July 25, 2011

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

RE: Monitoring Well Test Results
For 7/5/2011 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 July 5, 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.

Please note the following corrections to the Sample IDs in the analytical results and chain of custody: MW-2 should be designated as MW-6; MW-3 should be designated as MW-2; MW-4 should be designated as MW-3. The results listed in Table 1 have the correct Sample IDs. We apologize for this inconvenience.

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

ATTACHMENT B:
Analytical Test Results

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	67-64-1	3	Acetone	**4.1**	ug/L	7/5/2011	7/8/2011	6000	-	100
19-01	MW-1	71-43-2	16	Benzene	**0.42**	ug/L	7/5/2011	7/8/2011	1	-	1
19-01	MW-1	78-93-3	141	Methyl ethyl ketone	**15**	ug/L	7/5/2011	7/8/2011	4000	-	100
19-01	MW-1	75-15-0	35	Carbon Disulfide	**5.3**	ug/L	7/5/2011	7/8/2011	700	-	100
19-01	MW-1	75-34-3	75	1,1-Dichloroethane	**0.7**	ug/L	7/5/2011	7/8/2011	6	-	5
19-01	MW-1	156-59-2	78	cis-1,2-Dichloroethylene	**0.3**	ug/L	7/5/2011	7/8/2011	70	-	5
19-01	MW-1	108-88-3	196	Toluene	**0.24**	ug/L	7/5/2011	7/8/2011	600	-	1
19-01	MW-1	79-01-6	201	Trichloroethylene	**0.44**	ug/L	7/5/2011	7/8/2011	3		1
19-01	MW-1	75-01-4	211	Vinyl Chloride	**0.39**	ug/L	7/5/2011	7/8/2011	0.03	-	1
19-01	MW-1	1330-20-7	346	m+p Xylene	**0.21**	ug/L	7/5/2011	7/8/2011	500	-	5
19-01	MW-1	1330-20-7	346	o-Xylene	**0.12**	ug/L	7/5/2011	7/8/2011	500	-	5
19-01	MW-1	7440-39-3	15	Barium	**0.036**	ug/L	7/5/2011	7/11/2011	700	-	100
19-01	MW-1	7440-43-9	34	Cadmium	**0.6**	ug/L	7/5/2011	7/11/2011	2	-	1
19-01	MW-1	7439-92-1	131	Lead	**0.34**	ug/L	7/5/2011	7/11/2011	15	-	10
19-01	MW-1			Well Elevation	251.19	ft.	7/5/2011				
19-01	MW-1			Groundwater Depth	55.7	ft.	7/5/2011				
19-01	MW-1			Water Level Elevation	195.49	ft.	7/5/2011				
19-01	MW-1			Temperature	20.7	C	7/5/2011				
19-01	MW-1			pH	5.8		7/5/2011				
19-01	MW-1			Conductivity	126	mV	7/5/2011				
19-01	MW-1			Total Suspended Solids	84	ppm	7/5/2011				
19-01	MW-2	67-64-1	3	Acetone	**5.2**	ug/L	7/5/2011	7/8/2011	6000	-	100
19-01	MW-2	71-43-2	16	Benzene	**0.66**	ug/L	7/5/2011	7/8/2011	1	-	1
19-01	MW-2	75-15-0	35	Carbon Disulfide	**0.69**	ug/L	7/5/2011	7/8/2011	700	-	100
19-01	MW-2	108-90-7	39	Chlorobenzene	**2.2**	ug/L	7/5/2011	7/8/2011	50	-	3
19-01	MW-2	67-66-3	44	Chloroform	**0.18**	ug/L	7/5/2011	7/8/2011	70		5
19-01	MW-2	95-50-1	69	1,2-Dichlorobenzene	**0.23**	ug/L	7/5/2011	7/8/2011	20	-	5
19-01	MW-2	106-46-7	71	1,4 Dichlorobenzene	**1.4**	ug/L	7/5/2011	7/8/2011	6	-	1
19-01	MW-2	156-59-2	78	cis-1,2-Dichloroethylene	**2.4**	ug/L	7/5/2011	7/8/2011	70	-	5
19-01	MW-2	100-41-4	110	Ethylbenzene	**0.64**	ug/L	7/5/2011	7/8/2011	600	-	1
19-01	MW-2	108-88-3	196	Toluene	**1.7**	ug/L	7/5/2011	7/8/2011	600	-	1
19-01	MW-2	79-01-6	201	Trichloroethylene	**0.53**	ug/L	7/5/2011	7/8/2011	3		1
19-01	MW-2	75-69-4	203	Trichlorofluoromethane	**0.14**	ug/L	7/5/2011	7/8/2011	2000		1
19-01	MW-2	75-01-4	211	Vinyl Chloride	**0.25**	ug/L	7/5/2011	7/8/2011	0.03	-	1

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	1330-20-7	346	m+p Xylene	**3.1**	ug/L	7/5/2011	7/8/2011	500	-	5
19-01	MW-2	1330-20-7	346	o-Xylene	**1**	ug/L	7/5/2011	7/8/2011	500	-	5
19-01	MW-2	7440-39-3	15	Barium	**0.03**	ug/L	7/5/2011	7/11/2011	700	-	100
19-01	MW-2	7440-43-9	34	Cadmium	**0.049**	ug/L	7/5/2011	7/11/2011	2	-	1
19-01	MW-2	7439-92-1	131	Lead	**1**	ug/L	7/5/2011	7/11/2011	15	-	10
19-01	MW-2			Well Elevation	217	ft.	7/5/2011				
19-01	MW-2			Groundwater Depth	18.4	ft.	7/5/2011				
19-01	MW-2			Water Level Elevation	198.6	ft.	7/5/2011				
19-01	MW-2			Temperature	20.2	C	7/5/2011				
19-01	MW-2			pH	4.8		7/5/2011				
19-01	MW-2			Conductivity	176	mV	7/5/2011				
19-01	MW-2			Total Suspended Solids	49	ppm	7/5/2011				
19-01	MW-3	67-64-1	3	Acetone	**6.3**	ug/L	7/5/2011	7/12/2011	6000	-	100
19-01	MW-3	71-43-2	16	Benzene	**1.2**	ug/L	7/5/2011	7/12/2011	1	-	1
19-01	MW-3	75-15-0	35	Carbon Disulfide	**1.2**	ug/L	7/5/2011	7/12/2011	700	-	100
19-01	MW-3	108-90-7	39	Chlorobenzene	**1.9**	ug/L	7/5/2011	7/12/2011	50	-	3
19-01	MW-3	106-46-7	71	1,4 Dichlorobenzene	**2.5**	ug/L	7/5/2011	7/12/2011	6	-	1
19-01	MW-3	75-34-3	75	1,1 Dichloroethane	**1.6**	ug/L	7/5/2011	7/12/2011	6	-	5
19-01	MW-3	156-59-2	78	cis-1,2-Dichloroethylene	**1.3**	ug/L	7/5/2011	7/12/2011	70	-	5
19-01	MW-3	100-41-4	110	Ethylbenzene	**0.19**	ug/L	7/5/2011	7/12/2011	600	-	1
19-01	MW-3	127-18-4	192	Tetrachloroethylene	**0.14**	ug/L	7/5/2011	7/12/2011	0.7	-	1
19-01	MW-3	108-88-3	196	Toluene	**0.39**	ug/L	7/5/2011	7/12/2011	600	-	1
19-01	MW-3	79-01-6	201	Trichloroethylene	**0.52**	ug/L	7/5/2011	7/12/2011	3		1
19-01	MW-3	75-01-4	211	Vinyl Chloride	**0.38**	ug/L	7/5/2011	7/12/2011	0.03	-	1
19-01	MW-3	1330-20-7	346	m+p Xylene	**1**	ug/L	7/5/2011	7/12/2011	500	-	5
19-01	MW-3	1330-20-7	346	o-Xylene	**0.22**	ug/L	7/5/2011	7/12/2011	500	-	5
19-01	MW-3	7440-39-3	15	Barium	**0.043**	ug/L	7/5/2011	7/11/2011	700	-	100
19-01	MW-3	7440-43-9	34	Cadmium	**0.57**	ug/L	7/5/2011	7/11/2011	2	-	1
19-01	MW-3	7439-92-1	131	Lead	**2.8**	ug/L	7/5/2011	7/11/2011	15	-	10
19-01	MW-3	7439-97-6	346	Mercury	**0.13**	ug/L	7/5/2011	7/8/2011	500		5
19-01	MW-3			Well Elevation	212.64	ft.	7/5/2011				
19-01	MW-3			Groundwater Depth	28.6	ft.	7/5/2011				
19-01	MW-3			Water Level Elevation	184.04	ft.	7/5/2011				
19-01	MW-3			Temperature	20.4	C	7/5/2011				

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-3			pH	4.8		7/5/2011				
19-01	MW-3			Conductivity	269	mV	7/5/2011				
19-01	MW-3			Total Suspended Solids	72	ppm	7/5/2011				
19-01	MW-5	67-64-1	3	Acetone	**9.6**	ug/L	7/5/2011	7/8/2011	6000	-	100
19-01	MW-5	71-43-2	16	Benzene	**17**	ug/L	7/5/2011	7/8/2011	1	-	1
19-01	MW-5	108-90-7	39	Chlorobenzene	**100**	ug/L	7/5/2011	7/8/2011	50	-	3
19-01	MW-5	95-50-1	69	1,2-Dichlorobenzene	**2.3**	ug/L	7/5/2011	7/8/2011	20	-	5
19-01	MW-5	106-46-7	71	1,4 Dichlorobenzene	**6.9**	ug/L	7/5/2011	7/8/2011	6	-	1
19-01	MW-5	75-34-3	75	1,1 Dichloroethane	**0.36**	ug/L	7/5/2011	7/8/2011	6	-	5
19-01	MW-5	75-35-4	77	1,1-Dichloroethylene	**0.12**	ug/L	7/5/2011	7/8/2011	7	-	5
19-01	MW-5	156-59-2	78	cis-1,2-Dichloroethylene	**8.2**	ug/L	7/5/2011	7/8/2011	70	-	5
19-01	MW-5	108-88-3	196	Toluene	**0.22**	ug/L	7/5/2011	7/8/2011	600	-	1
19-01	MW-5	79-01-6	201	Trichloroethylene	**0.4**	ug/L	7/5/2011	7/8/2011	3		1
19-01	MW-5	75-01-4	211	Vinyl Chloride	**5.6**	ug/L	7/5/2011	7/8/2011	0.03	-	1
19-01	MW-5	1330-20-7	346	o-Xylene	**0.12**	ug/L	7/5/2011	7/8/2011	500	-	5
19-01	MW-5	7440-39-3	15	Barium	**0.045**	ug/L	7/5/2011	7/11/2011	700	-	100
19-01	MW-5	7440-43-9	34	Cadmium	**0.08**	ug/L	7/5/2011	7/11/2011	2	-	1
19-01	MW-5	7439-92-1	131	Lead	**0.76**	ug/L	7/5/2011	7/11/2011	15	-	10
19-01	MW-5			Well Elevation	227.81	ft.	7/5/2011				
19-01	MW-5			Groundwater Depth	23.9	ft.	7/5/2011				
19-01	MW-5			Water Level Elevation	203.91	ft.	7/5/2011				
19-01	MW-5			Temperature	20.9	C	7/5/2011				
19-01	MW-5			pH	4.6		7/5/2011				
19-01	MW-5			Conductivity	138	mV	7/5/2011				
19-01	MW-5			Total Suspended Solids	26	ppm	7/5/2011				
19-01	MW-6	67-64-1	3	Acetone	**31**	ug/L	7/5/2011	7/12/2011	6000	-	100
19-01	MW-6	71-43-2	16	Benzene	**3.2**	ug/L	7/5/2011	7/12/2011	1	-	1
19-01	MW-6	75-15-0	35	Carbon Disulfide	**12**	ug/L	7/5/2011	7/12/2011	700	-	100
19-01	MW-6	108-90-7	39	Chlorobenzene	**5.4**	ug/L	7/5/2011	7/12/2011	50	-	3
19-01	MW-6	95-50-1	69	1,2-Dichlorobenzene	**0.5**	ug/L	7/5/2011	7/12/2011	20	-	5
19-01	MW-6	106-46-7	71	1,4 Dichlorobenzene	**5.8**	ug/L	7/5/2011	7/12/2011	6	-	1
19-01	MW-6	75-34-3	75	1,1-Dichloroethane	**1.8**	ug/L	7/5/2011	7/12/2011	6	-	5
19-01	MW-6	156-59-2	78	cis-1,2-Dichloroethylene	**4.6**	ug/L	7/5/2011	7/12/2011	70	-	5
19-01	MW-6	100-41-4	110	Ethylbenzene	**0.66**	ug/L	7/5/2011	7/12/2011	600	-	1

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-6	108-88-3	196	Toluene	**1.1**	ug/L	7/5/2011	7/12/2011	600	-	1
19-01	MW-6	79-01-6	201	Trichloroethylene	**0.87**	ug/L	7/5/2011	7/12/2011	3		1
19-01	MW-6	75-01-4	211	Vinyl Chloride	**1.3**	ug/L	7/5/2011	7/12/2011	0.03	-	1
19-01	MW-6	1330-20-7	346	m+p Xylene	**2.3**	ug/L	7/5/2011	7/12/2011	500	-	5
19-01	MW-6	1330-20-7	346	o-Xylene	**0.81**	ug/L	7/5/2011	7/12/2011	500	-	5
19-01	MW-6	7440-39-3	15	Barium	**0.054**	ug/L	7/5/2011	7/11/2011	700	-	100
19-01	MW-6	7440-43-9	34	Cadmium	**0.04**	ug/L	7/5/2011	7/11/2011	2	-	1
19-01	MW-6	7439-92-1	131	Lead	**0.25**	ug/L	7/5/2011	7/11/2011	15	-	10
19-01	MW-6			Well Elevation	204.65	ft.	7/5/2011				
19-01	MW-6			Groundwater Depth	37.9	ft.	7/5/2011				
19-01	MW-6			Water Level Elevation	166.75	ft.	7/5/2011				
19-01	MW-6			Temperature	20.8	C	7/5/2011				
19-01	MW-6			pH	5.1		7/5/2011				
19-01	MW-6			Conductivity	164	mV	7/5/2011				
19-01	MW-6			Total Suspended Solids	157	ppm	7/5/2011				
19-01	US	67-64-1	3	Acetone	**7.3**	ug/L	7/5/2011	7/8/2011	6000	2000	100
19-01	US	75-15-0	35	Carbon Disulfide	**0.58**	ug/L	7/5/2011	7/8/2011	700	100	100
19-01	US	108-90-7	39	Chlorobenzene	**0.35**	ug/L	7/5/2011	7/8/2011	50	-	3
19-01	US	100-41-4	110	Ethylbenzene	**0.27**	ug/L	7/5/2011	7/8/2011	600	-	1
19-01	US	108-88-3	196	Toluene	**0.71**	ug/L	7/5/2011	7/8/2011	600	-	1
19-01	US	1330-20-7	346	m+p Xylene	**1.6**	ug/L	7/5/2011	7/8/2011	500	-	5
19-01	US	1330-20-7	346	o-Xylene	**0.45**	ug/L	7/5/2011	7/8/2011	500	-	5
19-01	US	7440-39-3	15	Barium	**0.037**	ug/L	7/5/2011	7/11/2011	700	-	100
19-01	US	7439-92-1	131	Lead	**0.92**	ug/L	7/5/2011	7/11/2011	15	25	10
19-01	US			Temperature	27.1	C	7/5/2011				
19-01	US			pH	5.8		7/5/2011				
19-01	US			Conductivity	114	mV	7/5/2011				
19-01	US			Total Suspended Solids	133	ppm	7/5/2011				
19-01	MS	67-64-1	3	Acetone	**4.8**	ug/L	7/5/2011	7/12/2011	6000	2000	100
19-01	MS	75-15-0	35	Carbon Disulfide	**0.37**	ug/L	7/5/2011	7/12/2011	700	100	100
19-01	MS	108-90-7	39	Chlorobenzene	**0.14**	ug/L	7/5/2011	7/12/2011	50	-	3
19-01	MS	108-88-3	196	Toluene	**0.47**	ug/L	7/5/2011	7/12/2011	600	-	1
19-01	MS	7440-39-3	15	Barium	**0.04**	ug/L	7/5/2011	7/11/2011	700	-	100
19-01	MS	7439-92-1	131	Lead	**0.23**	ug/L	7/5/2011	7/11/2011	15	25	10

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			Temperature	26.9	C	7/5/2011				
19-01	MS			pH	4.9		7/5/2011				
19-01	MS			Conductivity	131	mV	7/5/2011				
19-01	MS			Total Suspended Solids	209	ppm	7/5/2011				
19-01	DS	67-64-1	3	Acetone	**6.4**	ug/L	7/5/2011	7/12/2011	6000	2000	100
19-01	DS	75-15-0	35	Carbon Disulfide	**0.63**	ug/L	7/5/2011	7/12/2011	700	100	100
19-01	DS	108-90-7	39	Chlorobenzene	**0.11**	ug/L	7/5/2011	7/12/2011	50	-	3
19-01	DS	100-41-4	110	Ethylbenzene	**0.24**	ug/L	7/5/2011	7/12/2011	600	-	1
19-01	DS	108-88-3	196	Toluene	**0.74**	ug/L	7/5/2011	7/12/2011	600	-	1
19-01	DS	7439-92-1	131	Lead	**0.48**	ug/L	7/5/2011	7/12/2011	15	25	10
19-01	DS	1330-20-7	346	m+p Xylene	**1.1**	ug/L	7/5/2011	7/12/2011	500	-	5
19-01	DS	1330-20-7	346	o-Xylene	**0.33**	ug/L	7/5/2011	7/12/2011	500	-	5
19-01	DS	7440-39-3	15	Barium	**0.043**	ug/L	7/5/2011	7/11/2011	700	-	100
19-01	DS	7439-92-1	131	Lead	**0.57**	ug/L	7/5/2011	7/11/2011	15	25	10
19-01	DS			Temperature	26.8	C	7/5/2011				
19-01	DS			pH	4.8		7/5/2011				
19-01	DS			Conductivity	116	mV	7/5/2011				
19-01	DS			Total Suspended Solids	234	ppm	7/5/2011				

Bold values exceed SWSL Standards
Red values exceed 2L Standards

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

July 15, 2011

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

Project Location: Hoke County
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 11G0116

Enclosed are results of analyses for samples received by the laboratory on July 6, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Holly L. Folsom
Project Manager

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

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

REPORT DATE: 7/15/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11G0116

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

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-1	11G0116-01	Ground Water		SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260C	
MW-2	11G0116-02	Ground Water		SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260C	
MW-3	11G0116-03	Ground Water		SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260C	
MW-4	11G0116-04	Ground Water		SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260C	
MW-5	11G0116-05	Ground Water		SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260C	
US	11G0116-06	Ground Water		SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260C	
MS	11G0116-07	Ground Water		SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260C	
DS	11G0116-08	Ground Water		SW-846 6010C	
				SW-846 6020A	
				SW-846 7470A	
				SW-846 8260C	

con-test® ANALYTICAL LABORATORY

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 8260, vials were analyzed per client request despite headspace in vials from sampling process.

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:

Bromomethane, Chloromethane

11G0116-02[MW-2], 11G0116-04[MW-4], 11G0116-07[MS], 11G0116-08[DS], B033338-BLK1, B033338-BS1, B033338-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:

Acetone, Chloroethane

B033338-BS1, B033313-BSD1, B033338-BSD1

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:

Bromoform

B033338-BSD1

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:

Bromoform

11G0116-02[MW-2], 11G0116-04[MW-4], 11G0116-07[MS], 11G0116-08[DS], B033338-BLK1, B033338-BS1, B033338-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:

Chloromethane

11G0116-02[MW-2], 11G0116-04[MW-4], 11G0116-07[MS], 11G0116-08[DS], B033338-BLK1, B033338-BS1, B033338-BSD1

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

Analyte & Samples(s) Qualified:

trans-1,4-Dichloro-2-butene

B033338-BS1, B033338-BSD1

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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

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

Project Location: Hoke County | Sample Description: | Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: MW-1 | Sampled: 7/5/2011 12:30

Sample ID: 11G0116-01

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	4.1	50	0.54	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Acrylonitrile	ND	5.0	0.51	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Benzene	0.42	1.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Bromochloromethane	ND	1.0	0.10	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Bromodichloromethane	ND	0.50	0.080	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Bromoform	ND	5.0	0.25	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Bromomethane	ND	2.0	0.38	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
2-Butanone (MEK)	15	20	0.41	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Carbon Disulfide	5.3	2.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Carbon Tetrachloride	ND	5.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Chlorobenzene	ND	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Chlorodibromomethane	ND	0.50	0.12	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Chloroethane	ND	2.0	0.33	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Chloroform	ND	2.0	0.040	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Chloromethane	ND	2.0	0.13	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.48	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.14	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Dibromomethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
1,2-Dichlorobenzene	ND	1.0	0.060	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
1,4-Dichlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.77	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
1,1-Dichloroethane	0.70	1.0	0.090	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 15:54	LBD
1,2-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
1,1-Dichloroethylene	ND	1.0	0.10	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
cis-1,2-Dichloroethylene	0.30	1.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 15:54	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.070	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
cis-1,3-Dichloropropene	ND	0.50	0.070	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
trans-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Ethylbenzene	ND	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
2-Hexanone (MBK)	ND	10	0.66	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Iodomethane	ND	10	0.80	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Methylene Chloride	ND	5.0	2.3	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	0.22	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Styrene	ND	1.0	0.060	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.18	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Tetrachloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Toluene	0.24	1.0	0.040	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 15:54	LBD
1,1,1-Trichloroethane	ND	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
1,1,2-Trichloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Trichloroethylene	0.44	1.0	0.12	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.070	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD

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Project Location: Hoke County | Sample Description: | Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: MW-1 | Sampled: 7/5/2011 12:30

Sample ID: 11G0116-01

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	7/8/11	7/8/11 15:54	LBD
Vinyl Acetate	ND	20	12	µg/L	1		SW-846 8260C	7/8/11	7/8/11 15:54	LBD
Vinyl Chloride	0.39	2.0	0.16	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 15:54	LBD
m+p Xylene	0.21	2.0	0.070	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 15:54	LBD
o-Xylene	0.12	1.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 15:54	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	104	70-130		7/8/11 15:54
Toluene-d8	99.6	70-130		7/8/11 15:54
4-Bromofluorobenzene	98.2	70-130		7/8/11 15:54

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

Project Location: Hoke County
Sample Description:
Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: MW-1
Sampled: 7/5/2011 12:30

Sample ID: 11G0116-01

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	7/8/11	7/11/11 11:05	OP
Barium	0.036	0.050	0.015	mg/L	1	J	SW-846 6010C	7/8/11	7/11/11 11:05	OP
Cadmium	0.60	0.50	0.026	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:07	AMP
Chromium	ND	10	3.4	µg/L	1		SW-846 6010C	7/8/11	7/11/11 11:05	OP
Lead	0.34	1.0	0.12	µg/L	1	J	SW-846 6020A	7/8/11	7/11/11 16:07	AMP
Mercury	ND	0.10	0.040	µg/L	1		SW-846 7470A	7/7/11	7/8/11 12:20	CWB
Selenium	ND	5.0	2.5	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:07	AMP
Silver	ND	0.50	0.16	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:07	AMP

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

Project Location: Hoke County | Sample Description: | Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: MW-2 | Sampled: 7/5/2011 13:30

Sample ID: 11G0116-02

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	31	50	0.54	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Acrylonitrile	ND	5.0	0.51	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Benzene	3.2	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Bromochloromethane	ND	1.0	0.10	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Bromodichloromethane	ND	0.50	0.080	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Bromoform	ND	1.0	0.25	µg/L	1	R-05	SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Bromomethane	ND	2.0	0.38	µg/L	1	L-04	SW-846 8260C	7/8/11	7/12/11 15:42	TJR
2-Butanone (MEK)	ND	20	0.41	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Carbon Disulfide	12	2.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Carbon Tetrachloride	ND	5.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Chlorobenzene	5.4	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Chlorodibromomethane	ND	0.50	0.12	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Chloroethane	ND	2.0	0.33	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Chloroform	ND	2.0	0.040	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Chloromethane	ND	2.0	0.13	µg/L	1	L-04, V-05	SW-846 8260C	7/8/11	7/12/11 15:42	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.48	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
1,2-Dibromoethane (EDB)	ND	0.50	0.14	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Dibromomethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
1,2-Dichlorobenzene	0.50	1.0	0.060	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 15:42	TJR
1,4-Dichlorobenzene	5.8	1.0	0.11	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
trans-1,4-Dichloro-2-butene	ND	2.0	0.77	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
1,1-Dichloroethane	1.8	1.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
1,2-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
1,1-Dichloroethylene	ND	1.0	0.10	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
cis-1,2-Dichloroethylene	4.6	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
trans-1,2-Dichloroethylene	ND	1.0	0.070	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
cis-1,3-Dichloropropene	ND	0.50	0.070	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
trans-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Ethylbenzene	0.66	1.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 15:42	TJR
2-Hexanone (MBK)	ND	10	0.66	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Iodomethane	ND	10	0.80	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Methylene Chloride	ND	5.0	2.3	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
4-Methyl-2-pentanone (MIBK)	ND	10	0.22	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Styrene	ND	1.0	0.060	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
1,1,1,2-Tetrachloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
1,1,2,2-Tetrachloroethane	ND	0.50	0.18	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Tetrachloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Toluene	1.1	1.0	0.040	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
1,1,1-Trichloroethane	ND	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
1,1,2-Trichloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Trichloroethylene	0.87	1.0	0.12	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Trichlorofluoromethane (Freon 11)	ND	2.0	0.070	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR

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Project Location: Hoke County | Sample Description: | Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: MW-2 | Sampled: 7/5/2011 13:30

Sample ID: 11G0116-02

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	7/8/11	7/12/11 15:42	TJR
Vinyl Acetate	ND	20	12	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
Vinyl Chloride	1.3	2.0	0.16	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 15:42	TJR
m+p Xylene	2.3	2.0	0.070	µg/L	1		SW-846 8260C	7/8/11	7/12/11 15:42	TJR
o-Xylene	0.81	1.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 15:42	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	106	70-130		7/12/11 15:42
Toluene-d8	103	70-130		7/12/11 15:42
4-Bromofluorobenzene	103	70-130		7/12/11 15:42

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

Project Location: Hoke County
Sample Description:
Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: MW-2
Sampled: 7/5/2011 13:30

Sample ID: 11G0116-02

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	7/8/11	7/11/11 11:48	OP
Barium	0.054	0.050	0.015	mg/L	1		SW-846 6010C	7/8/11	7/11/11 11:48	OP
Cadmium	0.040	0.50	0.026	µg/L	1	J	SW-846 6020A	7/8/11	7/11/11 16:14	AMP
Chromium	ND	10	3.4	µg/L	1		SW-846 6010C	7/8/11	7/11/11 11:48	OP
Lead	0.25	1.0	0.12	µg/L	1	J	SW-846 6020A	7/8/11	7/11/11 16:14	AMP
Mercury	ND	0.10	0.040	µg/L	1		SW-846 7470A	7/7/11	7/8/11 12:25	CWB
Selenium	ND	5.0	2.5	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:14	AMP
Silver	ND	0.50	0.16	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:14	AMP

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

Project Location: Hoke County | Sample Description: | Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: MW-3 | Sampled: 7/5/2011 14:20

Sample ID: 11G0116-03

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	5.2	50	0.54	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Acrylonitrile	ND	5.0	0.51	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Benzene	0.66	1.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Bromochloromethane	ND	1.0	0.10	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Bromodichloromethane	ND	0.50	0.080	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Bromoform	ND	5.0	0.25	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Bromomethane	ND	2.0	0.38	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
2-Butanone (MEK)	ND	20	0.41	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Carbon Disulfide	0.69	2.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Carbon Tetrachloride	ND	5.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Chlorobenzene	2.2	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Chlorodibromomethane	ND	0.50	0.12	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Chloroethane	ND	2.0	0.33	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Chloroform	0.18	2.0	0.040	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Chloromethane	ND	2.0	0.13	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.48	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.14	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Dibromomethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
1,2-Dichlorobenzene	0.23	1.0	0.060	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 16:24	LBD
1,4-Dichlorobenzene	1.4	1.0	0.11	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.77	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
1,1-Dichloroethane	1.4	1.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
1,2-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
1,1-Dichloroethylene	ND	1.0	0.10	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
cis-1,2-Dichloroethylene	2.4	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.070	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
cis-1,3-Dichloropropene	ND	0.50	0.070	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
trans-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Ethylbenzene	0.64	1.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 16:24	LBD
2-Hexanone (MBK)	ND	10	0.66	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Iodomethane	ND	10	0.80	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Methylene Chloride	ND	5.0	2.3	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	0.22	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Styrene	ND	1.0	0.060	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.18	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Tetrachloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Toluene	1.7	1.0	0.040	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
1,1,1-Trichloroethane	ND	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
1,1,2-Trichloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Trichloroethylene	0.53	1.0	0.12	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Trichlorofluoromethane (Freon 11)	0.14	2.0	0.070	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 16:24	LBD

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

Project Location: Hoke County
Sample Description:
Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: MW-3
Sampled: 7/5/2011 14:20

Sample ID: 11G0116-03

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	7/8/11	7/8/11 16:24	LBD
Vinyl Acetate	ND	20	12	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
Vinyl Chloride	0.25	2.0	0.16	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 16:24	LBD
m+p Xylene	3.1	2.0	0.070	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD
o-Xylene	1.0	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:24	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	104	70-130		7/8/11 16:24
Toluene-d8	102	70-130		7/8/11 16:24
4-Bromofluorobenzene	102	70-130		7/8/11 16:24

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

Project Location: Hoke County
Sample Description:
Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: MW-3
Sampled: 7/5/2011 14:20

Sample ID: 11G0116-03

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	7/8/11	7/11/11 11:53	OP
Barium	0.030	0.050	0.015	mg/L	1	J	SW-846 6010C	7/8/11	7/11/11 11:53	OP
Cadmium	0.049	0.50	0.026	µg/L	1	J	SW-846 6020A	7/8/11	7/11/11 16:18	AMP
Chromium	ND	10	3.4	µg/L	1		SW-846 6010C	7/8/11	7/11/11 11:53	OP
Lead	1.0	1.0	0.12	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:18	AMP
Mercury	ND	0.10	0.040	µg/L	1		SW-846 7470A	7/7/11	7/8/11 12:27	CWB
Selenium	ND	5.0	2.5	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:18	AMP
Silver	ND	0.50	0.16	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:18	AMP

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

Project Location: Hoke County | Sample Description: | Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: MW-4 | Sampled: 7/5/2011 16:20

Sample ID: 11G0116-04

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	6.3	50	0.54	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Acrylonitrile	ND	5.0	0.51	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Benzene	1.2	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Bromochloromethane	ND	1.0	0.10	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Bromodichloromethane	ND	0.50	0.080	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Bromoform	ND	1.0	0.25	µg/L	1	R-05	SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Bromomethane	ND	2.0	0.38	µg/L	1	L-04	SW-846 8260C	7/8/11	7/12/11 16:43	TJR
2-Butanone (MEK)	ND	20	0.41	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Carbon Disulfide	1.2	2.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Carbon Tetrachloride	ND	5.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Chlorobenzene	1.9	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Chlorodibromomethane	ND	0.50	0.12	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Chloroethane	ND	2.0	0.33	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Chloroform	ND	2.0	0.040	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Chloromethane	ND	2.0	0.13	µg/L	1	L-04, V-05	SW-846 8260C	7/8/11	7/12/11 16:43	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.48	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
1,2-Dibromoethane (EDB)	ND	0.50	0.14	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Dibromomethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
1,2-Dichlorobenzene	ND	1.0	0.060	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
1,4-Dichlorobenzene	2.5	1.0	0.11	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
trans-1,4-Dichloro-2-butene	ND	2.0	0.77	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
1,1-Dichloroethane	1.6	1.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
1,2-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
1,1-Dichloroethylene	ND	1.0	0.10	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
cis-1,2-Dichloroethylene	1.3	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
trans-1,2-Dichloroethylene	ND	1.0	0.070	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
cis-1,3-Dichloropropene	ND	0.50	0.070	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
trans-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Ethylbenzene	0.19	1.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 16:43	TJR
2-Hexanone (MBK)	ND	10	0.66	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Iodomethane	ND	10	0.80	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Methylene Chloride	ND	5.0	2.3	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
4-Methyl-2-pentanone (MIBK)	ND	10	0.22	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Styrene	ND	1.0	0.060	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
1,1,1,2-Tetrachloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
1,1,2,2-Tetrachloroethane	ND	0.50	0.18	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Tetrachloroethylene	0.14	1.0	0.14	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Toluene	0.39	1.0	0.040	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 16:43	TJR
1,1,1-Trichloroethane	ND	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
1,1,2-Trichloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Trichloroethylene	0.52	1.0	0.12	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Trichlorofluoromethane (Freon 11)	ND	2.0	0.070	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR

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

Project Location: Hoke County | Sample Description: | Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: MW-4 | Sampled: 7/5/2011 16:20

Sample ID: 11G0116-04

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	7/8/11	7/12/11 16:43	TJR
Vinyl Acetate	ND	20	12	µg/L	1		SW-846 8260C	7/8/11	7/12/11 16:43	TJR
Vinyl Chloride	0.38	2.0	0.16	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 16:43	TJR
m+p Xylene	1.0	2.0	0.070	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 16:43	TJR
o-Xylene	0.22	1.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 16:43	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	109	70-130		7/12/11 16:43
Toluene-d8	101	70-130		7/12/11 16:43
4-Bromofluorobenzene	106	70-130		7/12/11 16:43

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

Project Location: Hoke County
Sample Description:
Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: MW-4
Sampled: 7/5/2011 16:20

Sample ID: 11G0116-04

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	7/8/11	7/11/11 11:57	OP
Barium	0.043	0.050	0.015	mg/L	1	J	SW-846 6010C	7/8/11	7/11/11 11:57	OP
Cadmium	0.57	0.50	0.026	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:21	AMP
Chromium	ND	10	3.4	µg/L	1		SW-846 6010C	7/8/11	7/11/11 11:57	OP
Lead	2.8	1.0	0.12	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:21	AMP
Mercury	0.13	0.10	0.040	µg/L	1		SW-846 7470A	7/7/11	7/8/11 12:29	CWB
Selenium	ND	5.0	2.5	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:21	AMP
Silver	ND	0.50	0.16	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:21	AMP

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

Project Location: Hoke County | Sample Description: | Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: MW-5 | Sampled: 7/5/2011 15:00

Sample ID: 11G0116-05

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	9.6	50	0.54	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Acrylonitrile	ND	5.0	0.51	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Benzene	17	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Bromochloromethane	ND	1.0	0.10	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Bromodichloromethane	ND	0.50	0.080	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Bromoform	ND	5.0	0.25	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Bromomethane	ND	2.0	0.38	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
2-Butanone (MEK)	ND	20	0.41	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Carbon Disulfide	3.8	2.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Carbon Tetrachloride	ND	5.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Chlorobenzene	100	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Chlorodibromomethane	ND	0.50	0.12	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Chloroethane	ND	2.0	0.33	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Chloroform	ND	2.0	0.040	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Chloromethane	ND	2.0	0.13	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.48	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.14	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Dibromomethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
1,2-Dichlorobenzene	2.3	1.0	0.060	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
1,4-Dichlorobenzene	6.9	1.0	0.11	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.77	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
1,1-Dichloroethane	0.36	1.0	0.090	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 16:54	LBD
1,2-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
1,1-Dichloroethylene	0.12	1.0	0.10	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 16:54	LBD
cis-1,2-Dichloroethylene	8.2	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.070	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
cis-1,3-Dichloropropene	ND	0.50	0.070	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
trans-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Ethylbenzene	ND	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
2-Hexanone (MBK)	ND	10	0.66	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Iodomethane	ND	10	0.80	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Methylene Chloride	ND	5.0	2.3	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	0.22	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Styrene	ND	1.0	0.060	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.18	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Tetrachloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Toluene	0.22	1.0	0.040	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 16:54	LBD
1,1,1-Trichloroethane	ND	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
1,1,2-Trichloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Trichloroethylene	0.40	1.0	0.12	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.070	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County | Sample Description: | Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: MW-5 | Sampled: 7/5/2011 15:00

Sample ID: 11G0116-05

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	7/8/11	7/8/11 16:54	LBD
Vinyl Acetate	ND	20	12	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
Vinyl Chloride	5.6	2.0	0.16	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
m+p Xylene	ND	2.0	0.070	µg/L	1		SW-846 8260C	7/8/11	7/8/11 16:54	LBD
o-Xylene	0.12	1.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 16:54	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	99.0	70-130		7/8/11 16:54
Toluene-d8	102	70-130		7/8/11 16:54
4-Bromofluorobenzene	101	70-130		7/8/11 16:54

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

Project Location: Hoke County
Sample Description:
Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: MW-5
Sampled: 7/5/2011 15:00

Sample ID: 11G0116-05

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	7/8/11	7/11/11 12:02	OP
Barium	0.045	0.050	0.015	mg/L	1	J	SW-846 6010C	7/8/11	7/11/11 12:02	OP
Cadmium	0.080	0.50	0.026	µg/L	1	J	SW-846 6020A	7/8/11	7/11/11 16:25	AMP
Chromium	ND	10	3.4	µg/L	1		SW-846 6010C	7/8/11	7/11/11 12:02	OP
Lead	0.76	1.0	0.12	µg/L	1	J	SW-846 6020A	7/8/11	7/11/11 16:25	AMP
Mercury	ND	0.10	0.040	µg/L	1		SW-846 7470A	7/7/11	7/8/11 12:30	CWB
Selenium	ND	5.0	2.5	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:25	AMP
Silver	ND	0.50	0.16	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:25	AMP

con-test® ANALYTICAL LABORATORY

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

Project Location: Hoke County | Sample Description: | Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: US | Sampled: 7/5/2011 16:30

Sample ID: 11G0116-06

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	7.3	50	0.54	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Acrylonitrile	ND	5.0	0.51	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Benzene	ND	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Bromochloromethane	ND	1.0	0.10	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Bromodichloromethane	ND	0.50	0.080	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Bromoform	ND	5.0	0.25	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Bromomethane	ND	2.0	0.38	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
2-Butanone (MEK)	ND	20	0.41	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Carbon Disulfide	0.58	2.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Carbon Tetrachloride	ND	5.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Chlorobenzene	0.35	1.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Chlorodibromomethane	ND	0.50	0.12	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Chloroethane	ND	2.0	0.33	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Chloroform	ND	2.0	0.040	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Chloromethane	ND	2.0	0.13	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.48	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.14	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Dibromomethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
1,2-Dichlorobenzene	ND	1.0	0.060	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
1,4-Dichlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	0.77	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
1,1-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
1,2-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
1,1-Dichloroethylene	ND	1.0	0.10	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.070	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
cis-1,3-Dichloropropene	ND	0.50	0.070	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
trans-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Ethylbenzene	0.27	1.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 17:24	LBD
2-Hexanone (MBK)	ND	10	0.66	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Iodomethane	ND	10	0.80	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Methylene Chloride	ND	5.0	2.3	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	0.22	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Styrene	ND	1.0	0.060	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.18	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Tetrachloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Toluene	0.71	1.0	0.040	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 17:24	LBD
1,1,1-Trichloroethane	ND	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
1,1,2-Trichloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Trichloroethylene	ND	1.0	0.12	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.070	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD

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

Project Location: Hoke County | Sample Description: | Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: US | Sampled: 7/5/2011 16:30

Sample ID: 11G0116-06

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	7/8/11	7/8/11 17:24	LBD
Vinyl Acetate	ND	20	12	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
Vinyl Chloride	ND	2.0	0.16	µg/L	1		SW-846 8260C	7/8/11	7/8/11 17:24	LBD
m+p Xylene	1.6	2.0	0.070	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 17:24	LBD
o-Xylene	0.45	1.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/8/11 17:24	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	101	70-130		7/8/11 17:24
Toluene-d8	101	70-130		7/8/11 17:24
4-Bromofluorobenzene	100	70-130		7/8/11 17:24

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

Project Location: Hoke County
Sample Description:
Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: US
Sampled: 7/5/2011 16:30

Sample ID: 11G0116-06

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	7/8/11	7/11/11 12:07	OP
Barium	0.037	0.050	0.015	mg/L	1	J	SW-846 6010C	7/8/11	7/11/11 12:07	OP
Cadmium	ND	0.50	0.026	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:28	AMP
Chromium	ND	10	3.4	µg/L	1		SW-846 6010C	7/8/11	7/11/11 12:07	OP
Lead	0.92	1.0	0.12	µg/L	1	J	SW-846 6020A	7/8/11	7/11/11 16:28	AMP
Mercury	ND	0.10	0.040	µg/L	1		SW-846 7470A	7/7/11	7/8/11 12:36	CWB
Selenium	ND	5.0	2.5	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:28	AMP
Silver	ND	0.50	0.16	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:28	AMP

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

Project Location: Hoke County | Sample Description: | Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: MS | Sampled: 7/5/2011 15:25

Sample ID: 11G0116-07

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	4.8	50	0.54	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Acrylonitrile	ND	5.0	0.51	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Benzene	ND	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Bromochloromethane	ND	1.0	0.10	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Bromodichloromethane	ND	0.50	0.080	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Bromoform	ND	1.0	0.25	µg/L	1	R-05	SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Bromomethane	ND	2.0	0.38	µg/L	1	L-04	SW-846 8260C	7/8/11	7/12/11 17:09	TJR
2-Butanone (MEK)	ND	20	0.41	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Carbon Disulfide	0.37	2.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Carbon Tetrachloride	ND	5.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Chlorobenzene	0.14	1.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Chlorodibromomethane	ND	0.50	0.12	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Chloroethane	ND	2.0	0.33	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Chloroform	ND	2.0	0.040	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Chloromethane	ND	2.0	0.13	µg/L	1	L-04, V-05	SW-846 8260C	7/8/11	7/12/11 17:09	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.48	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
1,2-Dibromoethane (EDB)	ND	0.50	0.14	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Dibromomethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
1,2-Dichlorobenzene	ND	1.0	0.060	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
1,4-Dichlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
trans-1,4-Dichloro-2-butene	ND	2.0	0.77	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
1,1-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
1,2-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
1,1-Dichloroethylene	ND	1.0	0.10	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
cis-1,2-Dichloroethylene	ND	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
trans-1,2-Dichloroethylene	ND	1.0	0.070	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
cis-1,3-Dichloropropene	ND	0.50	0.070	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
trans-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Ethylbenzene	ND	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
2-Hexanone (MBK)	ND	10	0.66	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Iodomethane	ND	10	0.80	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Methylene Chloride	ND	5.0	2.3	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
4-Methyl-2-pentanone (MIBK)	ND	10	0.22	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Styrene	ND	1.0	0.060	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
1,1,1,2-Tetrachloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
1,1,2,2-Tetrachloroethane	ND	0.50	0.18	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Tetrachloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Toluene	0.47	1.0	0.040	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 17:09	TJR
1,1,1-Trichloroethane	ND	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
1,1,2-Trichloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Trichloroethylene	ND	1.0	0.12	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Trichlorofluoromethane (Freon 11)	ND	2.0	0.070	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR

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

Project Location: Hoke County | Sample Description: | Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: MS | Sampled: 7/5/2011 15:25

Sample ID: 11G0116-07

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	7/8/11	7/12/11 17:09	TJR
Vinyl Acetate	ND	20	12	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
Vinyl Chloride	ND	2.0	0.16	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
m+p Xylene	ND	2.0	0.070	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR
o-Xylene	ND	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:09	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	94.6	70-130		7/12/11 17:09
Toluene-d8	91.2	70-130		7/12/11 17:09
4-Bromofluorobenzene	97.8	70-130		7/12/11 17:09

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

Project Location: Hoke County
Sample Description:
Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: MS
Sampled: 7/5/2011 15:25

Sample ID: 11G0116-07

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	7/8/11	7/11/11 12:12	OP
Barium	0.040	0.050	0.015	mg/L	1	J	SW-846 6010C	7/8/11	7/11/11 12:12	OP
Cadmium	ND	0.50	0.026	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:32	AMP
Chromium	ND	10	3.4	µg/L	1		SW-846 6010C	7/8/11	7/11/11 12:12	OP
Lead	0.23	1.0	0.12	µg/L	1	J	SW-846 6020A	7/8/11	7/11/11 16:32	AMP
Mercury	ND	0.10	0.040	µg/L	1		SW-846 7470A	7/7/11	7/8/11 12:38	CWB
Selenium	ND	5.0	2.5	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:32	AMP
Silver	ND	0.50	0.16	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:32	AMP

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

Project Location: Hoke County | Sample Description: | Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: DS | Sampled: 7/5/2011 15:20

Sample ID: 11G0116-08

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	6.4	50	0.54	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Acrylonitrile	ND	5.0	0.51	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Benzene	ND	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Bromochloromethane	ND	1.0	0.10	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Bromodichloromethane	ND	0.50	0.080	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Bromoform	ND	1.0	0.25	µg/L	1	R-05	SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Bromomethane	ND	2.0	0.38	µg/L	1	L-04	SW-846 8260C	7/8/11	7/12/11 17:35	TJR
2-Butanone (MEK)	ND	20	0.41	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Carbon Disulfide	0.63	2.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Carbon Tetrachloride	ND	5.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Chlorobenzene	0.11	1.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Chlorodibromomethane	ND	0.50	0.12	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Chloroethane	ND	2.0	0.33	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Chloroform	ND	2.0	0.040	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Chloromethane	ND	2.0	0.13	µg/L	1	L-04, V-05	SW-846 8260C	7/8/11	7/12/11 17:35	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.48	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
1,2-Dibromoethane (EDB)	ND	0.50	0.14	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Dibromomethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
1,2-Dichlorobenzene	ND	1.0	0.060	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
1,4-Dichlorobenzene	ND	1.0	0.11	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
trans-1,4-Dichloro-2-butene	ND	2.0	0.77	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
1,1-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
1,2-Dichloroethane	ND	1.0	0.090	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
1,1-Dichloroethylene	ND	1.0	0.10	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
cis-1,2-Dichloroethylene	ND	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
trans-1,2-Dichloroethylene	ND	1.0	0.070	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
1,2-Dichloropropane	ND	1.0	0.20	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
cis-1,3-Dichloropropene	ND	0.50	0.070	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
trans-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Ethylbenzene	0.24	1.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 17:35	TJR
2-Hexanone (MBK)	ND	10	0.66	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Iodomethane	ND	10	0.80	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Methylene Chloride	ND	5.0	2.3	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
4-Methyl-2-pentanone (MIBK)	ND	10	0.22	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Styrene	ND	1.0	0.060	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
1,1,1,2-Tetrachloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
1,1,2,2-Tetrachloroethane	ND	0.50	0.18	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Tetrachloroethylene	ND	1.0	0.14	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Toluene	0.74	1.0	0.040	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 17:35	TJR
1,1,1-Trichloroethane	ND	1.0	0.050	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
1,1,2-Trichloroethane	ND	1.0	0.080	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Trichloroethylene	ND	1.0	0.12	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Trichlorofluoromethane (Freon 11)	ND	2.0	0.070	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR

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

Project Location: Hoke County | Sample Description: | Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: DS | Sampled: 7/5/2011 15:20

Sample ID: 11G0116-08

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	7/8/11	7/12/11 17:35	TJR
Vinyl Acetate	ND	20	12	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
Vinyl Chloride	ND	2.0	0.16	µg/L	1		SW-846 8260C	7/8/11	7/12/11 17:35	TJR
m+p Xylene	1.1	2.0	0.070	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 17:35	TJR
o-Xylene	0.33	1.0	0.050	µg/L	1	J	SW-846 8260C	7/8/11	7/12/11 17:35	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	117	70-130		7/12/11 17:35
Toluene-d8	111	70-130		7/12/11 17:35
4-Bromofluorobenzene	106	70-130		7/12/11 17:35

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

Project Location: Hoke County
Sample Description:
Work Order: 11G0116

Date Received: 7/6/2011

Field Sample #: DS
Sampled: 7/5/2011 15:20

Sample ID: 11G0116-08

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	7/8/11	7/11/11 12:33	OP
Barium	0.043	0.050	0.015	mg/L	1	J	SW-846 6010C	7/8/11	7/11/11 12:33	OP
Cadmium	ND	0.50	0.026	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:35	AMP
Chromium	ND	10	3.4	µg/L	1		SW-846 6010C	7/8/11	7/11/11 12:33	OP
Lead	0.57	1.0	0.12	µg/L	1	J	SW-846 6020A	7/8/11	7/11/11 16:35	AMP
Mercury	ND	0.10	0.040	µg/L	1		SW-846 7470A	7/7/11	7/8/11 12:40	CWB
Selenium	ND	5.0	2.5	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:35	AMP
Silver	ND	0.50	0.16	µg/L	1		SW-846 6020A	7/8/11	7/11/11 16:35	AMP

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11G0116-01 [MW-1]	B033342	50.0	50.0	07/08/11
11G0116-02 [MW-2]	B033342	50.0	50.0	07/08/11
11G0116-03 [MW-3]	B033342	50.0	50.0	07/08/11
11G0116-04 [MW-4]	B033342	50.0	50.0	07/08/11
11G0116-05 [MW-5]	B033342	50.0	50.0	07/08/11
11G0116-06 [US]	B033342	50.0	50.0	07/08/11
11G0116-07 [MS]	B033342	50.0	50.0	07/08/11
11G0116-08 [DS]	B033342	50.0	50.0	07/08/11

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11G0116-01 [MW-1]	B033341	50.0	50.0	07/08/11
11G0116-02 [MW-2]	B033341	50.0	50.0	07/08/11
11G0116-03 [MW-3]	B033341	50.0	50.0	07/08/11
11G0116-04 [MW-4]	B033341	50.0	50.0	07/08/11
11G0116-05 [MW-5]	B033341	50.0	50.0	07/08/11
11G0116-06 [US]	B033341	50.0	50.0	07/08/11
11G0116-07 [MS]	B033341	50.0	50.0	07/08/11
11G0116-08 [DS]	B033341	50.0	50.0	07/08/11

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11G0116-01 [MW-1]	B033261	6.00	6.00	07/07/11
11G0116-02 [MW-2]	B033261	6.00	6.00	07/07/11
11G0116-03 [MW-3]	B033261	6.00	6.00	07/07/11
11G0116-04 [MW-4]	B033261	6.00	6.00	07/07/11
11G0116-05 [MW-5]	B033261	6.00	6.00	07/07/11
11G0116-06 [US]	B033261	6.00	6.00	07/07/11
11G0116-07 [MS]	B033261	6.00	6.00	07/07/11
11G0116-08 [DS]	B033261	6.00	6.00	07/07/11

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11G0116-01 [MW-1]	B033313	5	5.00	07/08/11
11G0116-03 [MW-3]	B033313	5	5.00	07/08/11
11G0116-05 [MW-5]	B033313	5	5.00	07/08/11
11G0116-06 [US]	B033313	5	5.00	07/08/11

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11G0116-02 [MW-2]	B033338	5	5.00	07/08/11
11G0116-04 [MW-4]	B033338	5	5.00	07/08/11
11G0116-07 [MS]	B033338	5	5.00	07/08/11
11G0116-08 [DS]	B033338	5	5.00	07/08/11

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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 B033313 - SW-846 5030B										
Blank (B033313-BLK1)				Prepared & Analyzed: 07/08/11						
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	0.14	2.0	µg/L							J
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
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	*24.7*		µg/L	25.0		99.0	70-130			
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	*24.9*		µg/L	25.0		99.7	70-130			

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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 B033313 - SW-846 5030B										
LCS (B033313-BS1)				Prepared & Analyzed: 07/08/11						
Acetone	140	50	µg/L	100		140	70-160		25	†
Acrylonitrile	9.26	5.0	µg/L	10.0		92.6	70-130		25	
Benzene	9.72	1.0	µg/L	10.0		97.2	70-130		25	
Bromochloromethane	9.82	1.0	µg/L	10.0		98.2	70-130		25	
Bromodichloromethane	9.89	0.50	µg/L	10.0		98.9	70-130		25	
Bromoform	10.6	1.0	µg/L	10.0		106	70-130		25	
Bromomethane	6.95	2.0	µg/L	10.0		69.5	40-160		25	†
2-Butanone (MEK)	109	20	µg/L	100		109	40-160		25	†
Carbon Disulfide	9.67	2.0	µg/L	10.0		96.7	70-130		25	
Carbon Tetrachloride	10.7	5.0	µg/L	10.0		107	70-130		25	
Chlorobenzene	10.5	1.0	µg/L	10.0		105	70-130		25	
Chlorodibromomethane	11.1	0.50	µg/L	10.0		111	70-130		25	
Chloroethane	7.92	2.0	µg/L	10.0		79.2	70-130		25	
Chloroform	10.1	2.0	µg/L	10.0		101	70-130		25	
Chloromethane	6.32	2.0	µg/L	10.0		63.2	40-160		25	†
1,2-Dibromo-3-chloropropane (DBCP)	8.78	5.0	µg/L	10.0		87.8	70-130		25	
1,2-Dibromoethane (EDB)	11.9	0.50	µg/L	10.0		119	70-130		25	
Dibromomethane	11.1	1.0	µg/L	10.0		111	70-130		25	
1,2-Dichlorobenzene	9.61	1.0	µg/L	10.0		96.1	70-130		25	
1,4-Dichlorobenzene	9.74	1.0	µg/L	10.0		97.4	70-130		25	
trans-1,4-Dichloro-2-butene	10.8	2.0	µg/L	10.0		108	70-130		25	
1,1-Dichloroethane	9.66	1.0	µg/L	10.0		96.6	70-130		25	
1,2-Dichloroethane	10.7	1.0	µg/L	10.0		107	70-130		25	
1,1-Dichloroethylene	9.04	1.0	µg/L	10.0		90.4	70-130		25	
cis-1,2-Dichloroethylene	9.77	1.0	µg/L	10.0		97.7	70-130		25	
trans-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102	70-130		25	
1,2-Dichloropropane	9.42	1.0	µg/L	10.0		94.2	70-130		25	
cis-1,3-Dichloropropene	10.2	0.50	µg/L	10.0		102	70-130		25	
trans-1,3-Dichloropropene	11.4	0.50	µg/L	10.0		114	70-130		25	
Ethylbenzene	10.2	1.0	µg/L	10.0		102	70-130		25	
2-Hexanone (MBK)	118	10	µg/L	100		118	70-160		25	†
Methylene Chloride	8.02	5.0	µg/L	10.0		80.2	70-130		25	
4-Methyl-2-pentanone (MIBK)	99.5	10	µg/L	100		99.5	70-160		25	†
Styrene	10.6	1.0	µg/L	10.0		106	70-130		25	
1,1,1,2-Tetrachloroethane	10.3	1.0	µg/L	10.0		103	70-130		25	
1,1,2,2-Tetrachloroethane	10.8	0.50	µg/L	10.0		108	70-130		25	
Tetrachloroethylene	10.9	1.0	µg/L	10.0		109	70-130		25	
Toluene	10.2	1.0	µg/L	10.0		102	70-130		25	
1,1,1-Trichloroethane	10.6	1.0	µg/L	10.0		106	70-130		25	
1,1,2-Trichloroethane	11.3	1.0	µg/L	10.0		113	70-130		25	
Trichloroethylene	9.91	1.0	µg/L	10.0		99.1	70-130		25	
Trichlorofluoromethane (Freon 11)	8.55	2.0	µg/L	10.0		85.5	70-130		25	
1,2,3-Trichloropropane	9.72	2.0	µg/L	10.0		97.2	70-130		25	
Vinyl Chloride	8.19	2.0	µg/L	10.0		81.9	40-160		25	†
m+p Xylene	20.9	2.0	µg/L	20.0		104	70-130		25	
o-Xylene	10.0	1.0	µg/L	10.0		100	70-130		25	
Surrogate: 1,2-Dichloroethane-d4	*24.0*		µg/L	25.0		95.9	70-130			
Surrogate: Toluene-d8	*25.4*		µg/L	25.0		102	70-130			
Surrogate: 4-Bromofluorobenzene	*26.2*		µg/L	25.0		105	70-130			

con-test® ANALYTICAL LABORATORY

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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 B033313 - SW-846 5030B												
LCS Dup (B033313-BSD1)				Prepared & Analyzed: 07/08/11								
Acetone	117	50	µg/L	100		117		70-160	18.5	25		†
Acrylonitrile	8.60	5.0	µg/L	10.0		86.0		70-130	7.39	25		
Benzene	8.40	1.0	µg/L	10.0		84.0		70-130	14.6	25		
Bromochloromethane	8.93	1.0	µg/L	10.0		89.3		70-130	9.49	25		
Bromodichloromethane	9.12	0.50	µg/L	10.0		91.2		70-130	8.10	25		
Bromoform	10.3	1.0	µg/L	10.0		103		70-130	2.59	25		
Bromomethane	6.21	2.0	µg/L	10.0		62.1		40-160	11.2	25		†
2-Butanone (MEK)	106	20	µg/L	100		106		40-160	2.16	25		†
Carbon Disulfide	8.10	2.0	µg/L	10.0		81.0		70-130	17.7	25		
Carbon Tetrachloride	8.98	5.0	µg/L	10.0		89.8		70-130	17.4	25		
Chlorobenzene	9.25	1.0	µg/L	10.0		92.5		70-130	12.4	25		
Chlorodibromomethane	10.7	0.50	µg/L	10.0		107		70-130	4.40	25		
Chloroethane	6.61	2.0	µg/L	10.0		**66.1**	*	70-130	18.0	25	L-07	
Chloroform	8.99	2.0	µg/L	10.0		89.9		70-130	11.2	25		
Chloromethane	5.17	2.0	µg/L	10.0		51.7		40-160	20.0	25		†
1,2-Dibromo-3-chloropropane (DBCP)	9.38	5.0	µg/L	10.0		93.8		70-130	6.61	25		
1,2-Dibromoethane (EDB)	11.8	0.50	µg/L	10.0		118		70-130	0.589	25		
Dibromomethane	11.3	1.0	µg/L	10.0		113		70-130	1.69	25		
1,2-Dichlorobenzene	9.15	1.0	µg/L	10.0		91.5		70-130	4.90	25		
1,4-Dichlorobenzene	8.77	1.0	µg/L	10.0		87.7		70-130	10.5	25		
trans-1,4-Dichloro-2-butene	9.92	2.0	µg/L	10.0		99.2		70-130	8.77	25		
1,1-Dichloroethane	8.08	1.0	µg/L	10.0		80.8		70-130	17.8	25		
1,2-Dichloroethane	10.7	1.0	µg/L	10.0		107		70-130	0.373	25		
1,1-Dichloroethylene	7.48	1.0	µg/L	10.0		74.8		70-130	18.9	25		
cis-1,2-Dichloroethylene	8.35	1.0	µg/L	10.0		83.5		70-130	15.7	25		
trans-1,2-Dichloroethylene	9.02	1.0	µg/L	10.0		90.2		70-130	12.6	25		
1,2-Dichloropropane	8.90	1.0	µg/L	10.0		89.0		70-130	5.68	25		
cis-1,3-Dichloropropene	9.70	0.50	µg/L	10.0		97.0		70-130	4.63	25		
trans-1,3-Dichloropropene	11.0	0.50	µg/L	10.0		110		70-130	3.84	25		
Ethylbenzene	8.83	1.0	µg/L	10.0		88.3		70-130	14.6	25		
2-Hexanone (MBK)	117	10	µg/L	100		117		70-160	0.485	25		†
Methylene Chloride	7.77	5.0	µg/L	10.0		77.7		70-130	3.17	25		
4-Methyl-2-pentanone (MIBK)	102	10	µg/L	100		102		70-160	2.93	25		†
Styrene	9.12	1.0	µg/L	10.0		91.2		70-130	14.9	25		
1,1,1,2-Tetrachloroethane	10.0	1.0	µg/L	10.0		100		70-130	2.76	25		
1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.0		106		70-130	1.69	25		
Tetrachloroethylene	9.34	1.0	µg/L	10.0		93.4		70-130	15.3	25		
Toluene	9.08	1.0	µg/L	10.0		90.8		70-130	11.8	25		
1,1,1-Trichloroethane	8.93	1.0	µg/L	10.0		89.3		70-130	16.6	25		
1,1,2-Trichloroethane	10.5	1.0	µg/L	10.0		105		70-130	7.89	25		
Trichloroethylene	8.73	1.0	µg/L	10.0		87.3		70-130	12.7	25		
Trichlorofluoromethane (Freon 11)	7.11	2.0	µg/L	10.0		71.1		70-130	18.4	25		
1,2,3-Trichloropropane	9.53	2.0	µg/L	10.0		95.3		70-130	1.97	25		
Vinyl Chloride	6.62	2.0	µg/L	10.0		66.2		40-160	21.2	25		†
m+p Xylene	17.9	2.0	µg/L	20.0		89.4		70-130	15.5	25		
o-Xylene	8.92	1.0	µg/L	10.0		89.2		70-130	11.4	25		
Surrogate: 1,2-Dichloroethane-d4	*24.2*		µg/L	25.0		97.0		70-130				
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		102		70-130				
Surrogate: 4-Bromofluorobenzene	*26.7*		µg/L	25.0		107		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 B033338 - SW-846 5030B										
Blank (B033338-BLK1)				Prepared: 07/08/11 Analyzed: 07/12/11						
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							R-05
Bromomethane	ND	2.0	µg/L							L-04
2-Butanone (MEK)	ND	20	µg/L							
Carbon Disulfide	0.33	2.0	µg/L							J
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							L-04, V-05
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
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	*25.3*		µg/L	25.0		101	70-130			
Surrogate: Toluene-d8	*18.9*		µg/L	25.0		75.4	70-130			
Surrogate: 4-Bromofluorobenzene	*20.9*		µg/L	25.0		83.6	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 B033338 - SW-846 5030B												
LCS (B033338-BS1)				Prepared: 07/08/11 Analyzed: 07/12/11								
Acetone	176	50	µg/L	100		**176**	*	70-160		25	L-07	†
Acrylonitrile	8.82	5.0	µg/L	10.0		88.2		70-130		25		
Benzene	11.0	1.0	µg/L	10.0		110		70-130		25		
Bromochloromethane	10.5	1.0	µg/L	10.0		105		70-130		25		
Bromodichloromethane	9.32	0.50	µg/L	10.0		93.2		70-130		25		
Bromoform	8.63	1.0	µg/L	10.0		86.3		70-130		25	R-05	
Bromomethane	2.25	2.0	µg/L	10.0		**22.5**	*	40-160		25	L-04	†
2-Butanone (MEK)	124	20	µg/L	100		124		40-160		25		†
Carbon Disulfide	11.4	2.0	µg/L	10.0		114		70-130		25		
Carbon Tetrachloride	10.7	5.0	µg/L	10.0		107		70-130		25		
Chlorobenzene	10.8	1.0	µg/L	10.0		108		70-130		25		
Chlorodibromomethane	9.59	0.50	µg/L	10.0		95.9		70-130		25		
Chloroethane	7.83	2.0	µg/L	10.0		78.3		70-130		25		
Chloroform	10.0	2.0	µg/L	10.0		100		70-130		25		
Chloromethane	2.63	2.0	µg/L	10.0		**26.3**	*	40-160		25	L-04, V-05	†
1,2-Dibromo-3-chloropropane (DBCP)	12.2	5.0	µg/L	10.0		122		70-130		25		
1,2-Dibromoethane (EDB)	9.92	0.50	µg/L	10.0		99.2		70-130		25		
Dibromomethane	9.35	1.0	µg/L	10.0		93.5		70-130		25		
1,2-Dichlorobenzene	11.3	1.0	µg/L	10.0		113		70-130		25		
1,4-Dichlorobenzene	10.9	1.0	µg/L	10.0		109		70-130		25		
trans-1,4-Dichloro-2-butene	11.0	2.0	µg/L	10.0		110		70-130		25	V-20	
1,1-Dichloroethane	9.59	1.0	µg/L	10.0		95.9		70-130		25		
1,2-Dichloroethane	9.03	1.0	µg/L	10.0		90.3		70-130		25		
1,1-Dichloroethylene	8.52	1.0	µg/L	10.0		85.2		70-130		25		
cis-1,2-Dichloroethylene	9.36	1.0	µg/L	10.0		93.6		70-130		25		
trans-1,2-Dichloroethylene	10.2	1.0	µg/L	10.0		102		70-130		25		
1,2-Dichloropropane	9.19	1.0	µg/L	10.0		91.9		70-130		25		
cis-1,3-Dichloropropene	9.26	0.50	µg/L	10.0		92.6		70-130		25		
trans-1,3-Dichloropropene	10.8	0.50	µg/L	10.0		108		70-130		25		
Ethylbenzene	11.1	1.0	µg/L	10.0		111		70-130		25		
2-Hexanone (MBK)	109	10	µg/L	100		109		70-160		25		†
Methylene Chloride	10.1	5.0	µg/L	10.0		101		70-130		25		
4-Methyl-2-pentanone (MIBK)	100	10	µg/L	100		100		70-160		25		†
Styrene	9.77	1.0	µg/L	10.0		97.7		70-130		25		
1,1,1,2-Tetrachloroethane	10.8	1.0	µg/L	10.0		108		70-130		25		
1,1,2,2-Tetrachloroethane	10.5	0.50	µg/L	10.0		105		70-130		25		
Tetrachloroethylene	10.1	1.0	µg/L	10.0		101		70-130		25		
Toluene	9.92	1.0	µg/L	10.0		99.2		70-130		25		
1,1,1-Trichloroethane	10.1	1.0	µg/L	10.0		101		70-130		25		
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0		103		70-130		25		
Trichloroethylene	9.54	1.0	µg/L	10.0		95.4		70-130		25		
Trichlorofluoromethane (Freon 11)	8.87	2.0	µg/L	10.0		88.7		70-130		25		
1,2,3-Trichloropropane	8.93	2.0	µg/L	10.0		89.3		70-130		25		
Vinyl Chloride	9.32	2.0	µg/L	10.0		93.2		40-160		25		†
m+p Xylene	20.4	2.0	µg/L	20.0		102		70-130		25		
o-Xylene	10.1	1.0	µg/L	10.0		101		70-130		25		
Surrogate: 1,2-Dichloroethane-d4	*25.8*		µg/L	25.0		103		70-130				
Surrogate: Toluene-d8	*24.8*		µg/L	25.0		99.1		70-130				
Surrogate: 4-Bromofluorobenzene	*25.0*		µg/L	25.0		99.9		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 B033338 - SW-846 5030B													
LCS Dup (B033338-BSD1)				Prepared: 07/08/11 Analyzed: 07/12/11									
Acetone	152	50	µg/L	100		152		70-160	14.5		25		†
Acrylonitrile	7.52	5.0	µg/L	10.0		75.2		70-130	15.9		25		
Benzene	10.1	1.0	µg/L	10.0		101		70-130	8.46		25		
Bromochloromethane	8.25	1.0	µg/L	10.0		82.5		70-130	23.6		25		
Bromodichloromethane	9.22	0.50	µg/L	10.0		92.2		70-130	1.08		25		
Bromoform	6.61	1.0	µg/L	10.0		**66.1**	*	70-130	**26.5**	*	25	L-07A, R-05	
Bromomethane	2.46	2.0	µg/L	10.0		**24.6**	*	40-160	8.92		25	L-04	†
2-Butanone (MEK)	102	20	µg/L	100		102		40-160	19.2		25		†
Carbon Disulfide	9.00	2.0	µg/L	10.0		90.0		70-130	23.1		25		
Carbon Tetrachloride	10.1	5.0	µg/L	10.0		101		70-130	6.35		25		
Chlorobenzene	11.3	1.0	µg/L	10.0		113		70-130	4.16		25		
Chlorodibromomethane	10.9	0.50	µg/L	10.0		109		70-130	12.5		25		
Chloroethane	6.86	2.0	µg/L	10.0		**68.6**	*	70-130	13.2		25	L-07	
Chloroform	7.94	2.0	µg/L	10.0		79.4		70-130	23.3		25		
Chloromethane	2.59	2.0	µg/L	10.0		**25.9**	*	40-160	1.53		25	L-04, V-05	†
1,2-Dibromo-3-chloropropane (DBCP)	10.8	5.0	µg/L	10.0		108		70-130	12.6		25		
1,2-Dibromoethane (EDB)	9.65	0.50	µg/L	10.0		96.5		70-130	2.76		25		
Dibromomethane	9.85	1.0	µg/L	10.0		98.5		70-130	5.21		25		
1,2-Dichlorobenzene	11.5	1.0	µg/L	10.0		115		70-130	1.75		25		
1,4-Dichlorobenzene	11.2	1.0	µg/L	10.0		112		70-130	3.34		25		
trans-1,4-Dichloro-2-butene	9.39	2.0	µg/L	10.0		93.9		70-130	15.9		25	V-20	
1,1-Dichloroethane	7.69	1.0	µg/L	10.0		76.9		70-130	22.0		25		
1,2-Dichloroethane	10.6	1.0	µg/L	10.0		106		70-130	16.4		25		
1,1-Dichloroethylene	7.49	1.0	µg/L	10.0		74.9		70-130	12.9		25		
cis-1,2-Dichloroethylene	7.93	1.0	µg/L	10.0		79.3		70-130	16.5		25		
trans-1,2-Dichloroethylene	8.17	1.0	µg/L	10.0		81.7		70-130	22.2		25		
1,2-Dichloropropane	9.56	1.0	µg/L	10.0		95.6		70-130	3.95		25		
cis-1,3-Dichloropropene	10.8	0.50	µg/L	10.0		108		70-130	15.1		25		
trans-1,3-Dichloropropene	10.9	0.50	µg/L	10.0		109		70-130	1.29		25		
Ethylbenzene	8.71	1.0	µg/L	10.0		87.1		70-130	24.0		25		
2-Hexanone (MBK)	117	10	µg/L	100		117		70-160	7.14		25		†
Methylene Chloride	8.46	5.0	µg/L	10.0		84.6		70-130	17.4		25		
4-Methyl-2-pentanone (MIBK)	106	10	µg/L	100		106		70-160	6.05		25		†
Styrene	9.31	1.0	µg/L	10.0		93.1		70-130	4.82		25		
1,1,1,2-Tetrachloroethane	10.1	1.0	µg/L	10.0		101		70-130	6.59		25		
1,1,2,2-Tetrachloroethane	9.15	0.50	µg/L	10.0		91.5		70-130	13.9		25		
Tetrachloroethylene	10.2	1.0	µg/L	10.0		102		70-130	0.394		25		
Toluene	10.4	1.0	µg/L	10.0		104		70-130	4.34		25		
1,1,1-Trichloroethane	10.0	1.0	µg/L	10.0		100		70-130	0.793		25		
1,1,2-Trichloroethane	10.0	1.0	µg/L	10.0		100		70-130	2.07		25		
Trichloroethylene	9.80	1.0	µg/L	10.0		98.0		70-130	2.69		25		
Trichlorofluoromethane (Freon 11)	7.66	2.0	µg/L	10.0		76.6		70-130	14.6		25		
1,2,3-Trichloropropane	9.32	2.0	µg/L	10.0		93.2		70-130	4.27		25		
Vinyl Chloride	8.02	2.0	µg/L	10.0		80.2		40-160	15.0		25		†
m+p Xylene	16.4	2.0	µg/L	20.0		81.8		70-130	21.9		25		
o-Xylene	8.36	1.0	µg/L	10.0		83.6		70-130	19.2		25		
Surrogate: 1,2-Dichloroethane-d4	*24.4*		µg/L	25.0		97.7		70-130					
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.8		70-130					
Surrogate: 4-Bromofluorobenzene	*23.5*		µg/L	25.0		94.1		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 B033261 - SW-846 7470A Prep										
Blank (B033261-BLK1)				Prepared: 07/07/11	Analyzed: 07/08/11					
Mercury	ND	0.10	µg/L							
LCS (B033261-BS1)				Prepared: 07/07/11	Analyzed: 07/08/11					
Mercury	2.07	0.10	µg/L	2.00		103	80-120		20	
LCS Dup (B033261-BSD1)				Prepared: 07/07/11	Analyzed: 07/08/11					
Mercury	2.07	0.10	µg/L	2.00		104	80-120	0.191	20	
Duplicate (B033261-DUP1)		**Source: 11G0116-01**		Prepared: 07/07/11	Analyzed: 07/08/11					
Mercury	ND	0.10	µg/L		ND			NC	20	
Matrix Spike (B033261-MS1)		**Source: 11G0116-01**		Prepared: 07/07/11	Analyzed: 07/08/11					
Mercury	2.11	0.10	µg/L	2.00	ND	106	75-125		20	
Batch B033341 - SM 3030C										
Blank (B033341-BLK1)				Prepared: 07/08/11	Analyzed: 07/11/11					
Cadmium	ND	0.50	µg/L							
Lead	ND	1.0	µg/L							
Selenium	ND	5.0	µg/L							
Silver	ND	0.50	µg/L							
LCS (B033341-BS1)				Prepared: 07/08/11	Analyzed: 07/11/11					
Cadmium	481	5.0	µg/L	500		96.2	80-120		20	
Lead	483	10	µg/L	500		96.7	80-120		20	
Selenium	481	50	µg/L	500		96.1	80-120		20	
Silver	508	5.0	µg/L	500		102	80-120		20	
LCS Dup (B033341-BSD1)				Prepared: 07/08/11	Analyzed: 07/11/11					
Cadmium	481	5.0	µg/L	500		96.3	80-120	0.0462	20	
Lead	485	10	µg/L	500		96.9	80-120	0.256	20	
Selenium	484	50	µg/L	500		96.9	80-120	0.785	20	
Silver	503	5.0	µg/L	500		101	80-120	0.913	20	
Duplicate (B033341-DUP1)		**Source: 11G0116-01**		Prepared: 07/08/11	Analyzed: 07/11/11					
Cadmium	0.603	0.50	µg/L		0.601			0.433	20	
Lead	0.338	1.0	µg/L		0.336			0.505	20	J
Selenium	ND	5.0	µg/L		ND			NC	20	
Silver	ND	0.50	µg/L		ND			NC	20	
Matrix Spike (B033341-MS1)		**Source: 11G0116-01**		Prepared: 07/08/11	Analyzed: 07/11/11					
Cadmium	514	5.0	µg/L	500	0.601	103	75-125		20	
Lead	512	10	µg/L	500	0.336	102	75-125		20	
Selenium	527	50	µg/L	500	ND	105	75-125		20	
Silver	527	5.0	µg/L	500	ND	105	75-125		20	

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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 B033342 - SM 3030C										
Blank (B033342-BLK1)				Prepared: 07/08/11	Analyzed: 07/11/11					
Arsenic	ND	10	µg/L							
Barium	ND	0.050	mg/L							
Chromium	ND	10	µg/L							
LCS (B033342-BS1)				Prepared: 07/08/11	Analyzed: 07/11/11					
Arsenic	587	10	µg/L	500		117	80-120		20	
Barium	0.545	0.050	mg/L	0.500		109	80-120		20	
Chromium	535	10	µg/L	500		107	80-120		20	
LCS Dup (B033342-BSD1)				Prepared: 07/08/11	Analyzed: 07/11/11					
Arsenic	575	10	µg/L	500		115	80-120	1.91	20	
Barium	0.534	0.050	mg/L	0.500		107	80-120	2.05	20	
Chromium	525	10	µg/L	500		105	80-120	1.87	20	
Duplicate (B033342-DUP1)	**Source: 11G0116-01**			Prepared: 07/08/11	Analyzed: 07/11/11					
Arsenic	ND	10	µg/L		ND			NC	20	
Barium	0.0367	0.050	mg/L		0.0361			1.85	20	J
Chromium	ND	10	µg/L		ND			NC	20	
Matrix Spike (B033342-MS1)	**Source: 11G0116-01**			Prepared: 07/08/11	Analyzed: 07/11/11					
Arsenic	580	10	µg/L	500	ND	116	75-125		20	
Barium	0.569	0.050	mg/L	0.500	0.0361	106	75-125		20	
Chromium	526	10	µg/L	500	ND	105	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.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 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	
Cadmium	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,NC,ME
Acrylonitrile	CT,NY,NC,ME,RI
Benzene	CT,NH,NY,NC,ME,RI
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME,RI
Bromoform	CT,NH,NY,NC,ME,RI
Bromomethane	CT,NH,NY,NC,ME,RI
2-Butanone (MEK)	CT,NH,NY,NC,ME
Carbon Disulfide	CT,NH,NY,NC,ME
Carbon Tetrachloride	CT,NH,NY,NC,ME,RI
Chlorobenzene	CT,NH,NY,NC,ME,RI
Chlorodibromomethane	CT,NH,NY,NC,ME,RI
Chloroethane	CT,NH,NY,NC,ME,RI
Chloroform	CT,NH,NY,NC,ME,RI
Chloromethane	CT,NH,NY,NC,ME,RI
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
Dibromomethane	NH,NY,NC,ME
1,2-Dichlorobenzene	CT,NY,NC,ME,RI
1,4-Dichlorobenzene	CT,NH,NY,NC,ME,RI
trans-1,4-Dichloro-2-butene	NH,NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME,RI
1,2-Dichloroethane	CT,NH,NY,NC,ME,RI
1,1-Dichloroethylene	CT,NH,NY,NC,ME,RI
cis-1,2-Dichloroethylene	NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME,RI
1,2-Dichloropropane	CT,NH,NY,NC,ME,RI
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME,RI
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME,RI
Ethylbenzene	CT,NH,NY,NC,ME,RI
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Iodomethane	NC
Methylene Chloride	CT,NH,NY,NC,ME,RI
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC,ME
Styrene	CT,NH,NY,NC,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,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME,RI
Tetrachloroethylene	CT,NH,NY,NC,ME,RI
Toluene	CT,NH,NY,NC,ME,RI
1,1,1-Trichloroethane	CT,NH,NY,NC,ME,RI
1,1,2-Trichloroethane	CT,NH,NY,NC,ME,RI
Trichloroethylene	CT,NH,NY,NC,ME,RI
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME,RI
1,2,3-Trichloropropane	NH,NY,NC,ME
Vinyl Acetate	NH,NY,NC,ME
Vinyl Chloride	CT,NH,NY,NC,ME,RI
m+p Xylene	CT,NH,NY,NC,ME,RI
o-Xylene	CT,NH,NY,NC,ME,RI

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
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	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
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	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

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CHAIN OF CUSTODY RECORD

11G0116

39 Spruce Street
East Longmeadow, MA 01028

Page_____of_____

Company Name: E²S
Address: 3008 Anderson Dr. St. 102
Raleigh NC 27609
Attention: Pat Shillington
Project Location: Hoke County
Sampled By: RWB

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

DATA DELIVERY (check all that apply)
O FAX ☒ EMAIL O WEBSITE
Fax #
Email: e²s@bellsouth.net
Format: ☒ PDF ☒ 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	Total RCRA Metals	# of Containers	** Preservation	***Container Code
-01	MW-1	7/5/11	12:30		x	GW		x	x			
-02	MW-2	7/5/11	1:30		x	GW		x	x			
-03	MW-3	7/5/11	2:20		x	GW		x	x			
-04	MW-4	7/5/11	4:20		x	GW		x	x			
-05	MW-5	7/5/11	3:00		x	GW		x	x			
-06	US	7/5/11	4:30		x	GW		x	x			
-07	MS	7/5/11	3:25		x	GW		x	x			
-08	DS	7/5/11	3:20		x	GW		x	x			

Dissolved Metals
O Field Filtered
O Lab to Filter

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

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

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

Comments:

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

Relinquished by: (signature)	Date/Time: 7/6/11 11:42 am
Received by: (signature)	Date/Time: 7/6/11 11:45 am
Relinquished by: (signature)	Date/Time:
Received by: (signature) 3.6°C	Date/Time: 7/7/11 07:52

Turnaround ††
O 5-Day
O 5-7-Day
☒ 10-Day
RUSH †
O †24-Hr † 48-Hr
O †72-Hr † 4-Day
† Requires Lab Approval

Detection Limit Requirements
North Carolina
O 2L
O GWPC
☒ SWSL
O OTHER

Program Information
O DSCA O IHSB Orphaned Landfill
☒ SWS Landfill O UST O REC
O Other: _____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lab & Industrial Hygiene www.aihaLAP.org for details

NELAC & AIHA Certified
WBE/DBE Certified

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

All units are in (ug/L) unless noted.

NE = Not Established

CAS numbers that begin with "SW" are not real CAS numbers, instead this represents the Solid Waste Section's ID number

Names in green signify Appendix I and II Constituents

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

E2S

95-50-1	o-Dichlorobenzene; 1,2-Dichlorobenzene	Benzene, 1,2-dichloro-	20	--	5	69	I
106-46-7	p-Dichlorobenzene; 1,4-Dichlorobenzene	Benzene, 1,4-dichloro-	6	--	1	71	I
100-42-5	Styrene	Benzene, ethenyl-	70	--	1	186	I
127-18-4	Tetrachloroethylene; Tetrachloroethene; Perchloroethylene	Ethene, tetrachloro-	0.7	--	1	192	I
108-88-3	Toluene	Benzene, methyl-	600	--	1	196	I
156-60-5	trans-1,2-Dichloroethylene; trans-1,2-Dichloroethene	Ethene, 1,2-dichloro-,(E)-	100	--	5	79	I
10061-02-6	trans-1,3-Dichloropropene	1-Propene, 1,3-dichloro-, (E)-	0.4	--	1	87	I
110-57-6	trans-1,4-Dichloro-2-butene	2-Butene, 1,4-dichloro-, (E)-	NE	NE	100	73	I
79-01-6	Trichloroethylene; Trichloroethene	Ethene, trichloro-	3	--	1	201	I
75-69-4	Trichlorofluoromethane; CFC-11	Methane,trichlorofluoro-	2000	--	1	203	I
108-05-4	Vinyl acetate	Acetic acid, ethenylester	NE	88	50	210	I
75-01-4	Vinyl chloride; Chloroethene	Ethene, chloro-	0.03	--	1	211	I
1330-20-7	Xylene (total)	(o-,m-,and p-, Benzene, dimethyl	500	--	5	346	I

* GWP = Groundwater Protection

** SWSL = Solid Waste Section Limit

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

United States

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1Z89120W2110000882

Updated: 07/07/2011 8:53 A.M. Eastern Time

Delivered

Delivered On:
Thursday, 07/07/2011 at 7:52 A.M.

Signed By:
WILSON

Proof of Delivery

Left At:
Receiver

Add Notification

Shipping Information

To:
EAST LONGMEADOW, MA, US

Shipped By

NEXT DAY EARLY AM

Additional Information

Type: Package

Weight: 21.00

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East Longmeadow, MA. 01028
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www.contestlabs.com

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Sample Receipt Checklist

CLIENT NAME: E²S **RECEIVED BY:** AP **DATE:** 7/7/11

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 3.6°C

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

Who was notified _____ Date _____ Time _____

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

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

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

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:
(*) One vial for MW-3 Sampled properly, all others have headspace (air bubbles) (8260)

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 Sample MS not pres for metals.

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