9		70-130				
Surrogate: Toluene-d8	*25.0*		µg/L	25.0		100		70-130				
Surrogate: 4-Bromofluorobenzene	*24.6*		µg/L	25.0		98.4		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 B043428 - SW-846 5030B												
LCS Dup (B043428-BSD1)				Prepared & Analyzed: 12/26/11								
Acetone	142	50	µg/L	100		142	70-160	**28.5**	*	25	R-05	†
Acrylonitrile	11.0	5.0	µg/L	10.0		110	70-130	14.2		25		
Benzene	9.11	1.0	µg/L	10.0		91.1	70-130	3.56		25		
Bromochloromethane	9.89	1.0	µg/L	10.0		98.9	70-130	3.67		25		
Bromodichloromethane	9.81	0.50	µg/L	10.0		98.1	70-130	1.92		25		
Bromoform	7.47	1.0	µg/L	10.0		74.7	70-130	4.66		25		
Bromomethane	4.06	2.0	µg/L	10.0		40.6	40-160	**34.3**	*	25	R-05	†
2-Butanone (MEK)	112	20	µg/L	100		112	40-160	22.6		25		†
Carbon Disulfide	9.72	2.0	µg/L	10.0		97.2	70-130	0.103		25		
Carbon Tetrachloride	8.72	5.0	µg/L	10.0		87.2	70-130	7.61		25		
Chlorobenzene	10.7	1.0	µg/L	10.0		107	70-130	1.58		25		
Chlorodibromomethane	11.2	0.50	µg/L	10.0		112	70-130	0.446		25		
Chloroethane	10.8	2.0	µg/L	10.0		108	70-130	2.72		25		
Chloroform	9.81	2.0	µg/L	10.0		98.1	70-130	3.01		25		
Chloromethane	7.72	2.0	µg/L	10.0		77.2	40-160	0.780		25		†
1,2-Dibromo-3-chloropropane (DBCP)	6.25	5.0	µg/L	10.0		**62.5**	* 70-130	8.86		25	L-04, V-05	
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105	70-130	0.951		25		
Dibromomethane	10.5	1.0	µg/L	10.0		105	70-130	1.42		25		
1,2-Dichlorobenzene	10.2	1.0	µg/L	10.0		102	70-130	0.778		25		
1,4-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130	3.97		25		
trans-1,4-Dichloro-2-butene	9.60	2.0	µg/L	10.0		96.0	70-130	6.01		25		
1,1-Dichloroethane	11.2	1.0	µg/L	10.0		112	70-130	2.53		25		
1,2-Dichloroethane	10.6	1.0	µg/L	10.0		106	70-130	0.475		25		
1,1-Dichloroethylene	11.4	1.0	µg/L	10.0		114	70-130	1.67		25		
cis-1,2-Dichloroethylene	10.7	1.0	µg/L	10.0		107	70-130	4.96		25		
trans-1,2-Dichloroethylene	11.1	1.0	µg/L	10.0		111	70-130	2.64		25		
1,2-Dichloropropane	10.2	1.0	µg/L	10.0		102	70-130	5.05		25		
cis-1,3-Dichloropropene	11.2	0.50	µg/L	10.0		112	70-130	1.06		25		
trans-1,3-Dichloropropene	8.31	0.50	µg/L	10.0		83.1	70-130	2.38		25		
Ethylbenzene	10.4	1.0	µg/L	10.0		104	70-130	3.76		25		
2-Hexanone (MBK)	104	10	µg/L	100		104	70-160	11.8		25		†
Methylene Chloride	7.13	5.0	µg/L	10.0		71.3	70-130	6.67		25	V-05	
4-Methyl-2-pentanone (MIBK)	104	10	µg/L	100		104	70-160	10.4		25		†
Styrene	10.9	1.0	µg/L	10.0		109	70-130	2.90		25		
1,1,1,2-Tetrachloroethane	9.74	1.0	µg/L	10.0		97.4	70-130	3.23		25		
1,1,2,2-Tetrachloroethane	10.5	0.50	µg/L	10.0		105	70-130	3.50		25		
Tetrachloroethylene	11.9	1.0	µg/L	10.0		119	70-130	4.58		25		
Toluene	10.2	1.0	µg/L	10.0		102	70-130	4.23		25		
1,1,1-Trichloroethane	8.59	1.0	µg/L	10.0		85.9	70-130	8.26		25		
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130	3.11		25		
Trichloroethylene	10.2	1.0	µg/L	10.0		102	70-130	3.65		25		
Trichlorofluoromethane (Freon 11)	11.3	2.0	µg/L	10.0		113	70-130	0.801		25		
1,2,3-Trichloropropane	10.9	2.0	µg/L	10.0		109	70-130	7.41		25		
Vinyl Chloride	9.05	2.0	µg/L	10.0		90.5	40-160	2.80		25		†
m+p Xylene	21.2	2.0	µg/L	20.0		106	70-130	3.88		25		
o-Xylene	10.4	1.0	µg/L	10.0		104	70-130	3.51		25		
Surrogate: 1,2-Dichloroethane-d4	*22.7*		µg/L	25.0		90.9	70-130					
Surrogate: Toluene-d8	*25.1*		µg/L	25.0		101	70-130					
Surrogate: 4-Bromofluorobenzene	*24.6*		µg/L	25.0		98.3	70-130					

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B043366 - SW-846 7470A Prep										
Blank (B043366-BLK1)				Prepared: 12/23/11 Analyzed: 12/27/11						
Mercury	ND	0.10	µg/L							
LCS (B043366-BS1)				Prepared: 12/23/11 Analyzed: 12/27/11						
Mercury	1.95	0.10	µg/L	2.00		97.7	80-120		20	
LCS Dup (B043366-BSD1)				Prepared: 12/23/11 Analyzed: 12/27/11						
Mercury	1.95	0.10	µg/L	2.00		97.4	80-120	0.269	20	
Batch B043496 - SM 3030C										
Blank (B043496-BLK1)				Prepared: 12/27/11 Analyzed: 12/29/11						
Arsenic	ND	10	µg/L							
Barium	ND	0.050	mg/L							
Chromium	ND	10	µg/L							
LCS (B043496-BS1)				Prepared: 12/27/11 Analyzed: 12/29/11						
Arsenic	502	10	µg/L	500		100	80-120		20	
Barium	0.510	0.050	mg/L	0.500		102	80-120		20	
Chromium	512	10	µg/L	500		102	80-120		20	
LCS Dup (B043496-BSD1)				Prepared: 12/27/11 Analyzed: 12/29/11						
Arsenic	523	10	µg/L	500		105	80-120	4.21	20	
Barium	0.522	0.050	mg/L	0.500		104	80-120	2.36	20	
Chromium	522	10	µg/L	500		104	80-120	1.85	20	
Duplicate (B043496-DUP1)	**Source: 11L0864-01**			Prepared: 12/27/11 Analyzed: 12/29/11						
Arsenic	ND	10	µg/L		ND			NC	20	
Barium	0.0434	0.050	mg/L		0.0430			0.878	20	J
Chromium	ND	10	µg/L		ND			NC	20	
Matrix Spike (B043496-MS1)	**Source: 11L0864-01**			Prepared: 12/27/11 Analyzed: 12/29/11						
Arsenic	519	10	µg/L	500	ND	104	75-125		20	
Barium	0.552	0.050	mg/L	0.500	0.0430	102	75-125		20	
Chromium	508	10	µg/L	500	ND	102	75-125		20	
Batch B043497 - SM 3030C										
Blank (B043497-BLK1)				Prepared & Analyzed: 12/27/11						
Cadmium	0.15	0.50	µg/L							J
Lead	0.19	1.0	µg/L							J
Selenium	ND	5.0	µg/L							
Silver	0.31	0.50	µg/L							J

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B043497 - SM 3030C										
LCS (B043497-BS1)				Prepared & Analyzed: 12/27/11						
Cadmium	541	5.0	µg/L	500		108	80-120		20	
Lead	514	10	µg/L	500		103	80-120		20	
Selenium	553	50	µg/L	500		111	80-120		20	
Silver	540	5.0	µg/L	500		108	80-120		20	
LCS Dup (B043497-BSD1)				Prepared & Analyzed: 12/27/11						
Cadmium	547	5.0	µg/L	500		109	80-120	1.12	20	
Lead	508	10	µg/L	500		102	80-120	1.16	20	
Selenium	545	50	µg/L	500		109	80-120	1.47	20	
Silver	549	5.0	µg/L	500		110	80-120	1.68	20	
Duplicate (B043497-DUP1)	**Source: 11L0864-01**			Prepared: 12/27/11 Analyzed: 12/29/11						
Cadmium	0.0782	0.50	µg/L		0.0775			0.887	20	J
Lead	0.313	1.0	µg/L		0.308			1.62	20	J
Selenium	ND	5.0	µg/L		ND			NC	20	
Silver	ND	0.50	µg/L		ND			NC	20	
Matrix Spike (B043497-MS1)	**Source: 11L0864-01**			Prepared & Analyzed: 12/27/11						
Cadmium	541	5.0	µg/L	500	0.0775	108	75-125		20	
Lead	509	10	µg/L	500	0.308	102	75-125		20	
Selenium	548	50	µg/L	500	ND	110	75-125		20	
Silver	547	5.0	µg/L	500	ND	109	75-125		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.
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.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Water	
Arsenic	CT,NH,NY,RI,ME,NC
Barium	CT,NH,NY,RI,ME,NC
Chromium	CT,NH,NY,RI,ME,NC
SW-846 6020A in Water	
Arsenic	CT,NH,NY,RI,NC,ME
Barium	CT,NH,NY,RI,NC,ME
Cadmium	CT,NH,NY,RI,NC,ME
Chromium	CT,NH,NY,RI,NC,ME
Lead	CT,NH,NY,RI,NC,ME
Selenium	CT,NH,NY,RI,NC,ME
Silver	CT,NH,NY,RI,NC,ME
SW-846 7470A in Water	
Mercury	CT,NH,NY,RI,NC,ME
SW-846 8260C in Water	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NY,ME,RI
Benzene	CT,NH,NY,ME,RI
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME,RI
Bromoform	CT,NH,NY,ME,RI
Bromomethane	CT,NH,NY,ME,RI
2-Butanone (MEK)	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME,RI
Chlorobenzene	CT,NH,NY,ME,RI
Chlorodibromomethane	CT,NH,NY,ME,RI
Chloroethane	CT,NH,NY,ME,RI
Chloroform	CT,NH,NY,ME,RI
Chloromethane	CT,NH,NY,ME,RI
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME,RI
1,4-Dichlorobenzene	CT,NH,NY,ME,RI
trans-1,4-Dichloro-2-butene	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME,RI
1,2-Dichloroethane	CT,NH,NY,ME,RI
1,1-Dichloroethylene	CT,NH,NY,ME,RI
cis-1,2-Dichloroethylene	ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME,RI
1,2-Dichloropropane	CT,NH,NY,ME,RI
cis-1,3-Dichloropropene	CT,NH,NY,ME,RI
trans-1,3-Dichloropropene	CT,NH,NY,ME,RI
Ethylbenzene	CT,NH,NY,ME,RI
2-Hexanone (MBK)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME,RI
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Styrene	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,RI
Tetrachloroethylene	CT,NH,NY,ME,RI
Toluene	CT,NH,NY,ME,RI
1,1,1-Trichloroethane	CT,NH,NY,ME,RI
1,1,2-Trichloroethane	CT,NH,NY,ME,RI
Trichloroethylene	CT,NH,NY,ME,RI
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,RI
1,2,3-Trichloropropane	NH,NY,ME
Vinyl Acetate	NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME,RI
m+p Xylene	CT,NH,NY,ME,RI
o-Xylene	CT,NH,NY,ME,RI

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

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www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page ____ of ____

11L0864

Company Name: E2S
Address: 3008 Anderson Dr. Suit 102.
Raleigh, NC
Attention:
Project Location: Hoke County land fill
Sampled By: Logan Shillington

Telephone: 919-781-7788
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	EPA 8260	RCRA Metals											# of Containers	** Preservation	***Container Code
								2	1													
01	MW-1	12-19-11	11:11		✓			X	X													
02	MW-6	12-19-11	12:00		✓			X	X													
03	MW-2	12-19-11	12:45		✓			X	X													
04	MW-3	12-19-11	1:20		✓			X	X													
05	MW-5	12-19-11	1:45		✓			X	X													
06	DS	12-19-11	2:00		✓			X	X													
07	MS	12-19-11	2:15		✓			X	X													
08	US	12-19-11	2:30		✓			X	X													

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

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_____

Relinquished by: (signature) Logan Shillington	Date/Time: 12-19-11 9:00pm	
Received by: (signature) [signature]	Date/Time: 12/19/11 9:00pm	
Relinquished by: (signature) [signature]	Date/Time: 12/21/11	
Received by: (signature) [signature]	Date/Time: 12-21-11	

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

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: NC

Is your project MCP or RCP ?
O MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # _____

NELAC & AIHA Cert
WBE/DBE Certif

†† 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 OU COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOC

IMPORTANT!
Severe weather may cause some service delays and disruptions within the Great Plains states. Learn more

Detailed Results

Printer-Friendly Get Link Help

Enter tracking number

Detailed Results | Notifications

Tracking no.: 795760858115 Select time format: 12H | 24H E-mail notifications

Delivered

Initiated Picked up In transit Delivered

Delivered
Signed for by: P.BLAKE

Shipment Dates

Ship date Dec 21, 2011
Delivery date Dec 22, 2011 1:59 PM

Destination

Signature Proof of Delivery

Shipment Facts

Help

Service type	Standard Overnight	Delivered to	Shipping/Receiving

Shipment Travel History

Help

Select time zone: Local Scan Time

All shipment travel activity is displayed in local time for the location

Date/Time	Activity	Location	Details
Dec 22, 2011 1:59 PM	**Delivered**		
Dec 22, 2011 9:00 AM	On FedEx vehicle for delivery	WINDSOR LOCKS, CT	
Dec 22, 2011 7:32 AM	At local FedEx facility	WINDSOR LOCKS, CT	
Dec 22, 2011 6:18 AM	At destination sort facility	EAST GRANBY, CT	
Dec 22, 2011 4:53 AM	Departed FedEx location	INDIANAPOLIS, IN	
Dec 22, 2011 12:46 AM	Arrived at FedEx location	INDIANAPOLIS, IN	
Dec 21, 2011 9:00 PM	Left FedEx origin facility	DURHAM, NC	
Dec 21, 2011 8:21 PM	Picked up	RALEIGH, NC	

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Sample Receipt Checklist

CLIENT NAME: E&S RECEIVED BY: SD DATE: 12/2/11

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 4.1

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:

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		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic	8	Plastic Bag / Ziploc	
40 mL Vial - type listed below	16	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl 16 # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

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

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

Doc# 277

Rev. 1 May 2