REMEDIAL INVESTIGATION – INSTALLATION OF PERMENANT GROUNDWATER WELLS AND LANDFILL GAS PROBES, AND SOIL ASBESTOS STUDY

Edgecombe County Landfill
NONCD0000653
2759 Colonial Road
Edgecombe County
State Contract No: N10004S
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1.0 INTRODUCTION

Schnabel Engineering South, P.C. (Schnabel) is pleased to present our Remedial Investigation – Installation of Permanent Groundwater Wells and Landfill Gas Probes, and Soil Asbestos Study Report for Edgecombe County Landfill (NONCD0000653) located at 2759 Colonial Road in Tarboro, North Carolina. This report was prepared in accordance with our Work Plan dated March 5, 2015 as authorized by the Pre-Regulatory Landfill Unit (Unit) Task Number 653DP-9 on March 13, 2015. Field activities were performed following Schnabel's Quality Assurance Standard Operating Procedures (SOPs) submitted on October 29, 2010.

Activity for this phase of work included the installation of permanent groundwater wells and gas probes, groundwater sampling, soil gas screening, asbestos sampling from select borings, and additional soil/waste sampling (Appendix A). Groundwater results were compared to the North Carolina 2L (NC 2L) Groundwater Quality Standards and Environmental Protection Agency (EPA) National Primary Drinking Water Regulations Maximum Contaminant Levels (MCLs). Soil results were compared to the Inactive Hazardous Sites Branch Preliminary Soil Remediation Goals (PSRGs) including residential health based goals and protection-of-groundwater goals.

A permanent well was not installed at the MW-2 location because waste was encountered in the boring.

Data points were flagged and located using a Trimble Pro-XRS to locate and flag the groundwater well and gas probe locations using North American Datum 1983 (NAD83) format. Global Positioning System (GPS) coordinates are provided in Appendix B in decimal degrees to the seventh order to sub-meter accuracy using differential corrections. The Site Map included as Figure 1 shows the locations of the permanent groundwater wells and gas probes.

2.0 GROUNDWATER WELLS

Permanent groundwater monitoring wells MW-A1, MW-A2, MW-4, MW-6, and MW-7 were installed on April 6 through April 7, 2015 by the drilling subcontractor using a Geoprobe 6620D with 4 1/4" inner diameter (ID) hollow stem auger. The northeastern disposal area boundary was expanded to include the MW-2 location where waste was encountered.

The wells were constructed of flush joint threaded 2-inch diameter PVC with 5 to 10 feet of 0.01-inch slotted screen, riser and a well cap within the uppermost portion of the uppermost aquifer (Table 1 and Appendix C). Filter sand was placed into the annular space between the auger and the well using the tremie pipe method to about two feet above the top of the well screen. The augers were removed and a two feet thick bentonite seal was placed by the tremie pipe method immediately above the sand pack and hydrated with de-ionized water. A grout seal was placed using the tremie pipe method from the top of the bentonite seal to 1 foot below land surface. A locking steel protective casing was placed over the well and set in a 2 ft x 2 ft concrete pad that extends down the borehole to the top of the grout seal. A well tag

identifying the well number and construction information was placed on each well and the protective casing locked. Each well was completed with an approximate three foot stick-up above the land surface.

At least 24-hours following grout placement, the groundwater monitoring wells were developed by pumping. Schnabel observed development and monitored the groundwater parameters. After each well volume of water was extracted, turbidity was field measured and development continued to a point in which suspended solids were at acceptable levels.

Following development the groundwater level was allowed to stabilize and the depth to water and total well depth from the top of the high side of the PVC casing were measured to an accuracy of 0.01-foot with an electronic water level meter and recorded. Each well was purged until field parameters stabilized and then groundwater samples were collected for laboratory analysis (Table 2). Purging and sampling was completed using a GeoPump 2 peristaltic pump.

Groundwater samples were analyzed by the laboratory for volatile organic compounds (VOCs) by SW-846 Method 8260B, 1,4-dioxane by Method 8260C SIM, semi-volatile organic compounds (SVOCs) by SW-846 Method 8270D, 14 metals by SW-846 Method 6020A, mercury by Method 7470A, ammonia by 350.1, nitrate by 353.2, and sulfate by 300.0 (Appendix D).

The following constituents were detected above NC 2L and/or EPA MCLs (Table 3 and Figure 2): VOC's benzene, 1,4-dichlorobenzene, 1,4-dioxane, and vinyl chloride; inorganics antimony, arsenic, iron, manganese, nickel and thallium; and ammonia.

3.0 LANDFILL GAS PROBES

On April 7 and April 8th, 2015 the drilling subcontractor constructed eight permanent landfill gas probes (GP-A1, GP-A2, GP-A3, GP-1, GP-3, GP-4, GP-9, and GP-11) on the Site (Figure 3). Seven of the gas probes were installed within waste and one (GP-A1) was installed outside of waste. The probes were constructed at least 2 feet above groundwater and sealed at least five feet below ground surface (bgs). The gas probes were constructed to a depth ranging between 8 and 12 feet bgs.

The gas probes were constructed of flush joint threaded 1-inch diameter PVC riser with a 1-inch diameter 0.010-inch slot PVC screen. Filter sand sized for 0.010-inch slot screen was placed in the annular space to 1 to 2 feet above the top of the screen. The remaining annular space was filled to the land surface with hydrated bentonite and a bentonite grout seal. The gas probes were completed with locking steel protective casings, well tags, and 2 ft x 2 ft concrete pads. The gas probe construction details are attached in Appendix C.

4.0 GAS PROBE SCREENING

Schnabel personnel performed landfill gas screening on April 9, 2015 from the newly installed gas probes (Figure 3 and Table 4). Instrumentation used included a Landtec Gem™ 2000+ (Manufacturer: CES

Landtec, Serial Number: gm08686/06) for oxygen, carbon dioxide, methane percent of lower explosive limit (LEL), percent methane by volume, hydrogen sulfide, and hourly barometric pressure readings. A MiniRAE 2000 (Manufacturer: RAE Systems, Serial Number: 110-012069) was utilized for VOCs in parts per million (ppm) and a QuesTemp (Instrument ID: TEG040137) was used to measure humidity on an hourly basis. Temperature was recorded for each hour during screening using data from a local weather station.

The Landtec Gem™ 2000+ was calibrated on April 2, 2015 by Mr. Brian Duke, Pine Environmental Services prior to sending to the field. In addition, the MiniRAE 2000 and Landtec Gem™ 2000+ were calibrated in the field before, during, and after the gas screening (Appendix A).

Landfill gas screening was conducted under fair conditions and steady barometric pressure. Methane percent by volume ranged from 2.1% to 67.3%, and LEL ranged from 38% to greater than 100%. Carbon dioxide ranged from 2.5 to 63.4% by volume, hydrogen sulfide ranged from 0.0 to 25% by volume, and oxygen readings ranged from 0.0 to 19.3%. VOCs ranged from 0.0 to 3.3 ppm.

Where there was a 2% change in readings between gas probes, a second reading was collected. Second readings were collected at all of the gas probes. For the second readings methane percent by volume ranged from 3.3% to 64.8%, and LEL ranged from 67% to greater than 100%. Carbon dioxide ranged from 4.1 to 43.2% by volume, hydrogen sulfide ranged from 0.0 to 23% by volume, and oxygen readings ranged from 0 to 16.7. VOCs ranged from 0.0 to 7.3 ppm. The first and second readings at the gas probes were similar, except VOCs increased in several probes during the second reading.

Two background readings were collected during the gas probe screening event. Methane percent by volume and LEL, carbon dioxide, hydrogen sulfide, and VOCs were at 0%. Oxygen ranged from 20.6% to 20.8%.

5.0 ASBESTOS SAMPLING

Samples for Asbestos analysis were collected at SB-3, SB-4, SB-9, SB-11, and SB-A2 at varying intervals up to 12 ft bgs by an accredited North Carolina asbestos inspector. Suspect materials were collected from waste within the borings.

The asbestos samples were analyzed by the laboratory for bulk asbestos by EPA 600 // M4-82-020 per 40 CFR. Asbestos was not detected in the collected samples. The laboratory analytical report is included in Appendix E.

6.0 SOIL/WASTE SAMPLING

Three soil borings (SB-A1, SB-A2, and SB-A3) were advanced using direct push probe methods before gas probes were installed (Appendix C). At each boring, unless refusal or groundwater was encountered,

soil samples were collected within approximate depth intervals of 0 to 2.5-feet, 2.5 to 5.0-feet, 5.0 to 7.5-feet, 7.5 to 10.0-feet, and 10.0 to 12.0-feet bgs.

Soil samples were analyzed by the laboratory for VOCs by SW-846 Method 8260B,1,4-dioxane by Method 8260C SIM, SVOCs by SW-846 Method 8270D, 14 metals by SW-846 Method 6020A, mercury by Method 7471B, ammonia by 350.1, and nitrate and sulfate by 9056A (Appendix D).

The following constituents were detected at concentrations that exceed the PSRGs (Table 5 and Figure 4): VOC 1,4-dioxane; SVOCs bis(2-ethylhexyl)phthalate and naphthalene; and, inorganics antimony, arsenic, iron, manganese, mercury, and silver.

7.0 QUALITY ASSURANCE/QUALITY CONTROL

The laboratory analytical results were checked for completeness and accuracy prior to submittal to the Unit. Based on the completeness evaluation the laboratory data is useable for this report.

A duplicate groundwater sample (Duplicate - 1) was collected at the MW-7 location on April 8, 2015. Duplicate soil samples (Duplicate-3 and Duplicate-4) were collected at the SB-A2 (7.5-10 ft) location on April 7, 2015 and at the SB-A1 (5.0-7.5 ft) location on April 8, 2015, respectively. The duplicate concentrations are similar to the parent samples. For comparison purposes, the duplicate samples are listed to the right of the parent samples on the attached tables.

8.0 INVESTIGATION DERIVED WASTE (IDW) MANAGEMENT

Visual observation of the waste removed from the borings during this site investigation did not suggest the potential for a hazardous waste substance, so drumming of waste was not conducted. Soil extracted from the soil borings was spread on the ground surface. Groundwater was discharged on the waste disposal area.

This report was prepared specifically for the use of the Pre-Regulatory Landfill Unit, Inactive Hazardous Sites Branch under our contract dated October 27, 2009 as defined in the scope of work for Task Order 653DP-9. Use of this document for other purposes or by other parties is at the sole risk of the user.

Table 1
Well Construction Details
NONCD0000653
Edgecombe County Landfill

Well ID	Date Installed	TOC Elevation (ft)	Ground Surface Elevation (ft)	Depth of Boring from Land Surface (ft bgs)	Depth to Water During Development TOC (ft)	Total Well Depth from TOC (ft)	Screen Interval (ft bgs)
MW-A1	4/6/2015	48.8	45.8	20	9.0	23.23	10-20
MW-A2	4/6/2015	59	56	20	14.36	23.27	10-20
MW-4	4/7/2015	77	74	19	16.80	22.23	9-19
MW-6	4/6/2015	53.3	50.3	12	4.05	15.36	7-12
MW-7	4/6/2015	57	54	20	15.0	24.05	10-20

TOC-Top of Casing
bgs - below ground surface

Table 2
Ground Water Sampling and Stabilization Parameters
NONCD0000653
Edgecombe County Landfill

Well ID	Depth to Water (ft bgs)	TOC Elevation (ft)	Ground Water Elevation (ft)	Date	pH	Temperature (°C)	Conductivity (uS/cm)	Turbidity (NTU)
MW-A1	8.95	48.8	39.85	4/8/2015	Test 1 5.52 Mid 5.47 Final 5.46	Test 1 13.6 Mid 13.4 Final 12.5	Test1 519.2 Mid 474.6 Final 478.3	Test 1 47.0 Mid 25.2 Final 19.1
MW-A2	14.43	59.0	44.57	4/8/2015	Test 1 5.93 Mid 6.16 Final 6.16	Test 1 15.2 Mid 15.0 Final 14.9	Test1 4,657 Mid 4,603 Final 4,605	Test 1 42.0 Mid 7.65 Final 6.63
MW-4	16.79	77.0	60.21	4/8/2015	Test 1 5.89 Mid 5.72 Final 5.73	Test 1 17.0 Mid 16.5 Final 16.7	Test1 579.8 Mid 569.5 Final 577.6	Test 1 37.5 Mid 26.6 Final 10.46
MW-6	4.86	53.3	48.44	4/8/2015	Test 1 6.40 Mid 6.06 Final 6.08	Test 1 13.8 Mid 13.8 Final 13.3	Test1 984 Mid 1,086 Final 1,075	Test 1 318.0 Mid 122.0 Final 101.1
MW-7	15.00	57.0	42.00	4/8/2015	Test 1 6.58 Mid 6.67 Final 6.67	Test 1 16.2 Mid 15.9 Final 16.1	Test1 6,214 Mid 6,438 Final 6,395	Test 1 349 Mid 22.8 Final 10.23

TOC - Top of casing
NTU - Nephelometric Turbidity Unit

Table 3
Groundwater Analytical Results
NONCD0000653
Edgecombe County Landfill

Sample ID:	NC 2L / IMAC	EPA MCL	MW-A1	MW-A2	MW-4	MW-6	MW-7	Duplicate-1 (Duplicate of MW-7)
Matrix:			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sampled Date:			4/8/2015	4/8/2015	4/8/2015	4/8/2015	4/8/2015	4/8/2015
Volatile Organic Compounds 8260B								
Acetone	6,000	NA	ND	ND	ND	ND	16	20
Benzene	1.0	5.0	ND	**4.7**	**29**	ND	**7.3**	**8.8**
Chlorobenzene	50	100	ND	13	1.1	2.8	8.4	9.8
Chloroethane	3,000	NA	ND	ND	4.6	ND	ND	ND
Chloroform	70	NA	ND	ND	0.52 J	ND	ND	ND
cis-1,2-Dichloroethene	70	70	ND	ND	1.2	0.80 J	ND	ND
Cyclohexane	NA	NA	ND	ND	0.93 J	ND	ND	ND
1,1-Dichloroethane	6.0	7.0	ND	ND	0.90 J	ND	ND	ND
1,2-Dichlorobenzene	20	600	ND	1.9	1.4	ND	0.48 J	0.51 J
1,3-Dichlorobenzene	200	NA	ND	2.4	ND	ND	ND	0.48 J
1,4-Dichlorobenzene	6.0	75	ND	**17**	**39**	1.2	**9.4**	**11**
1,4-Dioxane	3.0	NA	ND	**260**	ND	ND	**400**	**540**
Isopropylbenzene	70	NA	ND	0.85 J	2.3	ND	1.0	1.2
m,p-Xylenes	500	10,000	ND	0.49 J	33	0.98 J	4.2	5.2
Methyl-tert-Butyl Ether (MTBE)	20	NA	0.91 J	0.86 J	0.56 J	ND	ND	ND
o-Xylene	500	10,000	ND	ND	ND	0.43 J	0.47 J	0.63 J
1,2,4-Trichlorobenzene	70	70	ND	1.6	0.66 J	ND	0.51 J	0.64 J
Vinyl chloride	0.03	2.0	ND	ND	**0.59 J**	ND	ND	ND
VOCs 8260C SIM								
1,4-Dioxane	3.0	NA	**4.74**	**344 D**	**3.41**	**9.21**	**379 D**	**368 D**
Semi-volatile Organic Compounds 8270D								
Bis(2-ethylhexyl)phthalate	3.0	NA	ND	ND	ND	ND	ND	2.3 J
Diethylphthalate	6,000	NA	ND	ND	4.3 J	ND	ND	ND
Naphthalene	6.0	NA	ND	ND	2.6 J	ND	ND	ND
Metals 7470A								
Mercury	1.0	2.0	ND	ND	ND	ND	ND	ND
Metals 6020A								
Antimony	1.0	6.0	0.269 J	0.653 J	0.233 J	ND	**2.11**	**1.78 J**
Arsenic	10	10	0.835 J	**325**	4.37	**27.7**	**125**	**114**
Beryllium	4.0	4.0	0.176 J	ND	ND	0.213 J	ND	ND
Cadmium	2.0	5.0	0.125 J	ND	ND	0.122 J	0.128 J	0.151 J
Chromium	10	100	1.40	1.52	0.927 J	2.81	3.02	3.22
Copper	1,000	NA	0.323 J	ND	ND	0.363 J	ND	ND
Iron	300	NA	**1,830 D**	**102,000 D**	**27,000 D**	**44,000 D**	**37,400 D**	**33,200 D**
Lead	15	15	0.350 J	ND	0.647 J	2.20	ND	0.182 J
Manganese	50	NA	**378**	**1,180 D**	**230**	**3,690 D**	**2,100 D**	**1,910 D**
Nickel	100	NA	3.79	**148**	8.23	14.3	**112**	**104**
Silver	20	NA	ND	0.387 J	0.392 J	0.104 J	ND	ND
Selenium	20	50	ND	ND	ND	ND	1.11 J	ND
Thallium	0.2	2.0	ND	ND	ND	ND	**0.262 J**	**0.236 J**
Zinc	1,000	NA	4.25 J	9.13	24.4	9.58	7.24	8.30
EPA 350.1								
Ammonia	1,500	NA	76 J	**62,000 D**	**27,000 D**	**1,900**	**290,000 D**	**280,000 D**
EPA 353.2								
Nitrate as N	10,000	10,000	ND	230	270	210	120	130
EPA 300.0								
Sulfate	250,000	NA	65,000	17,000	21,000	25,000	11,000	12,000

Notes:
Units in µg/L
D: The sample was analyzed at dilution.
J: The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content.
NA: Not Available, ND: Not Detected
Title 15A NCAC Subchapter 2L Groundwater Quality Standards, Amended April 1, 2013.
NC 2L Interim Maximum Allowable Concentrations (IMAC) Amended as of April 1, 2013.
Environmental Protection Agency (EPA) National Primary Drinking Water Regulations Maximum Contaminant Levels (MCL), May 2009.
Bold Font: Sample concentration greater than the limit

Table 4
Soil Gas Screening
NONCD0000653
Edgecombe County Landfill

GAS PROBE SCREENING							
Gas Probe ID	**Date Collected**	**Oxygen O_2 (%)**	**Carbon Dioxide CO_2** (% by Volume)	**Methane CH_4** (% by Volume)	**Methane CH_4 (% LEL)**	**Hydrogen Sulfide H_2S** (% by Volume)	**VOCs (ppm)**
GP-A1	4/9/2015	16.7	2.5	2.1	38.0	1.0	0.0
GP-A2	4/9/2015	2.6	28.8	59.9	> 100	25.0	0.0
GP-A3	4/9/2015	19.3	2.5	10.4	> 100	0.0	0.0
GP-1	6/12/2013	0.3	40.9	58.6	> 100	6.0	0.0
	4/9/2015	0.5	32.0	67.3	> 100	0.0	0.0
GP-3	4/9/2015	0.0	40.9	58.9	> 100	0.0	0.0
GP-4	6/12/2013	0.3	41.3	58.7	> 100	0.6	0.0
	4/9/2015	0.0	63.4	63.5	> 100	3.0	0.0
GP-9	6/12/2013	0.2	42.9	57.1	> 100	12.0	0.0
	4/9/2015	0.0	38.0	61.9	> 100	8.0	0.0
GP-11	6/12/2013	0.2	43.4	56.2	> 100	5.0	3.2
	4/9/2015	0.0	43.0	56.9	> 100	1.0	3.3

Gas Probes with 2% Change in Reading (for 4/09/15 event)

Gas Probe ID	**Time Collected**	**Oxygen (O_2)**	**Carbon Dioxide CO_2** (% by Volume)	**Methane CH_4** (% by Volume)	**Methane CH_4 (% LEL)**	**Hydrogen Sulfide H_2S** (% by Volume)	**VOCs (ppm)**
GP-A1	10:47	13.9	4.1	3.3	67.0	1.0	2.3
GP-A2	10:37	1.2	30.9	64.8	> 100	23.0	4.3
GP-A3	10:23	16.7	8.0	13.6	> 100	0.0	1.2
GP-1	10:11	1.8	29.3	57.0	> 100	0.0	0.0
GP-3	10:17	0.0	41.2	59.1	> 100	0.0	0.0
GP-4	10:05	0.0	36.2	63.5	> 100	3.0	1.9
GP-9	10:30	0.1	38.8	60.9	> 100	16.0	0.0
GP-11	10:00	0.0	43.2	56.7	> 100	1.0	7.3
Background 1	9:45	20.8	0.0	0.0	0.0	0.0	0.0
Background 2	10:50	20.6	0.0	0.0	0.0	0.0	0.0

Notes:
Methane, carbon dioxide, oxygen, and barometric pressure measured with a Landtec Gem 2000+
VOC: Total Volatile Organic Compounds measured with a Mini RAE 2000
LEL: Lower Explosive Limit
PPM: Parts Per Million

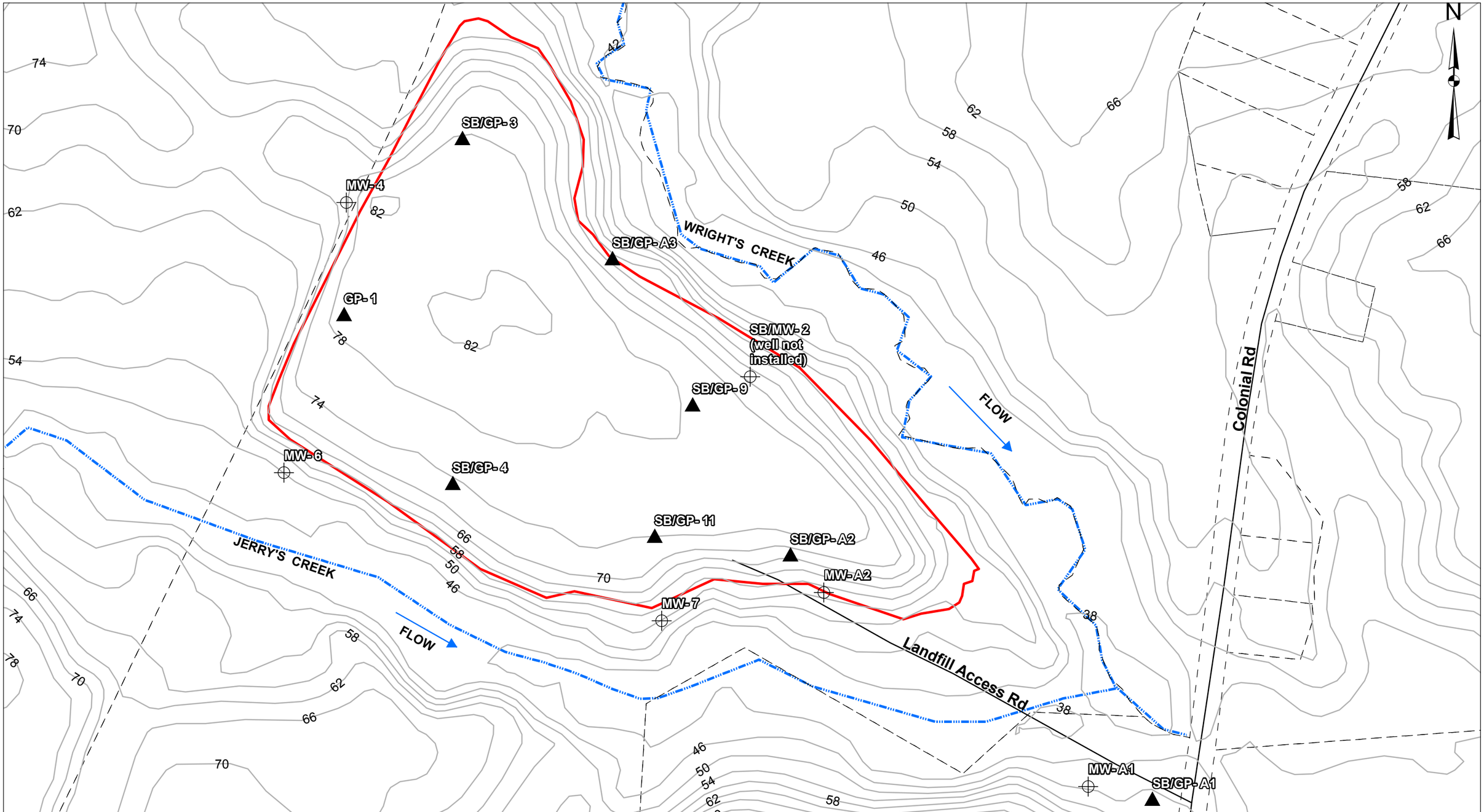
Table 5
Soil Analytical Results
NONCD0000653
Edgecombe County Landfill

Sample ID:	PSRG Residential Limit	PSRG Groundwater Limit	SB-A1 (0-2.5 ft)	SB-A1 (2.5-5.0 ft)	SB-A1 (5.0-7.5 ft)	Duplicate-4 (Duplicate of SB-A1 (5.0-7.5 ft)	SB-A2 (0-2.5 ft)	SB-A2 (2.5-5.0 ft)	SB-A2 (5.0-7.5 ft)	SB-A2 (7.5-10.0 ft)	Duplicate-3 (Duplicate of SB-A2 (7.5-10.0 ft)	SB-A3 (0-2.5 ft)	SB-A3 (2.5-5.0 ft)
Matrix:			**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**
Sampled Date:			**4/8/2015**	**4/8/2015**	**4/8/2015**	**4/8/2015**	**4/7/2015**	**4/7/2015**	**4/7/2015**	**4/7/2015**	**4/7/2015**	**4/8/2015**	**4/8/2015**
Volatile Organic Compounds 8260B													
Acetone	12,000	24	0.17	0.38	0.10	0.053	0.25	0.086	0.64	0.23	0.21	0.033	0.24
Benzene	1.2	0.0073	ND	ND	ND	ND	ND	ND	ND	ND	0.0007 J	ND	ND
2-Butanone (MEK)	5,400	16	ND	0.0077	0.018	0.0065	0.0038 J	0.0044 J	0.045	0.011	0.031	ND	0.025
Carbon disulfide	150	3.8	ND	0.0049	ND	0.0006 J	ND	ND	0.020	0.0026 J	0.022	ND	0.0005 J
Chlorobenzene	56	0.43	ND	ND	ND	ND	ND	ND	0.0054	0.0019	0.0074	ND	ND
1,3-Dichlorobenzene	NA	2.4	ND	ND	ND	ND	ND	ND	0.0014 J	ND	0.0006 J	ND	ND
1,4-Dichlorobenzene	2.6	0.07	ND	ND	ND	ND	ND	ND	0.0049	ND	0.0022	ND	ND
Dichlorodifluoromethane	850	29	ND	ND	ND	ND	ND	ND	ND	0.0067	0.0016	ND	ND
1,1-Dichloroethane	3.6	0.03	ND	ND	ND	ND	ND	ND	0.0017 J	ND	ND	ND	ND
1,2-Dichloropropane	1.0	0.0032	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	32	0.36	ND	ND	ND	ND	ND	ND	ND	0.0087	ND	ND	ND
Ethylbenzene	5.8	8.1	ND	ND	ND	ND	ND	ND	0.0097	0.0035	0.018	ND	0.019
Isopropylbenzene (Cumene)	270	1.3	ND	ND	ND	ND	ND	ND	0.0050	0.0029	0.0050	ND	ND
Methyl acetate	16,000	NA	0.0083	ND	0.033	ND	ND	0.031	0.23	0.040	ND	ND	ND
4-Methyl-2-pentanone	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	820	5.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	12	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	150	24	ND	ND	ND	ND	ND	ND	0.039	0.20	0.028	ND	ND
Vinyl chloride	0.059	0.00019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes	390	NA	ND	ND	ND	ND	ND	0.0032	0.013	0.0081	0.020	ND	0.0079
o-Xylene	130	NA	ND	ND	ND	ND	ND	ND	0.0073	0.0036	0.0096	ND	0.0028
Semi-volatile Organic Compounds 8270D													
4-Chloroaniline	2.7	NA	ND	ND	ND	ND	0.78	ND	ND	ND	ND	ND	ND
Acetophenone	1,600	3.5	ND	ND	ND	ND	0.19 J	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	1.5	5.9	ND	ND	ND	ND	0.10 J	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	38	7.2	ND	ND	ND	ND	0.40 J	1.1	**89 D**	0.045 J	0.16 J	0.042 J	0.26 J
Butylbenzylphthalate	280	150	ND	ND	ND	ND	0.093 J	ND	2.4 JD	ND	ND	ND	ND
4-Chloro-3-methylphenol (m-cresol)	620	4.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.066 J
Di-n-butylphthalate	NA	NA	ND	ND	ND	ND	0.11 J	ND	ND	ND	ND	ND	ND
3 & 4-Methylphenol (Cresol)	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	3.8	0.21	ND	ND	ND	ND	ND	ND	**1.2 JD**	ND	ND	ND	ND
Phenol	3,600	0.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.088 J	ND
Metals 7471B													
Mercury	1.9	1.0	0.0491	0.0344	0.0282	0.0217 J	0.532	**1.13**	0.0894	0.0134 J	0.0164 J	0.0256	0.0176 J
EPA 350.1													
Ammonia	NA	NA	1.1 J	35 D	45 D	30 D	ND	3.4	320 D	120 D	190 D	24 D	360 D
EPA 9056A													
Nitrate as N	26,000	NA	ND	ND	ND	ND	4.8 J	ND	ND	ND	ND	5.2 J	ND
Sulfate	NA	NA	34 J	ND	ND	ND	ND	ND	120 J	ND	ND	38 J	ND
VOCs 8260C SIM													
1,4-Dioxane	5.3	0.012	ND	ND	ND	ND	ND	0.00964	0.00964	**0.0138**	**0.0141**	ND	0.00477 J
Metals 6020A													
Antimony	6.2	0.9	ND	ND	ND	ND	**16.3 D**	ND	ND	ND	ND	ND	ND
Arsenic	0.67	5.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**58.2 D**
Beryllium	32	63	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	14	3.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	24,000	360,000	7.35 JD	ND	8.41 JD	8.50 JD	45.4 JD	8.79 JD	12.5 JD	4.23 JD	4.33 JD	8.24 JD	ND
Copper	620	700	ND	ND	3.44 JD	ND	64.6 D	49.3 D	4.41 JD	ND	ND	3.88 JD	21.0 JD
Iron	11,000	150	**6,050 D**	**12,000 D**	**8,770 D**	**4,510 D**	**4,730 D**	**5,620 D**	**7,350 D**	**3,360 D**	**3,870 D**	**4,020 D**	**16,400 D**
Lead	400	270	5.36 JD	9.51 JD	15.5 JD	7.43 JD	28.3 JD	10.1 JD	20.2 JD	3.34 JD	4.77 JD	31.3 D	23.5 JD
Manganese	360	65	8.74 JD	15.0 JD	28.6 D	13.4 D	35.0 D	5.49 JD	16.4 D	16.7 D	6.66 D	20.8 D	**90.1 D**
Nickel	300	130	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.5 JD
Selenium	78	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	78	3.4	ND	ND	ND	ND	**6.33 D**	ND	ND	ND	ND	ND	ND
Thallium	0.16	0.28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	4,600	1,200	ND	ND	32.1 JD	ND	83.7 D	94.4 D	83.5 D	ND	ND	16.9 JD	96.4 JD

Notes:
Units in mg/Kg Dry
D: The sample was analyzed at dilution.
J: The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
NA: Not Available, ND: Not Detected
Preliminary Soil Remediation Goals (PSRGs), March 2015
Bold Font: Sample concentration greater than the limit

Sample ID:	PSRG Residential Limit	PSRG Groundwater Limit	SB-A3 (5.0-7.5 ft)	SB-A3 (7.5-10.0 ft)	SB-A3 (10.0-12.0 ft)
Matrix:			Soil	Soil	Soil
Sampled Date:			4/8/2015	4/8/2015	4/8/2015
Volatile Organic Compounds 8260B					
Acetone	12,000	24	0.18	0.053	0.057
Benzene	1.2	0.0073	0.0005 J	0.0013	0.0010
2-Butanone (MEK)	5,400	16	0.033	0.0034 J	0.022
Carbon disulfide	150	3.8	0.0010 J	ND	0.0008 J
Chlorobenzene	56	0.43	ND	ND	ND
1,3-Dichlorobenzene	NA	2.4	ND	ND	ND
1,4-Dichlorobenzene	2.6	0.07	ND	ND	0.0006 J
Dichlorodifluoromethane	850	29	ND	ND	ND
1,1-Dichloroethane	3.6	0.03	ND	ND	0.0004 J
1,2-Dichloropropane	1.0	0.0032	ND	ND	0.0004 J
cis-1,2-Dichloroethene	32	0.36	0.0092	0.0029	0.0017
Ethylbenzene	5.8	8.1	0.017	0.0069	0.0070
Isopropylbenzene (Cumene)	270	1.3	0.0019	ND	ND
Methyl acetate	16,000	NA	ND	ND	ND
4-Methyl-2-pentanone	NA	NA	ND	0.0054	0.0025 J
Toluene	820	5.5	0.0017	0.0009	ND
1,2,4-Trichlorobenzene	12	2.2	ND	ND	0.0004 J
Trichlorofluoromethane	150	24	ND	ND	ND
Vinyl chloride	0.059	0.00019	0.0005 J	ND	ND
m,p-Xylenes	390	NA	0.0062	0.0068	0.0063
o-Xylene	130	NA	0.0032	0.0026	0.0026
Semi-volatile Organic Compounds 8270D					
4-Chloroaniline	2.7	NA	ND	ND	ND
Acetophenone	1,600	3.5	ND	ND	ND
Benzo(k)fluoranthene	1.5	5.9	ND	ND	ND
Bis(2-ethylhexyl)phthalate	38	7.2	0.29 J	ND	ND
Butylbenzylphthalate	280	150	ND	ND	ND
4-Chloro-3-methylphenol (m-cresol)	620	4.0	ND	ND	ND
Di-n-butylphthalate	NA	NA	ND	ND	ND
3 & 4-Methylphenol (Cresol)	NA	NA	0.99	ND	0.040 J
Naphthalene	3.8	0.21	ND	ND	ND
Phenol	3,600	0.23	0.055 J	ND	ND
Metals 7471B					
Mercury	1.9	1.0	0.0232	0.0133 J	0.00744 J
EPA 350.1					
Ammonia	NA	NA	72 D	47 D	5.1
EPA 9056A					
Nitrate as N	26,000	NA	ND	ND	ND
Sulfate	NA	NA	ND	ND	ND
VOCs 8260C SIM					
1,4-Dioxane	5.3	0.012	**0.0132**	**0.0142**	**0.0304**
Metals 6020A					
Antimony	6.2	0.9	ND	ND	ND
Arsenic	0.67	5.8	**4.14 JD**	ND	ND
Beryllium	32	63	ND	ND	ND
Cadmium	14	3.0	ND	ND	ND
Chromium	24,000	360,000	4.80 JD	ND	ND
Copper	620	700	1.85 JD	ND	ND
Iron	11,000	150	**3,790 D**	**5,170 D**	**2,250 D**
Lead	400	270	7.94 JD	4.86 JD	6,49 JD
Manganese	360	65	31.1 D	11.0 JD	2.57 JD
Nickel	300	130	ND	ND	ND
Selenium	78	2.1	ND	ND	ND
Silver	78	3.4	ND	ND	ND
Thallium	0.16	0.28	ND	ND	ND
Zinc	4,600	1,200	ND	ND	ND

Notes:
Units in mg/Kg Dry
D: The sample was analyzed at dilution.
J: The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
NA: Not Available, ND: Not Detected
Preliminary Soil Remediation Goals (PSRGs), March 2015
Bold Font: Sample concentration greater than the limit



Source for Base Map: NC GEODETIC SURVEY September 2006
Source for Topographic Contours: NCDOT GIS LIDAR March 2007

Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet

210 105 0 210 Feet

Scale: 1:2,500

Estimate Waste Disposal Area Perimeter - April 2015

4-Foot Contours

Groundwater Wells

Parcels

Gas Probes

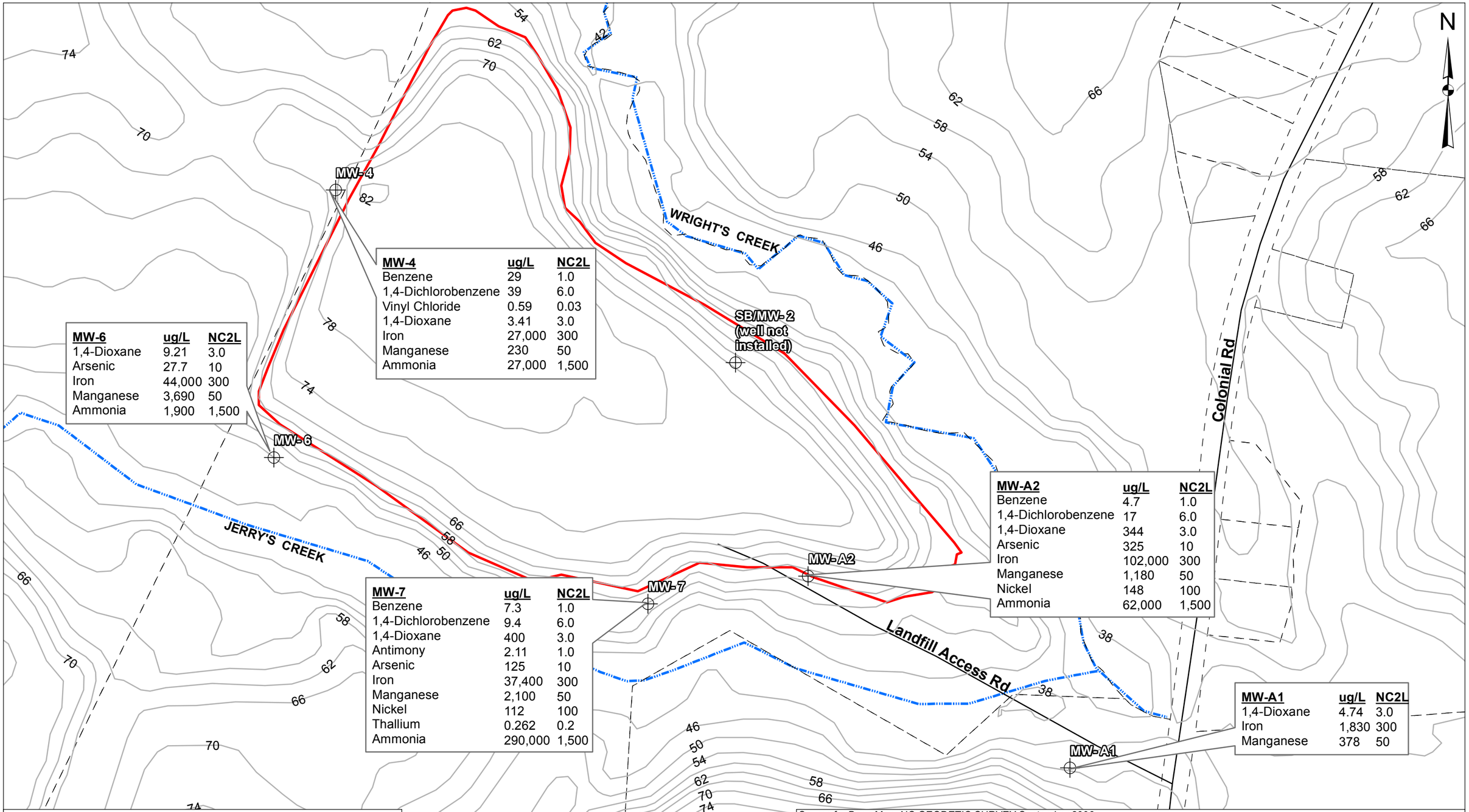
Streams

Schnabel ENGINEERING

EDGECOMBE COUNTY LANDFILL
NONCD0000653
TARBORO, NORTH CAROLINA
PROJECT NO. 653DP-10

SITE MAP

FIGURE 1



MW-4	ug/L	NC2L
Benzene	29	1.0
1,4-Dichlorobenzene	39	6.0
Vinyl Chloride	0.59	0.03
1,4-Dioxane	3.41	3.0
Iron	27,000	300
Manganese	230	50
Ammonia	27,000	1,500

MW-6	ug/L	NC2L
1,4-Dioxane	9.21	3.0
Arsenic	27.7	10
Iron	44,000	300
Manganese	3,690	50
Ammonia	1,900	1,500

MW-A2	ug/L	NC2L
Benzene	4.7	1.0
1,4-Dichlorobenzene	17	6.0
1,4-Dioxane	344	3.0
Arsenic	325	10
Iron	102,000	300
Manganese	1,180	50
Nickel	148	100
Ammonia	62,000	1,500

MW-7	ug/L	NC2L
Benzene	7.3	1.0
1,4-Dichlorobenzene	9.4	6.0
1,4-Dioxane	400	3.0
Antimony	2.11	1.0
Arsenic	125	10
Iron	37,400	300
Manganese	2,100	50
Nickel	112	100
Thallium	0.262	0.2
Ammonia	290,000	1,500

MW-A1	ug/L	NC2L
1,4-Dioxane	4.74	3.0
Iron	1,830	300
Manganese	378	50

Estimate Waste Disposal Area Perimeter - April 2015

Parcels

Groundwater Wells

Streams

4-Foot Contours

Source for Base Map: NC GEODETIC SURVEY September 2006
Source for Topographic Contours: NCDOT GIS LIDAR March 2007

Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet

210 105 0 210 Feet

Scale: 1:2,500

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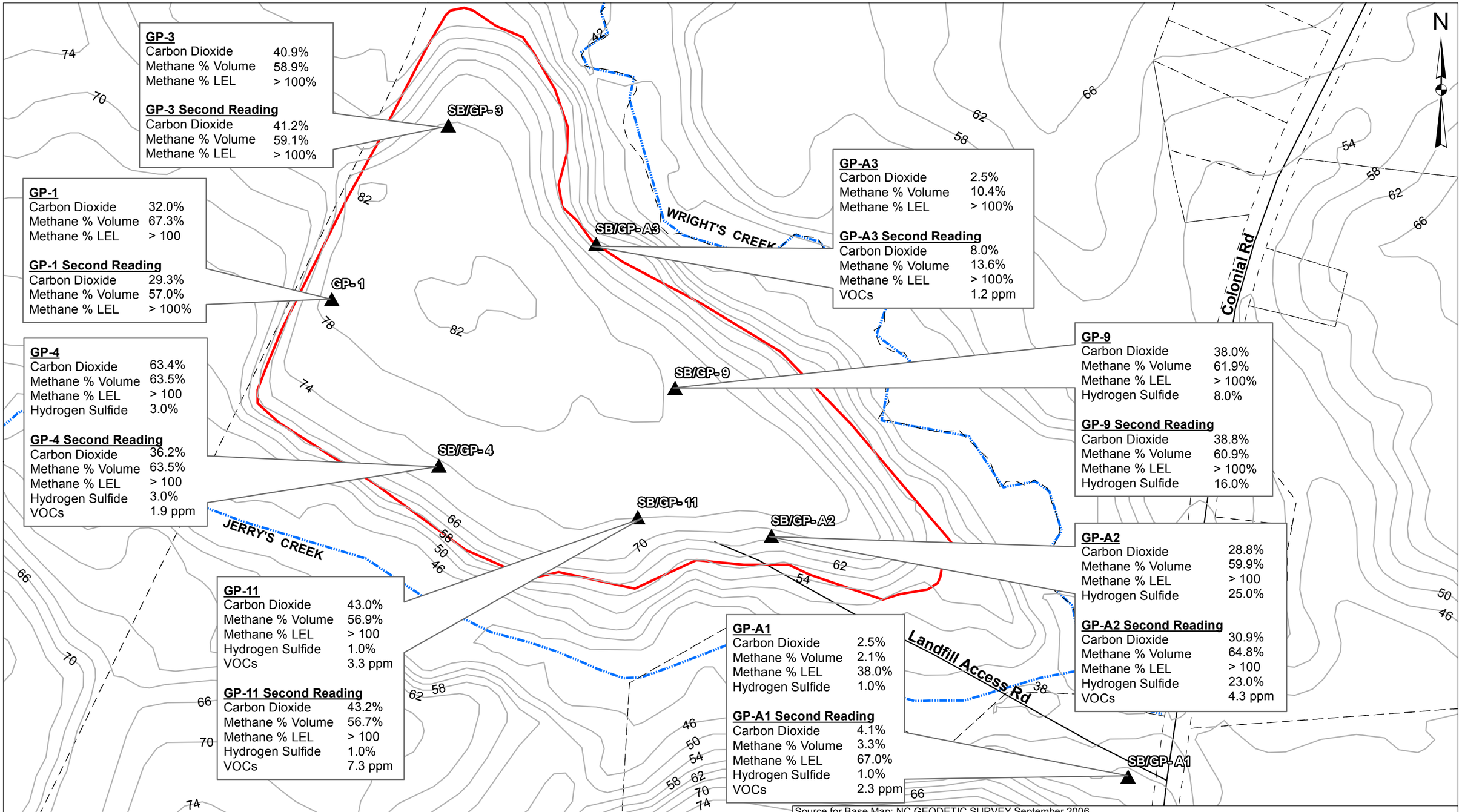
EDGECOMBE COUNTY LANDFILL
NONCD0000653
TARBORO, NORTH CAROLINA
PROJECT NO. 653DP-10

GROUNDWATER CONCENTRATION MAP

FIGURE 2



Source for Base Map: NC GEODETIC SURVEY September 2006
Source for Topographic Contours: NCDOT GIS LIDAR March 2007

Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet

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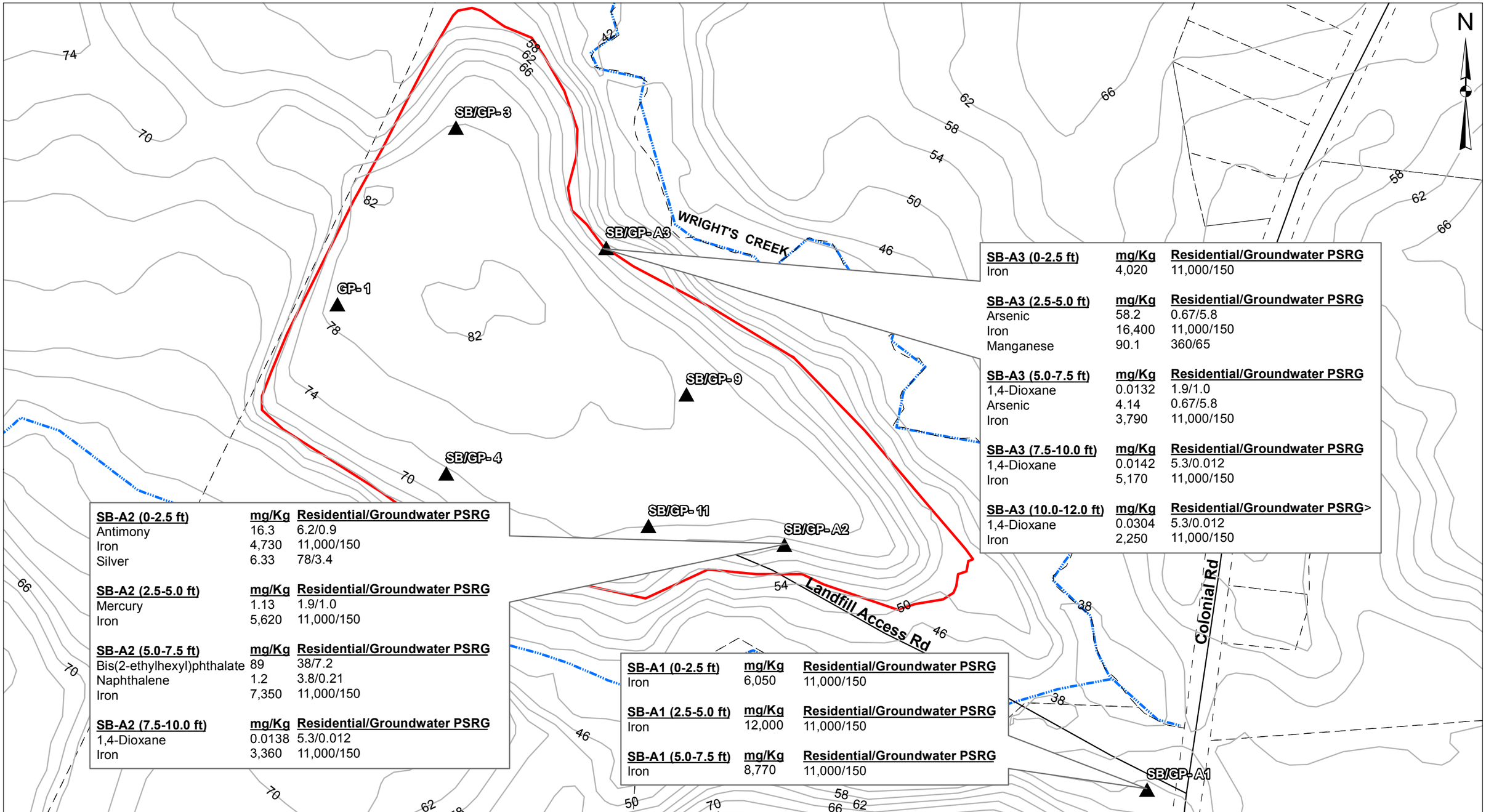
EDGECOMBE COUNTY LANDFILL
NONCD0000653
TARBORO, NORTH CAROLINA
PROJECT NO. 653DP-10

GAS PROBE SCREENING CONCENTRATION MAP

FIGURE 3



SB-A3 (0-2.5 ft)	mg/Kg	Residential/Groundwater PSRG
Iron	4,020	11,000/150

SB-A3 (2.5-5.0 ft)	mg/Kg	Residential/Groundwater PSRG
Arsenic	58.2	0.67/5.8
Iron	16,400	11,000/150
Manganese	90.1	360/65

SB-A3 (5.0-7.5 ft)	mg/Kg	Residential/Groundwater PSRG
1,4-Dioxane	0.0132	1.9/1.0
Arsenic	4.14	0.67/5.8
Iron	3,790	11,000/150

SB-A3 (7.5-10.0 ft)	mg/Kg	Residential/Groundwater PSRG
1,4-Dioxane	0.0142	5.3/0.012
Iron	5,170	11,000/150

SB-A3 (10.0-12.0 ft)	mg/Kg	Residential/Groundwater PSRG>
1,4-Dioxane	0.0304	5.3/0.012
Iron	2,250	11,000/150

SB-A2 (0-2.5 ft)	mg/Kg	Residential/Groundwater PSRG
Antimony	16.3	6.2/0.9
Iron	4,730	11,000/150
Silver	6.33	78/3.4

SB-A2 (2.5-5.0 ft)	mg/Kg	Residential/Groundwater PSRG
Mercury	1.13	1.9/1.0
Iron	5,620	11,000/150

SB-A2 (5.0-7.5 ft)	mg/Kg	Residential/Groundwater PSRG
Bis(2-ethylhexyl)phthalate	89	38/7.2
Naphthalene	1.2	3.8/0.21
Iron	7,350	11,000/150

SB-A2 (7.5-10.0 ft)	mg/Kg	Residential/Groundwater PSRG
1,4-Dioxane	0.0138	5.3/0.012
Iron	3,360	11,000/150

SB-A1 (0-2.5 ft)	mg/Kg	Residential/Groundwater PSRG
Iron	6,050	11,000/150

SB-A1 (2.5-5.0 ft)	mg/Kg	Residential/Groundwater PSRG
Iron	12,000	11,000/150

SB-A1 (5.0-7.5 ft)	mg/Kg	Residential/Groundwater PSRG
Iron	8,770	11,000/150

Source for Base Map: NC GEODETIC SURVEY September 2006
Source for Topographic Contours: NCDOT GIS LIDAR March 2007

Projection: NAD 1983 StatePlane North Carolina FIPS 3200 Feet

210 105 0 210 Feet

Scale: 1:2,500

Estimate Waste Disposal Area Perimeter - April 2015

Parcels

Streams

Gas Probes

4-Foot Contours

Schnabel ENGINEERING

EDGECOMBE COUNTY LANDFILL
NONCD0000653
TARBORO, NORTH CAROLINA
PROJECT NO. 653DP-10

SOIL/WASTE CONCENTRATION MAP

FIGURE 4

Schnabel ENGINEERING

DAILY FIELD REPORT FIELD FORM

Project:	Edgecombe County Landfill	Date:	4-6-15
Location:	Edgecombe County	Crew or Work Area:	BLB + DR
~~Schnabel~~ Project No.:	65300-9	By: BLB	Date: 4-6-15
Client Name:	NCDENR	Checked: BLB	Date: 4-13-15
Attachments:			

4:30 / 6:30 - Ben & Danny depart
9:30 - Ben arrives at site
10:00 - Danny arrives at site
11:00 - Mark boring locations and calibrate instrument.
12:00 - Lunch
1:00 - Drillers arrive
1:15 - 6:15 - Drill holes A1, A2, 7, & 6 (MW's) + Decon between holes.
6:30 - Depart site (Ben, Danny & Drillers)
7:00 - Arrive at hotel
* Boreholes filled out with chips

Ben Blair

Schnabel ENGINEERING

DAILY FIELD REPORT FIELD FORM

Project:	Edgecombe County landfill	**Date:**	4-7-15
Location:	Edgecombe County	**Crew or Work Area:**	BLB, DR, Drillers
~~Schnabel~~ **Project No.:**	65300-9	**By:** BLB	**Date:** 4-7-15
Client Name:	NCDENR	**Checked:** BLB	**Date:** 4-13-15
Attachments:	—		

7:00 : Ben & Danny depart hotel
7:30 : Arrive at site w/ driller
8:00 - Calibrate instruments
8:00 - 12:00 - Install MW-4, GP-1, GP-3, GP-4, GP-9, GP-11
12:00-1:00 - lunch
1:00 - 3:00 - Install & sample GP-A2, Danny develops wells,
3-4 - Pack samples & fill out COC.
4:15 - Ben departs to Fed-Ex & Drillers front wells
5:00 - Ben arrives at hotel.
* Boreloges filled out with plug

Brian & Danny

Schnabel ENGINEERING

DAILY FIELD REPORT FIELD FORM

Project:	Edgecombe County Landfill	**Date:**	4-8-15
Location:	Edgecombe County	**Crew or Work Area:**	BLB, DR & Drillers
~~Schnabel~~ Project No.:	653DP-9	**By:**	BLB — **Date:** 4-8-15
Client Name:	NCDENR	**Checked:**	BLB — **Date:** 4-13-15
Attachments:			

7:00 - Ben & Danny depart hotel
7:30 - Arrive at Site & calibrate instrument
7:45-11:45 - Danny Develops wells & Samples & Ben observes installation of GP-A1 and GP-A3 & collects samples.
11:45-12:15 - lunch
12:15 - Ben continues to sample & Danny continues to develop & sample.
3:00 - Pack samples & fill out COCs.
4:15 - Ben & Danny depart Site & travel to Fed Ex
5:00 - Arrive at hotel

* Borelogs filled out with plog

BLB
D.
Ben

Schnabel ENGINEERING

DAILY FIELD REPORT FIELD FORM

Project:	Edgecombe County landfill	**Date:**	4-9-15
Location:	Edgecombe County	**Crew or Work Area:**	BLB & DR + Drillers
~~Schnabel~~ Project No.:	653DP-9	**By:**	BLB **Date:** 4-9-15
Client Name:	NCDENR	**Checked:**	BLB **Date:** 4-13-15
Attachments:	—		

7:00 - Ben & Danny depart hotel.
7:30 - Arrive at site
8:00 - Calibrate instruments
8:30-9:45 - Collect readings from Gas Probes, driller places 2x2 platforms.
10:00-10:50 - Collect 2nd readings from gas probes & collect coordinates.
11:00-12:30 - Demobilization activities.
12:50 - Ben, Danny, and driller depart site.
3:00 - Ben arrives in Greensboro
5:00 - Danny arrives Columbia.

Ben
Danny

Schnabel ENGINEERING

EQUIPMENT CALIBRATION LOG FIELD FORM

Project: Edgecombe County Landfill
Location: Edgecombe County
~~Schnabel~~ Project No.: 653DP-9
Client Name: NCDENR
Attachments: ——

Date: 4/7 - 4/8, 2015
Recorded By: Danny Rawl / Ben Brantley
Checked by: BLB 4-16-15
Page 1 **of** 1

Date	Time	Instrument	Serial Number	Cal Gas Used	Cal Gas Expiration Date	Cal Standard	Barometric Pressure ( )	Temperature ( )	Humidity (%)	Calibrated (Y/N)	Bump Test	Initials
4-7-15	12:05	YSI	14F100351	pH	4.00	6/27/15	—	—	—	Y 4.01	X	DKR
	12:11	"	"	pH	7.00	2/13/17	—	—	—	Y 6.98		
	12:14	"	"	Cond.	1413 us/cm	2/23/16	—	—	—	Y 1418 us/cm		
	12:30	LaMotte 2020E	ME-13162	Turbidity	0/10	5/15	—	—	—	Y 9.98		
4-8-15	7:30	"	"	"	"	"	—	—	—	Y 4.06		DKR
	7:40	"	"	"	"	"	—	—	—	Y 7.03		
	7:55	"	"	"	"	"	—	—	—	Y 1410		
	8:20	"	"	"	"	"	—	—	—	Y 9.99		

Comments: Calibrate all instruments according to manufacturers specifications.
Enter units within parentheses as appropriate in data column title

Schnabel ENGINEERING

MONITORING WELL DEVELOPMENT FIELD FORM

Project:	Edgecombe County Landfill	**Well ID:**	MW-A1
Location:	Edgecombe County	**Date:**	4-7-15
Schnabel Project No.:	653DP-9	**Time Started:** 1240	**Time Ended:** ~~1425~~ OR 1325
Client Name:	NCDENR	**Weather Conditions:**	Cloudy 77
Field Personnel:	Denny ~~Rhew~~ / Ben Bradley	**Checked By:** BLB	**Date:** 4-16-15

Water Level measured from TOC (d_{swl}, feet):	9.00	Riser Pipe Diameter (r_c, inches)	2"
Well Depth measured from TOC (d_w, feet):	23.23	Well Volume (gal) $V=0.041\ (r_c)^2\ (d_w-d_{swl})$:	2.23
Screened Interval from TOC (feet):	—	Note: TOC = Top of Open Riser Pipe	—

Comments on Well Condition (riser pipe type, outer casing, lock, etc):

Purge Information

Purging Method:	___Stainless Steel Bailer	___ Peristaltic Pump	___ Grundfos Pump	___ Teflon Bailer
(put an **X** by one)	___Polyethylene Bailer	___ Bladder Pump	___ DC Pump	X Other:
Purge Equipment/Serial No:	N/A	Monitoring Instrument/Serial No:	14F100351	
Purge Flow Rate (gpm):	1.0 gpm	Well Purged Dry (circle one):	Yes or (No)	

Test Information	Initial	Test 1	Test 2	Test 3	Test 4	Test 5
Time (hr:min)		1301	13.06	1312	1319	
Cumulative Volume Purged (gal)		20.0	25.0	30.0	35.0	
Water Level (ft from TOC) After Purging		—	—	—	—	
Temperature (°C)		14.9	14.0	12.9	14.0	
pH (s.u.)		6.26	6.10	5.58	5.66	
Sheen/Color		none/cloudy	none/cloudy	none/cloudy	none/cloudy	
Odor		None	None	None	None	
Conductivity (µS/cm)		532.2	520.5	467.3	535.6	
Dissolved Oxygen (mg/L)		4.71	5.50	4.60	4.52	
Redox (ORP)		46.1	42.8	73.2	62.1	
Turbidity (NTU)		460.0	321.1	7000	7000	

Note: Fill in columns as appropriate based on project requirements. NR = Not Recorded; NA = Not Applicable.

Comments:

Schnabel ENGINEERING

MONITORING WELL DEVELOPMENT FIELD FORM

Project:	Edgecombe County Landfill	**Well ID:**	MW-A2
Location:	Edgecombe County	**Date:**	4-7-15
~~Schnabel~~ Project No.:	653DP-9	**Time Started:** 1330	**Time Ended:** 1400
Client Name:	NCDENR	**Weather Conditions:**	Cloudy 77
Field Personnel:	Ben Bradley/Danny Rawl	**Checked By:** BLB	**Date:** 4-16-15

Water Level measured from TOC (d_{swl}, feet): 14.36	Riser Pipe Diameter (r_c, inches): ~~1.45~~ 2"
Well Depth measured from TOC (d_w, feet): 23.27	Well Volume (gal) $V=0.041\ (r_c)^2\ (d_w-d_{swl})$: 1.45
Screened Interval from TOC (feet): —	Note: TOC = Top of Open Riser Pipe —

Comments on Well Condition (riser pipe type, outer casing, lock, etc):

Purge Information

Purging Method: (put an **X** by one)	___ Stainless Steel Bailer ___ Peristalic Pump ___ Grundfos Pump ___ Teflon Bailer ___ Polyethylene Bailer ___ Bladder Pump X DC Pump ___ Other:
Purge Equipment/Serial No: —	Monitoring Instrument/Serial No: 14F100351
Purge Flow Rate (gpm): 3/4 Gpm	Well Purged Dry (circle one): (Yes) or No

Test Information	Initial	Test 1	Test 2	Test 3	Test 4	Test 5
Time (hr:min)		1340	1351	1356		
Cumulative Volume Purged (gal)		12.0	17.0	20.0		
Water Level (ft from TOC) After Purging		—	—	—		
Temperature (°C)		15.9	15.8	15.8		
pH (s.u.)		5.96	6.14	6.14		
Sheen/Color		none/cloudy	none/cloudy	none/clear		
Odor		None	None	slight		
Conductivity (µS/cm)		4490	3686	3717		
Dissolved Oxygen (mg/L)		1.56	0.57	0.47		
Redox (ORP)		-47.0	-63.5	-63.4		
Turbidity (NTU)		200	144	34.2		

Note: Fill in columns as appropriate based on project requirements. NR = Not Recorded; NA = Not Applicable.

Comments:

Schnabel ENGINEERING

MONITORING WELL DEVELOPMENT FIELD FORM

Project:	Edgecombe County Landfill	Well ID:	MW-4
Location:	Edgecombe County	Date:	4-8-15
Schnabel Project No.:	653DP-9	Time Started: 11:15	Time Ended: 11:30
Client Name:	NCDENR	Weather Conditions:	P. Cloudy 78
Field Personnel:	Ben Bradley / Danny Rawl	Checked By: BLB	Date: 4-16-15

Water Level measured from TOC (d_{swl}, feet): 16.80	Riser Pipe Diameter (r_c, inches): 2"
Well Depth measured from TOC (d_w, feet): 22.23	Well Volume (gal) $V=0.041\ (r_c)^2\ (d_w-d_{swl})$: 0.89
Screened Interval from TOC (feet):	Note: TOC = Top of Open Riser Pipe

Comments on Well Condition (riser pipe type, outer casing, lock, etc):

Purge Information

Purging Method: (put an X by one)	___ Stainless Steel Bailer ___ Peristalic Pump ___ Grundfos Pump X Teflon Bailer ___ Polyethylene Bailer ___ Bladder Pump ___ DC Pump ___ Other:
Purge Equipment/Serial No: Bailer	Monitoring Instrument/Serial No:
Purge Flow Rate (gpm): —	Well Purged Dry (circle one): (Yes) or No

Test Information	Initial	Test 1	Test 2	Test 3	Test 4	Test 5
Time (hr:min)		1115	1120	1125		
Cumulative Volume Purged (gal)		1.0	2.0	3.0		
Water Level (ft from TOC) After Purging		—	—	—		
Temperature (°C)		16.8	16.5	16.8		
pH (s.u.)		5.96	5.69	5.59		
Sheen/Color		none/cloudy	Same	Same		
Odor		None	Same	Same		
Conductivity (µS/cm)		499.1	427.4	426		
Dissolved Oxygen (mg/L)		3.48	3.10	2.84		
Redox (ORP)		28.2	38.6	42.0		
Turbidity (NTU)		344.0	7000	7000		

Note: Fill in columns as appropriate based on project requirements. NR = Not Recorded; NA = Not Applicable.

Comments: Well Purge dry Moderate Recharge

Development

Schnabel ENGINEERING

MONITORING WELL DEVELOPMENT FIELD FORM

Project:	Edgecombe County Landfill	**Well ID:**	MW-6
Location:	Edgecombe County	**Date:**	4-7-15
Schnabel Project No.:	6530P-9	**Time Started:** 1510	**Time Ended:** 1548
Client Name:	NCDENR	**Weather Conditions:** Cloudy 77	
Field Personnel:	Danny Rawl/Danny Rawl	**Checked By:** BLB	**Date:** 4.16.15

Water Level measured from TOC (d_{swl}, feet):	4.05	Riser Pipe Diameter (r_c, inches):	2"
Well Depth measured from TOC (d_w, feet):	15.36	Well Volume (gal) $V=0.041\ (r_c)^2\ (d_w-d_{swl})$:	1.84
Screened Interval from TOC (feet):	—	Note: TOC = Top of Open Riser Pipe	—

Comments on Well Condition (riser pipe type, outer casing, lock, etc):

Purge Information

Purging Method:	___ Stainless Steel Bailer ___ Peristalic Pump ___ Grundfos Pump ___ Teflon Bailer		
(put an **X** by one)	___ Polyethylene Bailer ___ Bladder Pump X DC Pump ___ Other:		
Purge Equipment/Serial No:	N/A	Monitoring Instrument/Serial No:	
Purge Flow Rate (gpm):	1.0 gpm	Well Purged Dry (circle one):	(Yes) or No

Test Information	Initial	Test 1	Test 2	Test 3	Test 4	Test 5
Time (hr:min)	0[illegible]	~~1310~~ 1316	1530	1536	1545	
Cumulative Volume Purged (gal)		5.0	15.0	20.0	25	
Water Level (ft from TOC) After Purging		—	—	—	—	
Temperature (°C)		13.9	13.6	13.9	14.0	
pH (s.u.)		7.13	6.45	6.27	6.13	
Sheen/Color		none/cloudy	none/cloudy	none/cloudy	none/cloudy	
Odor		None	None	None	None	
Conductivity (µS/cm)		716	891	1024	1099	
Dissolved Oxygen (mg/L)		2.33	3.72	3.45	2.31	
Redox (ORP)		-56.5	-47.8	-41.8	-40.1	
Turbidity (NTU)		>1000	>1000	>1000	149.0	

Note: Fill in columns as appropriate based on project requirements. NR = Not Recorded; NA = Not Applicable.

Comments: Pumped well dry, would let recharge & pump again.

Schnabel ENGINEERING

MONITORING WELL DEVELOPMENT FIELD FORM

Project:	Edgecombe County Landfill	**Well ID:**	MW-7
Location:	Edgecombe County	**Date:**	4-7-15
~~Schnabel~~ Project No.:	653DP-9	**Time Started:** 1412	**Time Ended:** 1435
Client Name:	NCDENR	**Weather Conditions:**	Cloudy 76
Field Personnel:	Ben Bradley / Danny Rawl	**Checked By:** BLB	**Date:** 4-16-15

Water Level measured from TOC (d_{swl}, feet): 14.96	Riser Pipe Diameter (r_c, inches): 2"
Well Depth measured from TOC (d_w, feet): 24.05	Well Volume (gal) $V=0.041\ (r_c)^2\ (d_w-d_{swl})$: 1.48
Screened Interval from TOC (feet):	Note: TOC = Top of Open Riser Pipe

Comments on Well Condition (riser pipe type, outer casing, lock, etc):

Purge Information

Purging Method:	___ Stainless Steel Bailer	___ Peristalic Pump	___ Grundfos Pump	___ Teflon Bailer	
(put an **X** by one)	___ Polyethylene Bailer	___ Bladder Pump	X DC Pump	___ Other:	
Purge Equipment/Serial No:			Monitoring Instrument/Serial No:		
Purge Flow Rate (gpm):			Well Purged Dry (circle one):	(Yes) or No	

Test Information	Initial	Test 1	Test 2	Test 3	Test 4	Test 5
Time (hr:min)		1421	1425	1429		
Cumulative Volume Purged (gal)		15.00	17.0	19.0		
Water Level (ft from TOC) After Purging		—	—	—		
Temperature (°C)		16.9	16.7	16.7		
pH (s.u.)		6.55	6.64	6.		
Sheen/Color		none/Cloudy	none/Cloudy	none/Milky		
Odor		None	None	None		
Conductivity (µS/cm)		5502	5509	5560		
Dissolved Oxygen (mg/L)		3.10	3.91	4.09		
Redox (ORP)		-95.2	-84.8	-81.1		
Turbidity (NTU)		71000	71000	91.6		

Note: Fill in columns as appropriate based on project requirements. NR = Not Recorded; NA = Not Applicable.

Comments:

Schnabel ENGINEERING

MONITORING WELL SAMPLING FIELD FORM

Project:	Edgecombe County Landfill	**Well ID:**	MW-A1
Location:	Edgecombe County	**Date:**	4-8-15
Schnabel Project No.:	653DP-9	**Time Started:** 0845	**Time Ended:** 0955
Client Name:	NCDENR	**Weather Conditions:**	P. Cloudy 70
Field Personnel:	Danny Rawl/Ben Bradley	**Checked By:** BLB	**Date:** 4.16.17

Water Level measured from TOC (d_{swl}, feet): 8.95	Riser Pipe Diameter (r_c, inches): 2"
Well Depth measured from TOC (d_w, feet): 23.23	Well Volume (gal) $V=0.041\ (r_c)^2\ (d_w-d_{swl})$: 2.33
Screened Interval from TOC (feet): —	Note: TOC = Top of Open Riser Pipe —

Comments on Well Condition (riser pipe type, outer casing, lock, etc):

Purge Information

Purging Method: (put an **X** by one)	___ Stainless Steel Bailer X Peristalic Pump ___ Grundfos Pump ___ Teflon Bailer ___ Polyethylene Bailer ___ Bladder Pump ___ DC Pump ___ Other:
Purge Equipment/Serial No: Pump #2	Monitoring Instrument/Serial No: 14F 100351
Purge Flow Rate (gpm): 860 mL/m = 0.23	Well Purged Dry (circle one): Yes or (No)

Test Information	Initial	Test 1	Test 2	Test 3	Test 4	Test 5
Time (hr:min)		0904	0915	0926	0937	0948
Cumulative Volume Purged (gal)		2.50	5.0	7.50	10.0	12.50
Water Level (ft from TOC) After Purging		—	—	—	—	—
Temperature (°C)		13.6	13.4	13.4	13.1	12.5
pH (s.u.)		5.52	5.48	5.47	5.46	5.46
Sheen/Color		none/cloudy	none/cloudy	none/clear	none/clear	none/clear
Odor		none	none	none	none	none
Conductivity (µS/cm)		519.2	490.6	474.6	474.9	478.3
Dissolved Oxygen (mg/L)		—	—	—	—	—
Redox (ORP)		—	—	—	—	—
Turbidity (NTU)		47.0	30.5	25.2	27.8	19.1

Note: Fill in columns as appropriate based on project requirements. NR = Not Recorded; NA = Not Applicable.

Comments:

Sampling Information

Date: 4/8/15	Time Sampled: 0950	Field Personnel: Danny Rawl
Sampling Method: (put an **X** by one)	___ Stainless Steel Bailer X Peristalic Pump ___ Grundfos Pump ___ Teflon Bailer ___ Polyethylene Bailer ___ Bladder Pump ___ DC Pump ___ Other:	
QA/QC Samples Taken: NO		Sampling Flow Rate (gpm): 0.23
Turbidity Reduction Procedure (list type or none): none		Field Filter Size: N/A
Purge and Wait Time (hr:min): N/A	Inorganic Decant Time (hr:min): N/A	

Comments:

Schnabel ENGINEERING

MONITORING WELL SAMPLING FIELD FORM

Project:	Edgecombe County Landfill	**Well ID:**	MW-A2
Location:	Edgecombe County	**Date:**	4-8-15
~~Schnabel~~ Project No.:	653DP-9	**Time Started:** 1000	**Time Ended:** 1043
Client Name:	NCDENR	**Weather Conditions:**	Cloudy 78
Field Personnel:	Ben Bradley / Danny Rawl	**Checked By:** BLB	**Date:** 4-16-15

Water Level measured from TOC (d_{swl}, feet): 14.43	Riser Pipe Diameter (r_c, inches): 2
Well Depth measured from TOC (d_w, feet): 23.27	Well Volume (gal) $V=0.041\ (r_c)^2\ (d_w-d_{swl})$: 1.44
Screened Interval from TOC (feet): —	Note: TOC = Top of Open Riser Pipe —

Comments on Well Condition (riser pipe type, outer casing, lock, etc):

Purge Information

Purging Method: (put an **X** by one)	___ Stainless Steel Bailer X Peristalic Pump ___ Grundfos Pump ___ Teflon Bailer ___ Polyethylene Bailer ___ Bladder Pump ___ DC Pump ___ Other:
Purge Equipment/Serial No: Pump #2	Monitoring Instrument/Serial No: 14F100351
Purge Flow Rate (gpm): 860 ml/m = 0.23	Well Purged Dry (circle one): Yes or (No)

Test Information	Initial	Test 1	Test 2	Test 3	Test 4	Test 5
Time (hr:min)		1015	1022	1029	1036	
Cumulative Volume Purged (gal)		1.50	3.0	4.50	6.0	
Water Level (ft from TOC) After Purging		—	—	—	—	
Temperature (°C)		15.2	15.2	15.0	14.9	
pH (s.u.)		5.93	6.16	6.16	6.16	
Sheen/Color		none/Cloudy	none/Clear	none/Clear	none/Clear	
Odor		Slight	Slight	Slight	Slight	
Conductivity (µS/cm)		4657.0	4628.0	4603.0	4605.0	
Dissolved Oxygen (mg/L)		—	—	—	—	
Redox (ORP)		—	—	—	—	
Turbidity (NTU)		42.0	15.5	7.65	6.63	

Note: Fill in columns as appropriate based on project requirements. NR = Not Recorded; NA = Not Applicable.

Comments: Vapor fumes from well. (Methane)
Very High Cond. Odor = Landfill trash

Sampling Information

Date: 4/8/15	Time Sampled: 1040	Field Personnel: Danny Rawl
Sampling Method: (put an **X** by one)	___ Stainless Steel Bailer X Peristalic Pump ___ Grundfos Pump ___ Teflon Bailer ___ Polyethylene Bailer ___ Bladder Pump ___ DC Pump ___ Other:	
QA/QC Samples Taken:	no	Sampling Flow Rate (gpm): 0.23
Turbidity Reduction Procedure (list type or none):	none	Field Filter Size: N/A
Purge and Wait Time (hr:min):	N/A	Inorganic Decant Time (hr:min): N/A

Comments:

Schnabel ENGINEERING

MONITORING WELL SAMPLING FIELD FORM

Project:	EdgeCombe County Landfill	**Well ID:**	MW-4
Location:	Edgecombe County	**Date:**	4-8-15
Schnabel Project No.:	653DP-9	**Time Started:** 1442	**Time Ended:** 1525
Client Name:	NCDENR	**Weather Conditions:**	Clear 82
Field Personnel:	Ben Bradley / Danny Rawl	**Checked By:** RLB	**Date:** 4-16-15

Water Level measured from TOC (d_{swl}, feet): 16.79	Riser Pipe Diameter (r_c, inches): 2"
Well Depth measured from TOC (d_w, feet): 22.23	Well Volume (gal) $V=0.041\ (r_c)^2\ (d_w-d_{swl})$: 0.89
Screened Interval from TOC (feet): —	Note: TOC = Top of Open Riser Pipe —

Comments on Well Condition (riser pipe type, outer casing, lock, etc):

Purge Information

Purging Method: (put an **X** by one)	___ Stainless Steel Bailer X Peristalic Pump ___ Grundfos Pump ___ Teflon Bailer ___ Polyethylene Bailer ___ Bladder Pump ___ DC Pump ___ Other:
Purge Equipment/Serial No: Pump #2	Monitoring Instrument/Serial No: 14F100351
Purge Flow Rate (gpm): 540 ML/m = 0.14	Well Purged Dry (circle one): Yes or ~~No~~ NR

Test Information	Initial	Test 1	Test 2	Test 3	Test 4	Test 5
Time (hr:min)		1449	1454	1503		
Cumulative Volume Purged (gal)		0.98	1.96	2.94		
Water Level (ft from TOC) After Purging		—	—	—		
Temperature (°C)		17.0	16.5	16.7		
pH (s.u.)		5.89	5.72	5.73		
Sheen/Color		none/clear	none/clear	none/clear		
Odor		Slight	Slight	Slight		
Conductivity (µS/cm)		579.8	569.5	577.6		
Dissolved Oxygen (mg/L)		—	—	—		
Redox (ORP)		—	—	—		
Turbidity (NTU)		37.5	26.6	10.46		

Note: Fill in columns as appropriate based on project requirements. NR = Not Recorded; NA = Not Applicable.

Comments: Odor = Landfill gas

Sampling Information

Date: 4/8/15	Time Sampled: 1520	Field Personnel: Danny Rawl
Sampling Method: (put an **X** by one)	___ Stainless Steel Bailer X Peristalic Pump ___ Grundfos Pump ___ Teflon Bailer ___ Polyethylene Bailer ___ Bladder Pump ___ DC Pump ___ Other:	
QA/QC Samples Taken: No		Sampling Flow Rate (gpm): 0.14
Turbidity Reduction Procedure (list type or none): N/A		Field Filter Size: N/A
Purge and Wait Time (hr:min): N/A		Inorganic Decant Time (hr:min): N/A

Comments:

Schnabel ENGINEERING

MONITORING WELL SAMPLING FIELD FORM

Project:	Edgecombe County Landfill	**Well ID:**	MW-6
Location:	Edgecombe County	**Date:**	4-8-15
Schnabel Project No.:	653DP-9	**Time Started:** 1344	**Time Ended:** 1429
Client Name:	NCDENR	**Weather Conditions:**	Clear 82
Field Personnel:	Ben Bradley / Danny Rawl	**Checked By:** BLB	**Date:** 4-16-15

Water Level measured from TOC (d_{swl}, feet): 4.86	Riser Pipe Diameter (r_c, inches): 2"
Well Depth measured from TOC (d_w, feet): 15.36	Well Volume (gal) $V=0.041\ (r_c)^2\ (d_w-d_{swl})$: 1.71
Screened Interval from TOC (feet): —	Note: TOC = Top of Open Riser Pipe —

Comments on Well Condition (riser pipe type, outer casing, lock, etc):

Purge Information

Purging Method: (put an **X** by one)	___ Stainless Steel Bailer X Peristalic Pump ___ Grundfos Pump ___ Teflon Bailer ___ Polyethylene Bailer ___ Bladder Pump ___ DC Pump ___ Other:
Purge Equipment/Serial No: Pump # 2	Monitoring Instrument/Serial No: 14F 10035
Purge Flow Rate (gpm): 460 ml/m = 0.22 Gpm	Well Purged Dry (circle one): Yes or (No)

Test Information	Initial	Test 1	Test 2	Test 3	Test 4	Test 5
Time (hr:min)		1352	1400	1408	1416	1424
Cumulative Volume Purged (gal)		1.75	3.50	5.25	7.0	8.75
Water Level (ft from TOC) After Purging		—	—	—	—	—
Temperature (°C)		13.8	13.5	13.8	13.4	13.3
pH (s.u.)		6.40	6.36	6.06	6.08	6.08
Sheen/Color		none/cloudy	none/cloudy	none/cloudy	none/cloudy	none/cloudy
Odor		none	none	none	none	none
Conductivity (µS/cm)		984.0	1108.0	1086.0	1083.0	1075.0
Dissolved Oxygen (mg/L)		—	—	—	—	—
Redox (ORP)		—	—	—	—	—
Turbidity (NTU)		318.0	240.0	122.0	120.0	101.1

Note: Fill in columns as appropriate based on project requirements. NR = Not Recorded; NA = Not Applicable.

Comments:

Sampling Information

Date: 4-8-15	Time Sampled: 1425	Field Personnel: D. Rawl / B. Bradley
Sampling Method: (put an **X** by one)	___ Stainless Steel Bailer X Peristalic Pump ___ Grundfos Pump ___ Teflon Bailer ___ Polyethylene Bailer ___ Bladder Pump ___ DC Pump ___ Other:	
QA/QC Samples Taken:		Sampling Flow Rate (gpm): 0.22
Turbidity Reduction Procedure (list type or none): None		Field Filter Size: N/A
Purge and Wait Time (hr:min): N/A	Inorganic Decant Time (hr:min): N/A	

Comments:

Schnabel ENGINEERING

MONITORING WELL SAMPLING FIELD FORM

Project:	Edgecombe County Landfill	**Well ID:**	MW-7
Location:	Edgecombe County	**Date:**	4-8-15
~~Schnabel~~ Project No.:	653DP-9	**Time Started:** 1219	**Time Ended:** 1303
Client Name:	NCDENR	**Weather Conditions:**	Sunny 80
Field Personnel:	Ben Bradley / Danny Rawl	**Checked By:** BLB	**Date:** 4-16-15

Water Level measured from TOC (d_{swl}, feet): 15.00	Riser Pipe Diameter (r_c, inches): 2"
Well Depth measured from TOC (d_w, feet): 24.04	Well Volume (gal) $V=0.041\ (r_c)^2\ (d_w-d_{swl})$: 1.47
Screened Interval from TOC (feet): —	Note: TOC = Top of Open Riser Pipe —

Comments on Well Condition (riser pipe type, outer casing, lock, etc):

Purge Information

Purging Method: (put an **X** by one)	___ Stainless Steel Bailer X Peristalic Pump ___ Grundfos Pump ___ Teflon Bailer ___ Polyethylene Bailer ___ Bladder Pump ___ DC Pump ___ Other:
Purge Equipment/Serial No: Pump #2	Monitoring Instrument/Serial No: 14F100351
Purge Flow Rate (gpm): 840 = 0.22 GPM	Well Purged Dry (circle one): Yes or (No)

Test Information	Initial	Test 1	Test 2	Test 3	Test 4	Test 5
Time (hr:min)		1224	1233	1240	1247	1254
Cumulative Volume Purged (gal)		1.54	3.08	4.62	6.16	7.70
Water Level (ft from TOC) After Purging		—	—	—	—	—
Temperature (°C)		16.2	15.8	15.9	16.0	16.1
pH (s.u.)		6.58	6.67	6.67	6.67	6.67
Sheen/Color		none/cloudy	none/clear	none/clear	none/clear	none/clear
Odor		none	none	none	none	none
Conductivity (µS/cm)		6214.0	6408.0	6438.0	6418.0	6395.0
Dissolved Oxygen (mg/L)		—	—	—	—	—
Redox (ORP)		—	—	—	—	—
Turbidity (NTU)		349.0	60.2	22.8	13.6	10.23

Note: Fill in columns as appropriate based on project requirements. NR = Not Recorded; NA = Not Applicable.

Comments: Very high Conductivity

Sampling Information

Date: 4-8-15	Time Sampled: 1300	Field Personnel: Danny Rawl
Sampling Method: (put an **X** by one)	___ Stainless Steel Bailer X Peristalic Pump ___ Grundfos Pump ___ Teflon Bailer ___ Polyethylene Bailer ___ Bladder Pump ___ DC Pump ___ Other:	
QA/QC Samples Taken: Yes Dup.-1		Sampling Flow Rate (gpm): 0.22
Turbidity Reduction Procedure (list type or none): N/A		Field Filter Size: N/A
Purge and Wait Time (hr:min): N/A		Inorganic Decant Time (hr:min): N/A

Comments:

Schnabel ENGINEERING

EQUIPMENT CALIBRATION LOG FIELD FORM

Project: Edgecombe County Landfill
Location: Edgecombe County
~~Schnabel~~ Project No.: 653DP-9
Client Name: NCDENR
Attachments: —

Date: 4/6 – 4/9, 2015
Recorded By: BLB
Checked by: BLB 4-13-15
Page 1 of 1

Date	Time	Instrument	Serial Number	Cal Gas Used	Cal Gas Expiration Date	Cal Standard	Barometric Pressure (Hg)	Temperature (F)	Humidity (%)	Calibrated (Y/N)	Bump Test	Initials
4/6/15	11:00	Mini Rae 2000	110-012069	Isobutylene	4/17	100 ppm	—	—	—	Y 100	—	DR
4/7/15	8:00	" "	" "	" "	" "	" "	—	—	—	Y 101	—	DR
	12:50										Y	DR
4/8/15	7:30	" "	" "	" "	" "	" "	—	—	—	Y 101	—	DR
	12:10										Y	DR
4/9/15	8:00	" "	" "	" "	" "	" "	—	—	—	Y 102	—	DR
	10:00										Y	DR
	8:00	Landtec Gem 2000+	gm08686/06	Methane	4/15	50%	30.07	54	87	Y 49	—	DR
				Carbon Dioxide	4/15	35%				Y 35	—	DR
				Hydrogen Sulfide	6/15	25ppm				Y 25	—	DR
	10:00	" "	" "	" "			30.07	68	77		Y	DR
				" "							Y	DR
				" "							Y	DR

Comments: Calibrate all instruments according to manufacturers specifications.
Enter units within parentheses as appropriate in data column title

Schnabel ENGINEERING

Project:	Edgecombe County Landfill	**Screening Date:**	4/9/15
Location:	Edgecombe County	**By:**	BLB + DR
~~**Schnabel**~~ **Project No.:**	6S3DP-9	**Checked:**	BLB 4-13-15

Instrument:	Landtec Gem 2000+	Serial No:	9m08686/06	Last Calibrated:	4/9/15
Instrument:	Mini Rae 2000	Serial No:	110-012069	Last Calibrated:	4/9/15
Instrument:	Questemp	Serial No:	TE6040137	Last Calibrated:	8/28/14
Instrument:		Serial No:		Last Calibrated:	

Hourly Barometric Pressure, Humidity and Temperature

Date	Time	Barometric Pressure (inches Hg)	Humidity (%)	Temperature (°F)
4/9/15	8:30	30.07	87%	54
" "	9:30	30.11	100%	55

Gas Probe Field Screening

Gas Probe No.	Time	Oxygen (O_2) in % Volume	Carbon Dioxide (CO_2) in % Volume	Methane (CH_4) in % Volume	Methane (CH_4) in % LEL	Hydrogen Sulfide (H_2S) in % Volume	Total VOCs (ppm)
GP-11	8:30	0%	43.0	56.9	>100	0001	3.3
GP-4	8:40	0%	63.4	63.5	>100	0003	0
GP-1	8:45	0.5	32.0	67.3	>100	0000	0
GP-3	8:50	0	40.9	58.9	>100	0000	0
GP-A3	8:55	19.3	2.5	10.4	>100	0000	0
GP-9	9:00	0.0	38.0	61.9	>100	0008	0
GP-A2	9:35	2.6	28.8	59.9	>100	0025	0
GP-A1	9:40	16.7	2.5	2.1	38	0001	0
Background	9:45	20.8	0.0	0.0	0.0	0000	0

Hg = Mercury; LEL = Lower Explosive Limit

Notes:

Schnabel ENGINEERING

Project: Edgecombe County Landfill		**Screening Date:**	4-9-15
Location: Edgecombe County		**By:**	BLB + DR
~~Schnabel~~ **Project No.:** 6530P-9		**Checked:**	BLB 4-13-15

Instrument:	Landtec Gem 2000+	Serial No:	9M08686/06	Last Calibrated:	4/9/15
Instrument:	Mini Rae 2000	Serial No:	110-012069	Last Calibrated:	4/9/15
Instrument:	Questemp	Serial No:	TEG040137	Last Calibrated:	8/28/14
Instrument:		Serial No:		Last Calibrated:	

Hourly Barometric Pressure, Humidity and Temperature

Date	Time	Barometric Pressure (inches Hg)	Humidity (%)	Temperature (°C)
~~10:00~~	10:00	30.07 BB		
4-9-15	10:30	30.07	77%	68°F

Gas Probe Field Screening 2% Readings

Gas Probe No.	Time	Oxygen (O_2) in % Volume	Carbon Dioxide (CO_2) in % Volume	Methane (CH_4) in % Volume	Methane (CH_4) in % LEL	Hydrogen Sulfide (H_2S) in % Volume	Total VOCs (ppm)
GP-11	10:00	0.0	43.2	56.7	>100	0001	7.3
GP-4	10:05	0.0	36.2	63.5	7100	0003	1.9
GP-1	10:11	1.8	29.3	57.0	7100	0000	0.0
GP-3	10:17	0.0	41.2	59.1	7100	0000	0.0
GP-A3	10:23	16.7	8.0	13.6	7100	0000	1.2
GP-9	10:30	0.1	38.8	60.9	7100	0016	0.0
GP-A2	10:37	1.2	30.9	64.8	7100	0023	4.3
GP-A1	10:47	13.9	4.1	3.3	67	0001	2.3
BACKGROUND	10:50	20.6	0.0	0.0	0.0	0000	0

Hg = Mercury; LEL = Lower Explosive Limit

Notes:

Appendix B
Tabulated GPS Coordinates

Point	State Plane Coordinates (meters)		Latitude	Longitude
	Northing	Easting	N	W
SB-A1/GP-A1	739413.156	231144.616	35.825188	-77.563266
SB-A2/GP-A2	739166.487	231311.203	35.826722	-77.565969
SB-A3/GP-A3	739045.176	231513.15	35.828557	-77.567279
GP-1	738862.337	231474.977	35.828237	-77.569309
SB-3/GP-3	738942.94	231595.086	35.829309	-77.568398
SB-4/GP-4	738936.393	231359.89	35.82719	-77.568508
SB-9/GP-9	739099.86	231413.513	35.827652	-77.56669
SB-11/GP-11	739073.952	231323.967	35.826849	-77.566991
MW-A1	739369.644	231152.907	35.825268	-77.563746
MW-A2	739189.324	231285.16	35.826484	-77.565721
SB/MW-2	739139.268	231432.246	35.827816	-77.566251
MW-4	738863.977	231551.039	35.828922	-77.569279
MW-6	738821.513	231366.829	35.827268	-77.569778
MW-7	739078.998	231266.009	35.826326	-77.566945

Notes:

1) Points obtained during site visit using a WAAS enabled Trimble Pro-XRT
2) Points in NAD83 datum.

Schnabel ENGINEERING	GEO PROBE LOG	**Project:** Edgecombe County Landfill Edgecombe County Tarboro, North Carolina	**Geo Probe Number:** SB-A1/GP-A1 **Contract Number:** 653DP-9 **Sheet:** 1 of 1

Contractor: Elite Techniques, Inc.
Camden, South Carolina

Contractor Foreman: D Rodgers

Schnabel Representative: B. Bradley

Equipment: Geoprobe 6620DT

Method: 3-1/4" Probe Rod,
Macrocore

Hammer Type:

Dates Started: 4/8/15 **Finished:** 4/8/15

X: 231144.616 m **Y:** 739413.156 m

Coordinate System: NC State Plane

Ground Surface Elevation: 47± (ft) **Total Depth:** 8.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Completion	4/8	8:40 AM	Dry	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	WELL
0.2	Topsoil		46.3					
	SILTY SAND; moist, light orangish gray, no odor, Waste not observed in boring.	SM				SB-A1 (0-2.5 ft)	PID = 0 ppm	Bentonite grout
						SB-A1 (2.5-5.0 ft)	PID = 0 ppm	Hydrated bentonite
					5	SB-A1 (5.0-7.5 ft)	PID = 0 ppm	Filter sand 0.01-inch slotted screen
8.0			38.5					

Bottom of Geo Probe at 8.0 ft.
Gas probe installed upon completion

Schnabel ENGINEERING — **GEO PROBE LOG**

Project: Edgecombe County Landfill
Edgecombe County
Tarboro, North Carolina

Geo Probe Number: SB-A2/GP-A2
Contract Number: 653DP-9
Sheet: 1 of 1

Contractor: Elite Techniques, Inc.
Camden, South Carolina

Contractor Foreman: D Rodgers

Schnabel Representative: B. Bradley

Equipment: Geoprobe 6620DT

Method: 3-1/4" Probe Rod,
Macrocore

Hammer Type:

Dates Started: 4/7/15 **Finished:** 4/7/15

X: 231311.203 m **Y:** 739166.487 m

Coordinate System: NC State Plane

Ground Surface Elevation: 67± (ft) **Total Depth:** 10.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Completion	4/7	2:01 PM	Dry	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	WELL
0.2	Topsoil		66.8					
	SILTY SAND; moist, light gray, organic odor, Waste begins at 3.5 feet.	SM				SB-A2 (0-2.5 ft)	PID = 0 ppm	Bentonite grout
						SB-A2 (2.5-5.0 ft)	PID = 0 ppm	Hydrated bentonite
					5	SB-A2 (5.0-7.5 ft)	PID = 0 ppm	Filter sand
						SB-A2 (7.5-10.0 ft)	PID = 0 ppm	0.01-inch slotted screen
10.0			57.0		10			

Bottom of Geo Probe at 10.0 ft.
Gas probe installed upon completion

Schnabel ENGINEERING — **GEO PROBE LOG**

Project: Edgecombe County Landfill
Edgecombe County
Tarboro, North Carolina

Geo Probe Number: SB-A3/GP-A3
Contract Number: 653DP-9
Sheet: 1 of 1

Contractor: Elite Techniques, Inc.
Camden, South Carolina

Contractor Foreman: D Rodgers

Schnabel Representative: B. Bradley

Equipment: Geoprobe 6620DT

Method: 3-1/4" Probe Rod,
Macrocore

Hammer Type:

Dates Started: 4/8/15 **Finished:** 4/8/15

X: 231513.15 m **Y:** 739045.176 m

Coordinate System: NC State Plane

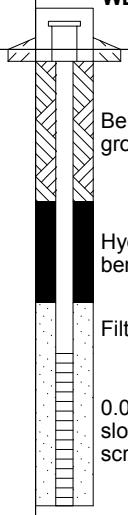
Ground Surface Elevation: 64± (ft) **Total Depth:** 15.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Completion	4/8	9:40 AM	Dry	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS
0.2	Topsoil		63.8			SB-A3 (0-2.5 ft)	PID = 0 ppm
	SILTY SAND; moist, light orangish gray, organic odor, Waste begins at 5 feet.	SM				SB-A3 (2.5-5.0 ft)	PID = 0 ppm
					5	SB-A3 (5.0-7.5 ft)	PID = 0 ppm
						SB-A3 (7.5-10 ft)	PID = 0 ppm
					10	SB-A3 (10-12 ft)	PID = 0 ppm
15.0			49.0		15		

WELL



Bottom of Geo Probe at 15.0 ft.
Gas probe installed upon completion

Schnabel ENGINEERING — **GEO PROBE LOG**

Project: Edgecombe County Landfill
Edgecombe County
Tarboro, North Carolina

Geo Probe Number: **GP-1**
Contract Number: 653DP-9
Sheet: 1 of 1

Contractor: Elite Techniques, Inc.
Camden, South Carolina

Contractor Foreman: D Rodgers

Schnabel Representative: B. Bradley

Equipment: Geoprobe 6620DT

Method: 3-1/4" Probe Rod

Hammer Type:

Dates Started: 4/7/15 **Finished:** 4/7/15

X: 231474.977 m **Y:** 738862.337 m

Coordinate System: NC State Plane

Ground Surface Elevation: 79± (ft) **Total Depth:** 12.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Completion	4/7	12:38 PM	Dry	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	WELL
0.2	Topsoil		78.3					
	SILTY SAND; moist, light grayish orange, organic odor, Waste begins at 2.5 feet.	SM					PID = 0 ppm	Bentonite grout
							PID = 0 ppm	
							PID = 0 ppm	Hydrated bentonite
					5		PID = 0 ppm	
							PID = 0 ppm	Filter sand
							PID = 0 ppm	
							PID = 0 ppm	
							PID = 0 ppm	
							PID = 0 ppm	0.01-inch slotted screen
					10		PID = 0 ppm	
							PID = 0 ppm	
							PID = 0 ppm	
12.0			66.5					

Bottom of Geo Probe at 12.0 ft.
Gas probe installed upon completion

Schnabel ENGINEERING	GEO PROBE LOG	**Project:** Edgecombe County Landfill Edgecombe County Tarboro, North Carolina	**Geo Probe Number:** **SB-3/GP-3** **Contract Number:** 653DP-9 **Sheet:** 1 of 1

Contractor: Elite Techniques, Inc.
Camden, South Carolina

Contractor Foreman: D Rodgers

Schnabel Representative: B. Bradley

Equipment: Geoprobe 6620DT

Method: 3-1/4" Probe Rod,
Macrocore

Hammer Type:

Dates Started: 4/7/15 **Finished:** 4/7/15

X: 231595.086 m **Y:** 738942.94 m

Coordinate System: NC State Plane

Ground Surface Elevation: 78± (ft) **Total Depth:** 12.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Completion	4/7	12:56 PM	Dry	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	WELL
0.2	Topsoil		77.8					
	SILTY SAND; moist, light gray, organic odor, Waste begins at 2.5 feet. Building material, wood, plastic, fabric	SM			5		PID = 0 ppm PID = 0 ppm PID = 0 ppm PID = 0 ppm PID = 0 ppm PID = 0 ppm PID = 0 ppm PID = 0 ppm PID = 0 ppm PID = 0 ppm PID = 0 ppm	Bentonite grout Hydrated bentonite Filter sand 0.01-inch slotted screen
					10			
12.0			66.0					

Bottom of Geo Probe at 12.0 ft.
Gas probe installed upon completion

Schnabel ENGINEERING	GEO PROBE LOG	**Project:** Edgecombe County Landfill Edgecombe County Tarboro, North Carolina	**Geo Probe Number:** **SB-4/GP-4** **Contract Number:** 653DP-9 **Sheet:** 1 of 1

Contractor: Elite Techniques, Inc.
Camden, South Carolina

Contractor Foreman: D Rodgers

Schnabel Representative: B. Bradley

Equipment: Geoprobe 6620DT

Method: 3-1/4" Probe Rod,
Macrocore

Hammer Type:

Dates Started: 4/7/15 **Finished:** 4/7/15

X: 231359.89 m **Y:** 738936.393 m

Coordinate System: NC State Plane

Ground Surface Elevation: 73± (ft) **Total Depth:** 11.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Completion	4/7	12:21 PM	Dry	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	WELL
0.2	Topsoil		72.8					Bentonite grout
	SILTY SAND; moist, light orangish gray, organic odor, Waste begins at 3 feet. Wood, metal, plastic	SM					PID = 0 ppm	
							PID = 0 ppm	Hydrated bentonite
							PID = 0 ppm	
					5		PID = 0 ppm	Filter sand
							PID = 0 ppm	
							PID = 0 ppm	
							PID = 0 ppm	0.01-inch slotted screen
							PID = 0 ppm	
					10		PID = 0 ppm	
11.0			62.0				PID = 0 ppm	

Bottom of Geo Probe at 11.0 ft.
Gas probe installed upon completion

Schnabel ENGINEERING — **GEO PROBE LOG**

Project: Edgecombe County Landfill
Edgecombe County
Tarboro, North Carolina

Geo Probe Number: **SB-9/GP-9**
Contract Number: 653DP-9
Sheet: 1 of 1

Contractor: Elite Techniques, Inc.
Camden, South Carolina

Contractor Foreman: D Rodgers

Schnabel Representative: B. Bradley

Equipment: Geoprobe 6620DT

Method: 3-1/4" Probe Rod,
Macrocore

Hammer Type:

Dates Started: 4/7/15 **Finished:** 4/7/15

X: 231413.513 m **Y:** 739099.86 m

Coordinate System: NC State Plane

Ground Surface Elevation: 78± (ft) **Total Depth:** 11.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Completion	4/7	1:21 PM	Dry	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	WELL
0.2	Topsoil		77.6					Bentonite grout
	SILTY SAND; moist, light orangish gray, organic odor, Waste begins at 3 ft.	SM					PID = 0 ppm	
							PID = 0 ppm	Hydrated bentonite
							PID = 0 ppm	
					5		PID = 0 ppm	Filter sand
							PID = 0 ppm	
							PID = 0 ppm	
							PID = 0 ppm	0.01-inch slotted screen
							PID = 0 ppm	
					10		PID = 0 ppm	
11.0			66.8				PID = 0 ppm	

Bottom of Geo Probe at 11.0 ft.
Gas probe installed upon completion

Schnabel ENGINEERING — **GEO PROBE LOG**

Project: Edgecombe County Landfill
Edgecombe County
Tarboro, North Carolina

Geo Probe Number: **SB-11/GP-11**
Contract Number: 653DP-9
Sheet: 1 of 1

Contractor: Elite Techniques, Inc.
Camden, South Carolina

Contractor Foreman: D Rodgers

Schnabel Representative: B. Bradley

Equipment: Geoprobe 6620DT

Method: 3-1/4" Probe Rod,
Macrocore

Hammer Type:

Dates Started: 4/7/15 **Finished:** 4/7/15

X: 231323.967 m **Y:** 739073.952 m

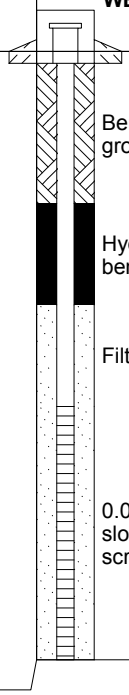
Coordinate System: NC State Plane

Ground Surface Elevation: 74± (ft) **Total Depth:** 12.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Completion	4/7	11:39 AM	Dry	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	WELL
0.2	Topsoil		73.8					
	SILTY SAND; moist, light orangish brown, boulders, organic odor, Waste not observed in boring.	SM			5		PID = 0 ppm	Bentonite grout
							PID = 0 ppm	
							PID = 0 ppm	Hydrated bentonite
							PID = 0 ppm	
							PID = 0 ppm	Filter sand
							PID = 0 ppm	
							PID = 0 ppm	
							PID = 0 ppm	0.01-inch slotted screen
					10		PID = 0 ppm	
							PID = 0 ppm	
							PID = 0 ppm	
12.0			62.0					



Bottom of Geo Probe at 12.0 ft.
Gas probe installed upon completion

Schnabel ENGINEERING **AUGER PROBE LOG**

Project: Edgecombe County Landfill
Edgecombe County
Tarboro, North Carolina

Boring Number: **MW-A1**
Contract Number: 653DP-9
Sheet: 1 of 1

Contractor: Elite Techniques, Inc.
Camden, South Carolina
Contractor Foreman: D Rodgers
Schnabel Representative: B. Bradley
Equipment: Geoprobe 6620DT
Method: 4-1/4" I.D. Hollow Stem Auger

Hammer Type:
Dates Started: 4/6/15 **Finished:** 4/6/15
X: 231152.907 m **Y:** 739369.644 m
Coordinate System: NC State Plane
Ground Surface Elevation: 46± (ft) **Total Depth:** 20.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Encountered ▽	4/6	2:28 PM	7.6'	20.0'	---
Observation Well ▼	4/8	8:45 AM	9.0'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	WELL
0.2	Topsoil		45.6					
	SANDY SILT WITH CLAY; moist, light grayish brown	ML						Grout seal
5.0	FAT CLAY WITH SAND; moist to wet, light gray, high plasticity	CH	40.8		5			Bentonite seal
					10			
12.0	SAND WITH CLAY; wet, light brown	SW	33.8					Filter sand and 0.01-inch slotted screen
					15			
20.0			25.8		20			

Bottom of Boring at 20.0 ft.
Observation well installed upon completion.

Schnabel ENGINEERING **AUGER PROBE LOG**

Project: Edgecombe County Landfill
Edgecombe County
Tarboro, North Carolina

Boring Number: **MW-A2**
Contract Number: 653DP-9
Sheet: 1 of 1

Contractor: Elite Techniques, Inc.
Camden, South Carolina
Contractor Foreman: D Rodgers
Schnabel Representative: B. Bradley
Equipment: Geoprobe 6620DT
Method: 4-1/4" I.D. Hollow Stem Auger

Hammer Type:
Dates Started: 4/6/15 **Finished:** 4/6/15
X: 231285.16 m **Y:** 739189.324 m
Coordinate System: NC State Plane
Ground Surface Elevation: 56± (ft) **Total Depth:** 20.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Encountered	4/6	3:19 PM	14.1'	20.0'	---
Observation Well	4/8	10:00 AM	14.4'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	WELL
0.2	Topsoil		55.8					
	SILT; dry, light gray	ML			5			Grout seal; Bentonite seal; Filter sand and
10.0	SILTY SAND; dry, dark orangish brown	SM	46.0		10			
15.0	CLAY WITH SAND; moist to wet, light gray, medium to high	CL	41.0		15			0.01-inch slotted screen
20.0			36.0		20			

Bottom of Boring at 20.0 ft.
Observation well installed upon completion.

Schnabel ENGINEERING **AUGER PROBE LOG**

Project: Edgecombe County Landfill
Edgecombe County
Tarboro, North Carolina

Boring Number: **SB/MW-2**
Contract Number: 653DP-9
Sheet: 1 of 1

Contractor: Elite Techniques, Inc.
Camden, South Carolina
Contractor Foreman: D Rodgers
Schnabel Representative: B. Bradley
Equipment: Geoprobe 6620DT
Method: 4-1/4" I.D. Hollow Stem Auger
Hammer Type:
Dates Started: 4/7/15 **Finished:** 4/7/15
X: 231432.246 m **Y:** 739139.268 m
Coordinate System: NC State Plane
Ground Surface Elevation: 68± (ft) **Total Depth:** 12.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Encountered ▽	4/7	10:43 AM	15.0'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	REMARKS
0.2	Topsoil		67.8					
	CLAYEY SILT; moist, light brown dark grayish brown, Waste encountered at 5-12 ft. Groundwater well not installed.	ML			5			
					10			
12.0			56.0					

Bottom of Boring at 12.0 ft.
Boring backfilled with cuttings upon completion.

▽

Schnabel ENGINEERING **AUGER PROBE LOG**

Project: Edgecombe County Landfill
Edgecombe County
Tarboro, North Carolina

Boring Number: **MW-4**
Contract Number: 653DP-9
Sheet: 1 of 1

Contractor: Elite Techniques, Inc.
Camden, South Carolina
Contractor Foreman: D Rodgers
Schnabel Representative: B. Bradley
Equipment: Geoprobe 6620DT
Method: 4-1/4" I.D. Hollow Stem Auger

Hammer Type:
Dates Started: 4/7/15 **Finished:** 4/7/15
X: 231551.039 m **Y:** 738863.977 m
Coordinate System: NC State Plane
Ground Surface Elevation: 74± (ft) **Total Depth:** 19.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Encountered ▽	4/7	8:59 AM	14.0'	19.0'	---
Observation Well ▼	4/8	2:42 PM	16.8'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	WELL
0.2	Topsoil		73.8					
	SILTY SAND; moist, light brown	SM						Grout seal
5.0	SILTY CLAY; moist to wet, light grayish brown, low to medium		69.0		5			Bentonite seal
					10			Filter sand and
		CL						0.01-inch slotted screen
					15			
19.0			55.0					

Bottom of Boring at 19.0 ft.
Observation well installed upon completion.

Schnabel ENGINEERING **AUGER PROBE LOG**

Project: Edgecombe County Landfill
Edgecombe County
Tarboro, North Carolina

Boring Number: **MW-6**
Contract Number: 653DP-9
Sheet: 1 of 1

Contractor: Elite Techniques, Inc.
Camden, South Carolina

Contractor Foreman: D Rodgers

Schnabel Representative: B. Bradley

Equipment: Geoprobe 6620DT

Method: 4-1/4" I.D. Hollow Stem Auger

Hammer Type:

Dates Started: 4/6/15 **Finished:** 4/6/15

X: 231366.829 m **Y:** 738821.513 m

Coordinate System: NC State Plane

Ground Surface Elevation: 50± (ft) **Total Depth:** 12.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Encountered ▽	4/6	5:21 PM	7.1'	12.0'	---
Observation Well ▼	4/8	1:44 PM	4.9'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	WELL
0.2	Topsoil		50.1					Grout seal
	SILT WITH SAND; moist to wet, dark brown to dark blackish gray	ML			5			Bentonite seal
								Filter sand and
					10			0.01-inch slotted screen
12.0			38.3					

Bottom of Boring at 12.0 ft.
Observation well installed upon completion.

Schnabel ENGINEERING **AUGER PROBE LOG**

Project: Edgecombe County Landfill
Edgecombe County
Tarboro, North Carolina

Boring Number: **MW-7**
Contract Number: 653DP-9
Sheet: 1 of 1

Contractor: Elite Techniques, Inc.
Camden, South Carolina
Contractor Foreman: D Rodgers
Schnabel Representative: B. Bradley
Equipment: Geoprobe 6620DT
Method: 4-1/4" I.D. Hollow Stem Auger

Hammer Type:
Dates Started: 4/6/15 **Finished:** 4/6/15
X: 231266.009 m **Y:** 739078.998 m
Coordinate System: NC State Plane
Ground Surface Elevation: 54± (ft) **Total Depth:** 20.0 ft

Groundwater Observations

	Date	Time	Depth	Casing	Caved
Completion	4/6	4:29 PM	15.0'	20.0'	---
Observation Well	4/8	12:19 PM	15.0'	---	---

DEPTH (ft)	MATERIAL DESCRIPTION	SYMBOL	ELEV (ft)	STRATUM	SAMPLING DEPTH	SAMPLING DATA	TESTS	WELL
0.2	Topsoil		53.8					
	ELASTIC SILT WITH SAND; moist, light brown to light gray, medium plasticity	MH			5			Grout seal; Bentonite seal
6.0	SILTY SAND; moist, light gray	SM	48.0		10			Filter sand and
15.0	SILTY CLAY WITH SAND; moist to wet, gray to light brown, low to medium	CL	39.0		15			0.01-inch slotted screen
20.0			34.0		20			

Bottom of Boring at 20.0 ft.
Observation well installed upon completion.

ENCO Laboratories

Accurate. Timely. Responsive. Innovative.

102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

Thursday, April 23, 2015
Schnabel Engineering (SH010)
Attn: Benjamin Bradley
11-A Oak Branch Drive
Greensboro, NC 27407

RE: Laboratory Results for
Project Number: 653DP-8, Project Name/Desc: Edgecombe County Landfill
ENCO Workorder(s): C503663

Dear Benjamin Bradley,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Wednesday, April 8, 2015.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

PROJECT NARRATIVE

Overview

Environmental Conservation Laboratories, Inc. (ENCO) analyzed all submitted samples in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by ENCO are discussed in the QC Remarks section below.

Quality Control Samples

No Comments

Quality Control Remarks

No Comments

Other Comments

Samples SB-A2(0-2.5ft), SB-A2(2.5-5.0ft) and SB-A2(5.0-7.5ft) analyzed by Method 6020 results have been reported at 10X dilutions due to matrix interference. Samples SB-A2(7.5-10.0ft) and Duplicate-3 were analyzed at 5X dilutions due to target analyte concentrations.

All acronyms, data flags and notes are defined with the exception of MDL (Method Detection Limit) and PQL (Practical Quantitation Limit). The MDL is a statistical value that represents the minimum level at which the analyte can be detected with 99% confidence. The PQL (or MRL) is the lowest point of the calibration curve. ug/L = micrograms/liter, mg/L = milligrams/liter, RPD = Relative Percent Difference, DF = Dilution Factor, % Rec = Percent Recovery, EPA = United States Environmental Protection Agency.

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative or in the Flags/Notes and Definitions section of the report.

Released By:
Environmental Conservation Laboratories, Inc.

Chuck Smith
Project Manager

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SB-A2 (0-2.5 ft) **Lab ID: C503663-01** **Sampled: 04/07/15 13:45** **Received: 04/08/15 09:15**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	05/05/15	05/18/15		04/20/15	11:57	04/21/15 13:45
EPA 6020A	10/04/15			04/14/15	13:33	04/15/15 10:02
EPA 7471B	05/05/15			04/21/15	11:10	04/22/15 14:24
EPA 8260C	04/21/15			04/14/15	00:00	04/14/15 12:42
EPA 8270D	04/21/15	05/19/15		04/09/15	13:30	04/15/15 21:48
EPA 9056A	05/05/15	04/22/15	11:57	04/20/15	11:57	04/20/15 19:53
EPA 9056A	05/05/15	05/18/15		04/20/15	11:57	04/20/15 19:53

Client ID: SB-A2 (0-2.5 ft) **Lab ID: C503663-01RE1** **Sampled: 04/07/15 13:45** **Received: 04/08/15 09:15**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	04/21/15			04/15/15	14:44	04/15/15 17:42

Client ID: SB-A2 (2.5-5.0 ft) **Lab ID: C503663-02** **Sampled: 04/07/15 14:26** **Received: 04/08/15 09:15**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	05/05/15	05/18/15		04/20/15	11:57	04/21/15 13:55
EPA 6020A	10/04/15			04/14/15	13:33	04/15/15 10:41
EPA 7471B	05/05/15			04/21/15	11:10	04/22/15 14:37
EPA 8260B	04/21/15			04/13/15	13:30	04/13/15 19:35
EPA 8260C	04/21/15			04/14/15	00:00	04/14/15 13:56
EPA 9056A	05/05/15	04/22/15	11:57	04/20/15	11:57	04/20/15 20:11
EPA 9056A	05/05/15	05/18/15		04/20/15	11:57	04/20/15 20:11

Client ID: SB-A2 (2.5-5.0 ft) **Lab ID: C503663-02RE1** **Sampled: 04/07/15 14:26** **Received: 04/08/15 09:15**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8270D	04/21/15	05/19/15		04/09/15	13:30	04/20/15 20:31

Client ID: SB-A2 (5.0-7.5 ft) **Lab ID: C503663-03** **Sampled: 04/07/15 14:25** **Received: 04/08/15 09:15**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6020A	10/04/15			04/14/15	13:33	04/15/15 10:47
EPA 7471B	05/05/15			04/21/15	11:10	04/22/15 14:39
EPA 8260B	04/21/15			04/13/15	13:30	04/13/15 20:07
EPA 8260C	04/21/15			04/14/15	00:00	04/14/15 14:35
EPA 8270D	04/21/15	05/19/15		04/09/15	13:30	04/20/15 20:58
EPA 9056A	05/05/15	04/22/15	11:57	04/20/15	11:57	04/20/15 20:29
EPA 9056A	05/05/15	05/18/15		04/20/15	11:57	04/20/15 20:29

Client ID: SB-A2 (5.0-7.5 ft) **Lab ID: C503663-03RE1** **Sampled: 04/07/15 14:25** **Received: 04/08/15 09:15**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	05/05/15	05/18/15		04/20/15	11:57	04/21/15 14:43

Client ID: SB-A2 (7.5-10.0 ft) **Lab ID: C503663-04** **Sampled: 04/07/15 14:35** **Received: 04/08/15 09:15**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6020A	10/04/15			04/16/15	10:09	04/17/15 09:02
EPA 7471B	05/05/15			04/21/15	11:10	04/22/15 14:41
EPA 8260B	04/21/15			04/13/15	13:30	04/13/15 20:39
EPA 8260C	04/21/15			04/14/15	00:00	04/14/15 15:14
EPA 8270D	04/21/15	05/19/15		04/09/15	13:30	04/15/15 20:51
EPA 9056A	05/05/15	04/22/15	11:57	04/20/15	11:57	04/20/15 20:47
EPA 9056A	05/05/15	05/18/15		04/20/15	11:57	04/20/15 20:47

Client ID: SB-A2 (7.5-10.0 ft) **Lab ID: C503663-04RE1** **Sampled: 04/07/15 14:35** **Received: 04/08/15 09:15**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	05/05/15	05/18/15		04/20/15	11:57	04/21/15 14:47

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: Duplicate-3 **Lab ID: C503663-05** **Sampled: 04/07/15 13:45** **Received: 04/08/15 09:15**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6020A	10/04/15			04/16/15	10:09	04/17/15 09:25
EPA 7471B	05/05/15			04/21/15	11:10	04/22/15 14:49
EPA 8260B	04/21/15			04/13/15	13:30	04/13/15 21:11
EPA 8260C	04/21/15			04/14/15	00:00	04/14/15 15:51
EPA 8270D	04/21/15	05/19/15		04/09/15	13:30	04/15/15 21:19
EPA 9056A	05/05/15	04/22/15	11:57	04/20/15	11:57	04/20/15 21:41
EPA 9056A	05/05/15	05/18/15		04/20/15	11:57	04/20/15 21:41

Client ID: Duplicate-3 **Lab ID: C503663-05RE1** **Sampled: 04/07/15 13:45** **Received: 04/08/15 09:15**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	05/05/15	05/18/15	04/20/15	11:57	04/21/15 14:50

Client ID: Trip Blank **Lab ID: C503663-06** **Sampled: 04/07/15 00:00** **Received: 04/08/15 09:15**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	04/21/15	04/15/15	15:37	04/16/15 15:30
EPA 8260C	04/21/15	04/15/15	00:00	04/15/15 18:43

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SAMPLE DETECTION SUMMARY

Client ID: SB-A2 (0-2.5 ft) **Lab ID: C503663-01**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
4-Chloroaniline	0.78		0.22	0.76	mg/kg dry	EPA 8270D	
Acetophenone	0.19	J	0.076	0.76	mg/kg dry	EPA 8270D	
Antimony - Total	16.3	D	2.27	5.67	mg/kg dry	EPA 6020A	1-07, QM-11, R-
Benzo(b)fluoranthene	0.10	J	0.042	0.76	mg/kg dry	EPA 8270D	
Bis(2-ethylhexyl)phthalate	0.40	J	0.081	0.76	mg/kg dry	EPA 8270D	
Butylbenzylphthalate	0.093	J	0.093	0.76	mg/kg dry	EPA 8270D	
Chromium - Total	45.4	JD	6.24	56.7	mg/kg dry	EPA 6020A	R-01
Copper - Total	64.6	D	2.50	11.3	mg/kg dry	EPA 6020A	QM-07, R-01
Di-n-butylphthalate	0.11	J	0.095	0.76	mg/kg dry	EPA 8270D	
Iron - Total	4730	D	20.4	56.7	mg/kg dry	EPA 6020A	1-07, QM-11, R-
Lead - Total	28.3	JD	2.72	56.7	mg/kg dry	EPA 6020A	R-01
Manganese - Total	35.0	D	3.18	11.3	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.532		0.00666	0.0232	mg/kg dry	EPA 7471B	
Nitrate as N	4.8	J	2.4	12	mg/kg dry	EPA 9056A	
Silver - Total	6.33	D	0.624	5.67	mg/kg dry	EPA 6020A	R-01
Zinc - Total	83.7	D	14.7	56.7	mg/kg dry	EPA 6020A	QM-07, R-01

Client ID: SB-A2 (0-2.5 ft) **Lab ID: C503663-01RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
2-Butanone	0.0038	J	0.0009	0.0058	mg/kg dry	EPA 8260B	
Acetone	0.25		0.0016	0.0058	mg/kg dry	EPA 8260B	

Client ID: SB-A2 (2.5-5.0 ft) **Lab ID: C503663-02**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dioxane	0.00964		0.00193	0.00644	mg/kg dry	EPA 8260C	
2-Butanone	0.0044	J	0.0009	0.0058	mg/kg dry	EPA 8260B	
Acetone	0.086		0.0016	0.0058	mg/kg dry	EPA 8260B	
Ammonia as N	3.4		0.66	1.5	mg/kg dry	EPA 350.1	
Chromium - Total	8.79	JD	7.38	67.1	mg/kg dry	EPA 6020A	R-01
Copper - Total	49.3	D	2.95	13.4	mg/kg dry	EPA 6020A	R-01
Iron - Total	5620	D	24.2	67.1	mg/kg dry	EPA 6020A	R-01
Lead - Total	10.1	JD	3.22	67.1	mg/kg dry	EPA 6020A	R-01
m,p-Xylenes	0.0032		0.0004	0.0023	mg/kg dry	EPA 8260B	
Manganese - Total	5.49	JD	3.76	13.4	mg/kg dry	EPA 6020A	R-01
Mercury - Total	1.13		0.00675	0.0235	mg/kg dry	EPA 7471B	
Methyl acetate	0.031		0.0003	0.0012	mg/kg dry	EPA 8260B	
Zinc - Total	94.4	D	17.5	67.1	mg/kg dry	EPA 6020A	R-01

Client ID: SB-A2 (2.5-5.0 ft) **Lab ID: C503663-02RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Bis(2-ethylhexyl)phthalate	1.1		0.051	0.48	mg/kg dry	EPA 8270D	

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SAMPLE DETECTION SUMMARY

Client ID: SB-A2 (5.0-7.5 ft) **Lab ID: C503663-03**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,3-Dichlorobenzene	0.0014	J	0.0006	0.0026	mg/kg dry	EPA 8260B	
1,4-Dichlorobenzene	0.0049		0.0005	0.0026	mg/kg dry	EPA 8260B	
1,4-Dioxane	0.00964		0.00187	0.00622	mg/kg dry	EPA 8260C	
2-Butanone	0.045		0.0020	0.013	mg/kg dry	EPA 8260B	
Acetone	0.64		0.0037	0.013	mg/kg dry	EPA 8260B	
Bis(2-ethylhexyl)phthalate	89	D	1.1	10	mg/kg dry	EPA 8270D	
Butylbenzylphthalate	2.4	JD	1.2	10	mg/kg dry	EPA 8270D	
Carbon disulfide	0.020		0.0010	0.013	mg/kg dry	EPA 8260B	
Chlorobenzene	0.0054		0.0004	0.0026	mg/kg dry	EPA 8260B	
Chromium - Total	12.5	JD	8.26	75.1	mg/kg dry	EPA 6020A	R-01
Copper - Total	4.41	JD	3.30	15.0	mg/kg dry	EPA 6020A	R-01
Dichlorodifluoromethane	0.0017	J	0.0012	0.0026	mg/kg dry	EPA 8260B	
Ethylbenzene	0.0097		0.0005	0.0026	mg/kg dry	EPA 8260B	
Iron - Total	7350	D	27.0	75.1	mg/kg dry	EPA 6020A	R-01
Isopropylbenzene	0.0050		0.0004	0.0026	mg/kg dry	EPA 8260B	
Lead - Total	20.2	JD	3.60	75.1	mg/kg dry	EPA 6020A	R-01
m,p-Xylenes	0.013		0.0010	0.0053	mg/kg dry	EPA 8260B	
Manganese - Total	16.4	D	4.20	15.0	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.0894		0.0149	0.0520	mg/kg dry	EPA 7471B	
Methyl acetate	0.23		0.0006	0.0026	mg/kg dry	EPA 8260B	
Naphthalene	1.2	JD	0.87	10	mg/kg dry	EPA 8270D	
o-Xylene	0.0073		0.0006	0.0026	mg/kg dry	EPA 8260B	
Sulfate as SO4	120	J	74	130	mg/kg dry	EPA 9056A	
Trichlorofluoromethane	0.039		0.0007	0.0026	mg/kg dry	EPA 8260B	
Zinc - Total	83.5	D	19.5	75.1	mg/kg dry	EPA 6020A	R-01

Client ID: SB-A2 (5.0-7.5 ft) **Lab ID: C503663-03RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	320	D	12	26	mg/kg dry	EPA 350.1	

Client ID: SB-A2 (7.5-10.0 ft) **Lab ID: C503663-04**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dioxane	0.0138		0.00157	0.00523	mg/kg dry	EPA 8260C	
2-Butanone	0.011		0.0009	0.0057	mg/kg dry	EPA 8260B	
Acetone	0.23		0.0016	0.0057	mg/kg dry	EPA 8260B	
Bis(2-ethylhexyl)phthalate	0.045	J	0.040	0.38	mg/kg dry	EPA 8270D	
Carbon disulfide	0.0026	J	0.0004	0.0057	mg/kg dry	EPA 8260B	
Chlorobenzene	0.0019		0.0002	0.0011	mg/kg dry	EPA 8260B	
Chromium - Total	4.23	JD	3.18	28.9	mg/kg dry	EPA 6020A	
cis-1,2-Dichloroethene	0.0087		0.0003	0.0011	mg/kg dry	EPA 8260B	
Dichlorodifluoromethane	0.0067		0.0005	0.0011	mg/kg dry	EPA 8260B	
Ethylbenzene	0.0035		0.0002	0.0011	mg/kg dry	EPA 8260B	
Iron - Total	3360	D	10.4	28.9	mg/kg dry	EPA 6020A	QM-08, QM-17
Isopropylbenzene	0.0029		0.0002	0.0011	mg/kg dry	EPA 8260B	
Lead - Total	3.34	JD	1.39	28.9	mg/kg dry	EPA 6020A	
m,p-Xylenes	0.0081		0.0004	0.0023	mg/kg dry	EPA 8260B	
Manganese - Total	16.7	D	1.62	5.79	mg/kg dry	EPA 6020A	QM-07
Mercury - Total	0.0134	J	0.00624	0.0217	mg/kg dry	EPA 7471B	
Methyl acetate	0.040		0.0003	0.0011	mg/kg dry	EPA 8260B	
o-Xylene	0.0036		0.0003	0.0011	mg/kg dry	EPA 8260B	
Trichlorofluoromethane	0.20		0.0003	0.0011	mg/kg dry	EPA 8260B	

Client ID: SB-A2 (7.5-10.0 ft) **Lab ID: C503663-04RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	120	D	5.2	11	mg/kg dry	EPA 350.1	

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SAMPLE DETECTION SUMMARY

Client ID: Duplicate-3 **Lab ID: C503663-05**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,3-Dichlorobenzene	0.0006	J	0.0003	0.0015	mg/kg dry	EPA 8260B	
1,4-Dichlorobenzene	0.0022		0.0003	0.0015	mg/kg dry	EPA 8260B	
1,4-Dioxane	0.0141		0.00303	0.0101	mg/kg dry	EPA 8260C	
2-Butanone	0.031		0.0012	0.0077	mg/kg dry	EPA 8260B	
Acetone	0.21		0.0022	0.0077	mg/kg dry	EPA 8260B	
Benzene	0.0007	J	0.0003	0.0015	mg/kg dry	EPA 8260B	
Bis(2-ethylhexyl)phthalate	0.16	J	0.041	0.38	mg/kg dry	EPA 8270D	
Carbon disulfide	0.022		0.0006	0.0077	mg/kg dry	EPA 8260B	
Chlorobenzene	0.0074		0.0003	0.0015	mg/kg dry	EPA 8260B	
Chromium - Total	4.33	JD	3.18	28.9	mg/kg dry	EPA 6020A	
Dichlorodifluoromethane	0.0016		0.0007	0.0015	mg/kg dry	EPA 8260B	
Ethylbenzene	0.018		0.0003	0.0015	mg/kg dry	EPA 8260B	
Iron - Total	3870	D	10.4	28.9	mg/kg dry	EPA 6020A	
Isopropylbenzene	0.0050		0.0002	0.0015	mg/kg dry	EPA 8260B	
Lead - Total	4.77	JD	1.39	28.9	mg/kg dry	EPA 6020A	
m,p-Xylenes	0.020		0.0006	0.0031	mg/kg dry	EPA 8260B	
Manganese - Total	6.66	D	1.62	5.78	mg/kg dry	EPA 6020A	
Mercury - Total	0.0164	J	0.00799	0.0278	mg/kg dry	EPA 7471B	
o-Xylene	0.0096		0.0003	0.0015	mg/kg dry	EPA 8260B	
Trichlorofluoromethane	0.028		0.0004	0.0015	mg/kg dry	EPA 8260B	

Client ID: Duplicate-3 **Lab ID: C503663-05RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	190	D	5.2	12	mg/kg dry	EPA 350.1	

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ANALYTICAL RESULTS

Description:	SB-A2 (0-2.5 ft)	**Lab Sample ID:**	C503663-01	**Received:**	04/08/15 09:15
Matrix:	Soil	**Sampled:**	04/07/15 13:45	**Work Order:**	C503663
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	86.39

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0009	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0005	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0005	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.015	0.069	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
2-Butanone [78-93-3]^	**0.0038**	J	mg/kg dry	1	0.0009	0.0058	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0009	0.0058	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0007	0.0058	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Acetone [67-64-1]^	**0.25**		mg/kg dry	1	0.0016	0.0058	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0005	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0005	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0004	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0005	0.0058	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0004	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0005	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0002	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0004	0.0023	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0008	0.0023	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0011	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	

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ANALYTICAL RESULTS

Description:	SB-A2 (0-2.5 ft)	**Lab Sample ID:**	C503663-01	**Received:**	04/08/15 09:15
Matrix:	Soil	**Sampled:**	04/07/15 13:45	**Work Order:**	C503663
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	86.39

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0004	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0005	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0004	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	QL-02
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0003	0.0012	5D15023	EPA 8260B	04/15/15 17:42	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*43*	*1*	*50.0*	*86 %*	*50-127*	*5D15023*	*EPA 8260B*	*04/15/15 17:42*	*MSZ*	
Dibromofluoromethane	*60*	*1*	*50.0*	*120 %*	*52-128*	*5D15023*	*EPA 8260B*	*04/15/15 17:42*	*MSZ*	
Toluene-d8	*54*	*1*	*50.0*	*108 %*	*57-124*	*5D15023*	*EPA 8260B*	*04/15/15 17:42*	*MSZ*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.76	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.076	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.076	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.063	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.063	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.056	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.10	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.10	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	QV-02
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.065	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.072	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.065	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.058	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.076	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.065	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.058	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.069	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.072	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.060	0.93	5D08043	EPA 8270D	04/15/15 21:48	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.23	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.083	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.063	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.076	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
4-Chloroaniline [106-47-8]^	**0.78**		mg/kg dry	1	0.22	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.060	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.12	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.072	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.065	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.065	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Acetophenone [98-86-2]^	**0.19**	J	mg/kg dry	1	0.076	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.088	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.76	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.76	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.065	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.076	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	

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ANALYTICAL RESULTS

Description:	SB-A2 (0-2.5 ft)	**Lab Sample ID:**	C503663-01	**Received:**	04/08/15 09:15
Matrix:	Soil	**Sampled:**	04/07/15 13:45	**Work Order:**	C503663
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	86.39

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo(b)fluoranthene [205-99-2]^	**0.10**	J	mg/kg dry	1	0.042	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.11	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.076	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.058	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.10	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.056	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	**0.40**	J	mg/kg dry	1	0.081	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Butylbenzylphthalate [85-68-7]^	**0.093**	J	mg/kg dry	1	0.093	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.76	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.076	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.069	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.12	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.063	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.065	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.076	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Di-n-butylphthalate [84-74-2]^	**0.11**	J	mg/kg dry	1	0.095	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.076	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.083	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.067	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.060	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.060	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.090	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	QV-02
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.049	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.11	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.069	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.065	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.060	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.19	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.13	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.076	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.063	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.051	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	QL-02
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.088	0.76	5D08043	EPA 8270D	04/15/15 21:48	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.6*	*1*	*3.86*	*94 %*	*28-130*	*5D08043*	*EPA 8270D*	*04/15/15 21:48*	*DFM*	
2-Fluorobiphenyl	*1.5*	*1*	*1.93*	*79 %*	*49-105*	*5D08043*	*EPA 8270D*	*04/15/15 21:48*	*DFM*	
2-Fluorophenol	*2.3*	*1*	*3.86*	*59 %*	*28-95*	*5D08043*	*EPA 8270D*	*04/15/15 21:48*	*DFM*	
Nitrobenzene-d5	*1.4*	*1*	*1.93*	*71 %*	*50-117*	*5D08043*	*EPA 8270D*	*04/15/15 21:48*	*DFM*	
Phenol-d5	*2.9*	*1*	*3.86*	*75 %*	*21-184*	*5D08043*	*EPA 8270D*	*04/15/15 21:48*	*DFM*	
Terphenyl-d14	*1.3*	*1*	*1.93*	*68 %*	*54-124*	*5D08043*	*EPA 8270D*	*04/15/15 21:48*	*DFM*	

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ANALYTICAL RESULTS

Description:	SB-A2 (0-2.5 ft)	**Lab Sample ID:**	C503663-01	**Received:**	04/08/15 09:15
Matrix:	Soil	**Sampled:**	04/07/15 13:45	**Work Order:**	C503663
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	86.39

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	**0.532**		mg/kg dry	1	0.00666	0.0232	5D21018	EPA 7471B	04/22/15 14:24	T1D	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	ND		mg/kg dry	1	0.52	1.2	5D20006	EPA 350.1	04/21/15 13:45	SHA	
Nitrate as N [14797-55-8]	**4.8**	J	mg/kg dry	1	2.4	12	5D20007	EPA 9056A	04/20/15 19:53	AJB	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	33	58	5D20007	EPA 9056A	04/20/15 19:53	AJB	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.00343	0.0114	5D14011	EPA 8260C	04/14/15 12:42	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.04*	*1*	*5.00*	*81 %*	*70-130*	*5D14011*	*EPA 8260C*	*04/14/15 12:42*	*rgg*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	**16.3**	D	mg/kg dry	10	2.27	5.67	5D14025	EPA 6020A	04/15/15 10:02	JMA	QM-07, QM-11, R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	10	5.78	11.3	5D14025	EPA 6020A	04/15/15 10:02	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	10	1.13	22.7	5D14025	EPA 6020A	04/15/15 10:02	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	10	1.47	11.3	5D14025	EPA 6020A	04/15/15 10:02	JMA	R-01
Chromium [7440-47-3]^	**45.4**	JD	mg/kg dry	10	6.24	56.7	5D14025	EPA 6020A	04/15/15 10:02	JMA	R-01
Copper [7440-50-8]^	**64.6**	D	mg/kg dry	10	2.50	11.3	5D14025	EPA 6020A	04/15/15 10:02	JMA	QM-07, R-01
Iron [7439-89-6]^	**4730**	D	mg/kg dry	10	20.4	56.7	5D14025	EPA 6020A	04/15/15 10:02	JMA	QM-07, QM-11, R-01
Lead [7439-92-1]^	**28.3**	JD	mg/kg dry	10	2.72	56.7	5D14025	EPA 6020A	04/15/15 10:02	JMA	R-01
Manganese [7439-96-5]^	**35.0**	D	mg/kg dry	10	3.18	11.3	5D14025	EPA 6020A	04/15/15 10:02	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	10	2.84	11.3	5D14025	EPA 6020A	04/15/15 10:02	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	10	10.3	11.3	5D14025	EPA 6020A	04/15/15 10:02	JMA	R-01
Silver [7440-22-4]^	**6.33**	D	mg/kg dry	10	0.624	5.67	5D14025	EPA 6020A	04/15/15 10:02	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	10	0.420	11.3	5D14025	EPA 6020A	04/15/15 10:02	JMA	R-01
Zinc [7440-66-6]^	**83.7**	D	mg/kg dry	10	14.7	56.7	5D14025	EPA 6020A	04/15/15 10:02	JMA	QM-07, R-01

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ANALYTICAL RESULTS

Description:	SB-A2 (2.5-5.0 ft)	**Lab Sample ID:**	C503663-02	**Received:**	04/08/15 09:15
Matrix:	Soil	**Sampled:**	04/07/15 14:26	**Work Order:**	C503663
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	68.18

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0004	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0009	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0005	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0005	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0003	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0003	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.015	0.070	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
2-Butanone [78-93-3]^	**0.0044**	J	mg/kg dry	1	0.0009	0.0058	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0009	0.0058	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0007	0.0058	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Acetone [67-64-1]^	**0.086**		mg/kg dry	1	0.0016	0.0058	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0005	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0003	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0005	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0004	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0005	0.0058	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0003	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0003	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0004	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0005	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0002	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	**0.0032**		mg/kg dry	1	0.0004	0.0023	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Methyl acetate [79-20-9]^	**0.031**		mg/kg dry	1	0.0003	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0009	0.0023	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0004	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0003	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0011	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0003	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	

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ANALYTICAL RESULTS

Description:	SB-A2 (2.5-5.0 ft)	**Lab Sample ID:**	C503663-02	**Received:**	04/08/15 09:15
Matrix:	Soil	**Sampled:**	04/07/15 14:26	**Work Order:**	C503663
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	68.18

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0004	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0005	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0004	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0003	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0003	0.0012	5D13022	EPA 8260B	04/13/15 19:35	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*49*	*1*	*50.0*	*98 %*	*50-127*	*5D13022*	*EPA 8260B*	*04/13/15 19:35*	*MSZ*	
Dibromofluoromethane	*58*	*1*	*50.0*	*116 %*	*52-128*	*5D13022*	*EPA 8260B*	*04/13/15 19:35*	*MSZ*	
Toluene-d8	*55*	*1*	*50.0*	*110 %*	*57-124*	*5D13022*	*EPA 8260B*	*04/13/15 19:35*	*MSZ*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.48	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.048	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.048	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.040	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.040	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.035	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.063	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.063	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.041	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.045	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.041	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.037	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.048	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.041	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.037	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.044	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.045	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.038	0.59	5D08043	EPA 8270D	04/20/15 20:31	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.14	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.053	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.040	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.048	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.14	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.038	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.078	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.045	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.041	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.041	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.048	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.056	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.48	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.48	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.041	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.048	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	

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ANALYTICAL RESULTS

Description:	SB-A2 (2.5-5.0 ft)	**Lab Sample ID:**	C503663-02	**Received:**	04/08/15 09:15
Matrix:	Soil	**Sampled:**	04/07/15 14:26	**Work Order:**	C503663
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	68.18

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.026	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.069	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.048	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.037	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.063	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.035	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	**1.1**		mg/kg dry	1	0.051	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.059	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.48	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.048	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.044	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.075	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.040	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.041	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.048	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.060	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.048	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.053	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.043	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.038	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.038	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.057	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.031	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.069	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.044	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.041	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.038	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.12	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.079	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.048	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.040	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.032	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.056	0.48	5D08043	EPA 8270D	04/20/15 20:31	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.9*	*1*	*4.89*	*80 %*	*28-130*	*5D08043*	*EPA 8270D*	*04/20/15 20:31*	*DFM*	
2-Fluorobiphenyl	*1.7*	*1*	*2.44*	*69 %*	*49-105*	*5D08043*	*EPA 8270D*	*04/20/15 20:31*	*DFM*	
2-Fluorophenol	*3.2*	*1*	*4.89*	*65 %*	*28-95*	*5D08043*	*EPA 8270D*	*04/20/15 20:31*	*DFM*	
Nitrobenzene-d5	*1.7*	*1*	*2.44*	*69 %*	*50-117*	*5D08043*	*EPA 8270D*	*04/20/15 20:31*	*DFM*	
Phenol-d5	*3.6*	*1*	*4.89*	*74 %*	*21-184*	*5D08043*	*EPA 8270D*	*04/20/15 20:31*	*DFM*	
Terphenyl-d14	*1.7*	*1*	*2.44*	*68 %*	*54-124*	*5D08043*	*EPA 8270D*	*04/20/15 20:31*	*DFM*	

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ANALYTICAL RESULTS

Description:	SB-A2 (2.5-5.0 ft)	**Lab Sample ID:**	C503663-02	**Received:**	04/08/15 09:15
Matrix:	Soil	**Sampled:**	04/07/15 14:26	**Work Order:**	C503663
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	68.18

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	**1.13**		mg/kg dry	1	0.00675	0.0235	5D21018	EPA 7471B	04/22/15 14:37	T1D	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**3.4**		mg/kg dry	1	0.66	1.5	5D20006	EPA 350.1	04/21/15 13:55	SHA	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	3.0	15	5D20007	EPA 9056A	04/20/15 20:11	AJB	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	42	73	5D20007	EPA 9056A	04/20/15 20:11	AJB	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	**0.00964**		mg/kg dry	1	0.00193	0.00644	5D14011	EPA 8260C	04/14/15 13:56	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.40*	*1*	*5.00*	*88 %*	*70-130*	*5D14011*	*EPA 8260C*	*04/14/15 13:56*	*rgg*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	10	2.69	6.71	5D14025	EPA 6020A	04/15/15 10:41	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	10	6.85	13.4	5D14025	EPA 6020A	04/15/15 10:41	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	10	1.34	26.9	5D14025	EPA 6020A	04/15/15 10:41	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	10	1.75	13.4	5D14025	EPA 6020A	04/15/15 10:41	JMA	R-01
Chromium [7440-47-3]^	**8.79**	JD	mg/kg dry	10	7.38	67.1	5D14025	EPA 6020A	04/15/15 10:41	JMA	R-01
Copper [7440-50-8]^	**49.3**	D	mg/kg dry	10	2.95	13.4	5D14025	EPA 6020A	04/15/15 10:41	JMA	R-01
Iron [7439-89-6]^	**5620**	D	mg/kg dry	10	24.2	67.1	5D14025	EPA 6020A	04/15/15 10:41	JMA	R-01
Lead [7439-92-1]^	**10.1**	JD	mg/kg dry	10	3.22	67.1	5D14025	EPA 6020A	04/15/15 10:41	JMA	R-01
Manganese [7439-96-5]^	**5.49**	JD	mg/kg dry	10	3.76	13.4	5D14025	EPA 6020A	04/15/15 10:41	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	10	3.36	13.4	5D14025	EPA 6020A	04/15/15 10:41	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	10	12.2	13.4	5D14025	EPA 6020A	04/15/15 10:41	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	10	0.738	6.71	5D14025	EPA 6020A	04/15/15 10:41	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	10	0.497	13.4	5D14025	EPA 6020A	04/15/15 10:41	JMA	R-01
Zinc [7440-66-6]^	**94.4**	D	mg/kg dry	10	17.5	67.1	5D14025	EPA 6020A	04/15/15 10:41	JMA	R-01

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ANALYTICAL RESULTS

Description:	SB-A2 (5.0-7.5 ft)	**Lab Sample ID:**	C503663-03	**Received:**	04/08/15 09:15
Matrix:	Soil	**Sampled:**	04/07/15 14:25	**Work Order:**	C503663
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	32.22

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0007	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0005	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0007	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0007	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0008	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0007	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0007	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0021	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0012	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0007	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0011	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0007	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
1,3-Dichlorobenzene [541-73-1]^	**0.0014**	J	mg/kg dry	1	0.0006	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
1,4-Dichlorobenzene [106-46-7]^	**0.0049**		mg/kg dry	1	0.0005	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.034	0.16	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
2-Butanone [78-93-3]^	**0.045**		mg/kg dry	1	0.0020	0.013	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0020	0.013	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0015	0.013	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Acetone [67-64-1]^	**0.64**		mg/kg dry	1	0.0037	0.013	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0004	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0011	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0006	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0012	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0008	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Carbon disulfide [75-15-0]^	**0.020**		mg/kg dry	1	0.0010	0.013	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0006	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Chlorobenzene [108-90-7]^	**0.0054**		mg/kg dry	1	0.0004	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0007	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0005	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0006	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0006	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0004	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0004	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0009	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Dichlorodifluoromethane [75-71-8]^	**0.0017**	J	mg/kg dry	1	0.0012	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Ethylbenzene [100-41-4]^	**0.0097**		mg/kg dry	1	0.0005	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0004	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Isopropylbenzene [98-82-8]^	**0.0050**		mg/kg dry	1	0.0004	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	**0.013**		mg/kg dry	1	0.0010	0.0053	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Methyl acetate [79-20-9]^	**0.23**		mg/kg dry	1	0.0006	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0007	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0019	0.0053	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0008	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
o-Xylene [95-47-6]^	**0.0073**		mg/kg dry	1	0.0006	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0026	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0007	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0006	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	

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ANALYTICAL RESULTS

Description:	SB-A2 (5.0-7.5 ft)	**Lab Sample ID:**	C503663-03	**Received:**	04/08/15 09:15
Matrix:	Soil	**Sampled:**	04/07/15 14:25	**Work Order:**	C503663
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	32.22

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0010	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0010	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0008	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Trichlorofluoromethane [75-69-4]^	**0.039**		mg/kg dry	1	0.0007	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0006	0.0026	5D13022	EPA 8260B	04/13/15 20:07	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*99 %*	*50-127*	*5D13022*	*EPA 8260B*	*04/13/15 20:07*	*MSZ*	
Dibromofluoromethane	*58*	*1*	*50.0*	*116 %*	*52-128*	*5D13022*	*EPA 8260B*	*04/13/15 20:07*	*MSZ*	
Toluene-d8	*55*	*1*	*50.0*	*111 %*	*57-124*	*5D13022*	*EPA 8260B*	*04/13/15 20:07*	*MSZ*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	5	10	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	5	1.0	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	5	1.0	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	5	0.84	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	5	0.84	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	5	0.74	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	5	1.3	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	5	1.3	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	5	0.87	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	5	0.96	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	5	0.87	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	5	0.78	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	5	1.0	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	5	0.87	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	5	0.78	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	5	0.93	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	5	0.96	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	5	0.81	12	5D08043	EPA 8270D	04/20/15 20:58	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	5	3.0	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	5	1.1	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	5	0.84	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	5	1.0	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	5	2.9	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	5	0.81	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	5	1.6	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	5	0.96	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	5	0.87	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	5	0.87	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	5	1.0	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	5	1.2	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Atrazine [1912-24-9]^	ND		mg/kg dry	5	10	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	5	10	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	5	0.87	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	5	1.0	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	

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ANALYTICAL RESULTS

Description:	SB-A2 (5.0-7.5 ft)	**Lab Sample ID:**	C503663-03	**Received:**	04/08/15 09:15
Matrix:	Soil	**Sampled:**	04/07/15 14:25	**Work Order:**	C503663
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	32.22

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	5	0.56	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	5	1.5	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	5	1.0	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	5	0.78	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	5	1.3	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	5	0.74	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	**89**	D	mg/kg dry	5	1.1	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Butylbenzylphthalate [85-68-7]^	**2.4**	JD	mg/kg dry	5	1.2	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	5	10	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	5	1.0	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	5	0.93	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	5	1.6	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	5	0.84	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	5	0.87	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	5	1.0	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	5	1.3	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	5	1.0	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	5	1.1	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	5	0.90	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	5	0.81	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	5	0.81	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	5	1.2	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	5	0.65	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	5	1.5	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	5	0.93	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Naphthalene [91-20-3]^	**1.2**	JD	mg/kg dry	5	0.87	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	5	0.81	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	5	2.5	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	5	1.7	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	5	1.0	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	5	0.84	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	5	0.68	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	
Pyrene [129-00-0]^	ND		mg/kg dry	5	1.2	10	5D08043	EPA 8270D	04/20/15 20:58	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*9.5*	*5*	*10.3*	*92 %*	*28-130*	*5D08043*	*EPA 8270D*	*04/20/15 20:58*	*DFM*	
2-Fluorobiphenyl	*3.8*	*5*	*5.17*	*74 %*	*49-105*	*5D08043*	*EPA 8270D*	*04/20/15 20:58*	*DFM*	
2-Fluorophenol	*7.6*	*5*	*10.3*	*74 %*	*28-95*	*5D08043*	*EPA 8270D*	*04/20/15 20:58*	*DFM*	
Nitrobenzene-d5	*4.2*	*5*	*5.17*	*81 %*	*50-117*	*5D08043*	*EPA 8270D*	*04/20/15 20:58*	*DFM*	
Phenol-d5	*8.3*	*5*	*10.3*	*81 %*	*21-184*	*5D08043*	*EPA 8270D*	*04/20/15 20:58*	*DFM*	
Terphenyl-d14	*3.1*	*5*	*5.17*	*60 %*	*54-124*	*5D08043*	*EPA 8270D*	*04/20/15 20:58*	*DFM*	

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ANALYTICAL RESULTS

Description:	SB-A2 (5.0-7.5 ft)	**Lab Sample ID:**	C503663-03	**Received:**	04/08/15 09:15
Matrix:	Soil	**Sampled:**	04/07/15 14:25	**Work Order:**	C503663
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	32.22

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	**0.0894**		mg/kg dry	1	0.0149	0.0520	5D21018	EPA 7471B	04/22/15 14:39	T1D	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**320**	D	mg/kg dry	10	12	26	5D20006	EPA 350.1	04/21/15 14:43	SHA	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	5.3	26	5D20007	EPA 9056A	04/20/15 20:29	AJB	
Sulfate as SO4 [14808-79-8]	**120**	J	mg/kg dry	1	74	130	5D20007	EPA 9056A	04/20/15 20:29	AJB	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	**0.00964**		mg/kg dry	1	0.00187	0.00622	5D14011	EPA 8260C	04/14/15 14:35	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.31*	*1*	*5.00*	*86 %*	*70-130*	*5D14011*	*EPA 8260C*	*04/14/15 14:35*	*rgg*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	10	3.00	7.51	5D14025	EPA 6020A	04/15/15 10:47	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	10	7.66	15.0	5D14025	EPA 6020A	04/15/15 10:47	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	10	1.50	30.0	5D14025	EPA 6020A	04/15/15 10:47	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	10	1.95	15.0	5D14025	EPA 6020A	04/15/15 10:47	JMA	R-01
Chromium [7440-47-3]^	**12.5**	JD	mg/kg dry	10	8.26	75.1	5D14025	EPA 6020A	04/15/15 10:47	JMA	R-01
Copper [7440-50-8]^	**4.41**	JD	mg/kg dry	10	3.30	15.0	5D14025	EPA 6020A	04/15/15 10:47	JMA	R-01
Iron [7439-89-6]^	**7350**	D	mg/kg dry	10	27.0	75.1	5D14025	EPA 6020A	04/15/15 10:47	JMA	R-01
Lead [7439-92-1]^	**20.2**	JD	mg/kg dry	10	3.60	75.1	5D14025	EPA 6020A	04/15/15 10:47	JMA	R-01
Manganese [7439-96-5]^	**16.4**	D	mg/kg dry	10	4.20	15.0	5D14025	EPA 6020A	04/15/15 10:47	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	10	3.75	15.0	5D14025	EPA 6020A	04/15/15 10:47	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	10	13.7	15.0	5D14025	EPA 6020A	04/15/15 10:47	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	10	0.826	7.51	5D14025	EPA 6020A	04/15/15 10:47	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	10	0.556	15.0	5D14025	EPA 6020A	04/15/15 10:47	JMA	R-01
Zinc [7440-66-6]^	**83.5**	D	mg/kg dry	10	19.5	75.1	5D14025	EPA 6020A	04/15/15 10:47	JMA	R-01

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ANALYTICAL RESULTS

Description:	SB-A2 (7.5-10.0 ft)	**Lab Sample ID:**	C503663-04	**Received:**	04/08/15 09:15
Matrix:	Soil	**Sampled:**	04/07/15 14:35	**Work Order:**	C503663
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	87.23

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0009	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0005	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0005	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.015	0.069	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
2-Butanone [78-93-3]^	**0.011**		mg/kg dry	1	0.0009	0.0057	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0009	0.0057	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0007	0.0057	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Acetone [67-64-1]^	**0.23**		mg/kg dry	1	0.0016	0.0057	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0005	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0005	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0004	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Carbon disulfide [75-15-0]^	**0.0026**	J	mg/kg dry	1	0.0004	0.0057	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Chlorobenzene [108-90-7]^	**0.0019**		mg/kg dry	1	0.0002	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	**0.0087**		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0004	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Dichlorodifluoromethane [75-71-8]^	**0.0067**		mg/kg dry	1	0.0005	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Ethylbenzene [100-41-4]^	**0.0035**		mg/kg dry	1	0.0002	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Isopropylbenzene [98-82-8]^	**0.0029**		mg/kg dry	1	0.0002	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	**0.0081**		mg/kg dry	1	0.0004	0.0023	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Methyl acetate [79-20-9]^	**0.040**		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0008	0.0023	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
o-Xylene [95-47-6]^	**0.0036**		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0011	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	

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ANALYTICAL RESULTS

Description: SB-A2 (7.5-10.0 ft)	**Lab Sample ID:** C503663-04	**Received:** 04/08/15 09:15
Matrix: Soil	**Sampled:** 04/07/15 14:35	**Work Order:** C503663
Project: Edgecombe County Landfill	**Sampled By:** Ben Bradley	**% Solids:** 87.23

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0004	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0004	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0004	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Trichlorofluoromethane [75-69-4]^	**0.20**		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0003	0.0011	5D13022	EPA 8260B	04/13/15 20:39	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*107 %*	*50-127*	*5D13022*	*EPA 8260B*	*04/13/15 20:39*	*MSZ*	
Dibromofluoromethane	*58*	*1*	*50.0*	*116 %*	*52-128*	*5D13022*	*EPA 8260B*	*04/13/15 20:39*	*MSZ*	
Toluene-d8	*56*	*1*	*50.0*	*112 %*	*57-124*	*5D13022*	*EPA 8260B*	*04/13/15 20:39*	*MSZ*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.38	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.031	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.031	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.028	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.049	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.049	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	QV-02
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.036	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.029	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.029	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.034	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.036	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.030	0.46	5D08043	EPA 8270D	04/15/15 20:51	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.11	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.041	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.031	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.11	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.030	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.061	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.036	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.044	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.38	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.38	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	

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ANALYTICAL RESULTS

Description:	SB-A2 (7.5-10.0 ft)	**Lab Sample ID:**	C503663-04	**Received:**	04/08/15 09:15
Matrix:	Soil	**Sampled:**	04/07/15 14:35	**Work Order:**	C503663
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	87.23

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.021	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.054	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.029	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.049	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.028	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	**0.045**	J	mg/kg dry	1	0.040	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.046	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.38	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.034	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.058	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.031	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.047	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.041	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.033	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.030	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.030	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.045	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	QV-02
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.024	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.054	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.034	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.030	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.093	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.062	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.031	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.025	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	QL-02
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.044	0.38	5D08043	EPA 8270D	04/15/15 20:51	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.2*	*1*	*3.82*	*84 %*	*28-130*	*5D08043*	*EPA 8270D*	*04/15/15 20:51*	*DFM*	
2-Fluorobiphenyl	*1.4*	*1*	*1.91*	*75 %*	*49-105*	*5D08043*	*EPA 8270D*	*04/15/15 20:51*	*DFM*	
2-Fluorophenol	*2.8*	*1*	*3.82*	*74 %*	*28-95*	*5D08043*	*EPA 8270D*	*04/15/15 20:51*	*DFM*	
Nitrobenzene-d5	*1.4*	*1*	*1.91*	*75 %*	*50-117*	*5D08043*	*EPA 8270D*	*04/15/15 20:51*	*DFM*	
Phenol-d5	*3.1*	*1*	*3.82*	*80 %*	*21-184*	*5D08043*	*EPA 8270D*	*04/15/15 20:51*	*DFM*	
Terphenyl-d14	*1.5*	*1*	*1.91*	*76 %*	*54-124*	*5D08043*	*EPA 8270D*	*04/15/15 20:51*	*DFM*	

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ANALYTICAL RESULTS

Description:	SB-A2 (7.5-10.0 ft)	**Lab Sample ID:**	C503663-04	**Received:**	04/08/15 09:15
Matrix:	Soil	**Sampled:**	04/07/15 14:35	**Work Order:**	C503663
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	87.23

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	**0.0134**	J	mg/kg dry	1	0.00624	0.0217	5D21018	EPA 7471B	04/22/15 14:41	T1D	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**120**	D	mg/kg dry	10	5.2	11	5D20006	EPA 350.1	04/21/15 14:47	SHA	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	2.3	11	5D20007	EPA 9056A	04/20/15 20:47	AJB	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	33	57	5D20007	EPA 9056A	04/20/15 20:47	AJB	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	**0.0138**		mg/kg dry	1	0.00157	0.00523	5D14011	EPA 8260C	04/14/15 15:14	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.36*	*1*	*5.00*	*87 %*	*70-130*	*5D14011*	*EPA 8260C*	*04/14/15 15:14*	*rgg*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	5	1.16	2.89	5D16006	EPA 6020A	04/17/15 09:02	JMA	QM-07
Arsenic [7440-38-2]^	ND		mg/kg dry	5	2.95	5.79	5D16006	EPA 6020A	04/17/15 09:02	JMA	
Beryllium [7440-41-7]^	ND		mg/kg dry	5	0.579	11.6	5D16006	EPA 6020A	04/17/15 09:02	JMA	
Cadmium [7440-43-9]^	ND		mg/kg dry	5	0.753	5.79	5D16006	EPA 6020A	04/17/15 09:02	JMA	
Chromium [7440-47-3]^	**4.23**	JD	mg/kg dry	5	3.18	28.9	5D16006	EPA 6020A	04/17/15 09:02	JMA	
Copper [7440-50-8]^	ND		mg/kg dry	5	1.27	5.79	5D16006	EPA 6020A	04/17/15 09:02	JMA	
Iron [7439-89-6]^	**3360**	D	mg/kg dry	5	10.4	28.9	5D16006	EPA 6020A	04/17/15 09:02	JMA	QM-08, QM-17
Lead [7439-92-1]^	**3.34**	JD	mg/kg dry	5	1.39	28.9	5D16006	EPA 6020A	04/17/15 09:02	JMA	
Manganese [7439-96-5]^	**16.7**	D	mg/kg dry	5	1.62	5.79	5D16006	EPA 6020A	04/17/15 09:02	JMA	QM-07
Nickel [7440-02-0]^	ND		mg/kg dry	5	1.45	5.79	5D16006	EPA 6020A	04/17/15 09:02	JMA	
Selenium [7782-49-2]^	ND		mg/kg dry	5	5.27	5.79	5D16006	EPA 6020A	04/17/15 09:02	JMA	
Silver [7440-22-4]^	ND		mg/kg dry	5	0.318	2.89	5D16006	EPA 6020A	04/17/15 09:02	JMA	
Thallium [7440-28-0]^	ND		mg/kg dry	5	0.214	5.79	5D16006	EPA 6020A	04/17/15 09:02	JMA	
Zinc [7440-66-6]^	ND		mg/kg dry	5	7.53	28.9	5D16006	EPA 6020A	04/17/15 09:02	JMA	

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ANALYTICAL RESULTS

Description:	Duplicate-3	**Lab Sample ID:**	C503663-05	**Received:**	04/08/15 09:15
Matrix:	Soil	**Sampled:**	04/07/15 13:45	**Work Order:**	C503663
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	86.32

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0004	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0003	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0004	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0004	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0005	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0004	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0004	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0012	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0007	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0004	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0006	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0004	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
1,3-Dichlorobenzene [541-73-1]^	**0.0006**	J	mg/kg dry	1	0.0003	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
1,4-Dichlorobenzene [106-46-7]^	**0.0022**		mg/kg dry	1	0.0003	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.020	0.093	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
2-Butanone [78-93-3]^	**0.031**		mg/kg dry	1	0.0012	0.0077	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0012	0.0077	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0009	0.0077	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Acetone [67-64-1]^	**0.21**		mg/kg dry	1	0.0022	0.0077	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Benzene [71-43-2]^	**0.0007**	J	mg/kg dry	1	0.0003	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0006	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0004	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0007	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0005	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Carbon disulfide [75-15-0]^	**0.022**		mg/kg dry	1	0.0006	0.0077	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0003	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Chlorobenzene [108-90-7]^	**0.0074**		mg/kg dry	1	0.0003	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0004	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0003	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0003	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0004	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0003	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0003	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0005	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Dichlorodifluoromethane [75-71-8]^	**0.0016**		mg/kg dry	1	0.0007	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Ethylbenzene [100-41-4]^	**0.018**		mg/kg dry	1	0.0003	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Isopropylbenzene [98-82-8]^	**0.0050**		mg/kg dry	1	0.0002	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	**0.020**		mg/kg dry	1	0.0006	0.0031	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0004	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0004	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0011	0.0031	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0005	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
o-Xylene [95-47-6]^	**0.0096**		mg/kg dry	1	0.0003	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0015	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0004	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0004	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	

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ANALYTICAL RESULTS

Description:	Duplicate-3	**Lab Sample ID:**	C503663-05	**Received:**	04/08/15 09:15
Matrix:	Soil	**Sampled:**	04/07/15 13:45	**Work Order:**	C503663
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	86.32

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0006	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0006	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0005	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Trichlorofluoromethane [75-69-4]^	**0.028**		mg/kg dry	1	0.0004	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0004	0.0015	5D13022	EPA 8260B	04/13/15 21:11	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*50-127*	*5D13022*	*EPA 8260B*	*04/13/15 21:11*	*MSZ*	
Dibromofluoromethane	*58*	*1*	*50.0*	*116 %*	*52-128*	*5D13022*	*EPA 8260B*	*04/13/15 21:11*	*MSZ*	
Toluene-d8	*56*	*1*	*50.0*	*113 %*	*57-124*	*5D13022*	*EPA 8260B*	*04/13/15 21:11*	*MSZ*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.38	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.031	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.031	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.028	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.050	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.050	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	QV-02
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.036	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.029	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.029	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.035	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.036	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.030	0.46	5D08043	EPA 8270D	04/15/15 21:19	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.11	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.042	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.031	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.11	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.030	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.061	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.036	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.044	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.38	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.38	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	

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ANALYTICAL RESULTS

Description:	Duplicate-3	**Lab Sample ID:**	C503663-05	**Received:**	04/08/15 09:15
Matrix:	Soil	**Sampled:**	04/07/15 13:45	**Work Order:**	C503663
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	86.32

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.021	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.054	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.029	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.050	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.028	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	**0.16**	J	mg/kg dry	1	0.041	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.046	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.38	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.035	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.059	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.031	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.047	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.042	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.034	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.030	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.030	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.045	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	QV-02
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.024	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.054	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.035	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.030	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.094	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.063	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.031	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.025	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	QL-02
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.044	0.38	5D08043	EPA 8270D	04/15/15 21:19	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.2*	*1*	*3.86*	*84 %*	*28-130*	*5D08043*	*EPA 8270D*	*04/15/15 21:19*	*DFM*	
2-Fluorobiphenyl	*1.4*	*1*	*1.93*	*71 %*	*49-105*	*5D08043*	*EPA 8270D*	*04/15/15 21:19*	*DFM*	
2-Fluorophenol	*2.6*	*1*	*3.86*	*66 %*	*28-95*	*5D08043*	*EPA 8270D*	*04/15/15 21:19*	*DFM*	
Nitrobenzene-d5	*1.3*	*1*	*1.93*	*68 %*	*50-117*	*5D08043*	*EPA 8270D*	*04/15/15 21:19*	*DFM*	
Phenol-d5	*2.7*	*1*	*3.86*	*71 %*	*21-184*	*5D08043*	*EPA 8270D*	*04/15/15 21:19*	*DFM*	
Terphenyl-d14	*1.5*	*1*	*1.93*	*76 %*	*54-124*	*5D08043*	*EPA 8270D*	*04/15/15 21:19*	*DFM*	

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ANALYTICAL RESULTS

Description:	Duplicate-3	**Lab Sample ID:**	C503663-05	**Received:**	04/08/15 09:15
Matrix:	Soil	**Sampled:**	04/07/15 13:45	**Work Order:**	C503663
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	86.32

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	**0.0164**	J	mg/kg dry	1	0.00799	0.0278	5D21018	EPA 7471B	04/22/15 14:49	T1D	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**190**	D	mg/kg dry	10	5.2	12	5D20006	EPA 350.1	04/21/15 14:50	SHA	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	2.4	12	5D20007	EPA 9056A	04/20/15 21:41	AJB	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	33	58	5D20007	EPA 9056A	04/20/15 21:41	AJB	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	**0.0141**		mg/kg dry	1	0.00303	0.0101	5D14011	EPA 8260C	04/14/15 15:51	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.26*	*1*	*5.00*	*85 %*	*70-130*	*5D14011*	*EPA 8260C*	*04/14/15 15:51*	*rgg*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	5	1.16	2.89	5D16006	EPA 6020A	04/17/15 09:25	JMA	
Arsenic [7440-38-2]^	ND		mg/kg dry	5	2.95	5.78	5D16006	EPA 6020A	04/17/15 09:25	JMA	
Beryllium [7440-41-7]^	ND		mg/kg dry	5	0.578	11.6	5D16006	EPA 6020A	04/17/15 09:25	JMA	
Cadmium [7440-43-9]^	ND		mg/kg dry	5	0.751	5.78	5D16006	EPA 6020A	04/17/15 09:25	JMA	
Chromium [7440-47-3]^	**4.33**	JD	mg/kg dry	5	3.18	28.9	5D16006	EPA 6020A	04/17/15 09:25	JMA	
Copper [7440-50-8]^	ND		mg/kg dry	5	1.27	5.78	5D16006	EPA 6020A	04/17/15 09:25	JMA	
Iron [7439-89-6]^	**3870**	D	mg/kg dry	5	10.4	28.9	5D16006	EPA 6020A	04/17/15 09:25	JMA	
Lead [7439-92-1]^	**4.77**	JD	mg/kg dry	5	1.39	28.9	5D16006	EPA 6020A	04/17/15 09:25	JMA	
Manganese [7439-96-5]^	**6.66**	D	mg/kg dry	5	1.62	5.78	5D16006	EPA 6020A	04/17/15 09:25	JMA	
Nickel [7440-02-0]^	ND		mg/kg dry	5	1.44	5.78	5D16006	EPA 6020A	04/17/15 09:25	JMA	
Selenium [7782-49-2]^	ND		mg/kg dry	5	5.26	5.78	5D16006	EPA 6020A	04/17/15 09:25	JMA	
Silver [7440-22-4]^	ND		mg/kg dry	5	0.318	2.89	5D16006	EPA 6020A	04/17/15 09:25	JMA	
Thallium [7440-28-0]^	ND		mg/kg dry	5	0.214	5.78	5D16006	EPA 6020A	04/17/15 09:25	JMA	
Zinc [7440-66-6]^	ND		mg/kg dry	5	7.51	28.9	5D16006	EPA 6020A	04/17/15 09:25	JMA	

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ANALYTICAL RESULTS

Description: Trip Blank | **Lab Sample ID:** C503663-06 | **Received:** 04/08/15 09:15

Matrix: Water | **Sampled:** 04/07/15 00:00 | **Work Order:** C503663

Project: Edgecombe County Landfill | **Sampled By:**

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		ug/L	1	0.12	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		ug/L	1	0.28	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		ug/L	1	0.14	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		ug/L	1	0.13	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		ug/L	1	0.21	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		ug/L	1	0.01	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		ug/L	1	0.14	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		ug/L	1	0.48	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		ug/L	1	0.66	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		ug/L	1	0.19	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		ug/L	1	0.21	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		ug/L	1	0.10	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		ug/L	1	0.15	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		ug/L	1	0.19	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
1,4-Dioxane [123-91-1]^	ND		ug/L	1	25	60	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
2-Butanone [78-93-3]^	ND		ug/L	1	1.3	5.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
2-Hexanone [591-78-6]^	ND		ug/L	1	0.88	5.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		ug/L	1	1.1	5.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Acetone [67-64-1]^	ND		ug/L	1	1.2	5.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Benzene [71-43-2]^	ND		ug/L	1	0.15	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Bromochloromethane [74-97-5]^	ND		ug/L	1	0.48	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Bromodichloromethane [75-27-4]^	ND		ug/L	1	0.17	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Bromoform [75-25-2]^	ND		ug/L	1	0.22	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Bromomethane [74-83-9]^	ND		ug/L	1	0.14	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Carbon disulfide [75-15-0]^	ND		ug/L	1	1.5	5.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		ug/L	1	0.17	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Chlorobenzene [108-90-7]^	ND		ug/L	1	0.17	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Chloroethane [75-00-3]^	ND		ug/L	1	0.23	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Chloroform [67-66-3]^	ND		ug/L	1	0.18	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Chloromethane [74-87-3]^	ND		ug/L	1	0.13	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		ug/L	1	0.15	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		ug/L	1	0.20	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Cyclohexane [110-82-7]^	ND		ug/L	1	0.36	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Dibromochloromethane [124-48-1]^	ND		ug/L	1	0.17	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		ug/L	1	0.20	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Ethylbenzene [100-41-4]^	ND		ug/L	1	0.13	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Freon 113 [76-13-1]^	ND		ug/L	1	0.35	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Isopropylbenzene [98-82-8]^	ND		ug/L	1	0.14	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		ug/L	1	0.17	2.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Methyl acetate [79-20-9]^	ND		ug/L	1	0.51	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Methyl cyclohexane [108-87-2]^	ND		ug/L	1	0.54	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Methylene Chloride [75-09-2]^	ND		ug/L	1	0.23	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		ug/L	1	0.16	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
o-Xylene [95-47-6]^	ND		ug/L	1	0.06	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Styrene [100-42-5]^	ND		ug/L	1	0.11	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Tetrachloroethene [127-18-4]^	ND		ug/L	1	0.17	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Toluene [108-88-3]^	ND		ug/L	1	0.14	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	

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ANALYTICAL RESULTS

Description:	Trip Blank	**Lab Sample ID:**	C503663-06	**Received:**	04/08/15 09:15
Matrix:	Water	**Sampled:**	04/07/15 00:00	**Work Order:**	C503663
Project:	Edgecombe County Landfill	**Sampled By:**			

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		ug/L	1	0.21	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		ug/L	1	0.15	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Trichloroethene [79-01-6]^	ND		ug/L	1	0.15	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		ug/L	1	0.24	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	
Vinyl chloride [75-01-4]^	ND		ug/L	1	0.32	1.0	5D15027	EPA 8260B	04/16/15 15:30	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*108 %*	*53-136*	*5D15027*	*EPA 8260B*	*04/16/15 15:30*	*MSZ*	
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*67-129*	*5D15027*	*EPA 8260B*	*04/16/15 15:30*	*MSZ*	
Toluene-d8	*55*	*1*	*50.0*	*110 %*	*59-134*	*5D15027*	*EPA 8260B*	*04/16/15 15:30*	*MSZ*	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	ND		ug/L	1	1.20	2.00	5D15016	EPA 8260C	04/15/15 18:43	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.44*	*1*	*5.00*	*89 %*	*79-127*	*5D15016*	*EPA 8260C*	*04/15/15 18:43*	*rgg*	

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D13022 - EPA 5035_MS

Blank (5D13022-BLK1) Prepared: 04/13/2015 10:30 Analyzed: 04/13/2015 12:12

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.0002	U	0.0010	mg/kg wet							
1,1,2-Trichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1-Dichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1-Dichloroethene	0.0003	U	0.0010	mg/kg wet							
1,2,3-Trichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2,4-Trichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.0008	U	0.0010	mg/kg wet							
1,2-Dibromoethane	0.0005	U	0.0010	mg/kg wet							
1,2-Dichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2-Dichloroethane	0.0004	U	0.0010	mg/kg wet							
1,2-Dichloropropane	0.0003	U	0.0010	mg/kg wet							
1,3-Dichlorobenzene	0.0002	U	0.0010	mg/kg wet							
1,4-Dichlorobenzene	0.0002	U	0.0010	mg/kg wet							
1,4-Dioxane	0.013	U	0.060	mg/kg wet							
2-Butanone	0.0008	U	0.0050	mg/kg wet							
2-Hexanone	0.0008	U	0.0050	mg/kg wet							
4-Methyl-2-pentanone	0.0006	U	0.0050	mg/kg wet							
Acetone	0.0014	U	0.0050	mg/kg wet							
Benzene	0.0002	U	0.0010	mg/kg wet							
Bromochloromethane	0.0004	U	0.0010	mg/kg wet							
Bromodichloromethane	0.0002	U	0.0010	mg/kg wet							
Bromoform	0.0004	U	0.0010	mg/kg wet							
Bromomethane	0.0003	U	0.0010	mg/kg wet							
Carbon disulfide	0.0004	U	0.0050	mg/kg wet							
Carbon Tetrachloride	0.0002	U	0.0010	mg/kg wet							
Chlorobenzene	0.0002	U	0.0010	mg/kg wet							
Chloroethane	0.0002	U	0.0010	mg/kg wet							
Chloroform	0.0002	U	0.0010	mg/kg wet							
Chloromethane	0.0002	U	0.0010	mg/kg wet							
cis-1,2-Dichloroethene	0.0002	U	0.0010	mg/kg wet							
cis-1,3-Dichloropropene	0.0002	U	0.0010	mg/kg wet							
Cyclohexane	0.0002	U	0.0010	mg/kg wet							
Dibromochloromethane	0.0004	U	0.0010	mg/kg wet							
Dichlorodifluoromethane	0.0004	U	0.0010	mg/kg wet							
Ethylbenzene	0.0002	U	0.0010	mg/kg wet							
Freon 113	0.0002	U	0.0010	mg/kg wet							
Isopropylbenzene	0.0002	U	0.0010	mg/kg wet							
m,p-Xylenes	0.0004	U	0.0020	mg/kg wet							
Methyl acetate	0.0002	U	0.0010	mg/kg wet							
Methyl cyclohexane	0.0003	U	0.0010	mg/kg wet							
Methylene Chloride	0.0007	U	0.0020	mg/kg wet							
Methyl-tert-Butyl Ether	0.0003	U	0.0010	mg/kg wet							
o-Xylene	0.0002	U	0.0010	mg/kg wet							
Styrene	0.0010	U	0.0010	mg/kg wet							
Tetrachloroethene	0.0003	U	0.0010	mg/kg wet							
Toluene	0.0002	U	0.0010	mg/kg wet							
trans-1,2-Dichloroethene	0.0004	U	0.0010	mg/kg wet							
trans-1,3-Dichloropropene	0.0004	U	0.0010	mg/kg wet							

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D13022 - EPA 5035_MS - Continued

Blank (5D13022-BLK1) Continued Prepared: 04/13/2015 10:30 Analyzed: 04/13/2015 12:12

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	0.0003	U	0.0010	mg/kg wet							
Trichlorofluoromethane	0.0003	U	0.0010	mg/kg wet							
Vinyl chloride	0.0002	U	0.0010	mg/kg wet							
4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*95*	*50-127*			
Dibromofluoromethane	*53*			*ug/L*	*50.0*		*106*	*52-128*			
Toluene-d8	*55*			*ug/L*	*50.0*		*110*	*57-124*			

LCS (5D13022-BS1) Prepared: 04/13/2015 10:30 Analyzed: 04/13/2015 12:43

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	0.025		0.0010	mg/kg wet	0.0200		123	64-133			
Benzene	0.022		0.0010	mg/kg wet	0.0200		112	79-129			
Chlorobenzene	0.020		0.0010	mg/kg wet	0.0200		102	79-121			
Toluene	0.018		0.0010	mg/kg wet	0.0200		91	77-120			
Trichloroethene	0.022		0.0010	mg/kg wet	0.0200		110	78-118			
4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*95*	*50-127*			
Dibromofluoromethane	*51*			*ug/L*	*50.0*		*103*	*52-128*			
Toluene-d8	*53*			*ug/L*	*50.0*		*107*	*57-124*			

Matrix Spike (5D13022-MS1) Prepared: 04/13/2015 10:30 Analyzed: 04/13/2015 13:15

Source: C504470-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	0.025		0.0010	mg/kg wet	0.0200	0.0003 U	125	64-133			
Benzene	0.023		0.0010	mg/kg wet	0.0200	0.0002 U	114	79-129			
Chlorobenzene	0.022		0.0010	mg/kg wet	0.0200	0.0002 U	108	79-121			
Toluene	0.019		0.0010	mg/kg wet	0.0200	0.0002 U	93	77-120			
Trichloroethene	0.023		0.0010	mg/kg wet	0.0200	0.0003 U	114	78-118			
4-Bromofluorobenzene	*49*			*ug/L*	*50.0*		*99*	*50-127*			
Dibromofluoromethane	*54*			*ug/L*	*50.0*		*107*	*52-128*			
Toluene-d8	*55*			*ug/L*	*50.0*		*110*	*57-124*			

Matrix Spike Dup (5D13022-MSD1) Prepared: 04/13/2015 10:30 Analyzed: 04/13/2015 13:47

Source: C504470-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	0.025		0.0010	mg/kg wet	0.0200	0.0003 U	125	64-133	0.2	23	
Benzene	0.023		0.0010	mg/kg wet	0.0200	0.0002 U	114	79-129	0.3	23	
Chlorobenzene	0.021		0.0010	mg/kg wet	0.0200	0.0002 U	104	79-121	4	25	
Toluene	0.018		0.0010	mg/kg wet	0.0200	0.0002 U	92	77-120	0.7	23	
Trichloroethene	0.023		0.0010	mg/kg wet	0.0200	0.0003 U	113	78-118	1	24	
4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*97*	*50-127*			
Dibromofluoromethane	*51*			*ug/L*	*50.0*		*102*	*52-128*			
Toluene-d8	*56*			*ug/L*	*50.0*		*111*	*57-124*			

Batch 5D15023 - EPA 5035_MS

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D15023 - EPA 5035_MS - Continued

Blank (5D15023-BLK1) Prepared: 04/15/2015 14:44 Analyzed: 04/15/2015 15:01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.0002	U	0.0010	mg/kg wet							
1,1,2-Trichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1-Dichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1-Dichloroethene	0.0003	U	0.0010	mg/kg wet							
1,2,3-Trichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2,4-Trichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.0008	U	0.0010	mg/kg wet							
1,2-Dibromoethane	0.0005	U	0.0010	mg/kg wet							
1,2-Dichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2-Dichloroethane	0.0004	U	0.0010	mg/kg wet							
1,2-Dichloropropane	0.0003	U	0.0010	mg/kg wet							
1,3-Dichlorobenzene	0.0002	U	0.0010	mg/kg wet							
1,4-Dichlorobenzene	0.0002	U	0.0010	mg/kg wet							
1,4-Dioxane	0.013	U	0.060	mg/kg wet							
2-Butanone	0.0008	U	0.0050	mg/kg wet							
2-Hexanone	0.0008	U	0.0050	mg/kg wet							
4-Methyl-2-pentanone	0.0006	U	0.0050	mg/kg wet							
Acetone	0.0014	U	0.0050	mg/kg wet							
Benzene	0.0002	U	0.0010	mg/kg wet							
Bromochloromethane	0.0004	U	0.0010	mg/kg wet							
Bromodichloromethane	0.0002	U	0.0010	mg/kg wet							
Bromoform	0.0004	U	0.0010	mg/kg wet							
Bromomethane	0.0003	U	0.0010	mg/kg wet							
Carbon disulfide	0.0004	U	0.0050	mg/kg wet							
Carbon Tetrachloride	0.0002	U	0.0010	mg/kg wet							
Chlorobenzene	0.0002	U	0.0010	mg/kg wet							
Chloroethane	0.0002	U	0.0010	mg/kg wet							
Chloroform	0.0002	U	0.0010	mg/kg wet							
Chloromethane	0.0002	U	0.0010	mg/kg wet							
cis-1,2-Dichloroethene	0.0002	U	0.0010	mg/kg wet							
cis-1,3-Dichloropropene	0.0002	U	0.0010	mg/kg wet							
Cyclohexane	0.0002	U	0.0010	mg/kg wet							
Dibromochloromethane	0.0004	U	0.0010	mg/kg wet							
Dichlorodifluoromethane	0.0004	U	0.0010	mg/kg wet							
Ethylbenzene	0.0002	U	0.0010	mg/kg wet							
Freon 113	0.0002	U	0.0010	mg/kg wet							
Isopropylbenzene	0.0002	U	0.0010	mg/kg wet							
m,p-Xylenes	0.0004	U	0.0020	mg/kg wet							
Methyl acetate	0.0002	U	0.0010	mg/kg wet							
Methyl cyclohexane	0.0003	U	0.0010	mg/kg wet							
Methylene Chloride	0.0007	U	0.0020	mg/kg wet							
Methyl-tert-Butyl Ether	0.0003	U	0.0010	mg/kg wet							
o-Xylene	0.0002	U	0.0010	mg/kg wet							
Styrene	0.0010	U	0.0010	mg/kg wet							
Tetrachloroethene	0.0003	U	0.0010	mg/kg wet							
Toluene	0.0002	U	0.0010	mg/kg wet							
trans-1,2-Dichloroethene	0.0004	U	0.0010	mg/kg wet							
trans-1,3-Dichloropropene	0.0004	U	0.0010	mg/kg wet							

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D15023 - EPA 5035_MS - Continued

Blank (5D15023-BLK1) Continued Prepared: 04/15/2015 14:44 Analyzed: 04/15/2015 15:01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	0.0003	U	0.0010	mg/kg wet							
Trichlorofluoromethane	0.0003	U	0.0010	mg/kg wet							
Vinyl chloride	0.0002	U	0.0010	mg/kg wet							
4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*95*	*50-127*			
Dibromofluoromethane	*64*			*ug/L*	*50.0*		*128*	*52-128*			
Toluene-d8	*59*			*ug/L*	*50.0*		*119*	*57-124*			

LCS (5D15023-BS1) Prepared: 04/15/2015 14:44 Analyzed: 04/15/2015 15:33

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	0.025		0.0010	mg/kg wet	0.0200		126	64-133			
Benzene	0.026		0.0010	mg/kg wet	0.0200		129	79-129			
Chlorobenzene	0.022		0.0010	mg/kg wet	0.0200		111	79-121			
Toluene	0.019		0.0010	mg/kg wet	0.0200		95	77-120			
Trichloroethene	0.024		0.0010	mg/kg wet	0.0200		122	78-118			QL-02
4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*93*	*50-127*			
Dibromofluoromethane	*54*			*ug/L*	*50.0*		*108*	*52-128*			
Toluene-d8	*57*			*ug/L*	*50.0*		*113*	*57-124*			

Matrix Spike (5D15023-MS1) Prepared: 04/15/2015 14:44 Analyzed: 04/15/2015 16:05

Source: C504649-09

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	0.027		0.0010	mg/kg wet	0.0200	0.0003 U	136	64-133			QM-07
Benzene	0.026		0.0010	mg/kg wet	0.0200	0.0002 U	129	79-129			
Chlorobenzene	0.023		0.0010	mg/kg wet	0.0200	0.0002 U	116	79-121			
Toluene	0.020		0.0010	mg/kg wet	0.0200	0.0002 U	100	77-120			
Trichloroethene	0.025		0.0010	mg/kg wet	0.0200	0.0003 U	123	78-118			QM-07
4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*50-127*			
Dibromofluoromethane	*58*			*ug/L*	*50.0*		*116*	*52-128*			
Toluene-d8	*57*			*ug/L*	*50.0*		*113*	*57-124*			

Matrix Spike Dup (5D15023-MSD1) Prepared: 04/15/2015 14:44 Analyzed: 04/15/2015 16:37

Source: C504649-09

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	0.029		0.0010	mg/kg wet	0.0200	0.0003 U	143	64-133	5	23	QM-07
Benzene	0.026		0.0010	mg/kg wet	0.0200	0.0002 U	131	79-129	2	23	QM-07
Chlorobenzene	0.023		0.0010	mg/kg wet	0.0200	0.0002 U	114	79-121	2	25	
Toluene	0.020		0.0010	mg/kg wet	0.0200	0.0002 U	102	77-120	2	23	
Trichloroethene	0.027		0.0010	mg/kg wet	0.0200	0.0003 U	133	78-118	7	24	QM-07
4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*50-127*			
Dibromofluoromethane	*59*			*ug/L*	*50.0*		*119*	*52-128*			
Toluene-d8	*57*			*ug/L*	*50.0*		*115*	*57-124*			

Batch 5D15027 - EPA 5030B_MS

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D15027 - EPA 5030B_MS - Continued

Blank (5D15027-BLK1) Prepared: 04/15/2015 15:37 Analyzed: 04/16/2015 13:05

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.01	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
1,4-Dioxane	25	U	60	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon Tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Cyclohexane	0.36	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Freon 113	0.35	U	1.0	ug/L							
Isopropylbenzene	0.14	U	1.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methyl acetate	0.51	U	1.0	ug/L							
Methyl cyclohexane	0.54	U	1.0	ug/L							
Methylene Chloride	0.23	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.16	U	1.0	ug/L							
o-Xylene	0.06	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D15027 - EPA 5030B_MS - Continued

Blank (5D15027-BLK1) Continued Prepared: 04/15/2015 15:37 Analyzed: 04/16/2015 13:05

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
4-Bromofluorobenzene	*56*			*ug/L*	*50.0*		*112*	*53-136*			
Dibromofluoromethane	*53*			*ug/L*	*50.0*		*107*	*67-129*			
Toluene-d8	*55*			*ug/L*	*50.0*		*109*	*59-134*			

LCS (5D15027-BS1) Prepared: 04/15/2015 15:37 Analyzed: 04/16/2015 14:03

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0		97	75-133			
Benzene	19		1.0	ug/L	20.0		97	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		102	83-117			
Cyclohexane	17		1.0	ug/L	20.0		84	0-200			
Methyl acetate	23		1.0	ug/L	20.0		113	0-200			
Methyl cyclohexane	20		1.0	ug/L	20.0		98	0-200			
Toluene	18		1.0	ug/L	20.0		90	71-118			
Trichloroethene	24		1.0	ug/L	20.0		118	74-119			
4-Bromofluorobenzene	*59*			*ug/L*	*50.0*		*118*	*53-136*			
Dibromofluoromethane	*52*			*ug/L*	*50.0*		*105*	*67-129*			
Toluene-d8	*56*			*ug/L*	*50.0*		*113*	*59-134*			

Matrix Spike (5D15027-MS1) Prepared: 04/15/2015 15:37 Analyzed: 04/16/2015 13:34

Source: C504649-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.21 U	106	75-133			
Benzene	20		1.0	ug/L	20.0	0.15 U	99	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	100	83-117			
Cyclohexane	17		1.0	ug/L	20.0	0.36 U	86	0-200			
Methyl acetate	23		1.0	ug/L	20.0	0.51 U	113	0-200			
Methyl cyclohexane	19		1.0	ug/L	20.0	0.54 U	96	0-200			
Toluene	18		1.0	ug/L	20.0	0.14 U	89	71-118			
Trichloroethene	25		1.0	ug/L	20.0	0.15 U	126	74-119			QM-07
4-Bromofluorobenzene	*58*			*ug/L*	*50.0*		*117*	*53-136*			
Dibromofluoromethane	*51*			*ug/L*	*50.0*		*103*	*67-129*			
Toluene-d8	*55*			*ug/L*	*50.0*		*110*	*59-134*			

Matrix Spike Dup (5D15027-MSD1) Prepared: 04/15/2015 15:37 Analyzed: 04/16/2015 14:32

Source: C504649-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.21 U	99	75-133	6	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	94	81-134	5	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	98	83-117	3	16	
Cyclohexane	16		1.0	ug/L	20.0	0.36 U	81	0-200	7	50	
Methyl acetate	23		1.0	ug/L	20.0	0.51 U	113	0-200	0.4	50	
Methyl cyclohexane	17		1.0	ug/L	20.0	0.54 U	87	0-200	10	50	
Toluene	18		1.0	ug/L	20.0	0.14 U	88	71-118	0.8	17	

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D15027 - EPA 5030B_MS - Continued

Matrix Spike Dup (5D15027-MSD1) Continued Prepared: 04/15/2015 15:37 Analyzed: 04/16/2015 14:32

Source: C504649-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	24		1.0	ug/L	20.0	0.15 U	120	74-119	5	22	QM-07
4-Bromofluorobenzene	*59*			*ug/L*	*50.0*		*118*	*53-136*			
Dibromofluoromethane	*53*			*ug/L*	*50.0*		*106*	*67-129*			
Toluene-d8	*57*			*ug/L*	*50.0*		*115*	*59-134*			

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5D08043 - EPA 3550C_MS

Blank (5D08043-BLK1) Prepared: 04/09/2015 13:30 Analyzed: 04/15/2015 18:57

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1'-Biphenyl	0.33	U	0.33	mg/kg wet							
1,2,4,5-Tetrachlorobenzene	0.033	U	0.33	mg/kg wet							
2,3,4,6-Tetrachlorophenol	0.033	U	0.33	mg/kg wet							
2,4,5-Trichlorophenol	0.027	U	0.33	mg/kg wet							
2,4,6-Trichlorophenol	0.027	U	0.33	mg/kg wet							
2,4-Dichlorophenol	0.024	U	0.33	mg/kg wet							
2,4-Dimethylphenol	0.043	U	0.33	mg/kg wet							
2,4-Dinitrophenol	0.043	U	0.33	mg/kg wet							QV-02
2,4-Dinitrotoluene	0.028	U	0.33	mg/kg wet							
2,6-Dinitrotoluene	0.031	U	0.33	mg/kg wet							
2-Chloronaphthalene	0.028	U	0.33	mg/kg wet							
2-Chlorophenol	0.025	U	0.33	mg/kg wet							
2-Methyl-4,6-dinitrophenol	0.033	U	0.33	mg/kg wet							
2-Methylnaphthalene	0.028	U	0.33	mg/kg wet							
2-Methylphenol	0.025	U	0.33	mg/kg wet							
2-Nitroaniline	0.030	U	0.33	mg/kg wet							
2-Nitrophenol	0.031	U	0.33	mg/kg wet							
3 & 4-Methylphenol	0.026	U	0.40	mg/kg wet							
3,3'-Dichlorobenzidine	0.098	U	0.33	mg/kg wet							
3-Nitroaniline	0.036	U	0.33	mg/kg wet							
4-Bromophenyl-phenylether	0.027	U	0.33	mg/kg wet							
4-Chloro-3-methylphenol	0.033	U	0.33	mg/kg wet							
4-Chloroaniline	0.093	U	0.33	mg/kg wet							
4-Chlorophenyl-phenylether	0.026	U	0.33	mg/kg wet							
4-Nitroaniline	0.053	U	0.33	mg/kg wet							
4-Nitrophenol	0.031	U	0.33	mg/kg wet							
Acenaphthene	0.028	U	0.33	mg/kg wet							
Acenaphthylene	0.028	U	0.33	mg/kg wet							
Acetophenone	0.033	U	0.33	mg/kg wet							
Anthracene	0.038	U	0.33	mg/kg wet							
Atrazine	0.33	U	0.33	mg/kg wet							
Benzaldehyde	0.33	U	0.33	mg/kg wet							
Benzo(a)anthracene	0.028	U	0.33	mg/kg wet							
Benzo(a)pyrene	0.033	U	0.33	mg/kg wet							
Benzo(b)fluoranthene	0.018	U	0.33	mg/kg wet							
Benzo(g,h,i)perylene	0.047	U	0.33	mg/kg wet							
Benzo(k)fluoranthene	0.033	U	0.33	mg/kg wet							

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5D08043 - EPA 3550C_MS - Continued

Blank (5D08043-BLK1) Continued Prepared: 04/09/2015 13:30 Analyzed: 04/15/2015 18:57

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Bis(2-chloroethoxy)methane	0.025	U	0.33	mg/kg wet							
Bis(2-chloroethyl)ether	0.043	U	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	0.024	U	0.33	mg/kg wet							
Bis(2-ethylhexyl)phthalate	0.035	U	0.33	mg/kg wet							
Butylbenzylphthalate	0.040	U	0.33	mg/kg wet							
Caprolactam	0.33	U	0.33	mg/kg wet							
Carbazole	0.033	U	0.33	mg/kg wet							
Chrysene	0.030	U	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	0.051	U	0.33	mg/kg wet							
Dibenzofuran	0.027	U	0.33	mg/kg wet							
Diethylphthalate	0.028	U	0.33	mg/kg wet							
Dimethylphthalate	0.033	U	0.33	mg/kg wet							
Di-n-butylphthalate	0.041	U	0.33	mg/kg wet							
Di-n-octylphthalate	0.033	U	0.33	mg/kg wet							
Fluoranthene	0.036	U	0.33	mg/kg wet							
Fluorene	0.029	U	0.33	mg/kg wet							
Hexachlorobenzene	0.026	U	0.33	mg/kg wet							
Hexachlorobutadiene	0.026	U	0.33	mg/kg wet							
Hexachlorocyclopentadiene	0.039	U	0.33	mg/kg wet							QV-02
Hexachloroethane	0.021	U	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	0.047	U	0.33	mg/kg wet							
Isophorone	0.030	U	0.33	mg/kg wet							
Naphthalene	0.028	U	0.33	mg/kg wet							
Nitrobenzene	0.026	U	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	0.081	U	0.33	mg/kg wet							
N-nitrosodiphenylamine/Diphenylamine	0.054	U	0.33	mg/kg wet							
Pentachlorophenol	0.033	U	0.33	mg/kg wet							
Phenanthrene	0.027	U	0.33	mg/kg wet							
Phenol	0.022	U	0.33	mg/kg wet							
Pyrene	0.038	U	0.33	mg/kg wet							
2,4,6-Tribromophenol	*2.7*			*mg/kg wet*	*3.33*		*82*	*28-130*			
2-Fluorobiphenyl	*1.2*			*mg/kg wet*	*1.67*		*74*	*49-105*			
2-Fluorophenol	*2.5*			*mg/kg wet*	*3.33*		*74*	*28-95*			
Nitrobenzene-d5	*1.2*			*mg/kg wet*	*1.67*		*74*	*50-117*			
Phenol-d5	*2.6*			*mg/kg wet*	*3.33*		*77*	*21-184*			
Terphenyl-d14	*1.3*			*mg/kg wet*	*1.67*		*77*	*54-124*			

LCS (5D08043-BS1) Prepared: 04/09/2015 13:30 Analyzed: 04/15/2015 19:26

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	1.3		0.33	mg/kg wet	1.67		77	62-95			
4-Chloro-3-methylphenol	1.4		0.33	mg/kg wet	1.67		87	62-108			
4-Nitrophenol	1.5		0.33	mg/kg wet	1.67		92	21-97			
Acenaphthene	1.3		0.33	mg/kg wet	1.67		80	63-101			
Hexachlorocyclopentadiene	0.83		0.33	mg/kg wet	1.67		50	17-111			J-05
N-Nitroso-di-n-propylamine	1.3		0.33	mg/kg wet	1.67		78	57-106			
N-nitrosodiphenylamine/Diphenylamine	1.4		0.33	mg/kg wet	1.67		86	0-200			
Pentachlorophenol	1.2		0.33	mg/kg wet	1.67		72	25-120			
Phenol	1.4		0.33	mg/kg wet	1.67		83	31-78			QL-02

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5D08043 - EPA 3550C_MS - Continued

LCS (5D08043-BS1) Continued Prepared: 04/09/2015 13:30 Analyzed: 04/15/2015 19:26

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2,4,6-Tribromophenol	*3.0*			*mg/kg wet*	*3.33*		*90*	*42-123*			
2-Fluorobiphenyl	*1.3*			*mg/kg wet*	*1.67*		*76*	*49-105*			
2-Fluorophenol	*2.6*			*mg/kg wet*	*3.33*		*77*	*28-95*			
Nitrobenzene-d5	*1.3*			*mg/kg wet*	*1.67*		*77*	*50-117*			
Phenol-d5	*2.7*			*mg/kg wet*	*3.33*		*81*	*21-184*			
Terphenyl-d14	*1.3*			*mg/kg wet*	*1.67*		*77*	*54-124*			

Matrix Spike (5D08043-MS1) Prepared: 04/09/2015 13:30 Analyzed: 04/15/2015 19:54

Source: C503663-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	1.5		0.38	mg/kg dry	1.91	0.029 U	76	62-95			
4-Chloro-3-methylphenol	1.6		0.38	mg/kg dry	1.91	0.038 U	86	62-108			
4-Nitrophenol	1.8		0.38	mg/kg dry	1.91	0.036 U	95	21-97			
Acenaphthene	1.5		0.38	mg/kg dry	1.91	0.032 U	79	63-101			
Hexachlorocyclopentadiene	0.98		0.38	mg/kg dry	1.91	0.045 U	51	17-111			J-05
N-Nitroso-di-n-propylamine	1.5		0.38	mg/kg dry	1.91	0.093 U	77	57-106			
N-nitrosodiphenylamine/Diphenylamine	1.6		0.38	mg/kg dry	1.91	0.062 U	85	0-200			
Pentachlorophenol	1.5		0.38	mg/kg dry	1.91	0.038 U	78	25-120			
Phenol	1.5		0.38	mg/kg dry	1.91	0.025 U	77	31-78			J-02
2,4,6-Tribromophenol	*3.3*			*mg/kg dry*	*3.82*		*87*	*42-123*			
2-Fluorobiphenyl	*1.4*			*mg/kg dry*	*1.91*		*73*	*49-105*			
2-Fluorophenol	*2.8*			*mg/kg dry*	*3.82*		*73*	*28-95*			
Nitrobenzene-d5	*1.4*			*mg/kg dry*	*1.91*		*74*	*50-117*			
Phenol-d5	*3.0*			*mg/kg dry*	*3.82*		*79*	*21-184*			
Terphenyl-d14	*1.4*			*mg/kg dry*	*1.91*		*72*	*54-124*			

Matrix Spike Dup (5D08043-MSD1) Prepared: 04/09/2015 13:30 Analyzed: 04/15/2015 20:22

Source: C503663-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	1.4		0.38	mg/kg dry	1.91	0.029 U	75	62-95	1	28	
4-Chloro-3-methylphenol	1.6		0.38	mg/kg dry	1.91	0.038 U	86	62-108	0.2	39	
4-Nitrophenol	1.8		0.38	mg/kg dry	1.91	0.036 U	96	21-97	0.3	43	
Acenaphthene	1.5		0.38	mg/kg dry	1.91	0.032 U	80	63-101	2	28	
Hexachlorocyclopentadiene	0.87		0.38	mg/kg dry	1.91	0.045 U	45	17-111	12	50	J-05
N-Nitroso-di-n-propylamine	1.5		0.38	mg/kg dry	1.91	0.093 U	77	57-106	0.9	34	
N-nitrosodiphenylamine/Diphenylamine	1.6		0.38	mg/kg dry	1.91	0.062 U	85	0-200	0	200	
Pentachlorophenol	1.5		0.38	mg/kg dry	1.91	0.038 U	78	25-120	0.8	49	
Phenol	1.5		0.38	mg/kg dry	1.91	0.025 U	79	31-78	2	29	J-02
2,4,6-Tribromophenol	*3.5*			*mg/kg dry*	*3.82*		*91*	*42-123*			
2-Fluorobiphenyl	*1.4*			*mg/kg dry*	*1.91*		*75*	*49-105*			
2-Fluorophenol	*2.8*			*mg/kg dry*	*3.82*		*74*	*28-95*			
Nitrobenzene-d5	*1.4*			*mg/kg dry*	*1.91*		*74*	*50-117*			
Phenol-d5	*3.1*			*mg/kg dry*	*3.82*		*80*	*21-184*			
Terphenyl-d14	*1.5*			*mg/kg dry*	*1.91*		*77*	*54-124*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 5D21018 - EPA 7471B

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

QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 5D21018 - EPA 7471B - Continued

Blank (5D21018-BLK1) Prepared: 04/21/2015 11:10 Analyzed: 04/22/2015 14:20

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00690	U	0.0240	mg/kg wet							

LCS (5D21018-BS1) Prepared: 04/21/2015 11:10 Analyzed: 04/22/2015 14:22

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.606		0.0240	mg/kg wet	0.643		94	80-120			

Matrix Spike (5D21018-MS1) Prepared: 04/21/2015 11:10 Analyzed: 04/22/2015 14:26

Source: C503663-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	1.24		0.0321	mg/kg dry	0.801	0.532	89	80-120			

Matrix Spike Dup (5D21018-MSD1) Prepared: 04/21/2015 11:10 Analyzed: 04/22/2015 14:29

Source: C503663-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	1.09		0.0238	mg/kg dry	0.595	0.532	94	80-120	13	20	

Post Spike (5D21018-PS1) Prepared: 04/21/2015 11:10 Analyzed: 04/22/2015 14:31

Source: C503663-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	9.08		0.200	ug/L	5.00	4.47	92	75-125			

Classical Chemistry Parameters - Quality Control

Batch 5D20006 - WETS-88 Soil Leaching

Blank (5D20006-BLK1) Prepared: 04/20/2015 11:57 Analyzed: 04/21/2015 13:41

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	0.45	U	1.0	mg/kg wet							

LCS (5D20006-BS1) Prepared: 04/20/2015 11:57 Analyzed: 04/21/2015 13:43

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	10		1.0	mg/kg wet	9.85		103	90-110			

Matrix Spike (5D20006-MS1) Prepared: 04/20/2015 11:57 Analyzed: 04/21/2015 13:47

Source: C503663-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	5.0		1.2	mg/kg dry	4.56	0.52 U	109	90-110			

Matrix Spike Dup (5D20006-MSD1) Prepared: 04/20/2015 11:57 Analyzed: 04/21/2015 13:49

Source: C503663-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	4.6		1.2	mg/kg dry	4.25	0.52 U	109	90-110	7	10	

Batch 5D20007 - WETS-88 Soil Leaching

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

QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 5D20007 - WETS-88 Soil Leaching - Continued

Blank (5D20007-BLK1) Prepared: 04/20/2015 11:57 Analyzed: 04/20/2015 18:41

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	2.0	U	10	mg/kg wet							
Sulfate as SO4	29	U	50	mg/kg wet							

LCS (5D20007-BS1) Prepared: 04/20/2015 11:57 Analyzed: 04/20/2015 18:59

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	47		10	mg/kg wet	49.5		95	80-120			
Sulfate as SO4	500		50	mg/kg wet	495		100	80-120			

Matrix Spike (5D20007-MS1) Prepared: 04/20/2015 11:57 Analyzed: 04/20/2015 19:17

Source: C503663-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	25		12	mg/kg dry	22.9	4.8	88	80-120			
Sulfate as SO4	220		58	mg/kg dry	229	33 U	97	80-120			

Matrix Spike Dup (5D20007-MSD1) Prepared: 04/20/2015 11:57 Analyzed: 04/20/2015 19:35

Source: C503663-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	24		12	mg/kg dry	21.3	4.8	89	80-120	5	15	
Sulfate as SO4	210		58	mg/kg dry	213	33 U	98	80-120	6	15	

Volatile Organic Compounds by GCMS SIM Isotope Dilution - Quality Control

Batch 5D14011 - EPA 5030B_MS

Blank (5D14011-BLK1) Prepared: 04/14/2015 00:00 Analyzed: 04/14/2015 13:17

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	0.00180	U	0.00600	mg/kg wet							
Toluene-d8	*4.59*			*ug/L*	*5.00*		*92*	*70-130*			

LCS (5D14011-BS1) Prepared: 04/14/2015 00:00 Analyzed: 04/14/2015 10:10

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	0.0749		0.00600	mg/kg wet	0.0750		100	70-130			
Toluene-d8	*4.27*			*ug/L*	*5.00*		*85*	*70-130*			

LCS Dup (5D14011-BSD1) Prepared: 04/14/2015 00:00 Analyzed: 04/14/2015 11:35

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	0.0745		0.00600	mg/kg wet	0.0750		99	70-130	0.6	200	
Toluene-d8	*4.59*			*ug/L*	*5.00*		*92*	*70-130*			

Batch 5D15016 - EPA 5030B_MS

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS SIM Isotope Dilution - Quality Control

Batch 5D15016 - EPA 5030B_MS - Continued

Blank (5D15016-BLK1) Prepared: 04/15/2015 00:00 Analyzed: 04/15/2015 11:07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	1.20	U	2.00	ug/L							
Toluene-d8	*4.30*			*ug/L*	*5.00*		*86*	*79-127*			

LCS (5D15016-BS1) Prepared: 04/15/2015 00:00 Analyzed: 04/15/2015 09:17

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	25.5		2.00	ug/L	25.0		102	80-133			
Toluene-d8	*4.36*			*ug/L*	*5.00*		*87*	*79-127*			

LCS Dup (5D15016-BSD1) Prepared: 04/15/2015 00:00 Analyzed: 04/15/2015 09:52

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	24.5		2.00	ug/L	25.0		98	80-133	4	19	
Toluene-d8	*4.36*			*ug/L*	*5.00*		*87*	*79-127*			

Batch 5D15019 - EPA 5030B_MS

Blank (5D15019-BLK1) Prepared: 04/15/2015 00:00 Analyzed: 04/15/2015 15:42

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	0.00180	U	0.00600	mg/kg wet							
Toluene-d8	*4.16*			*ug/L*	*5.00*		*83*	*70-130*			

LCS (5D15019-BS1) Prepared: 04/15/2015 00:00 Analyzed: 04/15/2015 11:42

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	0.0738		0.00600	mg/kg wet	0.0750		98	70-130			
Toluene-d8	*4.30*			*ug/L*	*5.00*		*86*	*70-130*			

LCS Dup (5D15019-BSD1) Prepared: 04/15/2015 00:00 Analyzed: 04/15/2015 13:03

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	0.0719		0.00600	mg/kg wet	0.0750		96	70-130	3	200	
Toluene-d8	*4.23*			*ug/L*	*5.00*		*85*	*70-130*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 5D14025 - EPA 3050B

Blank (5D14025-BLK1) Prepared: 04/14/2015 13:33 Analyzed: 04/15/2015 09:37

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.200	U	0.500	mg/kg wet							
Arsenic	0.510	U	1.00	mg/kg wet							
Beryllium	0.100	U	2.00	mg/kg wet							
Cadmium	0.130	U	1.00	mg/kg wet							
Chromium	0.550	U	5.00	mg/kg wet							

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QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 5D14025 - EPA 3050B - Continued

Blank (5D14025-BLK1) Continued Prepared: 04/14/2015 13:33 Analyzed: 04/15/2015 09:37

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Copper	0.220	U	1.00	mg/kg wet							
Iron	1.80	U	5.00	mg/kg wet							
Lead	0.240	U	5.00	mg/kg wet							
Manganese	0.280	U	1.00	mg/kg wet							
Nickel	0.250	U	1.00	mg/kg wet							
Selenium	0.910	U	1.00	mg/kg wet							
Silver	0.0550	U	0.500	mg/kg wet							
Thallium	0.0370	U	1.00	mg/kg wet							
Zinc	1.30	U	5.00	mg/kg wet							

LCS (5D14025-BS1) Prepared: 04/14/2015 13:33 Analyzed: 04/15/2015 09:40

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	5.03		0.500	mg/kg wet	5.00		101	80-120			
Arsenic	53.9		1.00	mg/kg wet	50.0		108	80-120			
Beryllium	5.03		2.00	mg/kg wet	5.00		101	80-120			
Cadmium	5.22		1.00	mg/kg wet	5.00		104	80-120			
Chromium	52.9		5.00	mg/kg wet	50.0		106	80-120			
Copper	51.1		1.00	mg/kg wet	50.0		102	80-120			
Iron	105		5.00	mg/kg wet	100		105	80-120			
Lead	51.1		5.00	mg/kg wet	50.0		102	80-120			
Manganese	52.3		1.00	mg/kg wet	50.0		105	80-120			
Nickel	52.5		1.00	mg/kg wet	50.0		105	80-120			
Selenium	53.3		1.00	mg/kg wet	50.0		107	80-120			
Silver	5.29		0.500	mg/kg wet	5.00		106	80-120			
Thallium	5.18		1.00	mg/kg wet	5.00		104	80-120			
Zinc	50.5		5.00	mg/kg wet	50.0		101	80-120			

Matrix Spike (5D14025-MS1) Prepared: 04/14/2015 13:33 Analyzed: 04/15/2015 10:05

Source: C503663-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	24.7	D	5.67	mg/kg dry	5.62	16.3	150	75-125			QM-07, QM-11
Arsenic	55.6	D	11.3	mg/kg dry	56.2	5.78 U	99	75-125			
Beryllium	6.55	JD	22.7	mg/kg dry	5.62	1.13 U	117	75-125			
Cadmium	6.49	JD	11.3	mg/kg dry	5.62	1.47 U	116	75-125			
Chromium	113	D	56.7	mg/kg dry	56.2	45.4	120	75-125			
Copper	145	D	11.3	mg/kg dry	56.2	64.6	144	75-125			QM-07
Iron	5780	D	56.7	mg/kg dry	112	4730	937	75-125			QM-07, QM-11
Lead	88.7	D	56.7	mg/kg dry	56.2	28.3	108	75-125			
Manganese	97.7	D	11.3	mg/kg dry	56.2	35.0	112	75-125			
Nickel	62.7	D	11.3	mg/kg dry	56.2	2.84 U	112	75-125			
Selenium	58.8	D	11.3	mg/kg dry	56.2	10.3 U	105	75-125			
Silver	12.9	D	5.67	mg/kg dry	5.62	6.33	118	75-125			
Thallium	5.80	JD	11.3	mg/kg dry	5.62	0.420 U	103	75-125			
Zinc	133	D	56.7	mg/kg dry	56.2	83.7	88	75-125			

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QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 5D14025 - EPA 3050B - Continued

Matrix Spike Dup (5D14025-MSD1) Prepared: 04/14/2015 13:33 Analyzed: 04/15/2015 10:08

Source: C503663-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	18.8	D	5.67	mg/kg dry	5.56	16.3	46	75-125	27	20	QM-07, QM-11
Arsenic	56.5	D	11.3	mg/kg dry	55.6	5.78 U	102	75-125	2	20	
Beryllium	6.26	JD	22.7	mg/kg dry	5.56	1.13 U	113	75-125	4	20	
Cadmium	5.55	JD	11.3	mg/kg dry	5.56	1.47 U	100	75-125	16	20	
Chromium	101	D	56.7	mg/kg dry	55.6	45.4	101	75-125	11	20	
Copper	120	D	11.3	mg/kg dry	55.6	64.6	100	75-125	19	20	
Iron	4650	D	56.7	mg/kg dry	111	4730	NR	75-125	22	20	QM-07, QM-11
Lead	81.8	D	56.7	mg/kg dry	55.6	28.3	96	75-125	8	20	
Manganese	93.6	D	11.3	mg/kg dry	55.6	35.0	106	75-125	4	20	
Nickel	55.7	D	11.3	mg/kg dry	55.6	2.84 U	100	75-125	12	20	
Selenium	58.9	D	11.3	mg/kg dry	55.6	10.3 U	106	75-125	0.2	20	
Silver	11.5	D	5.67	mg/kg dry	5.56	6.33	93	75-125	12	20	
Thallium	5.63	JD	11.3	mg/kg dry	5.56	0.420 U	101	75-125	3	20	
Zinc	116	D	56.7	mg/kg dry	55.6	83.7	57	75-125	14	20	QM-07

Post Spike (5D14025-PS2) Prepared: 04/15/2015 08:30 Analyzed: 04/15/2015 09:59

Source: C503663-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	5.99		0.500	ug/L	4.90	1.41	94	80-120			
Arsenic	48.2		1.00	ug/L	49.0	0.0405	98	80-120			
Beryllium	5.13		2.00	ug/L	4.90	0.0785	103	80-120			
Cadmium	5.12		1.00	ug/L	4.90	0.0221	104	80-120			
Chromium	53.1		5.00	ug/L	49.0	3.92	100	80-120			
Copper	54.7		1.00	ug/L	49.0	5.58	100	80-120			
Iron	504		5.00	ug/L	98.0	409	97	80-120			
Lead	51.2		5.00	ug/L	49.0	2.45	99	80-120			
Manganese	52.5		1.00	ug/L	49.0	3.02	101	80-120			
Nickel	49.8		1.00	ug/L	49.0	0.0185	102	80-120			
Selenium	47.6		1.00	ug/L	49.0	0.148	97	80-120			
Silver	5.44		0.500	ug/L	4.90	0.547	100	80-120			
Thallium	4.92		1.00	ug/L	4.90	-0.00125	100	80-120			
Zinc	53.8		5.00	ug/L	49.0	7.24	95	80-120			

Batch 5D16006 - EPA 3050B

Blank (5D16006-BLK1) Prepared: 04/16/2015 10:09 Analyzed: 04/17/2015 08:42

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.200	U	0.500	mg/kg wet							
Arsenic	0.510	U	1.00	mg/kg wet							
Beryllium	0.100	U	2.00	mg/kg wet							
Cadmium	0.130	U	1.00	mg/kg wet							
Chromium	0.550	U	5.00	mg/kg wet							
Copper	0.220	U	1.00	mg/kg wet							
Iron	1.80	U	5.00	mg/kg wet							
Lead	0.240	U	5.00	mg/kg wet							
Manganese	0.280	U	1.00	mg/kg wet							
Nickel	0.250	U	1.00	mg/kg wet							

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QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 5D16006 - EPA 3050B - Continued

Blank (5D16006-BLK1) Continued Prepared: 04/16/2015 10:09 Analyzed: 04/17/2015 08:42

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Selenium	0.910	U	1.00	mg/kg wet							
Silver	0.0550	U	0.500	mg/kg wet							
Thallium	0.0370	U	1.00	mg/kg wet							
Zinc	1.30	U	5.00	mg/kg wet							

LCS (5D16006-BS1) Prepared: 04/16/2015 10:09 Analyzed: 04/17/2015 08:45

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	5.25		0.500	mg/kg wet	5.00		105	80-120			
Arsenic	50.6		1.00	mg/kg wet	50.0		101	80-120			
Beryllium	5.34		2.00	mg/kg wet	5.00		107	80-120			
Cadmium	5.25		1.00	mg/kg wet	5.00		105	80-120			
Chromium	53.8		5.00	mg/kg wet	50.0		108	80-120			
Copper	52.4		1.00	mg/kg wet	50.0		105	80-120			
Iron	105		5.00	mg/kg wet	100		105	80-120			
Lead	53.4		5.00	mg/kg wet	50.0		107	80-120			
Manganese	52.6		1.00	mg/kg wet	50.0		105	80-120			
Nickel	52.7		1.00	mg/kg wet	50.0		105	80-120			
Selenium	50.5		1.00	mg/kg wet	50.0		101	80-120			
Silver	5.37		0.500	mg/kg wet	5.00		107	80-120			
Thallium	5.41		1.00	mg/kg wet	5.00		108	80-120			
Zinc	51.3		5.00	mg/kg wet	50.0		103	80-120			

Matrix Spike (5D16006-MS1) Prepared: 04/16/2015 10:09 Analyzed: 04/17/2015 09:06

Source: C503663-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	1.16	UD	2.89	mg/kg dry	5.51	1.16 U		75-125			QM-07
Arsenic	53.3	D	5.79	mg/kg dry	55.1	2.95 U	97	75-125			
Beryllium	5.24	JD	11.6	mg/kg dry	5.51	0.579 U	95	75-125			
Cadmium	5.83	D	5.79	mg/kg dry	5.51	0.753 U	106	75-125			
Chromium	64.4	D	28.9	mg/kg dry	55.1	4.23	109	75-125			
Copper	59.7	D	5.79	mg/kg dry	55.1	1.27 U	108	75-125			
Iron	4680	DE	28.9	mg/kg dry	110	3360	NR	75-125			E, QM-17
Lead	63.1	D	28.9	mg/kg dry	55.1	3.34	108	75-125			
Manganese	90.0	D	5.79	mg/kg dry	55.1	16.7	133	75-125			QM-07
Nickel	59.8	D	5.79	mg/kg dry	55.1	1.45 U	108	75-125			
Selenium	57.4	D	5.79	mg/kg dry	55.1	5.27 U	104	75-125			
Silver	6.05	D	2.89	mg/kg dry	5.51	0.318 U	110	75-125			
Thallium	4.98	JD	5.79	mg/kg dry	5.51	0.214 U	90	75-125			
Zinc	60.4	D	28.9	mg/kg dry	55.1	7.53 U	110	75-125			

Matrix Spike Dup (5D16006-MSD1) Prepared: 04/16/2015 10:09 Analyzed: 04/17/2015 09:09

Source: C503663-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	1.23	JD	2.89	mg/kg dry	5.57	1.16 U	22	75-125		20	QM-07
Arsenic	54.2	D	5.79	mg/kg dry	55.7	2.95 U	97	75-125	2	20	
Beryllium	5.63	JD	11.6	mg/kg dry	5.57	0.579 U	101	75-125	7	20	
Cadmium	5.95	D	5.79	mg/kg dry	5.57	0.753 U	107	75-125	2	20	

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

QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 5D16006 - EPA 3050B - Continued

Matrix Spike Dup (5D16006-MSD1) Continued Prepared: 04/16/2015 10:09 Analyzed: 04/17/2015 09:09

Source: C503663-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chromium	64.1	D	28.9	mg/kg dry	55.7	4.23	108	75-125	0.4	20	
Copper	59.7	D	5.79	mg/kg dry	55.7	1.27 U	107	75-125	0.1	20	
Iron	5200	DE	28.9	mg/kg dry	111	3360	NR	75-125	11	20	E, QM-17
Lead	65.4	D	28.9	mg/kg dry	55.7	3.34	112	75-125	4	20	
Manganese	76.2	D	5.79	mg/kg dry	55.7	16.7	107	75-125	17	20	
Nickel	58.5	D	5.79	mg/kg dry	55.7	1.45 U	105	75-125	2	20	
Selenium	52.8	D	5.79	mg/kg dry	55.7	5.27 U	95	75-125	8	20	
Silver	6.17	D	2.89	mg/kg dry	5.57	0.318 U	111	75-125	2	20	
Thallium	5.59	JD	5.79	mg/kg dry	5.57	0.214 U	100	75-125	12	20	
Zinc	59.4	D	28.9	mg/kg dry	55.7	7.53 U	107	75-125	2	20	

Post Spike (5D16006-PS1) Prepared: 04/17/2015 08:15 Analyzed: 04/17/2015 09:12

Source: C503663-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	4.61		0.500	ug/L	4.90	0.0124	94	80-120			
Arsenic	51.6		1.00	ug/L	49.0	-0.0857	105	80-120			
Beryllium	5.35		2.00	ug/L	4.90	-0.00902	109	80-120			
Cadmium	5.05		1.00	ug/L	4.90	-0.0271	103	80-120			
Chromium	50.9		5.00	ug/L	49.0	0.710	102	80-120			
Copper	50.8		1.00	ug/L	49.0	0.119	103	80-120			
Lead	50.9		5.00	ug/L	49.0	0.560	103	80-120			
Manganese	52.9		1.00	ug/L	49.0	2.80	102	80-120			
Nickel	49.8		1.00	ug/L	49.0	0.129	101	80-120			
Selenium	52.2		1.00	ug/L	49.0	-0.0825	106	80-120			
Silver	5.16		0.500	ug/L	4.90	-0.00471	105	80-120			
Thallium	5.05		1.00	ug/L	4.90	-0.0209	103	80-120			
Zinc	50.5		5.00	ug/L	49.0	0.226	103	80-120			

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FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
ND	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence (85% or greater confidence) to make a "tentative identification".
P	Greater than 25% concentration difference was observed between the primary and secondary GC column. The lower concentration is reported.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
GC-01	Coeluter
J-02	Result is estimated due to bias in the associated laboratory control sample (LCS).
J-05	Result estimated, calibration verification standard failed with low bias.
QL-02	The associated laboratory control sample exhibited high bias; since the result is ND, the impact on data quality is minimal.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QM-17	Matrix spike recovery was outside acceptance limits due to high concentrations of analyte in source sample.
QV-02	The associated continuing calibration verification standard exhibited low bias; the reported result should be considered to be a minimum estimate.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.

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ENVIRONMENTAL CONSERVATION LABORATORIES **CHAIN-OF-CUSTODY RECORD** **www.encolabs.com**

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945
4810 Executive Park Court, Suite 111 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210
102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Page 1 of 1

Client Name: Schnabel Engineering (SH010)	Project Number: 653DP-8
Address: 11-A Oak Branch Drive	Project Name/Desc: Edgecombe County Landfill
City/ST/Zip: Greensboro, NC 27407	PO # / Billing Info:
Tel: (336) 274-9456 Fax:	Reporting Contact: Benjamin Bradley
Sampler(s) Name, Affiliation (Print): Ben Bradley	Billing Contact: Benjamin Bradley
Sampler(s) Signature: Benjamin L Bradley	Site Location / Time Zone:

Requested Analyses: 8260B TCL SOM01.2; 8260B TCL SOM01.2,8260C SIM ID; 8260C SIM ID; Ammonia 350.1

Requested Turnaround Times
Note : Rush requests subject to acceptance by the facility
___ Standard
___ Expedited
Due ___/___/___

Lab Workorder: C503663

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B TCL SOM01.2	8260B TCL SOM01.2,8260C SIM ID	8260C SIM ID	Ammonia 350.1	Sample Comments
	~~SB-A1 (10.0-12.0 ft)~~				SO	7	X	X	X	X	
	SB-A2 (0-2.5 ft)	4-7-15	13:45	G	SO	7	X	X	X	X	
	SB-A2 (2.5-5.0 ft)		14:20		SO	7	X	X	X	X	
	SB-A2 (5.0-7.5 ft)		14:25		SO	7	X	X	X	X	
	SB-A2 (7.5-10.0 ft)		14:35		SO	7	X	X	X	X	
	~~SB-A2 (10.0-12.0 ft)~~				SO	7	X	X	X	X	
	~~SB-A3 (0-2.5 ft)~~				SO	7	X	X	X	X	
	SB-A3 (2.5-5.0 ft)				SO	7	X	X	X	X	
	~~SB-A3 (5.0-7.5 ft)~~				SO	7	X	X	X	X	
	~~SB-A3 7.5-10.0 ft)~~				SO	7	X	X	X	X	
	~~SB-A3 (10.0-12.0 ft)~~				SO	7	X	X	X	X	
	Duplicate-3				SO	7	X	X	X	X	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		Benjamin L Bradley	4-7-15 4:45		
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time 4/7/15 9:15
		Cooler #'s & Temps on Receipt: 1.9°C		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

ENCO Laboratories

Accurate. Timely. Responsive. Innovative.

102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

Friday, April 24, 2015
Schnabel Engineering (SH010)
Attn: Benjamin Bradley
11-A Oak Branch Drive
Greensboro, NC 27407

RE: Laboratory Results for
Project Number: 653DP-8, Project Name/Desc: Edgecombe County Landfill
ENCO Workorder(s): C504553

Dear Benjamin Bradley,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, April 9, 2015.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

PROJECT NARRATIVE

Overview

Environmental Conservation Laboratories, Inc. (ENCO) analyzed all submitted samples in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by ENCO are discussed in the QC Remarks section below.

Quality Control Samples

No Comments

Quality Control Remarks

No Comments

Other Comments

All soil Method 6020 results have been reported at dilutions due to matrix interference.

All acronyms, data flags and notes are defined with the exception of MDL (Method Detection Limit) and PQL (Practical Quantitation Limit). The MDL is a statistical value that represents the minimum level at which the analyte can be detected with 99% confidence. The PQL (or MRL) is the lowest point of the calibration curve. ug/L = micrograms/liter, mg/L = milligrams/liter, RPD = Relative Percent Difference, DF = Dilution Factor, % Rec = Percent Recovery, EPA = United States Environmental Protection Agency.

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative or in the Flags/Notes and Definitions section of the report.

Released By:
Environmental Conservation Laboratories, Inc.

Chuck Smith
Project Manager

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

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SB-A3 (0-2.5 ft) **Lab ID: C504553-01** **Sampled: 04/08/15 11:20** **Received: 04/09/15 09:00**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6020A	10/05/15			04/14/15	17:40	04/15/15 10:54
EPA 7471B	05/06/15			04/21/15	11:10	04/22/15 14:51
EPA 8260B	04/22/15			04/14/15	14:26	04/14/15 21:26
EPA 8260C	04/22/15			04/14/15	00:00	04/14/15 16:30
EPA 8270D	04/22/15	05/19/15		04/09/15	16:30	04/22/15 02:09
EPA 9056A	05/06/15	04/15/15	14:54	04/13/15	14:54	04/14/15 13:07
EPA 9056A	05/06/15	05/11/15		04/13/15	14:54	04/14/15 13:07

Client ID: SB-A3 (0-2.5 ft) **Lab ID: C504553-01RE1** **Sampled: 04/08/15 11:20** **Received: 04/09/15 09:00**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	05/06/15	05/11/15		04/13/15	14:54	04/14/15 12:54

Client ID: SB-A3 (2.5-5.0 ft) **Lab ID: C504553-02** **Sampled: 04/08/15 11:35** **Received: 04/09/15 09:00**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6020A	10/05/15			04/14/15	17:40	04/15/15 10:50
EPA 7471B	05/06/15			04/21/15	11:10	04/22/15 14:53
EPA 8260B	04/22/15			04/14/15	14:26	04/14/15 21:57
EPA 8260C	04/22/15			04/14/15	00:00	04/14/15 17:10
EPA 8270D	04/22/15	05/19/15		04/09/15	16:30	04/22/15 01:14
EPA 9056A	05/06/15	04/15/15	14:54	04/13/15	14:54	04/14/15 17:08
EPA 9056A	05/06/15	05/11/15		04/13/15	14:54	04/14/15 17:08

Client ID: SB-A3 (2.5-5.0 ft) **Lab ID: C504553-02RE2** **Sampled: 04/08/15 11:35** **Received: 04/09/15 09:00**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	05/06/15	05/11/15		04/13/15	14:54	04/14/15 13:58

Client ID: SB-A3 (5-7.5 ft) **Lab ID: C504553-03** **Sampled: 04/08/15 12:15** **Received: 04/09/15 09:00**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6020A	10/05/15			04/14/15	17:40	04/15/15 11:02
EPA 7471B	05/06/15			04/21/15	11:10	04/22/15 14:56
EPA 8260C	04/22/15			04/14/15	00:00	04/14/15 17:49
EPA 8270D	04/22/15	05/19/15		04/09/15	16:30	04/22/15 01:41
EPA 9056A	05/06/15	04/15/15	14:54	04/13/15	14:54	04/14/15 17:26
EPA 9056A	05/06/15	05/11/15		04/13/15	14:54	04/14/15 17:26

Client ID: SB-A3 (5-7.5 ft) **Lab ID: C504553-03RE1** **Sampled: 04/08/15 12:15** **Received: 04/09/15 09:00**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	05/06/15	05/11/15		04/13/15	14:54	04/14/15 13:04
EPA 8260B	04/22/15			04/15/15	14:44	04/15/15 18:14

Client ID: SB-A3 (7.5-10 ft) **Lab ID: C504553-04** **Sampled: 04/08/15 12:25** **Received: 04/09/15 09:00**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6020A	10/05/15			04/14/15	17:40	04/15/15 11:28
EPA 7471B	05/06/15			04/21/15	11:10	04/22/15 14:58
EPA 8260C	04/22/15			04/14/15	00:00	04/14/15 18:27
EPA 8270D	04/22/15	05/19/15		04/09/15	16:30	04/21/15 22:30
EPA 9056A	05/06/15	04/15/15	14:54	04/13/15	14:54	04/14/15 17:45
EPA 9056A	05/06/15	05/11/15		04/13/15	14:54	04/14/15 17:45

Client ID: SB-A3 (7.5-10 ft) **Lab ID: C504553-04RE1** **Sampled: 04/08/15 12:25** **Received: 04/09/15 09:00**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	05/06/15	05/11/15		04/13/15	14:54	04/14/15 13:06
EPA 8260B	04/22/15			04/15/15	14:44	04/15/15 18:45

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SB-A3 (10-12 ft) **Lab ID: C504553-05** **Sampled: 04/08/15 12:40** **Received: 04/09/15 09:00**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	05/06/15	05/11/15		04/13/15	14:54	04/14/15 11:29
EPA 6020A	10/05/15			04/14/15	17:40	04/15/15 11:35
EPA 7471B	05/06/15			04/21/15	11:10	04/22/15 14:59
EPA 8260B	04/22/15			04/15/15	14:44	04/15/15 19:17
EPA 8260C	04/22/15			04/14/15	00:00	04/14/15 19:05
EPA 8270D	04/22/15	05/19/15		04/09/15	16:30	04/21/15 22:57
EPA 9056A	05/06/15	04/15/15	14:54	04/13/15	14:54	04/14/15 18:03
EPA 9056A	05/06/15	05/11/15		04/13/15	14:54	04/14/15 18:03

Client ID: Duplicate-4 **Lab ID: C504553-06** **Sampled: 04/08/15 00:00** **Received: 04/09/15 09:00**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6020A	10/05/15			04/14/15	17:40	04/15/15 11:41
EPA 7471B	05/06/15			04/21/15	11:10	04/22/15 15:01
EPA 8260B	04/22/15			04/15/15	14:44	04/15/15 19:49
EPA 8260C	04/22/15			04/14/15	00:00	04/14/15 19:45
EPA 8270D	04/22/15	05/19/15		04/09/15	16:30	04/21/15 23:25
EPA 9056A	05/06/15	04/15/15	14:54	04/13/15	14:54	04/14/15 18:59
EPA 9056A	05/06/15	05/11/15		04/13/15	14:54	04/14/15 18:59

Client ID: Duplicate-4 **Lab ID: C504553-06RE1** **Sampled: 04/08/15 00:00** **Received: 04/09/15 09:00**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	05/06/15	05/11/15		04/13/15	14:54	04/14/15 13:08

Client ID: SB-A1 (0-2.5 ft) **Lab ID: C504553-07** **Sampled: 04/08/15 10:35** **Received: 04/09/15 09:00**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	05/06/15	05/11/15		04/13/15	14:54	04/14/15 11:32
EPA 6020A	10/05/15			04/14/15	17:40	04/15/15 11:48
EPA 7471B	05/06/15			04/21/15	11:10	04/22/15 15:03
EPA 8260C	04/22/15			04/14/15	00:00	04/14/15 20:24
EPA 8270D	04/22/15	05/19/15		04/09/15	16:30	04/21/15 23:52
EPA 9056A	05/06/15	04/15/15	14:54	04/13/15	14:54	04/14/15 19:17
EPA 9056A	05/06/15	05/11/15		04/13/15	14:54	04/14/15 19:17

Client ID: SB-A1 (0-2.5 ft) **Lab ID: C504553-07RE1** **Sampled: 04/08/15 10:35** **Received: 04/09/15 09:00**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	04/22/15			04/17/15	11:18	04/17/15 13:16

Client ID: SB-A1 (2.5-5.0 ft) **Lab ID: C504553-08** **Sampled: 04/08/15 10:45** **Received: 04/09/15 09:00**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6020A	10/05/15			04/14/15	17:40	04/15/15 11:45
EPA 7471B	05/06/15			04/21/15	11:10	04/22/15 15:05
EPA 8260B	04/22/15			04/15/15	14:44	04/15/15 20:52
EPA 8260C	04/22/15			04/14/15	00:00	04/14/15 21:04
EPA 8270D	04/22/15	05/19/15		04/09/15	16:30	04/22/15 00:20
EPA 9056A	05/06/15	04/15/15	14:54	04/13/15	14:54	04/14/15 19:36
EPA 9056A	05/06/15	05/11/15		04/13/15	14:54	04/14/15 19:36

Client ID: SB-A1 (2.5-5.0 ft) **Lab ID: C504553-08RE1** **Sampled: 04/08/15 10:45** **Received: 04/09/15 09:00**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	05/06/15	05/11/15		04/13/15	14:54	04/14/15 13:13

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SB-A1 (5.0-7.5 ft) **Lab ID: C504553-09** **Sampled: 04/08/15 10:55** **Received: 04/09/15 09:00**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	05/06/15	05/11/15		04/13/15	14:54	04/14/15 13:15
EPA 6020A	10/05/15			04/14/15	17:40	04/15/15 12:08
EPA 7471B	05/06/15			04/21/15	11:10	04/22/15 15:08
EPA 8270D	04/22/15	05/19/15		04/09/15	16:30	04/22/15 00:47
EPA 9056A	05/06/15	04/15/15	14:54	04/13/15	14:54	04/14/15 19:54
EPA 9056A	05/06/15	05/11/15		04/13/15	14:54	04/14/15 19:54

Client ID: SB-A1 (5.0-7.5 ft) **Lab ID: C504553-09RE1** **Sampled: 04/08/15 10:55** **Received: 04/09/15 09:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	04/22/15	04/17/15	11:18	04/17/15 13:48
EPA 8260C	04/22/15	04/15/15	00:00	04/15/15 16:51

Client ID: Trip Blank **Lab ID: C504553-10** **Sampled: 04/08/15 10:35** **Received: 04/09/15 09:00**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	04/22/15	04/15/15	15:37	04/16/15 16:00

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SAMPLE DETECTION SUMMARY

Client ID: SB-A3 (0-2.5 ft) **Lab ID: C504553-01**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Acetone	0.033		0.0022	0.0078	mg/kg dry	EPA 8260B	
Bis(2-ethylhexyl)phthalate	0.042	J	0.042	0.39	mg/kg dry	EPA 8270D	
Chromium - Total	8.24	JD	3.26	29.6	mg/kg dry	EPA 6020A	R-01
Copper - Total	3.88	JD	1.30	5.92	mg/kg dry	EPA 6020A	R-01
Iron - Total	4020	D	10.7	29.6	mg/kg dry	EPA 6020A	R-01
Lead - Total	31.3	D	1.42	29.6	mg/kg dry	EPA 6020A	R-01
Manganese - Total	20.8	D	1.66	5.92	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.0256		0.00632	0.0220	mg/kg dry	EPA 7471B	
Nitrate as N	5.2	J	2.4	12	mg/kg dry	EPA 9056A	
Phenol	0.088	J	0.026	0.39	mg/kg dry	EPA 8270D	
Sulfate as SO4	38	J	34	60	mg/kg dry	EPA 9056A	
Zinc - Total	16.9	JD	7.70	29.6	mg/kg dry	EPA 6020A	R-01

Client ID: SB-A3 (0-2.5 ft) **Lab ID: C504553-01RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	24	D	2.7	6.0	mg/kg dry	EPA 350.1	

Client ID: SB-A3 (2.5-5.0 ft) **Lab ID: C504553-02**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dioxane	0.00477	J	0.00229	0.00764	mg/kg dry	EPA 8260C	
2-Butanone	0.025		0.0008	0.0053	mg/kg dry	EPA 8260B	
4-Chloro-3-methylphenol	0.066	J	0.040	0.40	mg/kg dry	EPA 8270D	
Acetone	0.24		0.0015	0.0053	mg/kg dry	EPA 8260B	
Arsenic - Total	58.2	D	13.0	25.5	mg/kg dry	EPA 6020A	R-01
Bis(2-ethylhexyl)phthalate	0.26	J	0.042	0.40	mg/kg dry	EPA 8270D	
Carbon disulfide	0.0005	J	0.0004	0.0053	mg/kg dry	EPA 8260B	
Copper - Total	21.0	JD	5.60	25.5	mg/kg dry	EPA 6020A	R-01
Ethylbenzene	0.019		0.0002	0.0011	mg/kg dry	EPA 8260B	
Iron - Total	16400	D	45.8	127	mg/kg dry	EPA 6020A	R-01
Lead - Total	23.5	JD	6.11	127	mg/kg dry	EPA 6020A	R-01
m,p-Xylenes	0.0079		0.0004	0.0021	mg/kg dry	EPA 8260B	
Manganese - Total	90.1	D	7.13	25.5	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.0176	J	0.00543	0.0189	mg/kg dry	EPA 7471B	
Nickel - Total	11.5	JD	6.37	25.5	mg/kg dry	EPA 6020A	R-01
o-Xylene	0.0028		0.0002	0.0011	mg/kg dry	EPA 8260B	
Zinc - Total	96.4	JD	33.1	127	mg/kg dry	EPA 6020A	R-01

Client ID: SB-A3 (2.5-5.0 ft) **Lab ID: C504553-02RE2**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	360	D	49	110	mg/kg dry	EPA 350.1	

Client ID: SB-A3 (5-7.5 ft) **Lab ID: C504553-03**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dioxane	0.0132		0.00185	0.00618	mg/kg dry	EPA 8260C	
3 & 4-Methylphenol	0.99		0.030	0.47	mg/kg dry	EPA 8270D	
Arsenic - Total	4.14	JD	2.97	5.83	mg/kg dry	EPA 6020A	R-01
Bis(2-ethylhexyl)phthalate	0.29	J	0.041	0.38	mg/kg dry	EPA 8270D	
Chromium - Total	4.80	JD	3.21	29.2	mg/kg dry	EPA 6020A	R-01
Copper - Total	1.85	JD	1.28	5.83	mg/kg dry	EPA 6020A	R-01
Iron - Total	3790	D	10.5	29.2	mg/kg dry	EPA 6020A	R-01
Lead - Total	7.94	JD	1.40	29.2	mg/kg dry	EPA 6020A	R-01
Manganese - Total	31.1	D	1.63	5.83	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.0232		0.00651	0.0227	mg/kg dry	EPA 7471B	
Phenol	0.055	J	0.026	0.38	mg/kg dry	EPA 8270D	

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SAMPLE DETECTION SUMMARY

Client ID: SB-A3 (5-7.5 ft) **Lab ID: C504553-03RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
2-Butanone	0.033		0.0008	0.0050	mg/kg dry	EPA 8260B	
Acetone	0.18		0.0014	0.0050	mg/kg dry	EPA 8260B	
Ammonia as N	72	D	5.2	12	mg/kg dry	EPA 350.1	
Benzene	0.0005	J	0.0002	0.0010	mg/kg dry	EPA 8260B	
Carbon disulfide	0.0010	J	0.0004	0.0050	mg/kg dry	EPA 8260B	
cis-1,2-Dichloroethene	0.0092		0.0002	0.0010	mg/kg dry	EPA 8260B	
Ethylbenzene	0.017		0.0002	0.0010	mg/kg dry	EPA 8260B	
Isopropylbenzene	0.0019		0.0002	0.0010	mg/kg dry	EPA 8260B	
m,p-Xylenes	0.0062		0.0004	0.0020	mg/kg dry	EPA 8260B	
o-Xylene	0.0032		0.0002	0.0010	mg/kg dry	EPA 8260B	
Toluene	0.0017		0.0002	0.0010	mg/kg dry	EPA 8260B	
Vinyl chloride	0.0005	J	0.0002	0.0010	mg/kg dry	EPA 8260B	

Client ID: SB-A3 (7.5-10 ft) **Lab ID: C504553-04**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dioxane	0.0142		0.00209	0.00696	mg/kg dry	EPA 8260C	
Iron - Total	5170	D	20.9	58.0	mg/kg dry	EPA 6020A	R-01
Lead - Total	4.86	JD	2.78	58.0	mg/kg dry	EPA 6020A	R-01
Manganese - Total	11.0	JD	3.25	11.6	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.0133	J	0.00806	0.0280	mg/kg dry	EPA 7471B	

Client ID: SB-A3 (7.5-10 ft) **Lab ID: C504553-04RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
2-Butanone	0.0034	J	0.0007	0.0047	mg/kg dry	EPA 8260B	
4-Methyl-2-pentanone	0.0054		0.0005	0.0047	mg/kg dry	EPA 8260B	
Acetone	0.053		0.0013	0.0047	mg/kg dry	EPA 8260B	
Ammonia as N	47	D	2.6	5.8	mg/kg dry	EPA 350.1	
Benzene	0.0013		0.0002	0.0009	mg/kg dry	EPA 8260B	
cis-1,2-Dichloroethene	0.0029		0.0002	0.0009	mg/kg dry	EPA 8260B	
Ethylbenzene	0.0069		0.0002	0.0009	mg/kg dry	EPA 8260B	
m,p-Xylenes	0.0068		0.0004	0.0019	mg/kg dry	EPA 8260B	
o-Xylene	0.0026		0.0002	0.0009	mg/kg dry	EPA 8260B	
Toluene	0.0009		0.0002	0.0009	mg/kg dry	EPA 8260B	

Client ID: SB-A3 (10-12 ft) **Lab ID: C504553-05**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	0.0004	J	0.0002	0.0009	mg/kg dry	EPA 8260B	
1,2,4-Trichlorobenzene	0.0004	J	0.0002	0.0009	mg/kg dry	EPA 8260B	
1,2-Dichloropropane	0.0004	J	0.0002	0.0009	mg/kg dry	EPA 8260B	
1,4-Dichlorobenzene	0.0006	J	0.0002	0.0009	mg/kg dry	EPA 8260B	
1,4-Dioxane	0.0304		0.00214	0.00714	mg/kg dry	EPA 8260C	
2-Butanone	0.022		0.0007	0.0045	mg/kg dry	EPA 8260B	
3 & 4-Methylphenol	0.040	J	0.031	0.47	mg/kg dry	EPA 8270D	
4-Methyl-2-pentanone	0.0025	J	0.0005	0.0045	mg/kg dry	EPA 8260B	
Acetone	0.057		0.0013	0.0045	mg/kg dry	EPA 8260B	
Ammonia as N	5.1		0.53	1.2	mg/kg dry	EPA 350.1	
Benzene	0.0010		0.0002	0.0009	mg/kg dry	EPA 8260B	
Carbon disulfide	0.0008	J	0.0003	0.0045	mg/kg dry	EPA 8260B	
cis-1,2-Dichloroethene	0.0017		0.0002	0.0009	mg/kg dry	EPA 8260B	
Ethylbenzene	0.0070		0.0002	0.0009	mg/kg dry	EPA 8260B	
Iron - Total	2250	D	10.7	29.8	mg/kg dry	EPA 6020A	R-01
Lead - Total	6.49	JD	1.43	29.8	mg/kg dry	EPA 6020A	R-01
m,p-Xylenes	0.0063		0.0003	0.0018	mg/kg dry	EPA 8260B	
Manganese - Total	2.57	JD	1.67	5.95	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.00744	J	0.00541	0.0188	mg/kg dry	EPA 7471B	
o-Xylene	0.0026		0.0002	0.0009	mg/kg dry	EPA 8260B	

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SAMPLE DETECTION SUMMARY

Client ID: Duplicate-4 **Lab ID: C504553-06**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
2-Butanone	0.0065		0.0006	0.0038	mg/kg dry	EPA 8260B	
Acetone	0.053		0.0011	0.0038	mg/kg dry	EPA 8260B	
Carbon disulfide	0.0006	J	0.0003	0.0038	mg/kg dry	EPA 8260B	
Chromium - Total	8.50	JD	6.37	57.9	mg/kg dry	EPA 6020A	R-01
Iron - Total	4510	D	20.9	57.9	mg/kg dry	EPA 6020A	R-01
Lead - Total	7.43	JD	2.78	57.9	mg/kg dry	EPA 6020A	R-01
Manganese - Total	13.4	D	3.24	11.6	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.0217	J	0.00702	0.0244	mg/kg dry	EPA 7471B	

Client ID: Duplicate-4 **Lab ID: C504553-06RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	30	D	2.6	5.8	mg/kg dry	EPA 350.1	

Client ID: SB-A1 (0-2.5 ft) **Lab ID: C504553-07**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	1.1	J	0.53	1.2	mg/kg dry	EPA 350.1	
Chromium - Total	7.35	JD	6.33	57.6	mg/kg dry	EPA 6020A	R-01
Iron - Total	6050	D	20.7	57.6	mg/kg dry	EPA 6020A	R-01
Lead - Total	5.36	JD	2.76	57.6	mg/kg dry	EPA 6020A	R-01
Manganese - Total	8.74	JD	3.22	11.5	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.0491		0.00622	0.0216	mg/kg dry	EPA 7471B	
Sulfate as SO4	34	J	34	59	mg/kg dry	EPA 9056A	

Client ID: SB-A1 (0-2.5 ft) **Lab ID: C504553-07RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Acetone	0.17		0.0014	0.0050	mg/kg dry	EPA 8260B	
Methyl acetate	0.0083		0.0002	0.0010	mg/kg dry	EPA 8260B	

Client ID: SB-A1 (2.5-5.0 ft) **Lab ID: C504553-08**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
2-Butanone	0.0077		0.0007	0.0048	mg/kg dry	EPA 8260B	
Acetone	0.38		0.0013	0.0048	mg/kg dry	EPA 8260B	
Carbon disulfide	0.0049		0.0004	0.0048	mg/kg dry	EPA 8260B	
Iron - Total	12000	D	43.7	121	mg/kg dry	EPA 6020A	R-01
Lead - Total	9.51	JD	5.83	121	mg/kg dry	EPA 6020A	R-01
Manganese - Total	15.0	JD	6.80	24.3	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.0344		0.00808	0.0281	mg/kg dry	EPA 7471B	

Client ID: SB-A1 (2.5-5.0 ft) **Lab ID: C504553-08RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	35	D	2.6	5.9	mg/kg dry	EPA 350.1	

Client ID: SB-A1 (5.0-7.5 ft) **Lab ID: C504553-09**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	45	D	2.7	6.0	mg/kg dry	EPA 350.1	
Chromium - Total	8.41	JD	6.72	61.1	mg/kg dry	EPA 6020A	R-01
Copper - Total	3.44	JD	2.69	12.2	mg/kg dry	EPA 6020A	R-01
Iron - Total	8770	D	22.0	61.1	mg/kg dry	EPA 6020A	R-01
Lead - Total	15.5	JD	2.93	61.1	mg/kg dry	EPA 6020A	R-01
Manganese - Total	28.6	D	3.42	12.2	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.0282		0.00520	0.0181	mg/kg dry	EPA 7471B	
Zinc - Total	32.1	JD	15.9	61.1	mg/kg dry	EPA 6020A	R-01

Client ID: SB-A1 (5.0-7.5 ft) **Lab ID: C504553-09RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
2-Butanone	0.018		0.0008	0.0051	mg/kg dry	EPA 8260B	
Acetone	0.10		0.0014	0.0051	mg/kg dry	EPA 8260B	
Methyl acetate	0.033		0.0002	0.0010	mg/kg dry	EPA 8260B	

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ANALYTICAL RESULTS

Description:	SB-A3 (0-2.5 ft)	**Lab Sample ID:**	C504553-01	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 11:20	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	83.97

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0004	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0003	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0004	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0004	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0005	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0004	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0004	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0012	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0007	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0004	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0006	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0004	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0003	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0003	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.020	0.094	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
2-Butanone [78-93-3]^	ND		mg/kg dry	1	0.0012	0.0078	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0012	0.0078	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0009	0.0078	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Acetone [67-64-1]^	**0.033**		mg/kg dry	1	0.0022	0.0078	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0003	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0006	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0004	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0007	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0005	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0006	0.0078	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0003	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0003	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0004	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0003	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0003	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0004	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0003	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0003	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0005	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0007	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0003	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0003	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0006	0.0031	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0004	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0004	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0011	0.0031	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0005	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0003	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0015	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0004	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0004	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	

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ANALYTICAL RESULTS

Description:	SB-A3 (0-2.5 ft)	**Lab Sample ID:**	C504553-01	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 11:20	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	83.97

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0006	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0006	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0005	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0004	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0004	0.0016	5D14028	EPA 8260B	04/14/15 21:26	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*50-127*	*5D14028*	*EPA 8260B*	*04/14/15 21:26*	*MSZ*	
Dibromofluoromethane	*60*	*1*	*50.0*	*120 %*	*52-128*	*5D14028*	*EPA 8260B*	*04/14/15 21:26*	*MSZ*	
Toluene-d8	*52*	*1*	*50.0*	*104 %*	*57-124*	*5D14028*	*EPA 8260B*	*04/14/15 21:26*	*MSZ*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.39	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.029	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.051	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.051	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.037	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.030	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.030	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.036	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.037	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.031	0.48	5D08043	EPA 8270D	04/22/15 02:09	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.12	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.043	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.11	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.031	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.063	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.037	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.045	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.39	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.39	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	

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ANALYTICAL RESULTS

Description:	SB-A3 (0-2.5 ft)	**Lab Sample ID:**	C504553-01	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 11:20	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	83.97

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.021	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.056	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.030	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.051	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.029	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	**0.042**	J	mg/kg dry	1	0.042	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.048	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.39	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.036	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.061	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.049	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.043	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.035	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.031	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.031	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.046	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.025	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.056	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.036	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.031	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.096	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.064	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Phenol [108-95-2]^	**0.088**	J	mg/kg dry	1	0.026	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.045	0.39	5D08043	EPA 8270D	04/22/15 02:09	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	*Notes*
2,4,6-Tribromophenol	*2.9*	*1*	*3.97*	*74 %*	*28-130*	*5D08043*	*EPA 8270D*	*04/22/15 02:09*	*DFM*	
2-Fluorobiphenyl	*1.2*	*1*	*1.98*	*63 %*	*49-105*	*5D08043*	*EPA 8270D*	*04/22/15 02:09*	*DFM*	
2-Fluorophenol	*3.1*	*1*	*3.97*	*77 %*	*28-95*	*5D08043*	*EPA 8270D*	*04/22/15 02:09*	*DFM*	
Nitrobenzene-d5	*1.5*	*1*	*1.98*	*78 %*	*50-117*	*5D08043*	*EPA 8270D*	*04/22/15 02:09*	*DFM*	
Phenol-d5	*3.2*	*1*	*3.97*	*80 %*	*21-184*	*5D08043*	*EPA 8270D*	*04/22/15 02:09*	*DFM*	
Terphenyl-d14	*1.0*	*1*	*1.98*	*52 %*	*54-124*	*5D08043*	*EPA 8270D*	*04/22/15 02:09*	*DFM*	*QS-03*

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ANALYTICAL RESULTS

Description:	SB-A3 (0-2.5 ft)	**Lab Sample ID:**	C504553-01	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 11:20	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	83.97

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	**0.0256**		mg/kg dry	1	0.00632	0.0220	5D21018	EPA 7471B	04/22/15 14:51	T1D	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**24**	D	mg/kg dry	5	2.7	6.0	5D13030	EPA 350.1	04/14/15 12:54	SHA	
Nitrate as N [14797-55-8]	**5.2**	J	mg/kg dry	1	2.4	12	5D13028	EPA 9056A	04/14/15 13:07	SHA	
Sulfate as SO4 [14808-79-8]	**38**	J	mg/kg dry	1	34	60	5D13028	EPA 9056A	04/14/15 13:07	SHA	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.00165	0.00550	5D14011	EPA 8260C	04/14/15 16:30	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.21*	*1*	*5.00*	*84 %*	*70-130*	*5D14011*	*EPA 8260C*	*04/14/15 16:30*	*rgg*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	5	1.18	2.96	5D14025	EPA 6020A	04/15/15 10:54	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	5	3.02	5.92	5D14025	EPA 6020A	04/15/15 10:54	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	5	0.592	11.8	5D14025	EPA 6020A	04/15/15 10:54	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	5	0.770	5.92	5D14025	EPA 6020A	04/15/15 10:54	JMA	R-01
Chromium [7440-47-3]^	**8.24**	JD	mg/kg dry	5	3.26	29.6	5D14025	EPA 6020A	04/15/15 10:54	JMA	R-01
Copper [7440-50-8]^	**3.88**	JD	mg/kg dry	5	1.30	5.92	5D14025	EPA 6020A	04/15/15 10:54	JMA	R-01
Iron [7439-89-6]^	**4020**	D	mg/kg dry	5	10.7	29.6	5D14025	EPA 6020A	04/15/15 10:54	JMA	R-01
Lead [7439-92-1]^	**31.3**	D	mg/kg dry	5	1.42	29.6	5D14025	EPA 6020A	04/15/15 10:54	JMA	R-01
Manganese [7439-96-5]^	**20.8**	D	mg/kg dry	5	1.66	5.92	5D14025	EPA 6020A	04/15/15 10:54	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	5	1.48	5.92	5D14025	EPA 6020A	04/15/15 10:54	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	5	5.39	5.92	5D14025	EPA 6020A	04/15/15 10:54	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	5	0.326	2.96	5D14025	EPA 6020A	04/15/15 10:54	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	5	0.219	5.92	5D14025	EPA 6020A	04/15/15 10:54	JMA	R-01
Zinc [7440-66-6]^	**16.9**	JD	mg/kg dry	5	7.70	29.6	5D14025	EPA 6020A	04/15/15 10:54	JMA	R-01

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ANALYTICAL RESULTS

Description:	SB-A3 (2.5-5.0 ft)	**Lab Sample ID:**	C504553-02	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 11:35	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	82.92

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0003	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0008	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0005	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0004	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0003	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0002	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.014	0.064	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
2-Butanone [78-93-3]^	**0.025**		mg/kg dry	1	0.0008	0.0053	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0008	0.0053	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0006	0.0053	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Acetone [67-64-1]^	**0.24**		mg/kg dry	1	0.0015	0.0053	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0004	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0003	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0005	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0003	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Carbon disulfide [75-15-0]^	**0.0005**	J	mg/kg dry	1	0.0004	0.0053	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0002	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0002	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0004	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0005	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Ethylbenzene [100-41-4]^	**0.019**		mg/kg dry	1	0.0002	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	**0.0079**		mg/kg dry	1	0.0004	0.0021	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0002	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0008	0.0021	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0003	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
o-Xylene [95-47-6]^	**0.0028**		mg/kg dry	1	0.0002	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0010	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0003	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	

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ANALYTICAL RESULTS

Description:	SB-A3 (2.5-5.0 ft)	**Lab Sample ID:**	C504553-02	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 11:35	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	82.92

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0004	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0004	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0003	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0003	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0003	0.0011	5D14028	EPA 8260B	04/14/15 21:57	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*99 %*	*50-127*	*5D14028*	*EPA 8260B*	*04/14/15 21:57*	*MSZ*	
Dibromofluoromethane	*63*	*1*	*50.0*	*126 %*	*52-128*	*5D14028*	*EPA 8260B*	*04/14/15 21:57*	*MSZ*	
Toluene-d8	*55*	*1*	*50.0*	*111 %*	*57-124*	*5D14028*	*EPA 8260B*	*04/14/15 21:57*	*MSZ*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.40	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.033	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.033	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.029	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.052	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.052	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.034	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.037	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.034	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.030	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.034	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.030	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.036	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.037	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.031	0.48	5D08043	EPA 8270D	04/22/15 01:14	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.12	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.043	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.033	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
4-Chloro-3-methylphenol [59-50-7]^	**0.066**	J	mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.11	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.031	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.064	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.037	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.034	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.034	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.046	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.40	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.40	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.034	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	

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ANALYTICAL RESULTS

Description:	SB-A3 (2.5-5.0 ft)	**Lab Sample ID:**	C504553-02	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 11:35	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	82.92

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.022	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.057	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.030	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.052	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.029	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	**0.26**	J	mg/kg dry	1	0.042	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.048	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.40	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.036	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.062	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.033	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.034	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.049	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.043	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.035	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.031	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.031	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.047	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.025	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.057	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.036	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.034	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.031	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.098	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.065	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.033	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.027	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.046	0.40	5D08043	EPA 8270D	04/22/15 01:14	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.0*	*1*	*4.02*	*75 %*	*28-130*	*5D08043*	*EPA 8270D*	*04/22/15 01:14*	*DFM*	
2-Fluorobiphenyl	*1.2*	*1*	*2.01*	*59 %*	*49-105*	*5D08043*	*EPA 8270D*	*04/22/15 01:14*	*DFM*	
2-Fluorophenol	*2.8*	*1*	*4.02*	*69 %*	*28-95*	*5D08043*	*EPA 8270D*	*04/22/15 01:14*	*DFM*	
Nitrobenzene-d5	*1.4*	*1*	*2.01*	*69 %*	*50-117*	*5D08043*	*EPA 8270D*	*04/22/15 01:14*	*DFM*	
Phenol-d5	*3.0*	*1*	*4.02*	*74 %*	*21-184*	*5D08043*	*EPA 8270D*	*04/22/15 01:14*	*DFM*	
Terphenyl-d14	*1.3*	*1*	*2.01*	*64 %*	*54-124*	*5D08043*	*EPA 8270D*	*04/22/15 01:14*	*DFM*	

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ANALYTICAL RESULTS

Description:	SB-A3 (2.5-5.0 ft)	**Lab Sample ID:**	C504553-02	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 11:35	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	82.92

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	**0.0176**	J	mg/kg dry	1	0.00543	0.0189	5D21018	EPA 7471B	04/22/15 14:53	T1D	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**360**	D	mg/kg dry	90	49	110	5D13030	EPA 350.1	04/14/15 13:58	SHA	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	2.5	12	5D13028	EPA 9056A	04/14/15 17:08	SHA	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	35	60	5D13028	EPA 9056A	04/14/15 17:08	SHA	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	**0.00477**	J	mg/kg dry	1	0.00229	0.00764	5D14011	EPA 8260C	04/14/15 17:10	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.35*	*1*	*5.00*	*87 %*	*70-130*	*5D14011*	*EPA 8260C*	*04/14/15 17:10*	*rgg*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	5.09	12.7	5D14025	EPA 6020A	04/15/15 10:50	JMA	R-01
Arsenic [7440-38-2]^	**58.2**	D	mg/kg dry	20	13.0	25.5	5D14025	EPA 6020A	04/15/15 10:50	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	2.55	50.9	5D14025	EPA 6020A	04/15/15 10:50	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.31	25.5	5D14025	EPA 6020A	04/15/15 10:50	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	20	14.0	127	5D14025	EPA 6020A	04/15/15 10:50	JMA	R-01
Copper [7440-50-8]^	**21.0**	JD	mg/kg dry	20	5.60	25.5	5D14025	EPA 6020A	04/15/15 10:50	JMA	R-01
Iron [7439-89-6]^	**16400**	D	mg/kg dry	20	45.8	127	5D14025	EPA 6020A	04/15/15 10:50	JMA	R-01
Lead [7439-92-1]^	**23.5**	JD	mg/kg dry	20	6.11	127	5D14025	EPA 6020A	04/15/15 10:50	JMA	R-01
Manganese [7439-96-5]^	**90.1**	D	mg/kg dry	20	7.13	25.5	5D14025	EPA 6020A	04/15/15 10:50	JMA	R-01
Nickel [7440-02-0]^	**11.5**	JD	mg/kg dry	20	6.37	25.5	5D14025	EPA 6020A	04/15/15 10:50	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	23.2	25.5	5D14025	EPA 6020A	04/15/15 10:50	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.40	12.7	5D14025	EPA 6020A	04/15/15 10:50	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	20	0.942	25.5	5D14025	EPA 6020A	04/15/15 10:50	JMA	R-01
Zinc [7440-66-6]^	**96.4**	JD	mg/kg dry	20	33.1	127	5D14025	EPA 6020A	04/15/15 10:50	JMA	R-01

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ANALYTICAL RESULTS

Description:	SB-A3 (5-7.5 ft)	**Lab Sample ID:**	C504553-03	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 12:15	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	85.91

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0008	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0005	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0004	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.013	0.060	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
2-Butanone [78-93-3]^	**0.033**		mg/kg dry	1	0.0008	0.0050	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0008	0.0050	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0006	0.0050	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Acetone [67-64-1]^	**0.18**		mg/kg dry	1	0.0014	0.0050	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Benzene [71-43-2]^	**0.0005**	J	mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0004	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0005	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Carbon disulfide [75-15-0]^	**0.0010**	J	mg/kg dry	1	0.0004	0.0050	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	**0.0092**		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0004	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0005	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Ethylbenzene [100-41-4]^	**0.017**		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Isopropylbenzene [98-82-8]^	**0.0019**		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	**0.0062**		mg/kg dry	1	0.0004	0.0020	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0007	0.0020	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
o-Xylene [95-47-6]^	**0.0032**		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0010	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Toluene [108-88-3]^	**0.0017**		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	

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ANALYTICAL RESULTS

Description:	SB-A3 (5-7.5 ft)	**Lab Sample ID:**	C504553-03	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 12:15	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	85.91

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0004	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0004	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	QL-02
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	
Vinyl chloride [75-01-4]^	**0.0005**	J	mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 18:14	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*96 %*	*50-127*	*5D15023*	*EPA 8260B*	*04/15/15 18:14*	*MSZ*	
Dibromofluoromethane	*57*	*1*	*50.0*	*114 %*	*52-128*	*5D15023*	*EPA 8260B*	*04/15/15 18:14*	*MSZ*	
Toluene-d8	*54*	*1*	*50.0*	*107 %*	*57-124*	*5D15023*	*EPA 8260B*	*04/15/15 18:14*	*MSZ*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.38	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.031	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.031	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.028	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.050	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.050	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.033	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.036	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.033	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.029	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.033	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.029	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.035	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.036	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	**0.99**		mg/kg dry	1	0.030	0.47	5D08043	EPA 8270D	04/22/15 01:41	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.11	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.042	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.031	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.11	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.030	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.062	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.036	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.033	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.033	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.044	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.38	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.38	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.033	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	

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ANALYTICAL RESULTS

Description:	SB-A3 (5-7.5 ft)	**Lab Sample ID:**	C504553-03	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 12:15	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	85.91

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.021	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.055	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.029	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.050	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.028	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	**0.29**	J	mg/kg dry	1	0.041	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.047	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.38	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.035	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.059	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.031	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.033	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.048	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.042	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.034	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.030	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.030	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.045	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.024	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.055	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.035	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.033	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.030	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.094	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.063	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.031	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Phenol [108-95-2]^	**0.055**	J	mg/kg dry	1	0.026	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.044	0.38	5D08043	EPA 8270D	04/22/15 01:41	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*2.7*	*1*	*3.88*	*69 %*	*28-130*	*5D08043*	*EPA 8270D*	*04/22/15 01:41*	*DFM*	
2-Fluorobiphenyl	*1.3*	*1*	*1.94*	*69 %*	*49-105*	*5D08043*	*EPA 8270D*	*04/22/15 01:41*	*DFM*	
2-Fluorophenol	*2.6*	*1*	*3.88*	*66 %*	*28-95*	*5D08043*	*EPA 8270D*	*04/22/15 01:41*	*DFM*	
Nitrobenzene-d5	*1.3*	*1*	*1.94*	*69 %*	*50-117*	*5D08043*	*EPA 8270D*	*04/22/15 01:41*	*DFM*	
Phenol-d5	*2.7*	*1*	*3.88*	*70 %*	*21-184*	*5D08043*	*EPA 8270D*	*04/22/15 01:41*	*DFM*	
Terphenyl-d14	*1.5*	*1*	*1.94*	*76 %*	*54-124*	*5D08043*	*EPA 8270D*	*04/22/15 01:41*	*DFM*	

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ANALYTICAL RESULTS

Description:	SB-A3 (5-7.5 ft)	**Lab Sample ID:**	C504553-03	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 12:15	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	85.91

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	**0.0232**		mg/kg dry	1	0.00651	0.0227	5D21018	EPA 7471B	04/22/15 14:56	T1D	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**72**	D	mg/kg dry	10	5.2	12	5D13030	EPA 350.1	04/14/15 13:04	SHA	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	2.4	12	5D13028	EPA 9056A	04/14/15 17:26	SHA	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	34	58	5D13028	EPA 9056A	04/14/15 17:26	SHA	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	**0.0132**		mg/kg dry	1	0.00185	0.00618	5D14011	EPA 8260C	04/14/15 17:49	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.02*	*1*	*5.00*	*80 %*	*70-130*	*5D14011*	*EPA 8260C*	*04/14/15 17:49*	*rgg*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	5	1.17	2.92	5D14025	EPA 6020A	04/15/15 11:02	JMA	R-01
Arsenic [7440-38-2]^	**4.14**	JD	mg/kg dry	5	2.97	5.83	5D14025	EPA 6020A	04/15/15 11:02	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	5	0.583	11.7	5D14025	EPA 6020A	04/15/15 11:02	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	5	0.758	5.83	5D14025	EPA 6020A	04/15/15 11:02	JMA	R-01
Chromium [7440-47-3]^	**4.80**	JD	mg/kg dry	5	3.21	29.2	5D14025	EPA 6020A	04/15/15 11:02	JMA	R-01
Copper [7440-50-8]^	**1.85**	JD	mg/kg dry	5	1.28	5.83	5D14025	EPA 6020A	04/15/15 11:02	JMA	R-01
Iron [7439-89-6]^	**3790**	D	mg/kg dry	5	10.5	29.2	5D14025	EPA 6020A	04/15/15 11:02	JMA	R-01
Lead [7439-92-1]^	**7.94**	JD	mg/kg dry	5	1.40	29.2	5D14025	EPA 6020A	04/15/15 11:02	JMA	R-01
Manganese [7439-96-5]^	**31.1**	D	mg/kg dry	5	1.63	5.83	5D14025	EPA 6020A	04/15/15 11:02	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	5	1.46	5.83	5D14025	EPA 6020A	04/15/15 11:02	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	5	5.31	5.83	5D14025	EPA 6020A	04/15/15 11:02	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	5	0.321	2.92	5D14025	EPA 6020A	04/15/15 11:02	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	5	0.216	5.83	5D14025	EPA 6020A	04/15/15 11:02	JMA	R-01
Zinc [7440-66-6]^	ND		mg/kg dry	5	7.58	29.2	5D14025	EPA 6020A	04/15/15 11:02	JMA	R-01

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ANALYTICAL RESULTS

Description:	SB-A3 (7.5-10 ft)	**Lab Sample ID:**	C504553-04	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 12:25	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	85.65

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0003	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0007	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0004	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0004	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.012	0.057	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
2-Butanone [78-93-3]^	**0.0034**	J	mg/kg dry	1	0.0007	0.0047	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0007	0.0047	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
4-Methyl-2-pentanone [108-10-1]^	**0.0054**		mg/kg dry	1	0.0005	0.0047	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Acetone [67-64-1]^	**0.053**		mg/kg dry	1	0.0013	0.0047	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Benzene [71-43-2]^	**0.0013**		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0004	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0004	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0003	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0004	0.0047	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	**0.0029**		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0003	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0004	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Ethylbenzene [100-41-4]^	**0.0069**		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0001	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	**0.0068**		mg/kg dry	1	0.0004	0.0019	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0007	0.0019	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0003	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
o-Xylene [95-47-6]^	**0.0026**		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0009	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Toluene [108-88-3]^	**0.0009**		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	

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ANALYTICAL RESULTS

Description:	SB-A3 (7.5-10 ft)	**Lab Sample ID:**	C504553-04	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 12:25	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	85.65

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0004	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0004	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0003	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	QL-02
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 18:45	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*50*	*1*	*50.0*	*99 %*	*50-127*	*5D15023*	*EPA 8260B*	*04/15/15 18:45*	*MSZ*	
Dibromofluoromethane	*63*	*1*	*50.0*	*125 %*	*52-128*	*5D15023*	*EPA 8260B*	*04/15/15 18:45*	*MSZ*	
Toluene-d8	*58*	*1*	*50.0*	*115 %*	*57-124*	*5D15023*	*EPA 8260B*	*04/15/15 18:45*	*MSZ*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.39	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.028	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.050	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.050	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.036	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.029	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.029	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.035	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.036	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.030	0.47	5D08043	EPA 8270D	04/21/15 22:30	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.11	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.042	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.11	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.030	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.062	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.036	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.044	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.39	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.39	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	

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ANALYTICAL RESULTS

Description:	SB-A3 (7.5-10 ft)	**Lab Sample ID:**	C504553-04	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 12:25	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	85.65

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.021	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.055	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.029	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.050	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.028	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.041	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.047	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.39	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.035	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.060	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.048	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.042	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.034	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.030	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.030	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.046	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.025	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.055	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.035	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.030	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.095	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.063	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.026	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.044	0.39	5D08043	EPA 8270D	04/21/15 22:30	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*2.8*	*1*	*3.89*	*71 %*	*28-130*	*5D08043*	*EPA 8270D*	*04/21/15 22:30*	*DFM*	
2-Fluorobiphenyl	*1.5*	*1*	*1.95*	*75 %*	*49-105*	*5D08043*	*EPA 8270D*	*04/21/15 22:30*	*DFM*	
2-Fluorophenol	*2.9*	*1*	*3.89*	*74 %*	*28-95*	*5D08043*	*EPA 8270D*	*04/21/15 22:30*	*DFM*	
Nitrobenzene-d5	*1.4*	*1*	*1.95*	*71 %*	*50-117*	*5D08043*	*EPA 8270D*	*04/21/15 22:30*	*DFM*	
Phenol-d5	*2.8*	*1*	*3.89*	*73 %*	*21-184*	*5D08043*	*EPA 8270D*	*04/21/15 22:30*	*DFM*	
Terphenyl-d14	*1.4*	*1*	*1.95*	*73 %*	*54-124*	*5D08043*	*EPA 8270D*	*04/21/15 22:30*	*DFM*	

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ANALYTICAL RESULTS

Description:	SB-A3 (7.5-10 ft)	**Lab Sample ID:**	C504553-04	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 12:25	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	85.65

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	**0.0133**	J	mg/kg dry	1	0.00806	0.0280	5D21018	EPA 7471B	04/22/15 14:58	T1D	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**47**	D	mg/kg dry	5	2.6	5.8	5D13030	EPA 350.1	04/14/15 13:06	SHA	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	2.4	12	5D13028	EPA 9056A	04/14/15 17:45	SHA	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	34	58	5D13028	EPA 9056A	04/14/15 17:45	SHA	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	**0.0142**		mg/kg dry	1	0.00209	0.00696	5D14011	EPA 8260C	04/14/15 18:27	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.31*	*1*	*5.00*	*86 %*	*70-130*	*5D14011*	*EPA 8260C*	*04/14/15 18:27*	*rgg*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	10	2.32	5.80	5D14025	EPA 6020A	04/15/15 11:28	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	10	5.92	11.6	5D14025	EPA 6020A	04/15/15 11:28	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	10	1.16	23.2	5D14025	EPA 6020A	04/15/15 11:28	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	10	1.51	11.6	5D14025	EPA 6020A	04/15/15 11:28	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	10	6.38	58.0	5D14025	EPA 6020A	04/15/15 11:28	JMA	R-01
Copper [7440-50-8]^	ND		mg/kg dry	10	2.55	11.6	5D14025	EPA 6020A	04/15/15 11:28	JMA	R-01
Iron [7439-89-6]^	**5170**	D	mg/kg dry	10	20.9	58.0	5D14025	EPA 6020A	04/15/15 11:28	JMA	R-01
Lead [7439-92-1]^	**4.86**	JD	mg/kg dry	10	2.78	58.0	5D14025	EPA 6020A	04/15/15 11:28	JMA	R-01
Manganese [7439-96-5]^	**11.0**	JD	mg/kg dry	10	3.25	11.6	5D14025	EPA 6020A	04/15/15 11:28	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	10	2.90	11.6	5D14025	EPA 6020A	04/15/15 11:28	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	10	10.6	11.6	5D14025	EPA 6020A	04/15/15 11:28	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	10	0.638	5.80	5D14025	EPA 6020A	04/15/15 11:28	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	10	0.429	11.6	5D14025	EPA 6020A	04/15/15 11:28	JMA	R-01
Zinc [7440-66-6]^	ND		mg/kg dry	10	15.1	58.0	5D14025	EPA 6020A	04/15/15 11:28	JMA	R-01

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ANALYTICAL RESULTS

Description:	SB-A3 (10-12 ft)	**Lab Sample ID:**	C504553-05	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 12:40	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	84.99

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
1,1-Dichloroethane [75-34-3]^	**0.0004**	J	mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0003	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	**0.0004**	J	mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0007	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0004	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0004	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
1,2-Dichloropropane [78-87-5]^	**0.0004**	J	mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
1,4-Dichlorobenzene [106-46-7]^	**0.0006**	J	mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.012	0.054	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
2-Butanone [78-93-3]^	**0.022**		mg/kg dry	1	0.0007	0.0045	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0007	0.0045	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
4-Methyl-2-pentanone [108-10-1]^	**0.0025**	J	mg/kg dry	1	0.0005	0.0045	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Acetone [67-64-1]^	**0.057**		mg/kg dry	1	0.0013	0.0045	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Benzene [71-43-2]^	**0.0010**		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0004	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0004	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0003	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Carbon disulfide [75-15-0]^	**0.0008**	J	mg/kg dry	1	0.0003	0.0045	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	**0.0017**		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0003	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0004	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Ethylbenzene [100-41-4]^	**0.0070**		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0001	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0001	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	**0.0063**		mg/kg dry	1	0.0003	0.0018	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0007	0.0018	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0003	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
o-Xylene [95-47-6]^	**0.0026**		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0009	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	

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ANALYTICAL RESULTS

Description: SB-A3 (10-12 ft)	**Lab Sample ID:** C504553-05	**Received:** 04/09/15 09:00
Matrix: Soil	**Sampled:** 04/08/15 12:40	**Work Order:** C504553
Project: Edgecombe County Landfill	**Sampled By:** Ben Bradley	**% Solids:** 84.99

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0003	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0003	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0003	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	QL-02
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0002	0.0009	5D15023	EPA 8260B	04/15/15 19:17	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*46*	*1*	*50.0*	*92 %*	*50-127*	*5D15023*	*EPA 8260B*	*04/15/15 19:17*	*MSZ*	
Dibromofluoromethane	*59*	*1*	*50.0*	*118 %*	*52-128*	*5D15023*	*EPA 8260B*	*04/15/15 19:17*	*MSZ*	
Toluene-d8	*56*	*1*	*50.0*	*111 %*	*57-124*	*5D15023*	*EPA 8260B*	*04/15/15 19:17*	*MSZ*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.39	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.028	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.051	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.051	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.036	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.029	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.029	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.035	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.036	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	**0.040**	J	mg/kg dry	1	0.031	0.47	5D08043	EPA 8270D	04/21/15 22:57	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.12	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.042	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.11	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.031	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.062	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.036	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.045	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.39	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.39	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	

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ANALYTICAL RESULTS

Description:	SB-A3 (10-12 ft)	**Lab Sample ID:**	C504553-05	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 12:40	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	84.99

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.021	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.055	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.029	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.051	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.028	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.041	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.047	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.39	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.035	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.060	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.048	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.042	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.034	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.031	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.031	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.046	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.025	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.055	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.035	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.031	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.095	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.064	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.026	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.045	0.39	5D08043	EPA 8270D	04/21/15 22:57	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.1*	*1*	*3.92*	*79 %*	*28-130*	*5D08043*	*EPA 8270D*	*04/21/15 22:57*	*DFM*	
2-Fluorobiphenyl	*1.4*	*1*	*1.96*	*70 %*	*49-105*	*5D08043*	*EPA 8270D*	*04/21/15 22:57*	*DFM*	
2-Fluorophenol	*2.9*	*1*	*3.92*	*75 %*	*28-95*	*5D08043*	*EPA 8270D*	*04/21/15 22:57*	*DFM*	
Nitrobenzene-d5	*1.4*	*1*	*1.96*	*73 %*	*50-117*	*5D08043*	*EPA 8270D*	*04/21/15 22:57*	*DFM*	
Phenol-d5	*2.9*	*1*	*3.92*	*74 %*	*21-184*	*5D08043*	*EPA 8270D*	*04/21/15 22:57*	*DFM*	
Terphenyl-d14	*1.5*	*1*	*1.96*	*76 %*	*54-124*	*5D08043*	*EPA 8270D*	*04/21/15 22:57*	*DFM*	

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ANALYTICAL RESULTS

Description:	SB-A3 (10-12 ft)	**Lab Sample ID:**	C504553-05	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 12:40	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	84.99

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	**0.00744**	J	mg/kg dry	1	0.00541	0.0188	5D21018	EPA 7471B	04/22/15 14:59	T1D	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**5.1**		mg/kg dry	1	0.53	1.2	5D13030	EPA 350.1	04/14/15 11:29	SHA	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	2.4	12	5D13028	EPA 9056A	04/14/15 18:03	SHA	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	34	59	5D13028	EPA 9056A	04/14/15 18:03	SHA	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	**0.0304**		mg/kg dry	1	0.00214	0.00714	5D14011	EPA 8260C	04/14/15 19:05	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.04*	*1*	*5.00*	*81 %*	*70-130*	*5D14011*	*EPA 8260C*	*04/14/15 19:05*	*rgg*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	5	1.19	2.98	5D14025	EPA 6020A	04/15/15 11:35	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	5	3.03	5.95	5D14025	EPA 6020A	04/15/15 11:35	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	5	0.595	11.9	5D14025	EPA 6020A	04/15/15 11:35	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	5	0.774	5.95	5D14025	EPA 6020A	04/15/15 11:35	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	5	3.27	29.8	5D14025	EPA 6020A	04/15/15 11:35	JMA	R-01
Copper [7440-50-8]^	ND		mg/kg dry	5	1.31	5.95	5D14025	EPA 6020A	04/15/15 11:35	JMA	R-01
Iron [7439-89-6]^	**2250**	D	mg/kg dry	5	10.7	29.8	5D14025	EPA 6020A	04/15/15 11:35	JMA	R-01
Lead [7439-92-1]^	**6.49**	JD	mg/kg dry	5	1.43	29.8	5D14025	EPA 6020A	04/15/15 11:35	JMA	R-01
Manganese [7439-96-5]^	**2.57**	JD	mg/kg dry	5	1.67	5.95	5D14025	EPA 6020A	04/15/15 11:35	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	5	1.49	5.95	5D14025	EPA 6020A	04/15/15 11:35	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	5	5.41	5.95	5D14025	EPA 6020A	04/15/15 11:35	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	5	0.327	2.98	5D14025	EPA 6020A	04/15/15 11:35	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	5	0.220	5.95	5D14025	EPA 6020A	04/15/15 11:35	JMA	R-01
Zinc [7440-66-6]^	ND		mg/kg dry	5	7.74	29.8	5D14025	EPA 6020A	04/15/15 11:35	JMA	R-01

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ANALYTICAL RESULTS

Description:	Duplicate-4	**Lab Sample ID:**	C504553-06	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 00:00	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	86.73

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0006	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0004	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0003	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.010	0.046	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
2-Butanone [78-93-3]^	**0.0065**		mg/kg dry	1	0.0006	0.0038	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0006	0.0038	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0004	0.0038	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Acetone [67-64-1]^	**0.053**		mg/kg dry	1	0.0011	0.0038	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0001	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0003	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0003	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Carbon disulfide [75-15-0]^	**0.0006**	J	mg/kg dry	1	0.0003	0.0038	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0001	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0001	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0001	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0001	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0003	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0003	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0001	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0001	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0003	0.0015	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0006	0.0015	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0008	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	

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ANALYTICAL RESULTS

Description:	Duplicate-4	**Lab Sample ID:**	C504553-06	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 00:00	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	86.73

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0003	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0003	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	QL-02
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0002	0.0008	5D15023	EPA 8260B	04/15/15 19:49	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*48*	*1*	*50.0*	*95 %*	*50-127*	*5D15023*	*EPA 8260B*	*04/15/15 19:49*	*MSZ*	
Dibromofluoromethane	*63*	*1*	*50.0*	*125 %*	*52-128*	*5D15023*	*EPA 8260B*	*04/15/15 19:49*	*MSZ*	
Toluene-d8	*59*	*1*	*50.0*	*119 %*	*57-124*	*5D15023*	*EPA 8260B*	*04/15/15 19:49*	*MSZ*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.38	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.031	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.031	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.028	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.050	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.050	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.036	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.029	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.029	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.035	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.036	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.030	0.46	5D08043	EPA 8270D	04/21/15 23:25	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.11	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.042	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.031	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.11	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.030	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.061	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.036	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.044	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.38	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.38	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	

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ANALYTICAL RESULTS

Description:	Duplicate-4	**Lab Sample ID:**	C504553-06	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 00:00	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	86.73

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.021	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.054	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.029	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.050	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.028	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.040	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.046	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.38	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.035	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.059	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.031	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.047	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.042	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.033	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.030	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.030	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.045	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.024	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.054	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.035	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.032	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.030	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.093	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.062	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.038	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.031	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.025	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.044	0.38	5D08043	EPA 8270D	04/21/15 23:25	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.0*	*1*	*3.84*	*78 %*	*28-130*	*5D08043*	*EPA 8270D*	*04/21/15 23:25*	*DFM*	
2-Fluorobiphenyl	*1.3*	*1*	*1.92*	*70 %*	*49-105*	*5D08043*	*EPA 8270D*	*04/21/15 23:25*	*DFM*	
2-Fluorophenol	*2.8*	*1*	*3.84*	*74 %*	*28-95*	*5D08043*	*EPA 8270D*	*04/21/15 23:25*	*DFM*	
Nitrobenzene-d5	*1.4*	*1*	*1.92*	*72 %*	*50-117*	*5D08043*	*EPA 8270D*	*04/21/15 23:25*	*DFM*	
Phenol-d5	*2.9*	*1*	*3.84*	*75 %*	*21-184*	*5D08043*	*EPA 8270D*	*04/21/15 23:25*	*DFM*	
Terphenyl-d14	*1.4*	*1*	*1.92*	*71 %*	*54-124*	*5D08043*	*EPA 8270D*	*04/21/15 23:25*	*DFM*	

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ANALYTICAL RESULTS

Description:	Duplicate-4	**Lab Sample ID:**	C504553-06	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 00:00	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	86.73

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	**0.0217**	J	mg/kg dry	1	0.00702	0.0244	5D21018	EPA 7471B	04/22/15 15:01	T1D	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**30**	D	mg/kg dry	5	2.6	5.8	5D13030	EPA 350.1	04/14/15 13:08	SHA	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	2.4	12	5D13028	EPA 9056A	04/14/15 18:59	SHA	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	33	58	5D13028	EPA 9056A	04/14/15 18:59	SHA	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.00167	0.00555	5D14011	EPA 8260C	04/14/15 19:45	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.19*	*1*	*5.00*	*84 %*	*70-130*	*5D14011*	*EPA 8260C*	*04/14/15 19:45*	*rgg*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	10	2.32	5.79	5D14025	EPA 6020A	04/15/15 11:41	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	10	5.91	11.6	5D14025	EPA 6020A	04/15/15 11:41	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	10	1.16	23.2	5D14025	EPA 6020A	04/15/15 11:41	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	10	1.51	11.6	5D14025	EPA 6020A	04/15/15 11:41	JMA	R-01
Chromium [7440-47-3]^	**8.50**	JD	mg/kg dry	10	6.37	57.9	5D14025	EPA 6020A	04/15/15 11:41	JMA	R-01
Copper [7440-50-8]^	ND		mg/kg dry	10	2.55	11.6	5D14025	EPA 6020A	04/15/15 11:41	JMA	R-01
Iron [7439-89-6]^	**4510**	D	mg/kg dry	10	20.9	57.9	5D14025	EPA 6020A	04/15/15 11:41	JMA	R-01
Lead [7439-92-1]^	**7.43**	JD	mg/kg dry	10	2.78	57.9	5D14025	EPA 6020A	04/15/15 11:41	JMA	R-01
Manganese [7439-96-5]^	**13.4**	D	mg/kg dry	10	3.24	11.6	5D14025	EPA 6020A	04/15/15 11:41	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	10	2.90	11.6	5D14025	EPA 6020A	04/15/15 11:41	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	10	10.5	11.6	5D14025	EPA 6020A	04/15/15 11:41	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	10	0.637	5.79	5D14025	EPA 6020A	04/15/15 11:41	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	10	0.429	11.6	5D14025	EPA 6020A	04/15/15 11:41	JMA	R-01
Zinc [7440-66-6]^	ND		mg/kg dry	10	15.1	57.9	5D14025	EPA 6020A	04/15/15 11:41	JMA	R-01

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ANALYTICAL RESULTS

Description:	SB-A1 (0-2.5 ft)	**Lab Sample ID:**	C504553-07	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 10:35	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	85.40

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0008	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0005	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0004	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.013	0.060	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
2-Butanone [78-93-3]^	ND		mg/kg dry	1	0.0008	0.0050	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0007	0.0050	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0006	0.0050	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Acetone [67-64-1]^	**0.17**		mg/kg dry	1	0.0014	0.0050	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0004	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0004	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0004	0.0050	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0004	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0001	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0004	0.0020	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Methyl acetate [79-20-9]^	**0.0083**		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0007	0.0020	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0010	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	

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ANALYTICAL RESULTS

Description:	SB-A1 (0-2.5 ft)	**Lab Sample ID:**	C504553-07	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 10:35	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	85.40

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0004	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0004	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:16	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*88 %*	*50-127*	*5D17017*	*EPA 8260B*	*04/17/15 13:16*	*MSZ*	
Dibromofluoromethane	*67*	*1*	*50.0*	*133 %*	*52-128*	*5D17017*	*EPA 8260B*	*04/17/15 13:16*	*MSZ*	*QS-03*
Toluene-d8	*61*	*1*	*50.0*	*121 %*	*57-124*	*5D17017*	*EPA 8260B*	*04/17/15 13:16*	*MSZ*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.39	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.028	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.050	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.050	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.036	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.029	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.029	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.035	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.036	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.030	0.47	5D08043	EPA 8270D	04/21/15 23:52	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.11	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.042	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.11	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.030	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.062	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.036	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.044	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.39	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.39	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	

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ANALYTICAL RESULTS

Description:	SB-A1 (0-2.5 ft)	**Lab Sample ID:**	C504553-07	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 10:35	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	85.40

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.021	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.055	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.029	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.050	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.028	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.041	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.047	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.39	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.035	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.060	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.048	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.042	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.034	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.030	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.030	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.046	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.025	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.055	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.035	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.030	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.095	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.063	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.026	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.044	0.39	5D08043	EPA 8270D	04/21/15 23:52	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.1*	*1*	*3.90*	*79 %*	*28-130*	*5D08043*	*EPA 8270D*	*04/21/15 23:52*	*DFM*	
2-Fluorobiphenyl	*1.4*	*1*	*1.95*	*73 %*	*49-105*	*5D08043*	*EPA 8270D*	*04/21/15 23:52*	*DFM*	
2-Fluorophenol	*2.7*	*1*	*3.90*	*69 %*	*28-95*	*5D08043*	*EPA 8270D*	*04/21/15 23:52*	*DFM*	
Nitrobenzene-d5	*1.3*	*1*	*1.95*	*69 %*	*50-117*	*5D08043*	*EPA 8270D*	*04/21/15 23:52*	*DFM*	
Phenol-d5	*2.8*	*1*	*3.90*	*71 %*	*21-184*	*5D08043*	*EPA 8270D*	*04/21/15 23:52*	*DFM*	
Terphenyl-d14	*1.6*	*1*	*1.95*	*84 %*	*54-124*	*5D08043*	*EPA 8270D*	*04/21/15 23:52*	*DFM*	

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ANALYTICAL RESULTS

Description:	SB-A1 (0-2.5 ft)	**Lab Sample ID:**	C504553-07	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 10:35	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	85.40

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	**0.0491**		mg/kg dry	1	0.00622	0.0216	5D21018	EPA 7471B	04/22/15 15:03	T1D	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**1.1**	J	mg/kg dry	1	0.53	1.2	5D13030	EPA 350.1	04/14/15 11:32	SHA	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	2.4	12	5D13028	EPA 9056A	04/14/15 19:17	SHA	
Sulfate as SO4 [14808-79-8]	**34**	J	mg/kg dry	1	34	59	5D13028	EPA 9056A	04/14/15 19:17	SHA	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.00207	0.00691	5D14011	EPA 8260C	04/14/15 20:24	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*3.93*	*1*	*5.00*	*79 %*	*70-130*	*5D14011*	*EPA 8260C*	*04/14/15 20:24*	*rgg*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	10	2.30	5.76	5D14025	EPA 6020A	04/15/15 11:48	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	10	5.87	11.5	5D14025	EPA 6020A	04/15/15 11:48	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	10	1.15	23.0	5D14025	EPA 6020A	04/15/15 11:48	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	10	1.50	11.5	5D14025	EPA 6020A	04/15/15 11:48	JMA	R-01
Chromium [7440-47-3]^	**7.35**	JD	mg/kg dry	10	6.33	57.6	5D14025	EPA 6020A	04/15/15 11:48	JMA	R-01
Copper [7440-50-8]^	ND		mg/kg dry	10	2.53	11.5	5D14025	EPA 6020A	04/15/15 11:48	JMA	R-01
Iron [7439-89-6]^	**6050**	D	mg/kg dry	10	20.7	57.6	5D14025	EPA 6020A	04/15/15 11:48	JMA	R-01
Lead [7439-92-1]^	**5.36**	JD	mg/kg dry	10	2.76	57.6	5D14025	EPA 6020A	04/15/15 11:48	JMA	R-01
Manganese [7439-96-5]^	**8.74**	JD	mg/kg dry	10	3.22	11.5	5D14025	EPA 6020A	04/15/15 11:48	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	10	2.88	11.5	5D14025	EPA 6020A	04/15/15 11:48	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	10	10.5	11.5	5D14025	EPA 6020A	04/15/15 11:48	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	10	0.633	5.76	5D14025	EPA 6020A	04/15/15 11:48	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	10	0.426	11.5	5D14025	EPA 6020A	04/15/15 11:48	JMA	R-01
Zinc [7440-66-6]^	ND		mg/kg dry	10	15.0	57.6	5D14025	EPA 6020A	04/15/15 11:48	JMA	R-01

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ANALYTICAL RESULTS

Description:	SB-A1 (2.5-5.0 ft)	**Lab Sample ID:**	C504553-08	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 10:45	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	85.36

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0008	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0004	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0004	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.012	0.057	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
2-Butanone [78-93-3]^	**0.0077**		mg/kg dry	1	0.0007	0.0048	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0007	0.0048	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0005	0.0048	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Acetone [67-64-1]^	**0.38**		mg/kg dry	1	0.0013	0.0048	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0004	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0004	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Carbon disulfide [75-15-0]^	**0.0049**		mg/kg dry	1	0.0004	0.0048	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0004	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0001	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0004	0.0019	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0007	0.0019	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0009	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	

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ANALYTICAL RESULTS

Description:	SB-A1 (2.5-5.0 ft)	**Lab Sample ID:**	C504553-08	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 10:45	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	85.36

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0004	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0004	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0003	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	QL-02
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0002	0.0010	5D15023	EPA 8260B	04/15/15 20:52	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*44*	*1*	*50.0*	*89 %*	*50-127*	*5D15023*	*EPA 8260B*	*04/15/15 20:52*	*MSZ*	
Dibromofluoromethane	*57*	*1*	*50.0*	*115 %*	*52-128*	*5D15023*	*EPA 8260B*	*04/15/15 20:52*	*MSZ*	
Toluene-d8	*56*	*1*	*50.0*	*111 %*	*57-124*	*5D15023*	*EPA 8260B*	*04/15/15 20:52*	*MSZ*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.39	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.028	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.050	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.050	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.036	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.029	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.029	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.035	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.036	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.030	0.47	5D08043	EPA 8270D	04/22/15 00:20	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.11	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.042	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.11	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.030	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.062	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.036	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.045	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.39	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.39	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	

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ANALYTICAL RESULTS

Description:	SB-A1 (2.5-5.0 ft)	**Lab Sample ID:**	C504553-08	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 10:45	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	85.36

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.021	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.055	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.029	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.050	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.028	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.041	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.047	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.39	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.035	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.060	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.048	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.042	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.034	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.030	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.030	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.046	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.025	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.055	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.035	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.033	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.030	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.095	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.063	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.039	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.032	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.026	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.045	0.39	5D08043	EPA 8270D	04/22/15 00:20	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.1*	*1*	*3.90*	*79 %*	*28-130*	*5D08043*	*EPA 8270D*	*04/22/15 00:20*	*DFM*	
2-Fluorobiphenyl	*1.5*	*1*	*1.95*	*77 %*	*49-105*	*5D08043*	*EPA 8270D*	*04/22/15 00:20*	*DFM*	
2-Fluorophenol	*2.9*	*1*	*3.90*	*75 %*	*28-95*	*5D08043*	*EPA 8270D*	*04/22/15 00:20*	*DFM*	
Nitrobenzene-d5	*1.4*	*1*	*1.95*	*73 %*	*50-117*	*5D08043*	*EPA 8270D*	*04/22/15 00:20*	*DFM*	
Phenol-d5	*2.9*	*1*	*3.90*	*74 %*	*21-184*	*5D08043*	*EPA 8270D*	*04/22/15 00:20*	*DFM*	
Terphenyl-d14	*1.6*	*1*	*1.95*	*83 %*	*54-124*	*5D08043*	*EPA 8270D*	*04/22/15 00:20*	*DFM*	

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ANALYTICAL RESULTS

Description:	SB-A1 (2.5-5.0 ft)	**Lab Sample ID:**	C504553-08	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 10:45	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	85.36

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	**0.0344**		mg/kg dry	1	0.00808	0.0281	5D21018	EPA 7471B	04/22/15 15:05	T1D	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**35**	D	mg/kg dry	5	2.6	5.9	5D13030	EPA 350.1	04/14/15 13:13	SHA	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	2.4	12	5D13028	EPA 9056A	04/14/15 19:36	SHA	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	34	59	5D13028	EPA 9056A	04/14/15 19:36	SHA	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.00183	0.00611	5D14011	EPA 8260C	04/14/15 21:04	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.01*	*1*	*5.00*	*80 %*	*70-130*	*5D14011*	*EPA 8260C*	*04/14/15 21:04*	*rgg*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	4.86	12.1	5D14025	EPA 6020A	04/15/15 11:45	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	20	12.4	24.3	5D14025	EPA 6020A	04/15/15 11:45	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	2.43	48.6	5D14025	EPA 6020A	04/15/15 11:45	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.16	24.3	5D14025	EPA 6020A	04/15/15 11:45	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	20	13.4	121	5D14025	EPA 6020A	04/15/15 11:45	JMA	R-01
Copper [7440-50-8]^	ND		mg/kg dry	20	5.34	24.3	5D14025	EPA 6020A	04/15/15 11:45	JMA	R-01
Iron [7439-89-6]^	**12000**	D	mg/kg dry	20	43.7	121	5D14025	EPA 6020A	04/15/15 11:45	JMA	R-01
Lead [7439-92-1]^	**9.51**	JD	mg/kg dry	20	5.83	121	5D14025	EPA 6020A	04/15/15 11:45	JMA	R-01
Manganese [7439-96-5]^	**15.0**	JD	mg/kg dry	20	6.80	24.3	5D14025	EPA 6020A	04/15/15 11:45	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	20	6.07	24.3	5D14025	EPA 6020A	04/15/15 11:45	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	22.1	24.3	5D14025	EPA 6020A	04/15/15 11:45	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.34	12.1	5D14025	EPA 6020A	04/15/15 11:45	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	20	0.899	24.3	5D14025	EPA 6020A	04/15/15 11:45	JMA	R-01
Zinc [7440-66-6]^	ND		mg/kg dry	20	31.6	121	5D14025	EPA 6020A	04/15/15 11:45	JMA	R-01

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ANALYTICAL RESULTS

Description:	SB-A1 (5.0-7.5 ft)	**Lab Sample ID:**	C504553-09	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 10:55	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	82.93

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0008	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0005	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0004	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.013	0.062	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
2-Butanone [78-93-3]^	**0.018**		mg/kg dry	1	0.0008	0.0051	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0008	0.0051	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0006	0.0051	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Acetone [67-64-1]^	**0.10**		mg/kg dry	1	0.0014	0.0051	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0004	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0005	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0004	0.0051	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0004	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0005	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0004	0.0021	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Methyl acetate [79-20-9]^	**0.033**		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0008	0.0021	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0010	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	

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ANALYTICAL RESULTS

Description: SB-A1 (5.0-7.5 ft)	**Lab Sample ID:** C504553-09	**Received:** 04/09/15 09:00
Matrix: Soil	**Sampled:** 04/08/15 10:55	**Work Order:** C504553
Project: Edgecombe County Landfill	**Sampled By:** Ben Bradley	**% Solids:** 82.93

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0004	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0004	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0003	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0002	0.0010	5D17017	EPA 8260B	04/17/15 13:48	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*84 %*	*50-127*	*5D17017*	*EPA 8260B*	*04/17/15 13:48*	*MSZ*	
Dibromofluoromethane	*64*	*1*	*50.0*	*129 %*	*52-128*	*5D17017*	*EPA 8260B*	*04/17/15 13:48*	*MSZ*	*QS-03*
Toluene-d8	*58*	*1*	*50.0*	*115 %*	*57-124*	*5D17017*	*EPA 8260B*	*04/17/15 13:48*	*MSZ*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.40	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.033	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.033	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.029	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.052	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.052	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.034	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.037	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.034	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.030	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.034	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.030	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.036	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.037	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.031	0.48	5D08043	EPA 8270D	04/22/15 00:47	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.12	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.043	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.033	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.11	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.031	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.064	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.037	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.034	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.034	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.046	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.40	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.40	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.034	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	

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ANALYTICAL RESULTS

Description:	SB-A1 (5.0-7.5 ft)	**Lab Sample ID:**	C504553-09	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 10:55	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	82.93

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.022	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.057	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.030	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.052	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.029	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.042	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.048	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.40	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.036	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.061	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.033	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.034	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.049	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.043	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.035	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.031	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.031	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.047	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.025	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.057	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.036	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.034	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.031	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.098	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.065	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.040	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.033	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.027	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.046	0.40	5D08043	EPA 8270D	04/22/15 00:47	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.3*	*1*	*4.02*	*81 %*	*28-130*	*5D08043*	*EPA 8270D*	*04/22/15 00:47*	*DFM*	
2-Fluorobiphenyl	*1.5*	*1*	*2.01*	*74 %*	*49-105*	*5D08043*	*EPA 8270D*	*04/22/15 00:47*	*DFM*	
2-Fluorophenol	*3.0*	*1*	*4.02*	*74 %*	*28-95*	*5D08043*	*EPA 8270D*	*04/22/15 00:47*	*DFM*	
Nitrobenzene-d5	*1.4*	*1*	*2.01*	*72 %*	*50-117*	*5D08043*	*EPA 8270D*	*04/22/15 00:47*	*DFM*	
Phenol-d5	*3.0*	*1*	*4.02*	*75 %*	*21-184*	*5D08043*	*EPA 8270D*	*04/22/15 00:47*	*DFM*	
Terphenyl-d14	*1.5*	*1*	*2.01*	*75 %*	*54-124*	*5D08043*	*EPA 8270D*	*04/22/15 00:47*	*DFM*	

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ANALYTICAL RESULTS

Description:	SB-A1 (5.0-7.5 ft)	**Lab Sample ID:**	C504553-09	**Received:**	04/09/15 09:00
Matrix:	Soil	**Sampled:**	04/08/15 10:55	**Work Order:**	C504553
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley	**% Solids:**	82.93

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	**0.0282**		mg/kg dry	1	0.00520	0.0181	5D21018	EPA 7471B	04/22/15 15:08	T1D	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**45**	D	mg/kg dry	5	2.7	6.0	5D13030	EPA 350.1	04/14/15 13:15	SHA	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	2.5	12	5D13028	EPA 9056A	04/14/15 19:54	SHA	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	35	60	5D13028	EPA 9056A	04/14/15 19:54	SHA	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.00194	0.00646	5D15019	EPA 8260C	04/15/15 16:51	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.15*	*1*	*5.00*	*83 %*	*70-130*	*5D15019*	*EPA 8260C*	*04/15/15 16:51*	*rgg*	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	10	2.44	6.11	5D14025	EPA 6020A	04/15/15 12:08	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	10	6.23	12.2	5D14025	EPA 6020A	04/15/15 12:08	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	10	1.22	24.4	5D14025	EPA 6020A	04/15/15 12:08	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	10	1.59	12.2	5D14025	EPA 6020A	04/15/15 12:08	JMA	R-01
Chromium [7440-47-3]^	**8.41**	JD	mg/kg dry	10	6.72	61.1	5D14025	EPA 6020A	04/15/15 12:08	JMA	R-01
Copper [7440-50-8]^	**3.44**	JD	mg/kg dry	10	2.69	12.2	5D14025	EPA 6020A	04/15/15 12:08	JMA	R-01
Iron [7439-89-6]^	**8770**	D	mg/kg dry	10	22.0	61.1	5D14025	EPA 6020A	04/15/15 12:08	JMA	R-01
Lead [7439-92-1]^	**15.5**	JD	mg/kg dry	10	2.93	61.1	5D14025	EPA 6020A	04/15/15 12:08	JMA	R-01
Manganese [7439-96-5]^	**28.6**	D	mg/kg dry	10	3.42	12.2	5D14025	EPA 6020A	04/15/15 12:08	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	10	3.05	12.2	5D14025	EPA 6020A	04/15/15 12:08	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	10	11.1	12.2	5D14025	EPA 6020A	04/15/15 12:08	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	10	0.672	6.11	5D14025	EPA 6020A	04/15/15 12:08	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	10	0.452	12.2	5D14025	EPA 6020A	04/15/15 12:08	JMA	R-01
Zinc [7440-66-6]^	**32.1**	JD	mg/kg dry	10	15.9	61.1	5D14025	EPA 6020A	04/15/15 12:08	JMA	R-01

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ANALYTICAL RESULTS

Description: Trip Blank | **Lab Sample ID:** C504553-10 | **Received:** 04/09/15 09:00
Matrix: Water | **Sampled:** 04/08/15 10:35 | **Work Order:** C504553
Project: Edgecombe County Landfill | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		ug/L	1	0.12	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		ug/L	1	0.28	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		ug/L	1	0.14	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		ug/L	1	0.13	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		ug/L	1	0.21	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		ug/L	1	0.01	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		ug/L	1	0.14	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		ug/L	1	0.48	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		ug/L	1	0.66	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		ug/L	1	0.19	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		ug/L	1	0.21	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		ug/L	1	0.10	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		ug/L	1	0.15	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		ug/L	1	0.19	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
1,4-Dioxane [123-91-1]^	ND		ug/L	1	25	60	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
2-Butanone [78-93-3]^	ND		ug/L	1	1.3	5.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
2-Hexanone [591-78-6]^	ND		ug/L	1	0.88	5.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		ug/L	1	1.1	5.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Acetone [67-64-1]^	ND		ug/L	1	1.2	5.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Benzene [71-43-2]^	ND		ug/L	1	0.15	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Bromochloromethane [74-97-5]^	ND		ug/L	1	0.48	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Bromodichloromethane [75-27-4]^	ND		ug/L	1	0.17	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Bromoform [75-25-2]^	ND		ug/L	1	0.22	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Bromomethane [74-83-9]^	ND		ug/L	1	0.14	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Carbon disulfide [75-15-0]^	ND		ug/L	1	1.5	5.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		ug/L	1	0.17	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Chlorobenzene [108-90-7]^	ND		ug/L	1	0.17	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Chloroethane [75-00-3]^	ND		ug/L	1	0.23	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Chloroform [67-66-3]^	ND		ug/L	1	0.18	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Chloromethane [74-87-3]^	ND		ug/L	1	0.13	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		ug/L	1	0.15	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		ug/L	1	0.20	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Cyclohexane [110-82-7]^	ND		ug/L	1	0.36	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Dibromochloromethane [124-48-1]^	ND		ug/L	1	0.17	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		ug/L	1	0.20	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Ethylbenzene [100-41-4]^	ND		ug/L	1	0.13	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Freon 113 [76-13-1]^	ND		ug/L	1	0.35	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Isopropylbenzene [98-82-8]^	ND		ug/L	1	0.14	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		ug/L	1	0.17	2.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Methyl acetate [79-20-9]^	ND		ug/L	1	0.51	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Methyl cyclohexane [108-87-2]^	ND		ug/L	1	0.54	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Methylene Chloride [75-09-2]^	ND		ug/L	1	0.23	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		ug/L	1	0.16	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
o-Xylene [95-47-6]^	ND		ug/L	1	0.06	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Styrene [100-42-5]^	ND		ug/L	1	0.11	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Tetrachloroethene [127-18-4]^	ND		ug/L	1	0.17	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Toluene [108-88-3]^	ND		ug/L	1	0.14	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	

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ANALYTICAL RESULTS

Description: Trip Blank | **Lab Sample ID:** C504553-10 | **Received:** 04/09/15 09:00

Matrix: Water | **Sampled:** 04/08/15 10:35 | **Work Order:** C504553

Project: Edgecombe County Landfill | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		ug/L	1	0.21	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		ug/L	1	0.15	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Trichloroethene [79-01-6]^	ND		ug/L	1	0.15	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		ug/L	1	0.24	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	
Vinyl chloride [75-01-4]^	ND		ug/L	1	0.32	1.0	5D15027	EPA 8260B	04/16/15 16:00	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*56*	*1*	*50.0*	*112 %*	*53-136*	*5D15027*	*EPA 8260B*	*04/16/15 16:00*	*MSZ*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*67-129*	*5D15027*	*EPA 8260B*	*04/16/15 16:00*	*MSZ*	
Toluene-d8	*55*	*1*	*50.0*	*110 %*	*59-134*	*5D15027*	*EPA 8260B*	*04/16/15 16:00*	*MSZ*	

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D14028 - EPA 5035_MS

Blank (5D14028-BLK1) Prepared: 04/14/2015 08:26 Analyzed: 04/14/2015 12:59

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.0002	U	0.0010	mg/kg wet							
1,1,2-Trichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1-Dichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1-Dichloroethene	0.0003	U	0.0010	mg/kg wet							
1,2,3-Trichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2,4-Trichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.0008	U	0.0010	mg/kg wet							
1,2-Dibromoethane	0.0005	U	0.0010	mg/kg wet							
1,2-Dichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2-Dichloroethane	0.0004	U	0.0010	mg/kg wet							
1,2-Dichloropropane	0.0003	U	0.0010	mg/kg wet							
1,3-Dichlorobenzene	0.0002	U	0.0010	mg/kg wet							
1,4-Dichlorobenzene	0.0002	U	0.0010	mg/kg wet							
1,4-Dioxane	0.013	U	0.060	mg/kg wet							
2-Butanone	0.0008	U	0.0050	mg/kg wet							
2-Hexanone	0.0008	U	0.0050	mg/kg wet							
4-Methyl-2-pentanone	0.0006	U	0.0050	mg/kg wet							
Acetone	0.0014	U	0.0050	mg/kg wet							
Benzene	0.0002	U	0.0010	mg/kg wet							
Bromochloromethane	0.0004	U	0.0010	mg/kg wet							
Bromodichloromethane	0.0002	U	0.0010	mg/kg wet							
Bromoform	0.0004	U	0.0010	mg/kg wet							
Bromomethane	0.0003	U	0.0010	mg/kg wet							
Carbon disulfide	0.0004	U	0.0050	mg/kg wet							
Carbon Tetrachloride	0.0002	U	0.0010	mg/kg wet							
Chlorobenzene	0.0002	U	0.0010	mg/kg wet							
Chloroethane	0.0002	U	0.0010	mg/kg wet							
Chloroform	0.0002	U	0.0010	mg/kg wet							
Chloromethane	0.0002	U	0.0010	mg/kg wet							
cis-1,2-Dichloroethene	0.0002	U	0.0010	mg/kg wet							
cis-1,3-Dichloropropene	0.0002	U	0.0010	mg/kg wet							
Cyclohexane	0.0002	U	0.0010	mg/kg wet							
Dibromochloromethane	0.0004	U	0.0010	mg/kg wet							
Dichlorodifluoromethane	0.0004	U	0.0010	mg/kg wet							
Ethylbenzene	0.0002	U	0.0010	mg/kg wet							
Freon 113	0.0002	U	0.0010	mg/kg wet							
Isopropylbenzene	0.0002	U	0.0010	mg/kg wet							
m,p-Xylenes	0.0004	U	0.0020	mg/kg wet							
Methyl acetate	0.0002	U	0.0010	mg/kg wet							
Methyl cyclohexane	0.0003	U	0.0010	mg/kg wet							
Methylene Chloride	0.0007	U	0.0020	mg/kg wet							
Methyl-tert-Butyl Ether	0.0003	U	0.0010	mg/kg wet							
o-Xylene	0.0002	U	0.0010	mg/kg wet							
Styrene	0.0010	U	0.0010	mg/kg wet							
Tetrachloroethene	0.0003	U	0.0010	mg/kg wet							
Toluene	0.0002	U	0.0010	mg/kg wet							
trans-1,2-Dichloroethene	0.0004	U	0.0010	mg/kg wet							
trans-1,3-Dichloropropene	0.0004	U	0.0010	mg/kg wet							

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D14028 - EPA 5035_MS - Continued

Blank (5D14028-BLK1) Continued Prepared: 04/14/2015 08:26 Analyzed: 04/14/2015 12:59

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	0.0003	U	0.0010	mg/kg wet							
Trichlorofluoromethane	0.0003	U	0.0010	mg/kg wet							
Vinyl chloride	0.0002	U	0.0010	mg/kg wet							
4-Bromofluorobenzene	*46*			*ug/L*	*50.0*		*93*	*50-127*			
Dibromofluoromethane	*56*			*ug/L*	*50.0*		*113*	*52-128*			
Toluene-d8	*54*			*ug/L*	*50.0*		*109*	*57-124*			

LCS (5D14028-BS1) Prepared: 04/14/2015 08:26 Analyzed: 04/14/2015 13:31

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	0.025		0.0010	mg/kg wet	0.0200		124	64-133			
Benzene	0.022		0.0010	mg/kg wet	0.0200		112	79-129			
Chlorobenzene	0.020		0.0010	mg/kg wet	0.0200		100	79-121			
Toluene	0.017		0.0010	mg/kg wet	0.0200		87	77-120			
Trichloroethene	0.021		0.0010	mg/kg wet	0.0200		106	78-118			
4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*97*	*50-127*			
Dibromofluoromethane	*56*			*ug/L*	*50.0*		*112*	*52-128*			
Toluene-d8	*53*			*ug/L*	*50.0*		*107*	*57-124*			

Matrix Spike (5D14028-MS1) Prepared: 04/14/2015 08:26 Analyzed: 04/14/2015 14:02

Source: C504470-09

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	0.026		0.0010	mg/kg wet	0.0200	0.0003 U	132	64-133			
Benzene	0.023		0.0010	mg/kg wet	0.0200	0.0002 U	116	79-129			
Chlorobenzene	0.021		0.0010	mg/kg wet	0.0200	0.0002 U	105	79-121			
Toluene	0.019		0.0010	mg/kg wet	0.0200	0.0002 U	94	77-120			
Trichloroethene	0.022		0.0010	mg/kg wet	0.0200	0.0003 U	110	78-118			
4-Bromofluorobenzene	*50*			*ug/L*	*50.0*		*100*	*50-127*			
Dibromofluoromethane	*57*			*ug/L*	*50.0*		*115*	*52-128*			
Toluene-d8	*56*			*ug/L*	*50.0*		*112*	*57-124*			

Matrix Spike Dup (5D14028-MSD1) Prepared: 04/14/2015 14:26 Analyzed: 04/14/2015 14:34

Source: C504470-09

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	0.026		0.0010	mg/kg wet	0.0200	0.0003 U	129	64-133	3	23	
Benzene	0.022		0.0010	mg/kg wet	0.0200	0.0002 U	112	79-129	3	23	
Chlorobenzene	0.020		0.0010	mg/kg wet	0.0200	0.0002 U	102	79-121	3	25	
Toluene	0.018		0.0010	mg/kg wet	0.0200	0.0002 U	92	77-120	3	23	
Trichloroethene	0.022		0.0010	mg/kg wet	0.0200	0.0003 U	110	78-118	0.7	24	
4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*50-127*			
Dibromofluoromethane	*55*			*ug/L*	*50.0*		*110*	*52-128*			
Toluene-d8	*53*			*ug/L*	*50.0*		*105*	*57-124*			

Batch 5D15023 - EPA 5035_MS

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D15023 - EPA 5035_MS - Continued

Blank (5D15023-BLK1) Prepared: 04/15/2015 14:44 Analyzed: 04/15/2015 15:01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.0002	U	0.0010	mg/kg wet							
1,1,2-Trichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1-Dichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1-Dichloroethene	0.0003	U	0.0010	mg/kg wet							
1,2,3-Trichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2,4-Trichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.0008	U	0.0010	mg/kg wet							
1,2-Dibromoethane	0.0005	U	0.0010	mg/kg wet							
1,2-Dichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2-Dichloroethane	0.0004	U	0.0010	mg/kg wet							
1,2-Dichloropropane	0.0003	U	0.0010	mg/kg wet							
1,3-Dichlorobenzene	0.0002	U	0.0010	mg/kg wet							
1,4-Dichlorobenzene	0.0002	U	0.0010	mg/kg wet							
1,4-Dioxane	0.013	U	0.060	mg/kg wet							
2-Butanone	0.0008	U	0.0050	mg/kg wet							
2-Hexanone	0.0008	U	0.0050	mg/kg wet							
4-Methyl-2-pentanone	0.0006	U	0.0050	mg/kg wet							
Acetone	0.0014	U	0.0050	mg/kg wet							
Benzene	0.0002	U	0.0010	mg/kg wet							
Bromochloromethane	0.0004	U	0.0010	mg/kg wet							
Bromodichloromethane	0.0002	U	0.0010	mg/kg wet							
Bromoform	0.0004	U	0.0010	mg/kg wet							
Bromomethane	0.0003	U	0.0010	mg/kg wet							
Carbon disulfide	0.0004	U	0.0050	mg/kg wet							
Carbon Tetrachloride	0.0002	U	0.0010	mg/kg wet							
Chlorobenzene	0.0002	U	0.0010	mg/kg wet							
Chloroethane	0.0002	U	0.0010	mg/kg wet							
Chloroform	0.0002	U	0.0010	mg/kg wet							
Chloromethane	0.0002	U	0.0010	mg/kg wet							
cis-1,2-Dichloroethene	0.0002	U	0.0010	mg/kg wet							
cis-1,3-Dichloropropene	0.0002	U	0.0010	mg/kg wet							
Cyclohexane	0.0002	U	0.0010	mg/kg wet							
Dibromochloromethane	0.0004	U	0.0010	mg/kg wet							
Dichlorodifluoromethane	0.0004	U	0.0010	mg/kg wet							
Ethylbenzene	0.0002	U	0.0010	mg/kg wet							
Freon 113	0.0002	U	0.0010	mg/kg wet							
Isopropylbenzene	0.0002	U	0.0010	mg/kg wet							
m,p-Xylenes	0.0004	U	0.0020	mg/kg wet							
Methyl acetate	0.0002	U	0.0010	mg/kg wet							
Methyl cyclohexane	0.0003	U	0.0010	mg/kg wet							
Methylene Chloride	0.0007	U	0.0020	mg/kg wet							
Methyl-tert-Butyl Ether	0.0003	U	0.0010	mg/kg wet							
o-Xylene	0.0002	U	0.0010	mg/kg wet							
Styrene	0.0010	U	0.0010	mg/kg wet							
Tetrachloroethene	0.0003	U	0.0010	mg/kg wet							
Toluene	0.0002	U	0.0010	mg/kg wet							
trans-1,2-Dichloroethene	0.0004	U	0.0010	mg/kg wet							
trans-1,3-Dichloropropene	0.0004	U	0.0010	mg/kg wet							

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D15023 - EPA 5035_MS - Continued

Blank (5D15023-BLK1) Continued Prepared: 04/15/2015 14:44 Analyzed: 04/15/2015 15:01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	0.0003	U	0.0010	mg/kg wet							
Trichlorofluoromethane	0.0003	U	0.0010	mg/kg wet							
Vinyl chloride	0.0002	U	0.0010	mg/kg wet							
4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*95*	*50-127*			
Dibromofluoromethane	*64*			*ug/L*	*50.0*		*128*	*52-128*			
Toluene-d8	*59*			*ug/L*	*50.0*		*119*	*57-124*			

LCS (5D15023-BS1) Prepared: 04/15/2015 14:44 Analyzed: 04/15/2015 15:33

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	0.025		0.0010	mg/kg wet	0.0200		126	64-133			
Benzene	0.026		0.0010	mg/kg wet	0.0200		129	79-129			
Chlorobenzene	0.022		0.0010	mg/kg wet	0.0200		111	79-121			
Toluene	0.019		0.0010	mg/kg wet	0.0200		95	77-120			
Trichloroethene	0.024		0.0010	mg/kg wet	0.0200		122	78-118			QL-02
4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*93*	*50-127*			
Dibromofluoromethane	*54*			*ug/L*	*50.0*		*108*	*52-128*			
Toluene-d8	*57*			*ug/L*	*50.0*		*113*	*57-124*			

Matrix Spike (5D15023-MS1) Prepared: 04/15/2015 14:44 Analyzed: 04/15/2015 16:05

Source: C504649-09

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	0.027		0.0010	mg/kg wet	0.0200	0.0003 U	136	64-133			QM-07
Benzene	0.026		0.0010	mg/kg wet	0.0200	0.0002 U	129	79-129			
Chlorobenzene	0.023		0.0010	mg/kg wet	0.0200	0.0002 U	116	79-121			
Toluene	0.020		0.0010	mg/kg wet	0.0200	0.0002 U	100	77-120			
Trichloroethene	0.025		0.0010	mg/kg wet	0.0200	0.0003 U	123	78-118			QM-07
4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*50-127*			
Dibromofluoromethane	*58*			*ug/L*	*50.0*		*116*	*52-128*			
Toluene-d8	*57*			*ug/L*	*50.0*		*113*	*57-124*			

Matrix Spike Dup (5D15023-MSD1) Prepared: 04/15/2015 14:44 Analyzed: 04/15/2015 16:37

Source: C504649-09

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	0.029		0.0010	mg/kg wet	0.0200	0.0003 U	143	64-133	5	23	QM-07
Benzene	0.026		0.0010	mg/kg wet	0.0200	0.0002 U	131	79-129	2	23	QM-07
Chlorobenzene	0.023		0.0010	mg/kg wet	0.0200	0.0002 U	114	79-121	2	25	
Toluene	0.020		0.0010	mg/kg wet	0.0200	0.0002 U	102	77-120	2	23	
Trichloroethene	0.027		0.0010	mg/kg wet	0.0200	0.0003 U	133	78-118	7	24	QM-07
4-Bromofluorobenzene	*48*			*ug/L*	*50.0*		*96*	*50-127*			
Dibromofluoromethane	*59*			*ug/L*	*50.0*		*119*	*52-128*			
Toluene-d8	*57*			*ug/L*	*50.0*		*115*	*57-124*			

Batch 5D15027 - EPA 5030B_MS

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D15027 - EPA 5030B_MS - Continued

Blank (5D15027-BLK1) Prepared: 04/15/2015 15:37 Analyzed: 04/16/2015 13:05

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.01	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
1,4-Dioxane	25	U	60	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon Tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Cyclohexane	0.36	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Freon 113	0.35	U	1.0	ug/L							
Isopropylbenzene	0.14	U	1.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methyl acetate	0.51	U	1.0	ug/L							
Methyl cyclohexane	0.54	U	1.0	ug/L							
Methylene Chloride	0.23	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.16	U	1.0	ug/L							
o-Xylene	0.06	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D15027 - EPA 5030B_MS - Continued

Blank (5D15027-BLK1) Continued Prepared: 04/15/2015 15:37 Analyzed: 04/16/2015 13:05

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
4-Bromofluorobenzene	*56*			*ug/L*	*50.0*		*112*	*53-136*			
Dibromofluoromethane	*53*			*ug/L*	*50.0*		*107*	*67-129*			
Toluene-d8	*55*			*ug/L*	*50.0*		*109*	*59-134*			

LCS (5D15027-BS1) Prepared: 04/15/2015 15:37 Analyzed: 04/16/2015 14:03

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0		97	75-133			
Benzene	19		1.0	ug/L	20.0		97	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		102	83-117			
Cyclohexane	17		1.0	ug/L	20.0		84	0-200			
Methyl acetate	23		1.0	ug/L	20.0		113	0-200			
Methyl cyclohexane	20		1.0	ug/L	20.0		98	0-200			
Toluene	18		1.0	ug/L	20.0		90	71-118			
Trichloroethene	24		1.0	ug/L	20.0		118	74-119			
4-Bromofluorobenzene	*59*			*ug/L*	*50.0*		*118*	*53-136*			
Dibromofluoromethane	*52*			*ug/L*	*50.0*		*105*	*67-129*			
Toluene-d8	*56*			*ug/L*	*50.0*		*113*	*59-134*			

Matrix Spike (5D15027-MS1) Prepared: 04/15/2015 15:37 Analyzed: 04/16/2015 13:34

Source: C504649-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.21 U	106	75-133			
Benzene	20		1.0	ug/L	20.0	0.15 U	99	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	100	83-117			
Cyclohexane	17		1.0	ug/L	20.0	0.36 U	86	0-200			
Methyl acetate	23		1.0	ug/L	20.0	0.51 U	113	0-200			
Methyl cyclohexane	19		1.0	ug/L	20.0	0.54 U	96	0-200			
Toluene	18		1.0	ug/L	20.0	0.14 U	89	71-118			
Trichloroethene	25		1.0	ug/L	20.0	0.15 U	126	74-119			QM-07
4-Bromofluorobenzene	*58*			*ug/L*	*50.0*		*117*	*53-136*			
Dibromofluoromethane	*51*			*ug/L*	*50.0*		*103*	*67-129*			
Toluene-d8	*55*			*ug/L*	*50.0*		*110*	*59-134*			

Matrix Spike Dup (5D15027-MSD1) Prepared: 04/15/2015 15:37 Analyzed: 04/16/2015 14:32

Source: C504649-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.21 U	99	75-133	6	20	
Benzene	19		1.0	ug/L	20.0	0.15 U	94	81-134	5	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	98	83-117	3	16	
Cyclohexane	16		1.0	ug/L	20.0	0.36 U	81	0-200	7	50	
Methyl acetate	23		1.0	ug/L	20.0	0.51 U	113	0-200	0.4	50	
Methyl cyclohexane	17		1.0	ug/L	20.0	0.54 U	87	0-200	10	50	
Toluene	18		1.0	ug/L	20.0	0.14 U	88	71-118	0.8	17	

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D15027 - EPA 5030B_MS - Continued

Matrix Spike Dup (5D15027-MSD1) Continued Prepared: 04/15/2015 15:37 Analyzed: 04/16/2015 14:32

Source: C504649-08

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	24		1.0	ug/L	20.0	0.15 U	120	74-119	5	22	QM-07
4-Bromofluorobenzene	*59*			*ug/L*	*50.0*		*118*	*53-136*			
Dibromofluoromethane	*53*			*ug/L*	*50.0*		*106*	*67-129*			
Toluene-d8	*57*			*ug/L*	*50.0*		*115*	*59-134*			

Batch 5D17017 - EPA 5035_MS

Blank (5D17017-BLK1) Prepared: 04/17/2015 10:18 Analyzed: 04/17/2015 10:38

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.0002	U	0.0010	mg/kg wet							
1,1,2-Trichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1-Dichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1-Dichloroethene	0.0003	U	0.0010	mg/kg wet							
1,2,3-Trichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2,4-Trichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.0008	U	0.0010	mg/kg wet							
1,2-Dibromoethane	0.0005	U	0.0010	mg/kg wet							
1,2-Dichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2-Dichloroethane	0.0004	U	0.0010	mg/kg wet							
1,2-Dichloropropane	0.0003	U	0.0010	mg/kg wet							
1,3-Dichlorobenzene	0.0002	U	0.0010	mg/kg wet							
1,4-Dichlorobenzene	0.0002	U	0.0010	mg/kg wet							
1,4-Dioxane	0.013	U	0.060	mg/kg wet							
2-Butanone	0.0008	U	0.0050	mg/kg wet							
2-Hexanone	0.0008	U	0.0050	mg/kg wet							
4-Methyl-2-pentanone	0.0006	U	0.0050	mg/kg wet							
Acetone	0.0014	U	0.0050	mg/kg wet							
Benzene	0.0002	U	0.0010	mg/kg wet							
Bromochloromethane	0.0004	U	0.0010	mg/kg wet							
Bromodichloromethane	0.0002	U	0.0010	mg/kg wet							
Bromoform	0.0004	U	0.0010	mg/kg wet							
Bromomethane	0.0003	U	0.0010	mg/kg wet							
Carbon disulfide	0.0004	U	0.0050	mg/kg wet							
Carbon Tetrachloride	0.0002	U	0.0010	mg/kg wet							
Chlorobenzene	0.0002	U	0.0010	mg/kg wet							
Chloroethane	0.0002	U	0.0010	mg/kg wet							
Chloroform	0.0002	U	0.0010	mg/kg wet							
Chloromethane	0.0002	U	0.0010	mg/kg wet							
cis-1,2-Dichloroethene	0.0002	U	0.0010	mg/kg wet							
cis-1,3-Dichloropropene	0.0002	U	0.0010	mg/kg wet							
Cyclohexane	0.0002	U	0.0010	mg/kg wet							
Dibromochloromethane	0.0004	U	0.0010	mg/kg wet							
Dichlorodifluoromethane	0.0004	U	0.0010	mg/kg wet							
Ethylbenzene	0.0002	U	0.0010	mg/kg wet							
Freon 113	0.0002	U	0.0010	mg/kg wet							
Isopropylbenzene	0.0002	U	0.0010	mg/kg wet							
m,p-Xylenes	0.0004	U	0.0020	mg/kg wet							

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D17017 - EPA 5035_MS - Continued

Blank (5D17017-BLK1) Continued Prepared: 04/17/2015 10:18 Analyzed: 04/17/2015 10:38

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl acetate	0.0002	U	0.0010	mg/kg wet							
Methyl cyclohexane	0.0003	U	0.0010	mg/kg wet							
Methylene Chloride	0.0007	U	0.0020	mg/kg wet							
Methyl-tert-Butyl Ether	0.0003	U	0.0010	mg/kg wet							
o-Xylene	0.0002	U	0.0010	mg/kg wet							
Styrene	0.0010	U	0.0010	mg/kg wet							
Tetrachloroethene	0.0003	U	0.0010	mg/kg wet							
Toluene	0.0002	U	0.0010	mg/kg wet							
trans-1,2-Dichloroethene	0.0004	U	0.0010	mg/kg wet							
trans-1,3-Dichloropropene	0.0004	U	0.0010	mg/kg wet							
Trichloroethene	0.0003	U	0.0010	mg/kg wet							
Trichlorofluoromethane	0.0003	U	0.0010	mg/kg wet							
Vinyl chloride	0.0002	U	0.0010	mg/kg wet							
4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*88*	*50-127*			
Dibromofluoromethane	*65*			*ug/L*	*50.0*		*129*	*52-128*			*QS-03*
Toluene-d8	*60*			*ug/L*	*50.0*		*119*	*57-124*			

LCS (5D17017-BS1) Prepared: 04/17/2015 10:18 Analyzed: 04/17/2015 12:13

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	0.024		0.0010	mg/kg wet	0.0200		119	64-133			
Benzene	0.024		0.0010	mg/kg wet	0.0200		120	79-129			
Chlorobenzene	0.020		0.0010	mg/kg wet	0.0200		101	79-121			
Toluene	0.017		0.0010	mg/kg wet	0.0200		85	77-120			
Trichloroethene	0.023		0.0010	mg/kg wet	0.0200		117	78-118			
4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*87*	*50-127*			
Dibromofluoromethane	*58*			*ug/L*	*50.0*		*117*	*52-128*			
Toluene-d8	*55*			*ug/L*	*50.0*		*111*	*57-124*			

Matrix Spike (5D17017-MS1) Prepared: 04/17/2015 11:18 Analyzed: 04/17/2015 11:41

Source: C504770-03

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	0.026		0.0010	mg/kg wet	0.0200	0.0003 U	129	64-133			
Benzene	0.026		0.0010	mg/kg wet	0.0200	0.0002 U	132	79-129			QM-07
Chlorobenzene	0.022		0.0010	mg/kg wet	0.0200	0.0002 U	109	79-121			
Toluene	0.018		0.0010	mg/kg wet	0.0200	0.0002 U	91	77-120			
Trichloroethene	0.026		0.0010	mg/kg wet	0.0200	0.0003 U	129	78-118			QM-07
4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*94*	*50-127*			
Dibromofluoromethane	*64*			*ug/L*	*50.0*		*127*	*52-128*			
Toluene-d8	*60*			*ug/L*	*50.0*		*121*	*57-124*			

Matrix Spike Dup (5D17017-MSD1) Prepared: 04/17/2015 10:18 Analyzed: 04/17/2015 11:10

Source: C504770-03

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	0.024		0.0010	mg/kg wet	0.0200	0.0003 U	120	64-133	7	23	
Benzene	0.026		0.0010	mg/kg wet	0.0200	0.0002 U	128	79-129	3	23	
Chlorobenzene	0.021		0.0010	mg/kg wet	0.0200	0.0002 U	106	79-121	3	25	

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D17017 - EPA 5035_MS - Continued

Matrix Spike Dup (5D17017-MSD1) Continued Prepared: 04/17/2015 10:18 Analyzed: 04/17/2015 11:10

Source: C504770-03

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Toluene	0.018		0.0010	mg/kg wet	0.0200	0.0002 U	92	77-120	2	23	
Trichloroethene	0.026		0.0010	mg/kg wet	0.0200	0.0003 U	128	78-118	0.3	24	QM-07
4-Bromofluorobenzene	*47*			*ug/L*	*50.0*		*93*	*50-127*			
Dibromofluoromethane	*61*			*ug/L*	*50.0*		*122*	*52-128*			
Toluene-d8	*60*			*ug/L*	*50.0*		*120*	*57-124*			

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5D08043 - EPA 3550C_MS

Blank (5D08043-BLK1) Prepared: 04/09/2015 13:30 Analyzed: 04/15/2015 18:57

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1'-Biphenyl	0.33	U	0.33	mg/kg wet							
1,2,4,5-Tetrachlorobenzene	0.033	U	0.33	mg/kg wet							
2,3,4,6-Tetrachlorophenol	0.033	U	0.33	mg/kg wet							
2,4,5-Trichlorophenol	0.027	U	0.33	mg/kg wet							
2,4,6-Trichlorophenol	0.027	U	0.33	mg/kg wet							
2,4-Dichlorophenol	0.024	U	0.33	mg/kg wet							
2,4-Dimethylphenol	0.043	U	0.33	mg/kg wet							
2,4-Dinitrophenol	0.043	U	0.33	mg/kg wet							QV-02
2,4-Dinitrotoluene	0.028	U	0.33	mg/kg wet							
2,6-Dinitrotoluene	0.031	U	0.33	mg/kg wet							
2-Chloronaphthalene	0.028	U	0.33	mg/kg wet							
2-Chlorophenol	0.025	U	0.33	mg/kg wet							
2-Methyl-4,6-dinitrophenol	0.033	U	0.33	mg/kg wet							
2-Methylnaphthalene	0.028	U	0.33	mg/kg wet							
2-Methylphenol	0.025	U	0.33	mg/kg wet							
2-Nitroaniline	0.030	U	0.33	mg/kg wet							
2-Nitrophenol	0.031	U	0.33	mg/kg wet							
3 & 4-Methylphenol	0.026	U	0.40	mg/kg wet							
3,3'-Dichlorobenzidine	0.098	U	0.33	mg/kg wet							
3-Nitroaniline	0.036	U	0.33	mg/kg wet							
4-Bromophenyl-phenylether	0.027	U	0.33	mg/kg wet							
4-Chloro-3-methylphenol	0.033	U	0.33	mg/kg wet							
4-Chloroaniline	0.093	U	0.33	mg/kg wet							
4-Chlorophenyl-phenylether	0.026	U	0.33	mg/kg wet							
4-Nitroaniline	0.053	U	0.33	mg/kg wet							
4-Nitrophenol	0.031	U	0.33	mg/kg wet							
Acenaphthene	0.028	U	0.33	mg/kg wet							
Acenaphthylene	0.028	U	0.33	mg/kg wet							
Acetophenone	0.033	U	0.33	mg/kg wet							
Anthracene	0.038	U	0.33	mg/kg wet							
Atrazine	0.33	U	0.33	mg/kg wet							
Benzaldehyde	0.33	U	0.33	mg/kg wet							
Benzo(a)anthracene	0.028	U	0.33	mg/kg wet							
Benzo(a)pyrene	0.033	U	0.33	mg/kg wet							
Benzo(b)fluoranthene	0.018	U	0.33	mg/kg wet							
Benzo(g,h,i)perylene	0.047	U	0.33	mg/kg wet							

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5D08043 - EPA 3550C_MS - Continued

Blank (5D08043-BLK1) Continued Prepared: 04/09/2015 13:30 Analyzed: 04/15/2015 18:57

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Benzo(k)fluoranthene	0.033	U	0.33	mg/kg wet							
Bis(2-chloroethoxy)methane	0.025	U	0.33	mg/kg wet							
Bis(2-chloroethyl)ether	0.043	U	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	0.024	U	0.33	mg/kg wet							
Bis(2-ethylhexyl)phthalate	0.035	U	0.33	mg/kg wet							
Butylbenzylphthalate	0.040	U	0.33	mg/kg wet							
Caprolactam	0.33	U	0.33	mg/kg wet							
Carbazole	0.033	U	0.33	mg/kg wet							
Chrysene	0.030	U	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	0.051	U	0.33	mg/kg wet							
Dibenzofuran	0.027	U	0.33	mg/kg wet							
Diethylphthalate	0.028	U	0.33	mg/kg wet							
Dimethylphthalate	0.033	U	0.33	mg/kg wet							
Di-n-butylphthalate	0.041	U	0.33	mg/kg wet							
Di-n-octylphthalate	0.033	U	0.33	mg/kg wet							
Fluoranthene	0.036	U	0.33	mg/kg wet							
Fluorene	0.029	U	0.33	mg/kg wet							
Hexachlorobenzene	0.026	U	0.33	mg/kg wet							
Hexachlorobutadiene	0.026	U	0.33	mg/kg wet							
Hexachlorocyclopentadiene	0.039	U	0.33	mg/kg wet							QV-02
Hexachloroethane	0.021	U	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	0.047	U	0.33	mg/kg wet							
Isophorone	0.030	U	0.33	mg/kg wet							
Naphthalene	0.028	U	0.33	mg/kg wet							
Nitrobenzene	0.026	U	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	0.081	U	0.33	mg/kg wet							
N-nitrosodiphenylamine/Diphenylamine	0.054	U	0.33	mg/kg wet							
Pentachlorophenol	0.033	U	0.33	mg/kg wet							
Phenanthrene	0.027	U	0.33	mg/kg wet							
Phenol	0.022	U	0.33	mg/kg wet							
Pyrene	0.038	U	0.33	mg/kg wet							
2,4,6-Tribromophenol	*2.7*			*mg/kg wet*	*3.33*		*82*	*28-130*			
2-Fluorobiphenyl	*1.2*			*mg/kg wet*	*1.67*		*74*	*49-105*			
2-Fluorophenol	*2.5*			*mg/kg wet*	*3.33*		*74*	*28-95*			
Nitrobenzene-d5	*1.2*			*mg/kg wet*	*1.67*		*74*	*50-117*			
Phenol-d5	*2.6*			*mg/kg wet*	*3.33*		*77*	*21-184*			
Terphenyl-d14	*1.3*			*mg/kg wet*	*1.67*		*77*	*54-124*			

LCS (5D08043-BS1) Prepared: 04/09/2015 13:30 Analyzed: 04/15/2015 19:26

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	1.3		0.33	mg/kg wet	1.67		77	62-95			
4-Chloro-3-methylphenol	1.4		0.33	mg/kg wet	1.67		87	62-108			
4-Nitrophenol	1.5		0.33	mg/kg wet	1.67		92	21-97			
Acenaphthene	1.3		0.33	mg/kg wet	1.67		80	63-101			
Hexachlorocyclopentadiene	0.83		0.33	mg/kg wet	1.67		50	17-111			J-05
N-Nitroso-di-n-propylamine	1.3		0.33	mg/kg wet	1.67		78	57-106			
N-nitrosodiphenylamine/Diphenylamine	1.4		0.33	mg/kg wet	1.67		86	0-200			
Pentachlorophenol	1.2		0.33	mg/kg wet	1.67		72	25-120			

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5D08043 - EPA 3550C_MS - Continued

LCS (5D08043-BS1) Continued Prepared: 04/09/2015 13:30 Analyzed: 04/15/2015 19:26

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phenol	1.4		0.33	mg/kg wet	1.67		83	31-78			QL-02
2,4,6-Tribromophenol	*3.0*			*mg/kg wet*	*3.33*		*90*	*42-123*			
2-Fluorobiphenyl	*1.3*			*mg/kg wet*	*1.67*		*76*	*49-105*			
2-Fluorophenol	*2.6*			*mg/kg wet*	*3.33*		*77*	*28-95*			
Nitrobenzene-d5	*1.3*			*mg/kg wet*	*1.67*		*77*	*50-117*			
Phenol-d5	*2.7*			*mg/kg wet*	*3.33*		*81*	*21-184*			
Terphenyl-d14	*1.3*			*mg/kg wet*	*1.67*		*77*	*54-124*			

Matrix Spike (5D08043-MS1) Prepared: 04/09/2015 13:30 Analyzed: 04/15/2015 19:54

Source: C503663-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	1.5		0.38	mg/kg dry	1.91	0.029 U	76	62-95			
4-Chloro-3-methylphenol	1.6		0.38	mg/kg dry	1.91	0.038 U	86	62-108			
4-Nitrophenol	1.8		0.38	mg/kg dry	1.91	0.036 U	95	21-97			
Acenaphthene	1.5		0.38	mg/kg dry	1.91	0.032 U	79	63-101			
Hexachlorocyclopentadiene	0.98		0.38	mg/kg dry	1.91	0.045 U	51	17-111			J-05
N-Nitroso-di-n-propylamine	1.5		0.38	mg/kg dry	1.91	0.093 U	77	57-106			
N-nitrosodiphenylamine/Diphenylamine	1.6		0.38	mg/kg dry	1.91	0.062 U	85	0-200			
Pentachlorophenol	1.5		0.38	mg/kg dry	1.91	0.038 U	78	25-120			
Phenol	1.5		0.38	mg/kg dry	1.91	0.025 U	77	31-78			J-02
2,4,6-Tribromophenol	*3.3*			*mg/kg dry*	*3.82*		*87*	*42-123*			
2-Fluorobiphenyl	*1.4*			*mg/kg dry*	*1.91*		*73*	*49-105*			
2-Fluorophenol	*2.8*			*mg/kg dry*	*3.82*		*73*	*28-95*			
Nitrobenzene-d5	*1.4*			*mg/kg dry*	*1.91*		*74*	*50-117*			
Phenol-d5	*3.0*			*mg/kg dry*	*3.82*		*79*	*21-184*			
Terphenyl-d14	*1.4*			*mg/kg dry*	*1.91*		*72*	*54-124*			

Matrix Spike Dup (5D08043-MSD1) Prepared: 04/09/2015 13:30 Analyzed: 04/15/2015 20:22

Source: C503663-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	1.4		0.38	mg/kg dry	1.91	0.029 U	75	62-95	1	28	
4-Chloro-3-methylphenol	1.6		0.38	mg/kg dry	1.91	0.038 U	86	62-108	0.2	39	
4-Nitrophenol	1.8		0.38	mg/kg dry	1.91	0.036 U	96	21-97	0.3	43	
Acenaphthene	1.5		0.38	mg/kg dry	1.91	0.032 U	80	63-101	2	28	
Hexachlorocyclopentadiene	0.87		0.38	mg/kg dry	1.91	0.045 U	45	17-111	12	50	J-05
N-Nitroso-di-n-propylamine	1.5		0.38	mg/kg dry	1.91	0.093 U	77	57-106	0.9	34	
N-nitrosodiphenylamine/Diphenylamine	1.6		0.38	mg/kg dry	1.91	0.062 U	85	0-200	0	200	
Pentachlorophenol	1.5		0.38	mg/kg dry	1.91	0.038 U	78	25-120	0.8	49	
Phenol	1.5		0.38	mg/kg dry	1.91	0.025 U	79	31-78	2	29	J-02
2,4,6-Tribromophenol	*3.5*			*mg/kg dry*	*3.82*		*91*	*42-123*			
2-Fluorobiphenyl	*1.4*			*mg/kg dry*	*1.91*		*75*	*49-105*			
2-Fluorophenol	*2.8*			*mg/kg dry*	*3.82*		*74*	*28-95*			
Nitrobenzene-d5	*1.4*			*mg/kg dry*	*1.91*		*74*	*50-117*			
Phenol-d5	*3.1*			*mg/kg dry*	*3.82*		*80*	*21-184*			
Terphenyl-d14	*1.5*			*mg/kg dry*	*1.91*		*77*	*54-124*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 5D21018 - EPA 7471B

QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Blank (5D21018-BLK1)

Prepared: 04/21/2015 11:10 Analyzed: 04/22/2015 14:20

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00690	U	0.0240	mg/kg wet							

LCS (5D21018-BS1)

Prepared: 04/21/2015 11:10 Analyzed: 04/22/2015 14:22

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.606		0.0240	mg/kg wet	0.643		94	80-120			

Matrix Spike (5D21018-MS1)

Prepared: 04/21/2015 11:10 Analyzed: 04/22/2015 14:26

Source: C503663-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	1.24		0.0321	mg/kg dry	0.801	0.532	89	80-120			

Matrix Spike Dup (5D21018-MSD1)

Prepared: 04/21/2015 11:10 Analyzed: 04/22/2015 14:29

Source: C503663-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	1.09		0.0238	mg/kg dry	0.595	0.532	94	80-120	13	20	

Post Spike (5D21018-PS1)

Prepared: 04/21/2015 11:10 Analyzed: 04/22/2015 14:31

Source: C503663-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	9.08		0.200	ug/L	5.00	4.47	92	75-125			

Classical Chemistry Parameters - Quality Control

Batch 5D13028 - WETS-88 Soil Leaching

Blank (5D13028-BLK1)

Prepared: 04/13/2015 14:54 Analyzed: 04/14/2015 11:53

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	2.0	U	10	mg/kg wet							
Sulfate as SO4	29	U	50	mg/kg wet							

LCS (5D13028-BS1)

Prepared: 04/13/2015 14:54 Analyzed: 04/14/2015 12:11

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	48		10	mg/kg wet	49.9		96	80-120			
Sulfate as SO4	500		50	mg/kg wet	499		100	80-120			

Matrix Spike (5D13028-MS1)

Prepared: 04/13/2015 14:54 Analyzed: 04/14/2015 12:30

Source: C504553-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	25		12	mg/kg dry	22.8	5.2	88	80-120			
Sulfate as SO4	230		60	mg/kg dry	228	38	85	80-120			

Matrix Spike Dup (5D13028-MSD1)

Prepared: 04/13/2015 14:54 Analyzed: 04/14/2015 12:48

Source: C504553-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	25		12	mg/kg dry	23.4	5.2	83	80-120	2	15	
Sulfate as SO4	230		60	mg/kg dry	234	38	83	80-120	1	15	

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QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 5D13030 - WETS-88 Soil Leaching

Blank (5D13030-BLK1) Prepared: 04/13/2015 14:54 Analyzed: 04/14/2015 11:07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	0.45	U	1.0	mg/kg wet							

LCS (5D13030-BS1) Prepared: 04/13/2015 14:54 Analyzed: 04/14/2015 11:09

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	9.5		1.0	mg/kg wet	9.92		96	90-110			

Matrix Spike (5D13030-MS1) Prepared: 04/13/2015 14:54 Analyzed: 04/14/2015 12:56

Source: C504553-01RE1

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	38	D	6.0	mg/kg dry	4.53	24	309	90-110			QM-17

Matrix Spike (5D13030-MS2) Prepared: 04/13/2015 14:54 Analyzed: 04/14/2015 13:56

Source: C504553-02RE2

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	500	D	110	mg/kg dry	4.78	360	NR	90-110			QM-17

Matrix Spike Dup (5D13030-MSD1) Prepared: 04/13/2015 14:54 Analyzed: 04/14/2015 12:58

Source: C504553-01RE1

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	24	D	6.0	mg/kg dry	4.66	24	NR	90-110	45	10	QM-11, QM-17

Volatile Organic Compounds by GCMS SIM Isotope Dilution - Quality Control

Batch 5D14011 - EPA 5030B_MS

Blank (5D14011-BLK1) Prepared: 04/14/2015 00:00 Analyzed: 04/14/2015 13:17

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	0.00180	U	0.00600	mg/kg wet							
Toluene-d8	*4.59*			*ug/L*	*5.00*		*92*	*70-130*			

LCS (5D14011-BS1) Prepared: 04/14/2015 00:00 Analyzed: 04/14/2015 10:10

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	0.0749		0.00600	mg/kg wet	0.0750		100	70-130			
Toluene-d8	*4.27*			*ug/L*	*5.00*		*85*	*70-130*			

LCS Dup (5D14011-BSD1) Prepared: 04/14/2015 00:00 Analyzed: 04/14/2015 11:35

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	0.0745		0.00600	mg/kg wet	0.0750		99	70-130	0.6	200	
Toluene-d8	*4.59*			*ug/L*	*5.00*		*92*	*70-130*			

Batch 5D15019 - EPA 5030B_MS

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS SIM Isotope Dilution - Quality Control

Batch 5D15019 - EPA 5030B_MS - Continued

Blank (5D15019-BLK1) Prepared: 04/15/2015 00:00 Analyzed: 04/15/2015 15:42

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	0.00180	U	0.00600	mg/kg wet							
Toluene-d8	*4.16*			*ug/L*	*5.00*		*83*	*70-130*			

LCS (5D15019-BS1) Prepared: 04/15/2015 00:00 Analyzed: 04/15/2015 11:42

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	0.0738		0.00600	mg/kg wet	0.0750		98	70-130			
Toluene-d8	*4.30*			*ug/L*	*5.00*		*86*	*70-130*			

LCS Dup (5D15019-BSD1) Prepared: 04/15/2015 00:00 Analyzed: 04/15/2015 13:03

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	0.0719		0.00600	mg/kg wet	0.0750		96	70-130	3	200	
Toluene-d8	*4.23*			*ug/L*	*5.00*		*85*	*70-130*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 5D14025 - EPA 3050B

Blank (5D14025-BLK1) Prepared: 04/14/2015 13:33 Analyzed: 04/15/2015 09:37

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.200	U	0.500	mg/kg wet							
Arsenic	0.510	U	1.00	mg/kg wet							
Beryllium	0.100	U	2.00	mg/kg wet							
Cadmium	0.130	U	1.00	mg/kg wet							
Chromium	0.550	U	5.00	mg/kg wet							
Copper	0.220	U	1.00	mg/kg wet							
Iron	1.80	U	5.00	mg/kg wet							
Lead	0.240	U	5.00	mg/kg wet							
Manganese	0.280	U	1.00	mg/kg wet							
Nickel	0.250	U	1.00	mg/kg wet							
Selenium	0.910	U	1.00	mg/kg wet							
Silver	0.0550	U	0.500	mg/kg wet							
Thallium	0.0370	U	1.00	mg/kg wet							
Zinc	1.30	U	5.00	mg/kg wet							

LCS (5D14025-BS1) Prepared: 04/14/2015 13:33 Analyzed: 04/15/2015 09:40

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	5.03		0.500	mg/kg wet	5.00		101	80-120			
Arsenic	53.9		1.00	mg/kg wet	50.0		108	80-120			
Beryllium	5.03		2.00	mg/kg wet	5.00		101	80-120			
Cadmium	5.22		1.00	mg/kg wet	5.00		104	80-120			
Chromium	52.9		5.00	mg/kg wet	50.0		106	80-120			
Copper	51.1		1.00	mg/kg wet	50.0		102	80-120			
Iron	105		5.00	mg/kg wet	100		105	80-120			
Lead	51.1		5.00	mg/kg wet	50.0		102	80-120			

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QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 5D14025 - EPA 3050B - Continued

LCS (5D14025-BS1) Continued Prepared: 04/14/2015 13:33 Analyzed: 04/15/2015 09:40

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Manganese	52.3		1.00	mg/kg wet	50.0		105	80-120			
Nickel	52.5		1.00	mg/kg wet	50.0		105	80-120			
Selenium	53.3		1.00	mg/kg wet	50.0		107	80-120			
Silver	5.29		0.500	mg/kg wet	5.00		106	80-120			
Thallium	5.18		1.00	mg/kg wet	5.00		104	80-120			
Zinc	50.5		5.00	mg/kg wet	50.0		101	80-120			

Matrix Spike (5D14025-MS1) Prepared: 04/14/2015 13:33 Analyzed: 04/15/2015 10:05

Source: A502183-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	21.8	D	5.00	mg/kg wet	4.95	14.4	150	75-125			QM-07, QM-11
Arsenic	49.0	D	10.0	mg/kg wet	49.5	5.10 U	99	75-125			
Beryllium	5.77	JD	20.0	mg/kg wet	4.95	1.00 U	117	75-125			
Cadmium	5.72	JD	10.0	mg/kg wet	4.95	1.30 U	116	75-125			
Chromium	99.6	D	50.0	mg/kg wet	49.5	40.0	120	75-125			
Copper	128	D	10.0	mg/kg wet	49.5	57.0	144	75-125			QM-07
Iron	5100	D	50.0	mg/kg wet	99.0	4170	937	75-125			QM-07, QM-11
Lead	78.2	D	50.0	mg/kg wet	49.5	25.0	108	75-125			
Manganese	86.2	D	10.0	mg/kg wet	49.5	30.8	112	75-125			
Nickel	55.3	D	10.0	mg/kg wet	49.5	2.50 U	112	75-125			
Selenium	51.9	D	10.0	mg/kg wet	49.5	9.10 U	105	75-125			
Silver	11.4	D	5.00	mg/kg wet	4.95	5.58	118	75-125			
Thallium	5.11	JD	10.0	mg/kg wet	4.95	0.370 U	103	75-125			
Zinc	117	D	50.0	mg/kg wet	49.5	73.8	88	75-125			

Matrix Spike Dup (5D14025-MSD1) Prepared: 04/14/2015 13:33 Analyzed: 04/15/2015 10:08

Source: A502183-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	16.6	D	5.00	mg/kg wet	4.90	14.4	46	75-125	27	20	QM-07, QM-11
Arsenic	49.8	D	10.0	mg/kg wet	49.0	5.10 U	102	75-125	2	20	
Beryllium	5.52	JD	20.0	mg/kg wet	4.90	1.00 U	113	75-125	4	20	
Cadmium	4.89	JD	10.0	mg/kg wet	4.90	1.30 U	100	75-125	16	20	
Chromium	89.4	D	50.0	mg/kg wet	49.0	40.0	101	75-125	11	20	
Copper	106	D	10.0	mg/kg wet	49.0	57.0	100	75-125	19	20	
Iron	4100	D	50.0	mg/kg wet	98.0	4170	NR	75-125	22	20	QM-07, QM-11
Lead	72.1	D	50.0	mg/kg wet	49.0	25.0	96	75-125	8	20	
Manganese	82.5	D	10.0	mg/kg wet	49.0	30.8	106	75-125	4	20	
Nickel	49.1	D	10.0	mg/kg wet	49.0	2.50 U	100	75-125	12	20	
Selenium	52.0	D	10.0	mg/kg wet	49.0	9.10 U	106	75-125	0.2	20	
Silver	10.2	D	5.00	mg/kg wet	4.90	5.58	93	75-125	12	20	
Thallium	4.96	JD	10.0	mg/kg wet	4.90	0.370 U	101	75-125	3	20	
Zinc	102	D	50.0	mg/kg wet	49.0	73.8	57	75-125	14	20	QM-07

Post Spike (5D14025-PS2) Prepared: 04/15/2015 08:30 Analyzed: 04/15/2015 09:59

Source: A502183-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 5D14025 - EPA 3050B - Continued

Post Spike (5D14025-PS2) Continued Prepared: 04/15/2015 08:30 Analyzed: 04/15/2015 09:59

Source: A502183-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	5.99		0.500	ug/L	4.90	1.41	94	80-120			
Arsenic	48.2		1.00	ug/L	49.0	0.0405	98	80-120			
Beryllium	5.13		2.00	ug/L	4.90	0.0785	103	80-120			
Cadmium	5.12		1.00	ug/L	4.90	0.0221	104	80-120			
Chromium	53.1		5.00	ug/L	49.0	3.92	100	80-120			
Copper	54.7		1.00	ug/L	49.0	5.58	100	80-120			
Iron	504		5.00	ug/L	98.0	409	97	80-120			
Lead	51.2		5.00	ug/L	49.0	2.45	99	80-120			
Manganese	52.5		1.00	ug/L	49.0	3.02	101	80-120			
Nickel	49.8		1.00	ug/L	49.0	0.0185	102	80-120			
Selenium	47.6		1.00	ug/L	49.0	0.148	97	80-120			
Silver	5.44		0.500	ug/L	4.90	0.547	100	80-120			
Thallium	4.92		1.00	ug/L	4.90	-0.00125	100	80-120			
Zinc	53.8		5.00	ug/L	49.0	7.24	95	80-120			

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FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
ND	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence (85% or greater confidence) to make a "tentative identification".
P	Greater than 25% concentration difference was observed between the primary and secondary GC column. The lower concentration is reported.
J-02	Result is estimated due to bias in the associated laboratory control sample (LCS).
J-05	Result estimated, calibration verification standard failed with low bias.
QL-02	The associated laboratory control sample exhibited high bias; since the result is ND, the impact on data quality is minimal.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QM-17	Matrix spike recovery was outside acceptance limits due to high concentrations of analyte in source sample.
QS-03	Surrogate recovery outside acceptance limits
QV-02	The associated continuing calibration verification standard exhibited low bias; the reported result should be considered to be a minimum estimate.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.

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

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945
4810 Executive Park Court, Suite 111 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210
102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Page ____ of ____

Client Name: Schnabel Engineering (SH010)	Project Number: 653DP-8
Address: 11-A Oak Branch Drive	Project Name/Desc: Edgecombe County Landfill
City/ST/Zip: Greensboro, NC 27407	PO # / Billing Info:
Tel: (336) 274-9456 Fax:	Reporting Contact: Benjamin Bradley
Sampler(s) Name, Affiliation (Print): Ben Bradley	Billing Contact: Benjamin Bradley
Sampler(s) Signature: [signature]	Site Location / Time Zone:

Requested Analyses: 8260B TCL SOM01.2; 8260B TCL SOM01.2,8260C SIM ID; 8260C SIM ID; Ammonia 350.1

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder C504555 ~~C503663~~

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B TCL SOM01.2	8260B TCL SOM01.2,8260C SIM ID	8260C SIM ID	Ammonia 350.1	Sample Comments
	~~SB-1A~~				SO	7	X	X	X	X	
	~~SB-3A~~				SO	7	X	X	X	X	
	~~SB-4A~~ SB A3 (0-2.5 ft)	4-8-15	11:20	BLB ~~4-8-15~~	SO	7	X	X	X	X	
	~~SB-9A~~ SB-A3 (2.5-5.0 ft)		11:35	G	SO	7	X	X	X	X	
	~~SB-11A~~ SB-A3 (5-7.5 ft)		12:15		SO	7	X	X	X	X	
	~~SB-A1~~ SB-A3 (7.5-10 ft)		12:25		SO	7	X	X	X	X	
	~~SB-A2~~ SB-A3 (10-12 ft)		12:40		SO	7	X	X	X	X	
	~~SB-A3~~ Duplicate-4				SO	7	X	X	X	X	
	SB-A1 (0-2.5 ft)		10:35		SO	7	X	X	X	X	
	SB-A1 (2.5-5.0 ft)		10:45		SO	7	X	X	X	X	
	SB-A1 (5.0-7.5 ft)		10:55		SO	7	X	X	X	X	
	SB-A1 (7.5-10.0 ft)				SO	7	X	X	X	X	

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
		[signature]	4-8-15 4:45	[signature]	4/8/15 900
Comments/Special Reporting Requirements		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 2.7		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

ENCO Laboratories

Accurate. Timely. Responsive. Innovative.

102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

Friday, April 24, 2015
Schnabel Engineering (SH010)
Attn: Benjamin Bradley
11-A Oak Branch Drive
Greensboro, NC 27407

RE: Laboratory Results for
Project Number: 653DP-8, Project Name/Desc: Edgecombe County Landfill
ENCO Workorder(s): C503653

Dear Benjamin Bradley,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, April 9, 2015.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-A1 **Lab ID: C503653-01** **Sampled: 04/08/15 09:50** **Received: 04/09/15 08:55**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	05/06/15			04/09/15	09:53	04/10/15 19:24
EPA 350.1	05/06/15			04/14/15	07:33	04/14/15 10:42
EPA 353.2	04/10/15	09:50		04/09/15	14:41	04/09/15 16:51
EPA 353.2	05/06/15			04/17/15	07:51	04/17/15 10:28
EPA 353.2	01/01/18			04/20/15	10:59	04/20/15 11:24
EPA 6020A	10/05/15			04/13/15	10:55	04/17/15 11:08
EPA 7470A	05/06/15			04/20/15	14:49	04/21/15 17:29
EPA 8260B	04/22/15			04/20/15	16:02	04/21/15 09:40
EPA 8260C	04/22/15			04/15/15	00:00	04/15/15 19:21
EPA 8270D	04/15/15		05/24/15	04/14/15	07:43	04/17/15 17:45

Client ID: MW-A1 **Lab ID: C503653-01RE1** **Sampled: 04/08/15 09:50** **Received: 04/09/15 08:55**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6020A	10/05/15	04/13/15 10:55	04/17/15 11:23

Client ID: MW-A2 **Lab ID: C503653-02** **Sampled: 04/08/15 10:40** **Received: 04/09/15 08:55**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	05/06/15			04/09/15	09:53	04/10/15 19:43
EPA 353.2	04/10/15	10:40		04/09/15	14:41	04/09/15 16:54
EPA 353.2	05/06/15			04/17/15	07:51	04/17/15 10:30
EPA 353.2	01/01/18			04/20/15	10:59	04/20/15 11:24
EPA 6020A	10/05/15			04/13/15	10:55	04/17/15 11:26
EPA 7470A	05/06/15			04/20/15	14:49	04/21/15 17:31
EPA 8260B	04/22/15			04/20/15	16:02	04/21/15 10:09
EPA 8270D	04/15/15		05/24/15	04/14/15	07:43	04/17/15 18:13

Client ID: MW-A2 **Lab ID: C503653-02RE1** **Sampled: 04/08/15 10:40** **Received: 04/09/15 08:55**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6020A	10/05/15	04/13/15 10:55	04/17/15 12:07
EPA 6020A	10/05/15	04/13/15 10:55	04/17/15 12:10
EPA 8260C	04/22/15	04/16/15 00:00	04/16/15 14:25

Client ID: MW-A2 **Lab ID: C503653-02RE2** **Sampled: 04/08/15 10:40** **Received: 04/09/15 08:55**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 350.1	05/06/15	04/14/15 07:33	04/14/15 13:49

Client ID: MW-4 **Lab ID: C503653-03** **Sampled: 04/08/15 15:20** **Received: 04/09/15 08:55**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	05/06/15			04/09/15	09:53	04/10/15 20:01
EPA 353.2	04/10/15	15:20		04/09/15	14:41	04/09/15 16:54
EPA 353.2	05/06/15			04/17/15	07:51	04/17/15 10:32
EPA 353.2	01/01/18			04/20/15	10:59	04/20/15 11:24
EPA 6020A	10/05/15			04/13/15	10:55	04/17/15 11:30
EPA 7470A	05/06/15			04/20/15	14:49	04/21/15 17:33
EPA 8260B	04/22/15			04/20/15	16:02	04/21/15 10:38
EPA 8260C	04/22/15			04/16/15	00:00	04/16/15 15:05
EPA 8270D	04/15/15		05/24/15	04/14/15	07:43	04/17/15 18:41

Client ID: MW-4 **Lab ID: C503653-03RE1** **Sampled: 04/08/15 15:20** **Received: 04/09/15 08:55**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6020A	10/05/15	04/13/15 10:55	04/17/15 12:20

Client ID: MW-4 **Lab ID: C503653-03RE2** **Sampled: 04/08/15 15:20** **Received: 04/09/15 08:55**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 350.1	05/06/15	04/14/15 07:33	04/14/15 13:51

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: MW-6 **Lab ID: C503653-04** **Sampled: 04/08/15 14:25** **Received: 04/09/15 08:55**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	05/06/15			04/09/15	09:53	04/10/15 20:20
EPA 350.1	05/06/15			04/14/15	07:33	04/14/15 10:48
EPA 353.2	04/10/15	14:25		04/09/15	14:41	04/09/15 16:55
EPA 353.2	05/06/15			04/17/15	07:51	04/17/15 10:35
EPA 353.2	01/01/18			04/20/15	10:59	04/20/15 11:24
EPA 6020A	10/05/15			04/13/15	10:55	04/17/15 11:33
EPA 7470A	05/06/15			04/20/15	14:49	04/21/15 17:36
EPA 8260B	04/22/15			04/20/15	16:02	04/21/15 11:08
EPA 8260C	04/22/15			04/16/15	00:00	04/16/15 15:45
EPA 8270D	04/15/15		05/24/15	04/14/15	07:43	04/17/15 19:08

Client ID: MW-6 **Lab ID: C503653-04RE1** **Sampled: 04/08/15 14:25** **Received: 04/09/15 08:55**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6020A	10/05/15			04/13/15	10:55	04/17/15 12:24
EPA 6020A	10/05/15			04/13/15	10:55	04/17/15 12:27

Client ID: MW-7 **Lab ID: C503653-05** **Sampled: 04/08/15 13:00** **Received: 04/09/15 08:55**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	05/06/15			04/09/15	09:53	04/10/15 20:38
EPA 353.2	04/10/15	13:00		04/09/15	14:41	04/09/15 16:56
EPA 353.2	05/06/15			04/17/15	07:51	04/17/15 10:37
EPA 353.2	01/01/18			04/20/15	10:59	04/20/15 11:24
EPA 6020A	10/05/15			04/13/15	10:55	04/17/15 11:57
EPA 7470A	05/06/15			04/20/15	14:49	04/21/15 17:38
EPA 8270D	04/15/15		05/24/15	04/14/15	07:43	04/17/15 19:36

Client ID: MW-7 **Lab ID: C503653-05RE1** **Sampled: 04/08/15 13:00** **Received: 04/09/15 08:55**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6020A	10/05/15			04/13/15	10:55	04/17/15 12:32
EPA 6020A	10/05/15			04/13/15	10:55	04/17/15 12:36
EPA 8260B	04/22/15			04/20/15	16:29	04/22/15 00:04
EPA 8260C	04/22/15			04/20/15	00:00	04/20/15 14:14

Client ID: MW-7 **Lab ID: C503653-05RE3** **Sampled: 04/08/15 13:00** **Received: 04/09/15 08:55**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	05/06/15			04/14/15	07:33	04/14/15 14:29

Client ID: Duplicate-1 **Lab ID: C503653-06** **Sampled: 04/08/15 00:00** **Received: 04/09/15 08:55**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	05/06/15			04/09/15	09:53	04/10/15 21:34
EPA 353.2	04/10/15	00:00		04/09/15	14:41	04/09/15 16:57
EPA 353.2	05/06/15			04/17/15	07:51	04/17/15 10:39
EPA 353.2	01/01/18			04/20/15	10:59	04/20/15 11:24
EPA 6020A	10/05/15			04/13/15	10:55	04/17/15 12:00
EPA 7470A	05/06/15			04/20/15	14:49	04/21/15 17:40
EPA 8260B	04/22/15			04/20/15	16:02	04/22/15 00:33
EPA 8270D	04/15/15		05/24/15	04/14/15	07:43	04/17/15 20:03

Client ID: Duplicate-1 **Lab ID: C503653-06RE1** **Sampled: 04/08/15 00:00** **Received: 04/09/15 08:55**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6020A	10/05/15			04/13/15	10:55	04/17/15 12:47
EPA 6020A	10/05/15			04/13/15	10:55	04/17/15 12:51
EPA 8260C	04/22/15			04/20/15	00:00	04/20/15 14:46

Client ID: Duplicate-1 **Lab ID: C503653-06RE3** **Sampled: 04/08/15 00:00** **Received: 04/09/15 08:55**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	05/06/15			04/14/15	07:33	04/14/15 14:31

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: Trip Blank **Lab ID: C503653-07** **Sampled: 04/08/15 09:50** **Received: 04/09/15 08:55**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	04/22/15	04/20/15 16:02	04/21/15 03:23
EPA 8260C	04/22/15	04/16/15 00:00	04/16/15 13:45

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

SAMPLE DETECTION SUMMARY

Client ID: MW-A1 **Lab ID: C503653-01**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dioxane	4.74		1.20	2.00	ug/L	EPA 8260C	
Ammonia as N	0.076	J	0.045	0.10	mg/L	EPA 350.1	
Antimony - Total	0.269	J	0.220	2.00	ug/L	EPA 6020A	
Arsenic - Total	0.835	J	0.470	1.00	ug/L	EPA 6020A	
Beryllium - Total	0.176	J	0.100	1.00	ug/L	EPA 6020A	
Cadmium - Total	0.125	J	0.100	1.00	ug/L	EPA 6020A	
Chromium - Total	1.40		0.450	1.00	ug/L	EPA 6020A	
Copper - Total	0.323	J	0.100	1.00	ug/L	EPA 6020A	
Lead - Total	0.350	J	0.130	1.00	ug/L	EPA 6020A	
Manganese - Total	378		0.500	1.00	ug/L	EPA 6020A	
Methyl-tert-Butyl Ether	0.91	J	0.16	1.0	ug/L	EPA 8260B	
Nickel - Total	3.79		0.220	1.00	ug/L	EPA 6020A	
Sulfate as SO4	65		2.9	5.0	mg/L	EPA 300.0	
Zinc - Total	4.25	J	0.790	5.00	ug/L	EPA 6020A	

Client ID: MW-A1 **Lab ID: C503653-01RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Iron - Total	1830	D	60.0	250	ug/L	EPA 6020A	

Client ID: MW-A2 **Lab ID: C503653-02**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,2,4-Trichlorobenzene	1.6		0.14	1.0	ug/L	EPA 8260B	
1,2-Dichlorobenzene	1.9		0.19	1.0	ug/L	EPA 8260B	
1,3-Dichlorobenzene	2.4		0.15	1.0	ug/L	EPA 8260B	
1,4-Dichlorobenzene	17		0.19	1.0	ug/L	EPA 8260B	
1,4-Dioxane	260		25	60	ug/L	EPA 8260B	
Antimony - Total	0.653	J	0.220	2.00	ug/L	EPA 6020A	
Arsenic - Total	325		0.470	1.00	ug/L	EPA 6020A	
Benzene	4.7		0.15	1.0	ug/L	EPA 8260B	
Chlorobenzene	13		0.17	1.0	ug/L	EPA 8260B	
Chromium - Total	1.52		0.450	1.00	ug/L	EPA 6020A	
Isopropylbenzene	0.85	J	0.14	1.0	ug/L	EPA 8260B	
m,p-Xylenes	0.49	J	0.17	2.0	ug/L	EPA 8260B	
Methyl-tert-Butyl Ether	0.86	J	0.16	1.0	ug/L	EPA 8260B	
Nickel - Total	148		0.220	1.00	ug/L	EPA 6020A	
Nitrate as N	0.23		0.025	0.10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.23		0.041	0.10	mg/L	EPA 353.2	
Silver - Total	0.387	J	0.100	1.00	ug/L	EPA 6020A	
Sulfate as SO4	17		2.9	5.0	mg/L	EPA 300.0	
Zinc - Total	9.13		0.790	5.00	ug/L	EPA 6020A	

Client ID: MW-A2 **Lab ID: C503653-02RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dioxane	344	D	12.0	20.0	ug/L	EPA 8260C	
Iron - Total	102000	D	12000	50000	ug/L	EPA 6020A	
Manganese - Total	1180	D	2.50	5.00	ug/L	EPA 6020A	

Client ID: MW-A2 **Lab ID: C503653-02RE2**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	62	D	4.0	9.0	mg/L	EPA 350.1	

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

SAMPLE DETECTION SUMMARY

Client ID: MW-4 **Lab ID: C503653-03**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,1-Dichloroethane	0.90	J	0.13	1.0	ug/L	EPA 8260B	
1,2,4-Trichlorobenzene	0.66	J	0.14	1.0	ug/L	EPA 8260B	
1,2-Dichlorobenzene	1.4		0.19	1.0	ug/L	EPA 8260B	
1,4-Dichlorobenzene	39		0.19	1.0	ug/L	EPA 8260B	
1,4-Dioxane	3.41		1.20	2.00	ug/L	EPA 8260C	
Antimony - Total	0.233	J	0.220	2.00	ug/L	EPA 6020A	
Arsenic - Total	4.37		0.470	1.00	ug/L	EPA 6020A	
Benzene	29		0.15	1.0	ug/L	EPA 8260B	
Chlorobenzene	1.1		0.17	1.0	ug/L	EPA 8260B	
Chloroethane	4.6		0.23	1.0	ug/L	EPA 8260B	
Chloroform	0.52	J	0.18	1.0	ug/L	EPA 8260B	
Chromium - Total	0.927	J	0.450	1.00	ug/L	EPA 6020A	
cis-1,2-Dichloroethene	1.2		0.15	1.0	ug/L	EPA 8260B	
Cyclohexane	0.93	J	0.36	1.0	ug/L	EPA 8260B	
Diethylphthalate	4.3	J	2.1	10	ug/L	EPA 8270D	
Isopropylbenzene	2.3		0.14	1.0	ug/L	EPA 8260B	
Lead - Total	0.647	J	0.130	1.00	ug/L	EPA 6020A	
m,p-Xylenes	33		0.17	2.0	ug/L	EPA 8260B	
Manganese - Total	230		0.500	1.00	ug/L	EPA 6020A	
Methyl-tert-Butyl Ether	0.56	J	0.16	1.0	ug/L	EPA 8260B	
Naphthalene	2.6	J	1.3	10	ug/L	EPA 8270D	
Nickel - Total	8.23		0.220	1.00	ug/L	EPA 6020A	
Nitrate as N	0.27		0.025	0.10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.27		0.041	0.10	mg/L	EPA 353.2	
Silver - Total	0.392	J	0.100	1.00	ug/L	EPA 6020A	
Sulfate as SO4	21		2.9	5.0	mg/L	EPA 300.0	
Vinyl chloride	0.59	J	0.32	1.0	ug/L	EPA 8260B	
Zinc - Total	24.4		0.790	5.00	ug/L	EPA 6020A	

Client ID: MW-4 **Lab ID: C503653-03RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Iron - Total	27000	D	1200	5000	ug/L	EPA 6020A	

Client ID: MW-4 **Lab ID: C503653-03RE2**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	27	D	2.3	5.1	mg/L	EPA 350.1	

Client ID: MW-6 **Lab ID: C503653-04**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dichlorobenzene	1.2		0.19	1.0	ug/L	EPA 8260B	
1,4-Dioxane	9.21		1.20	2.00	ug/L	EPA 8260C	
Ammonia as N	1.9		0.045	0.10	mg/L	EPA 350.1	
Arsenic - Total	27.7		0.470	1.00	ug/L	EPA 6020A	
Beryllium - Total	0.213	J	0.100	1.00	ug/L	EPA 6020A	
Cadmium - Total	0.122	J	0.100	1.00	ug/L	EPA 6020A	
Chlorobenzene	2.8		0.17	1.0	ug/L	EPA 8260B	
Chromium - Total	2.81		0.450	1.00	ug/L	EPA 6020A	
cis-1,2-Dichloroethene	0.80	J	0.15	1.0	ug/L	EPA 8260B	
Copper - Total	0.363	J	0.100	1.00	ug/L	EPA 6020A	
Lead - Total	2.20		0.130	1.00	ug/L	EPA 6020A	
m,p-Xylenes	0.98	J	0.17	2.0	ug/L	EPA 8260B	
Nickel - Total	14.3		0.220	1.00	ug/L	EPA 6020A	
Nitrate as N	0.21		0.025	0.10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.21		0.041	0.10	mg/L	EPA 353.2	
o-Xylene	0.43	J	0.06	1.0	ug/L	EPA 8260B	
Silver - Total	0.104	J	0.100	1.00	ug/L	EPA 6020A	
Sulfate as SO4	25		2.9	5.0	mg/L	EPA 300.0	
Zinc - Total	9.58		0.790	5.00	ug/L	EPA 6020A	

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SAMPLE DETECTION SUMMARY

Client ID: MW-6 **Lab ID: C503653-04RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Iron - Total	44000	D	1200	5000	ug/L	EPA 6020A	
Manganese - Total	3690	D	5.00	10.0	ug/L	EPA 6020A	

Client ID: MW-7 **Lab ID: C503653-05**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Antimony - Total	2.11		0.220	2.00	ug/L	EPA 6020A	
Arsenic - Total	125		0.470	1.00	ug/L	EPA 6020A	
Cadmium - Total	0.128	J	0.100	1.00	ug/L	EPA 6020A	
Chromium - Total	3.02		0.450	1.00	ug/L	EPA 6020A	
Nickel - Total	112		0.220	1.00	ug/L	EPA 6020A	
Nitrate as N	0.12		0.025	0.10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.12		0.041	0.10	mg/L	EPA 353.2	
Selenium - Total	1.11	J	0.910	3.00	ug/L	EPA 6020A	
Sulfate as SO4	11		2.9	5.0	mg/L	EPA 300.0	
Thallium - Total	0.262	J	0.110	1.00	ug/L	EPA 6020A	
Zinc - Total	7.24		0.790	5.00	ug/L	EPA 6020A	

Client ID: MW-7 **Lab ID: C503653-05RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,2,4-Trichlorobenzene	0.51	J	0.14	1.0	ug/L	EPA 8260B	
1,2-Dichlorobenzene	0.48	J	0.19	1.0	ug/L	EPA 8260B	
1,4-Dichlorobenzene	9.4		0.19	1.0	ug/L	EPA 8260B	
1,4-Dioxane	400		25	60	ug/L	EPA 8260B	
1,4-Dioxane	379	D	12.0	20.0	ug/L	EPA 8260C	
Acetone	16		1.2	5.0	ug/L	EPA 8260B	
Benzene	7.3		0.15	1.0	ug/L	EPA 8260B	
Chlorobenzene	8.4		0.17	1.0	ug/L	EPA 8260B	
Iron - Total	37400	D	1200	5000	ug/L	EPA 6020A	
Isopropylbenzene	1.0		0.14	1.0	ug/L	EPA 8260B	
m,p-Xylenes	4.2		0.17	2.0	ug/L	EPA 8260B	
Manganese - Total	2100	D	5.00	10.0	ug/L	EPA 6020A	
o-Xylene	0.47	J	0.06	1.0	ug/L	EPA 8260B	

Client ID: MW-7 **Lab ID: C503653-05RE3**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	290	D	40	90	mg/L	EPA 350.1	

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SAMPLE DETECTION SUMMARY

Client ID: Duplicate-1 **Lab ID: C503653-06**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,2,4-Trichlorobenzene	0.64	J	0.14	1.0	ug/L	EPA 8260B	
1,2-Dichlorobenzene	0.51	J	0.19	1.0	ug/L	EPA 8260B	
1,3-Dichlorobenzene	0.48	J	0.15	1.0	ug/L	EPA 8260B	
1,4-Dichlorobenzene	11		0.19	1.0	ug/L	EPA 8260B	
1,4-Dioxane	540		25	60	ug/L	EPA 8260B	
Acetone	20		1.2	5.0	ug/L	EPA 8260B	
Antimony - Total	1.78	J	0.220	2.00	ug/L	EPA 6020A	
Arsenic - Total	114		0.470	1.00	ug/L	EPA 6020A	
Benzene	8.8		0.15	1.0	ug/L	EPA 8260B	
Bis(2-ethylhexyl)phthalate	2.3	J	1.7	5.0	ug/L	EPA 8270D	
Cadmium - Total	0.151	J	0.100	1.00	ug/L	EPA 6020A	
Chlorobenzene	9.8		0.17	1.0	ug/L	EPA 8260B	
Chromium - Total	3.22		0.450	1.00	ug/L	EPA 6020A	
Isopropylbenzene	1.2		0.14	1.0	ug/L	EPA 8260B	
Lead - Total	0.182	J	0.130	1.00	ug/L	EPA 6020A	
m,p-Xylenes	5.2		0.17	2.0	ug/L	EPA 8260B	
Nickel - Total	104		0.220	1.00	ug/L	EPA 6020A	
Nitrate as N	0.13		0.025	0.10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.13		0.041	0.10	mg/L	EPA 353.2	
o-Xylene	0.63	J	0.06	1.0	ug/L	EPA 8260B	
Sulfate as SO4	12		2.9	5.0	mg/L	EPA 300.0	
Thallium - Total	0.236	J	0.110	1.00	ug/L	EPA 6020A	
Zinc - Total	8.30		0.790	5.00	ug/L	EPA 6020A	

Client ID: Duplicate-1 **Lab ID: C503653-06RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1,4-Dioxane	368	D	12.0	20.0	ug/L	EPA 8260C	
Iron - Total	33200	D	1200	5000	ug/L	EPA 6020A	
Manganese - Total	1910	D	5.00	10.0	ug/L	EPA 6020A	

Client ID: Duplicate-1 **Lab ID: C503653-06RE3**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	280	D	40	90	mg/L	EPA 350.1	

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ANALYTICAL RESULTS

Description: MW-A1 | **Lab Sample ID:** C503653-01 | **Received:** 04/09/15 08:55

Matrix: Ground Water | **Sampled:** 04/08/15 09:50 | **Work Order:** C503653

Project: Edgecombe County Landfill | **Sampled By:** Ben Bradley

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		ug/L	1	0.12	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		ug/L	1	0.28	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		ug/L	1	0.13	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		ug/L	1	0.21	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		ug/L	1	0.01	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		ug/L	1	0.48	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		ug/L	1	0.66	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		ug/L	1	0.19	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		ug/L	1	0.21	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		ug/L	1	0.10	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		ug/L	1	0.19	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
1,4-Dioxane [123-91-1]^	ND		ug/L	1	25	60	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
2-Butanone [78-93-3]^	ND		ug/L	1	1.3	5.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
2-Hexanone [591-78-6]^	ND		ug/L	1	0.88	5.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		ug/L	1	1.1	5.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Acetone [67-64-1]^	ND		ug/L	1	1.2	5.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Benzene [71-43-2]^	ND		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Bromochloromethane [74-97-5]^	ND		ug/L	1	0.48	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Bromodichloromethane [75-27-4]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Bromoform [75-25-2]^	ND		ug/L	1	0.22	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Bromomethane [74-83-9]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Carbon disulfide [75-15-0]^	ND		ug/L	1	1.5	5.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Chlorobenzene [108-90-7]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Chloroethane [75-00-3]^	ND		ug/L	1	0.23	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Chloroform [67-66-3]^	ND		ug/L	1	0.18	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Chloromethane [74-87-3]^	ND		ug/L	1	0.13	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		ug/L	1	0.20	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Cyclohexane [110-82-7]^	ND		ug/L	1	0.36	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Dibromochloromethane [124-48-1]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		ug/L	1	0.20	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Ethylbenzene [100-41-4]^	ND		ug/L	1	0.13	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Freon 113 [76-13-1]^	ND		ug/L	1	0.35	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Isopropylbenzene [98-82-8]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		ug/L	1	0.17	2.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Methyl acetate [79-20-9]^	ND		ug/L	1	0.51	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Methyl cyclohexane [108-87-2]^	ND		ug/L	1	0.54	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Methylene Chloride [75-09-2]^	ND		ug/L	1	0.23	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	**0.91**	J	ug/L	1	0.16	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
o-Xylene [95-47-6]^	ND		ug/L	1	0.06	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Styrene [100-42-5]^	ND		ug/L	1	0.11	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Tetrachloroethene [127-18-4]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Toluene [108-88-3]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	

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ANALYTICAL RESULTS

Description: MW-A1 | **Lab Sample ID:** C503653-01 | **Received:** 04/09/15 08:55
Matrix: Ground Water | **Sampled:** 04/08/15 09:50 | **Work Order:** C503653
Project: Edgecombe County Landfill | **Sampled By:** Ben Bradley

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		ug/L	1	0.21	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Trichloroethene [79-01-6]^	ND		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		ug/L	1	0.24	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	
Vinyl chloride [75-01-4]^	ND		ug/L	1	0.32	1.0	5D20039	EPA 8260B	04/21/15 09:40	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*53*	*1*	*50.0*	*105 %*	*53-136*	*5D20039*	*EPA 8260B*	*04/21/15 09:40*	*MSZ*	
Dibromofluoromethane	*52*	*1*	*50.0*	*103 %*	*67-129*	*5D20039*	*EPA 8260B*	*04/21/15 09:40*	*MSZ*	
Toluene-d8	*53*	*1*	*50.0*	*107 %*	*59-134*	*5D20039*	*EPA 8260B*	*04/21/15 09:40*	*MSZ*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		ug/L	1	1.1	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		ug/L	1	2.6	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		ug/L	1	2.4	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
2-Chloronaphthalene [91-58-7]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
2-Chlorophenol [95-57-8]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		ug/L	1	2.9	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
2-Methylnaphthalene [91-57-6]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
2-Methylphenol [95-48-7]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
2-Nitroaniline [88-74-4]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
2-Nitrophenol [88-75-5]^	ND		ug/L	1	1.1	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		ug/L	1	1.6	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		ug/L	1	3.3	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
3-Nitroaniline [99-09-2]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
4-Chloroaniline [106-47-8]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		ug/L	1	1.6	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
4-Nitroaniline [100-01-6]^	ND		ug/L	1	3.2	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
4-Nitrophenol [100-02-7]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Acenaphthene [83-32-9]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Acenaphthylene [208-96-8]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Acetophenone [98-86-2]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Anthracene [120-12-7]^	ND		ug/L	1	1.6	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Atrazine [1912-24-9]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Benzaldehyde [100-52-7]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Benzo(a)anthracene [56-55-3]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Benzo(a)pyrene [50-32-8]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	

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ANALYTICAL RESULTS

Description: MW-A1 | **Lab Sample ID:** C503653-01 | **Received:** 04/09/15 08:55
Matrix: Ground Water | **Sampled:** 04/08/15 09:50 | **Work Order:** C503653
Project: Edgecombe County Landfill | **Sampled By:** Ben Bradley

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo(b)fluoranthene [205-99-2]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		ug/L	1	2.4	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		ug/L	1	1.7	5.0	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Butylbenzylphthalate [85-68-7]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Caprolactam [105-60-2]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Carbazole [86-74-8]^	ND		ug/L	1	2.5	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Chrysene [218-01-9]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		ug/L	1	2.3	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Dibenzofuran [132-64-9]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Diethylphthalate [84-66-2]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Dimethylphthalate [131-11-3]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Di-n-butylphthalate [84-74-2]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Di-n-octylphthalate [117-84-0]^	ND		ug/L	1	3.1	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Fluoranthene [206-44-0]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Fluorene [86-73-7]^	ND		ug/L	1	1.7	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Hexachlorobenzene [118-74-1]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Hexachlorobutadiene [87-68-3]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Hexachloroethane [67-72-1]^	ND		ug/L	1	1.1	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		ug/L	1	2.2	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Isophorone [78-59-1]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Naphthalene [91-20-3]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Nitrobenzene [98-95-3]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Pentachlorophenol [87-86-5]^	ND		ug/L	1	1.8	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Phenanthrene [85-01-8]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Phenol [108-95-2]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	
Pyrene [129-00-0]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 17:45	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*99*	*1*	*100*	*99 %*	*28-130*	*5D14004*	*EPA 8270D*	*04/17/15 17:45*	*DFM*	
2-Fluorobiphenyl	*38*	*1*	*50.0*	*76 %*	*49-105*	*5D14004*	*EPA 8270D*	*04/17/15 17:45*	*DFM*	
2-Fluorophenol	*64*	*1*	*100*	*64 %*	*28-95*	*5D14004*	*EPA 8270D*	*04/17/15 17:45*	*DFM*	
Nitrobenzene-d5	*36*	*1*	*50.0*	*72 %*	*50-117*	*5D14004*	*EPA 8270D*	*04/17/15 17:45*	*DFM*	
Phenol-d5	*61*	*1*	*100*	*61 %*	*21-184*	*5D14004*	*EPA 8270D*	*04/17/15 17:45*	*DFM*	
Terphenyl-d14	*44*	*1*	*50.0*	*89 %*	*54-124*	*5D14004*	*EPA 8270D*	*04/17/15 17:45*	*DFM*	

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ANALYTICAL RESULTS

Description:	MW-A1	**Lab Sample ID:**	C503653-01	**Received:**	04/09/15 08:55
Matrix:	Ground Water	**Sampled:**	04/08/15 09:50	**Work Order:**	C503653
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	ND		ug/L	1	0.170	0.200	5D16034	EPA 7470A	04/21/15 17:29	T1D	

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	**0.269**	J	ug/L	1	0.220	2.00	5D13024	EPA 6020A	04/17/15 11:08	VLO	
Arsenic [7440-38-2]^	**0.835**	J	ug/L	1	0.470	1.00	5D13024	EPA 6020A	04/17/15 11:08	VLO	
Beryllium [7440-41-7]^	**0.176**	J	ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 11:08	VLO	
Cadmium [7440-43-9]^	**0.125**	J	ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 11:08	VLO	
Chromium [7440-47-3]^	**1.40**		ug/L	1	0.450	1.00	5D13024	EPA 6020A	04/17/15 11:08	VLO	
Copper [7440-50-8]^	**0.323**	J	ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 11:08	VLO	
Iron [7439-89-6]^	**1830**	D	ug/L	5	60.0	250	5D13024	EPA 6020A	04/17/15 11:23	VLO	
Lead [7439-92-1]^	**0.350**	J	ug/L	1	0.130	1.00	5D13024	EPA 6020A	04/17/15 11:08	VLO	
Manganese [7439-96-5]^	**378**		ug/L	1	0.500	1.00	5D13024	EPA 6020A	04/17/15 11:08	VLO	
Nickel [7440-02-0]^	**3.79**		ug/L	1	0.220	1.00	5D13024	EPA 6020A	04/17/15 11:08	VLO	
Selenium [7782-49-2]^	ND		ug/L	1	0.910	3.00	5D13024	EPA 6020A	04/17/15 11:08	VLO	
Silver [7440-22-4]^	ND		ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 11:08	VLO	
Thallium [7440-28-0]^	ND		ug/L	1	0.110	1.00	5D13024	EPA 6020A	04/17/15 11:08	VLO	
Zinc [7440-66-6]^	**4.25**	J	ug/L	1	0.790	5.00	5D13024	EPA 6020A	04/17/15 11:08	VLO	

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]^	**0.076**	J	mg/L	1	0.045	0.10	5D14003	EPA 350.1	04/14/15 10:42	SHA	
Nitrate as N [14797-55-8]^	ND		mg/L	1	0.025	0.10	5D20025	EPA 353.2	04/20/15 11:24	SHA	
Nitrate/Nitrite as N^	ND		mg/L	1	0.041	0.10	5D17003	EPA 353.2	04/17/15 10:28	SHA	
Nitrite as N [14797-65-0]^	ND		mg/L	1	0.017	0.10	5D09037	EPA 353.2	04/09/15 16:51	SHA	
Sulfate as SO4 [14808-79-8]^	**65**		mg/L	1	2.9	5.0	5D09010	EPA 300.0	04/10/15 19:24	SHA	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	**4.74**		ug/L	1	1.20	2.00	5D15016	EPA 8260C	04/15/15 19:21	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.55*	*1*	*5.00*	*91 %*	*79-127*	*5D15016*	*EPA 8260C*	*04/15/15 19:21*	*rgg*	

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ANALYTICAL RESULTS

Description: MW-A2 | **Lab Sample ID:** C503653-02 | **Received:** 04/09/15 08:55

Matrix: Ground Water | **Sampled:** 04/08/15 10:40 | **Work Order:** C503653

Project: Edgecombe County Landfill | **Sampled By:** Ben Bradley

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		ug/L	1	0.12	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		ug/L	1	0.28	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		ug/L	1	0.13	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		ug/L	1	0.21	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		ug/L	1	0.01	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	**1.6**		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		ug/L	1	0.48	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		ug/L	1	0.66	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
1,2-Dichlorobenzene [95-50-1]^	**1.9**		ug/L	1	0.19	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		ug/L	1	0.21	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		ug/L	1	0.10	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
1,3-Dichlorobenzene [541-73-1]^	**2.4**		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
1,4-Dichlorobenzene [106-46-7]^	**17**		ug/L	1	0.19	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
1,4-Dioxane [123-91-1]^	**260**		ug/L	1	25	60	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
2-Butanone [78-93-3]^	ND		ug/L	1	1.3	5.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
2-Hexanone [591-78-6]^	ND		ug/L	1	0.88	5.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		ug/L	1	1.1	5.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Acetone [67-64-1]^	ND		ug/L	1	1.2	5.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Benzene [71-43-2]^	**4.7**		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Bromochloromethane [74-97-5]^	ND		ug/L	1	0.48	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Bromodichloromethane [75-27-4]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Bromoform [75-25-2]^	ND		ug/L	1	0.22	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Bromomethane [74-83-9]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Carbon disulfide [75-15-0]^	ND		ug/L	1	1.5	5.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Chlorobenzene [108-90-7]^	**13**		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Chloroethane [75-00-3]^	ND		ug/L	1	0.23	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Chloroform [67-66-3]^	ND		ug/L	1	0.18	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Chloromethane [74-87-3]^	ND		ug/L	1	0.13	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		ug/L	1	0.20	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Cyclohexane [110-82-7]^	ND		ug/L	1	0.36	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Dibromochloromethane [124-48-1]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		ug/L	1	0.20	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Ethylbenzene [100-41-4]^	ND		ug/L	1	0.13	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Freon 113 [76-13-1]^	ND		ug/L	1	0.35	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Isopropylbenzene [98-82-8]^	**0.85**	J	ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	**0.49**	J	ug/L	1	0.17	2.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Methyl acetate [79-20-9]^	ND		ug/L	1	0.51	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Methyl cyclohexane [108-87-2]^	ND		ug/L	1	0.54	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Methylene Chloride [75-09-2]^	ND		ug/L	1	0.23	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	**0.86**	J	ug/L	1	0.16	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
o-Xylene [95-47-6]^	ND		ug/L	1	0.06	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Styrene [100-42-5]^	ND		ug/L	1	0.11	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Tetrachloroethene [127-18-4]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Toluene [108-88-3]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	

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ANALYTICAL RESULTS

Description: MW-A2 | **Lab Sample ID:** C503653-02 | **Received:** 04/09/15 08:55
Matrix: Ground Water | **Sampled:** 04/08/15 10:40 | **Work Order:** C503653
Project: Edgecombe County Landfill | **Sampled By:** Ben Bradley

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		ug/L	1	0.21	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Trichloroethene [79-01-6]^	ND		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		ug/L	1	0.24	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	
Vinyl chloride [75-01-4]^	ND		ug/L	1	0.32	1.0	5D20039	EPA 8260B	04/21/15 10:09	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*52*	*1*	*50.0*	*104 %*	*53-136*	*5D20039*	*EPA 8260B*	*04/21/15 10:09*	*MSZ*	
Dibromofluoromethane	*50*	*1*	*50.0*	*101 %*	*67-129*	*5D20039*	*EPA 8260B*	*04/21/15 10:09*	*MSZ*	
Toluene-d8	*53*	*1*	*50.0*	*107 %*	*59-134*	*5D20039*	*EPA 8260B*	*04/21/15 10:09*	*MSZ*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		ug/L	1	1.1	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		ug/L	1	2.6	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		ug/L	1	2.4	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
2-Chloronaphthalene [91-58-7]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
2-Chlorophenol [95-57-8]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		ug/L	1	2.9	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
2-Methylnaphthalene [91-57-6]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
2-Methylphenol [95-48-7]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
2-Nitroaniline [88-74-4]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
2-Nitrophenol [88-75-5]^	ND		ug/L	1	1.1	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		ug/L	1	1.6	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		ug/L	1	3.3	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
3-Nitroaniline [99-09-2]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
4-Chloroaniline [106-47-8]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		ug/L	1	1.6	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
4-Nitroaniline [100-01-6]^	ND		ug/L	1	3.2	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
4-Nitrophenol [100-02-7]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Acenaphthene [83-32-9]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Acenaphthylene [208-96-8]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Acetophenone [98-86-2]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Anthracene [120-12-7]^	ND		ug/L	1	1.6	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Atrazine [1912-24-9]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Benzaldehyde [100-52-7]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Benzo(a)anthracene [56-55-3]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Benzo(a)pyrene [50-32-8]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	

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ANALYTICAL RESULTS

Description: MW-A2 | **Lab Sample ID:** C503653-02 | **Received:** 04/09/15 08:55
Matrix: Ground Water | **Sampled:** 04/08/15 10:40 | **Work Order:** C503653
Project: Edgecombe County Landfill | **Sampled By:** Ben Bradley

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo(b)fluoranthene [205-99-2]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		ug/L	1	2.4	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		ug/L	1	1.7	5.0	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Butylbenzylphthalate [85-68-7]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Caprolactam [105-60-2]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Carbazole [86-74-8]^	ND		ug/L	1	2.5	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Chrysene [218-01-9]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		ug/L	1	2.3	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Dibenzofuran [132-64-9]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Diethylphthalate [84-66-2]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Dimethylphthalate [131-11-3]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Di-n-butylphthalate [84-74-2]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Di-n-octylphthalate [117-84-0]^	ND		ug/L	1	3.1	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Fluoranthene [206-44-0]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Fluorene [86-73-7]^	ND		ug/L	1	1.7	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Hexachlorobenzene [118-74-1]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Hexachlorobutadiene [87-68-3]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Hexachloroethane [67-72-1]^	ND		ug/L	1	1.1	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		ug/L	1	2.2	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Isophorone [78-59-1]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Naphthalene [91-20-3]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Nitrobenzene [98-95-3]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Pentachlorophenol [87-86-5]^	ND		ug/L	1	1.8	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Phenanthrene [85-01-8]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Phenol [108-95-2]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	
Pyrene [129-00-0]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 18:13	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*82*	*1*	*100*	*82 %*	*28-130*	*5D14004*	*EPA 8270D*	*04/17/15 18:13*	*DFM*	
2-Fluorobiphenyl	*37*	*1*	*50.0*	*74 %*	*49-105*	*5D14004*	*EPA 8270D*	*04/17/15 18:13*	*DFM*	
2-Fluorophenol	*64*	*1*	*100*	*64 %*	*28-95*	*5D14004*	*EPA 8270D*	*04/17/15 18:13*	*DFM*	
Nitrobenzene-d5	*36*	*1*	*50.0*	*73 %*	*50-117*	*5D14004*	*EPA 8270D*	*04/17/15 18:13*	*DFM*	
Phenol-d5	*59*	*1*	*100*	*59 %*	*21-184*	*5D14004*	*EPA 8270D*	*04/17/15 18:13*	*DFM*	
Terphenyl-d14	*43*	*1*	*50.0*	*87 %*	*54-124*	*5D14004*	*EPA 8270D*	*04/17/15 18:13*	*DFM*	

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ANALYTICAL RESULTS

Description:	MW-A2	**Lab Sample ID:**	C503653-02	**Received:**	04/09/15 08:55
Matrix:	Ground Water	**Sampled:**	04/08/15 10:40	**Work Order:**	C503653
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	ND		ug/L	1	0.170	0.200	5D16034	EPA 7470A	04/21/15 17:31	T1D	

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	**0.653**	J	ug/L	1	0.220	2.00	5D13024	EPA 6020A	04/17/15 11:26	VLO	
Arsenic [7440-38-2]^	**325**		ug/L	1	0.470	1.00	5D13024	EPA 6020A	04/17/15 11:26	VLO	
Beryllium [7440-41-7]^	ND		ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 11:26	VLO	
Cadmium [7440-43-9]^	ND		ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 11:26	VLO	
Chromium [7440-47-3]^	**1.52**		ug/L	1	0.450	1.00	5D13024	EPA 6020A	04/17/15 11:26	VLO	
Copper [7440-50-8]^	ND		ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 11:26	VLO	
Iron [7439-89-6]^	**102000**	D	ug/L	1000	12000	50000	5D13024	EPA 6020A	04/17/15 12:07	VLO	
Lead [7439-92-1]^	ND		ug/L	1	0.130	1.00	5D13024	EPA 6020A	04/17/15 11:26	VLO	
Manganese [7439-96-5]^	**1180**	D	ug/L	5	2.50	5.00	5D13024	EPA 6020A	04/17/15 12:10	VLO	
Nickel [7440-02-0]^	**148**		ug/L	1	0.220	1.00	5D13024	EPA 6020A	04/17/15 11:26	VLO	
Selenium [7782-49-2]^	ND		ug/L	1	0.910	3.00	5D13024	EPA 6020A	04/17/15 11:26	VLO	
Silver [7440-22-4]^	**0.387**	J	ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 11:26	VLO	
Thallium [7440-28-0]^	ND		ug/L	1	0.110	1.00	5D13024	EPA 6020A	04/17/15 11:26	VLO	
Zinc [7440-66-6]^	**9.13**		ug/L	1	0.790	5.00	5D13024	EPA 6020A	04/17/15 11:26	VLO	

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]^	**62**	D	mg/L	90	4.0	9.0	5D14003	EPA 350.1	04/14/15 13:49	SHA	
Nitrate as N [14797-55-8]^	**0.23**		mg/L	1	0.025	0.10	5D20025	EPA 353.2	04/20/15 11:24	SHA	
Nitrate/Nitrite as N^	**0.23**		mg/L	1	0.041	0.10	5D17003	EPA 353.2	04/17/15 10:30	SHA	
Nitrite as N [14797-65-0]^	ND		mg/L	1	0.017	0.10	5D09037	EPA 353.2	04/09/15 16:54	SHA	
Sulfate as SO4 [14808-79-8]^	**17**		mg/L	1	2.9	5.0	5D09010	EPA 300.0	04/10/15 19:43	SHA	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	**344**	D	ug/L	10	12.0	20.0	5D16008	EPA 8260C	04/16/15 14:25	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.40*	*1*	*5.00*	*88 %*	*79-127*	*5D16008*	*EPA 8260C*	*04/16/15 14:25*	*rgg*	

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ANALYTICAL RESULTS

Description: MW-4 | **Lab Sample ID:** C503653-03 | **Received:** 04/09/15 08:55

Matrix: Ground Water | **Sampled:** 04/08/15 15:20 | **Work Order:** C503653

Project: Edgecombe County Landfill | **Sampled By:** Ben Bradley

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		ug/L	1	0.12	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		ug/L	1	0.28	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
1,1-Dichloroethane [75-34-3]^	**0.90**	J	ug/L	1	0.13	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		ug/L	1	0.21	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		ug/L	1	0.01	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	**0.66**	J	ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		ug/L	1	0.48	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		ug/L	1	0.66	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
1,2-Dichlorobenzene [95-50-1]^	**1.4**		ug/L	1	0.19	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		ug/L	1	0.21	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		ug/L	1	0.10	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
1,4-Dichlorobenzene [106-46-7]^	**39**		ug/L	1	0.19	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
1,4-Dioxane [123-91-1]^	ND		ug/L	1	25	60	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
2-Butanone [78-93-3]^	ND		ug/L	1	1.3	5.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
2-Hexanone [591-78-6]^	ND		ug/L	1	0.88	5.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		ug/L	1	1.1	5.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Acetone [67-64-1]^	ND		ug/L	1	1.2	5.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Benzene [71-43-2]^	**29**		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Bromochloromethane [74-97-5]^	ND		ug/L	1	0.48	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Bromodichloromethane [75-27-4]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Bromoform [75-25-2]^	ND		ug/L	1	0.22	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Bromomethane [74-83-9]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Carbon disulfide [75-15-0]^	ND		ug/L	1	1.5	5.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Chlorobenzene [108-90-7]^	**1.1**		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Chloroethane [75-00-3]^	**4.6**		ug/L	1	0.23	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Chloroform [67-66-3]^	**0.52**	J	ug/L	1	0.18	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Chloromethane [74-87-3]^	ND		ug/L	1	0.13	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	**1.2**		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		ug/L	1	0.20	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Cyclohexane [110-82-7]^	**0.93**	J	ug/L	1	0.36	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Dibromochloromethane [124-48-1]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		ug/L	1	0.20	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Ethylbenzene [100-41-4]^	ND		ug/L	1	0.13	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Freon 113 [76-13-1]^	ND		ug/L	1	0.35	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Isopropylbenzene [98-82-8]^	**2.3**		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	**33**		ug/L	1	0.17	2.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Methyl acetate [79-20-9]^	ND		ug/L	1	0.51	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Methyl cyclohexane [108-87-2]^	ND		ug/L	1	0.54	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Methylene Chloride [75-09-2]^	ND		ug/L	1	0.23	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	**0.56**	J	ug/L	1	0.16	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
o-Xylene [95-47-6]^	ND		ug/L	1	0.06	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Styrene [100-42-5]^	ND		ug/L	1	0.11	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Tetrachloroethene [127-18-4]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Toluene [108-88-3]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	

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ANALYTICAL RESULTS

Description: MW-4 | **Lab Sample ID:** C503653-03 | **Received:** 04/09/15 08:55
Matrix: Ground Water | **Sampled:** 04/08/15 15:20 | **Work Order:** C503653
Project: Edgecombe County Landfill | **Sampled By:** Ben Bradley

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		ug/L	1	0.21	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Trichloroethene [79-01-6]^	ND		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		ug/L	1	0.24	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	
Vinyl chloride [75-01-4]^	**0.59**	J	ug/L	1	0.32	1.0	5D20039	EPA 8260B	04/21/15 10:38	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*55*	*1*	*50.0*	*110 %*	*53-136*	*5D20039*	*EPA 8260B*	*04/21/15 10:38*	*MSZ*	
Dibromofluoromethane	*53*	*1*	*50.0*	*107 %*	*67-129*	*5D20039*	*EPA 8260B*	*04/21/15 10:38*	*MSZ*	
Toluene-d8	*54*	*1*	*50.0*	*109 %*	*59-134*	*5D20039*	*EPA 8260B*	*04/21/15 10:38*	*MSZ*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		ug/L	1	1.1	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		ug/L	1	2.6	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		ug/L	1	2.4	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
2-Chloronaphthalene [91-58-7]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
2-Chlorophenol [95-57-8]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		ug/L	1	2.9	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
2-Methylnaphthalene [91-57-6]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
2-Methylphenol [95-48-7]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
2-Nitroaniline [88-74-4]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
2-Nitrophenol [88-75-5]^	ND		ug/L	1	1.1	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		ug/L	1	1.6	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		ug/L	1	3.3	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
3-Nitroaniline [99-09-2]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
4-Chloroaniline [106-47-8]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		ug/L	1	1.6	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
4-Nitroaniline [100-01-6]^	ND		ug/L	1	3.2	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
4-Nitrophenol [100-02-7]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Acenaphthene [83-32-9]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Acenaphthylene [208-96-8]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Acetophenone [98-86-2]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Anthracene [120-12-7]^	ND		ug/L	1	1.6	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Atrazine [1912-24-9]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Benzaldehyde [100-52-7]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Benzo(a)anthracene [56-55-3]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Benzo(a)pyrene [50-32-8]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	

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ANALYTICAL RESULTS

Description: MW-4 | **Lab Sample ID:** C503653-03 | **Received:** 04/09/15 08:55

Matrix: Ground Water | **Sampled:** 04/08/15 15:20 | **Work Order:** C503653

Project: Edgecombe County Landfill | **Sampled By:** Ben Bradley

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo(b)fluoranthene [205-99-2]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		ug/L	1	2.4	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		ug/L	1	1.7	5.0	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Butylbenzylphthalate [85-68-7]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Caprolactam [105-60-2]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Carbazole [86-74-8]^	ND		ug/L	1	2.5	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Chrysene [218-01-9]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		ug/L	1	2.3	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Dibenzofuran [132-64-9]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Diethylphthalate [84-66-2]^	**4.3**	J	ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Dimethylphthalate [131-11-3]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Di-n-butylphthalate [84-74-2]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Di-n-octylphthalate [117-84-0]^	ND		ug/L	1	3.1	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Fluoranthene [206-44-0]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Fluorene [86-73-7]^	ND		ug/L	1	1.7	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Hexachlorobenzene [118-74-1]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Hexachlorobutadiene [87-68-3]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Hexachloroethane [67-72-1]^	ND		ug/L	1	1.1	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		ug/L	1	2.2	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Isophorone [78-59-1]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Naphthalene [91-20-3]^	**2.6**	J	ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Nitrobenzene [98-95-3]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Pentachlorophenol [87-86-5]^	ND		ug/L	1	1.8	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Phenanthrene [85-01-8]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Phenol [108-95-2]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	
Pyrene [129-00-0]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 18:41	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*83*	*1*	*100*	*83 %*	*28-130*	*5D14004*	*EPA 8270D*	*04/17/15 18:41*	*DFM*	
2-Fluorobiphenyl	*39*	*1*	*50.0*	*77 %*	*49-105*	*5D14004*	*EPA 8270D*	*04/17/15 18:41*	*DFM*	
2-Fluorophenol	*67*	*1*	*100*	*67 %*	*28-95*	*5D14004*	*EPA 8270D*	*04/17/15 18:41*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*76 %*	*50-117*	*5D14004*	*EPA 8270D*	*04/17/15 18:41*	*DFM*	
Phenol-d5	*65*	*1*	*100*	*65 %*	*21-184*	*5D14004*	*EPA 8270D*	*04/17/15 18:41*	*DFM*	
Terphenyl-d14	*49*	*1*	*50.0*	*98 %*	*54-124*	*5D14004*	*EPA 8270D*	*04/17/15 18:41*	*DFM*	

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ANALYTICAL RESULTS

Description:	MW-4	**Lab Sample ID:**	C503653-03	**Received:**	04/09/15 08:55
Matrix:	Ground Water	**Sampled:**	04/08/15 15:20	**Work Order:**	C503653
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	ND		ug/L	1	0.170	0.200	5D16034	EPA 7470A	04/21/15 17:33	T1D	

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	**0.233**	J	ug/L	1	0.220	2.00	5D13024	EPA 6020A	04/17/15 11:30	VLO	
Arsenic [7440-38-2]^	**4.37**		ug/L	1	0.470	1.00	5D13024	EPA 6020A	04/17/15 11:30	VLO	
Beryllium [7440-41-7]^	ND		ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 11:30	VLO	
Cadmium [7440-43-9]^	ND		ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 11:30	VLO	
Chromium [7440-47-3]^	**0.927**	J	ug/L	1	0.450	1.00	5D13024	EPA 6020A	04/17/15 11:30	VLO	
Copper [7440-50-8]^	ND		ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 11:30	VLO	
Iron [7439-89-6]^	**27000**	D	ug/L	100	1200	5000	5D13024	EPA 6020A	04/17/15 12:20	VLO	
Lead [7439-92-1]^	**0.647**	J	ug/L	1	0.130	1.00	5D13024	EPA 6020A	04/17/15 11:30	VLO	
Manganese [7439-96-5]^	**230**		ug/L	1	0.500	1.00	5D13024	EPA 6020A	04/17/15 11:30	VLO	
Nickel [7440-02-0]^	**8.23**		ug/L	1	0.220	1.00	5D13024	EPA 6020A	04/17/15 11:30	VLO	
Selenium [7782-49-2]^	ND		ug/L	1	0.910	3.00	5D13024	EPA 6020A	04/17/15 11:30	VLO	
Silver [7440-22-4]^	**0.392**	J	ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 11:30	VLO	
Thallium [7440-28-0]^	ND		ug/L	1	0.110	1.00	5D13024	EPA 6020A	04/17/15 11:30	VLO	
Zinc [7440-66-6]^	**24.4**		ug/L	1	0.790	5.00	5D13024	EPA 6020A	04/17/15 11:30	VLO	

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]^	**27**	D	mg/L	51.43	2.3	5.1	5D14003	EPA 350.1	04/14/15 13:51	SHA	
Nitrate as N [14797-55-8]^	**0.27**		mg/L	1	0.025	0.10	5D20025	EPA 353.2	04/20/15 11:24	SHA	
Nitrate/Nitrite as N^	**0.27**		mg/L	1	0.041	0.10	5D17003	EPA 353.2	04/17/15 10:32	SHA	
Nitrite as N [14797-65-0]^	ND		mg/L	1	0.017	0.10	5D09037	EPA 353.2	04/09/15 16:54	SHA	
Sulfate as SO4 [14808-79-8]^	**21**		mg/L	1	2.9	5.0	5D09010	EPA 300.0	04/10/15 20:01	SHA	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	**3.41**		ug/L	1	1.20	2.00	5D16008	EPA 8260C	04/16/15 15:05	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.52*	*1*	*5.00*	*90 %*	*79-127*	*5D16008*	*EPA 8260C*	*04/16/15 15:05*	*rgg*	

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ANALYTICAL RESULTS

Description: MW-6 | **Lab Sample ID:** C503653-04 | **Received:** 04/09/15 08:55

Matrix: Ground Water | **Sampled:** 04/08/15 14:25 | **Work Order:** C503653

Project: Edgecombe County Landfill | **Sampled By:** Ben Bradley

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		ug/L	1	0.12	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		ug/L	1	0.28	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		ug/L	1	0.13	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		ug/L	1	0.21	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		ug/L	1	0.01	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		ug/L	1	0.48	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		ug/L	1	0.66	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		ug/L	1	0.19	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		ug/L	1	0.21	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		ug/L	1	0.10	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
1,4-Dichlorobenzene [106-46-7]^	**1.2**		ug/L	1	0.19	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
1,4-Dioxane [123-91-1]^	ND		ug/L	1	25	60	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
2-Butanone [78-93-3]^	ND		ug/L	1	1.3	5.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
2-Hexanone [591-78-6]^	ND		ug/L	1	0.88	5.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		ug/L	1	1.1	5.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Acetone [67-64-1]^	ND		ug/L	1	1.2	5.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Benzene [71-43-2]^	ND		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Bromochloromethane [74-97-5]^	ND		ug/L	1	0.48	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Bromodichloromethane [75-27-4]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Bromoform [75-25-2]^	ND		ug/L	1	0.22	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Bromomethane [74-83-9]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Carbon disulfide [75-15-0]^	ND		ug/L	1	1.5	5.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Chlorobenzene [108-90-7]^	**2.8**		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Chloroethane [75-00-3]^	ND		ug/L	1	0.23	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Chloroform [67-66-3]^	ND		ug/L	1	0.18	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Chloromethane [74-87-3]^	ND		ug/L	1	0.13	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	**0.80**	J	ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		ug/L	1	0.20	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Cyclohexane [110-82-7]^	ND		ug/L	1	0.36	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Dibromochloromethane [124-48-1]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		ug/L	1	0.20	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Ethylbenzene [100-41-4]^	ND		ug/L	1	0.13	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Freon 113 [76-13-1]^	ND		ug/L	1	0.35	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Isopropylbenzene [98-82-8]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	**0.98**	J	ug/L	1	0.17	2.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Methyl acetate [79-20-9]^	ND		ug/L	1	0.51	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Methyl cyclohexane [108-87-2]^	ND		ug/L	1	0.54	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Methylene Chloride [75-09-2]^	ND		ug/L	1	0.23	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		ug/L	1	0.16	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
o-Xylene [95-47-6]^	**0.43**	J	ug/L	1	0.06	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Styrene [100-42-5]^	ND		ug/L	1	0.11	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Tetrachloroethene [127-18-4]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Toluene [108-88-3]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	

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ANALYTICAL RESULTS

Description: MW-6 | **Lab Sample ID:** C503653-04 | **Received:** 04/09/15 08:55
Matrix: Ground Water | **Sampled:** 04/08/15 14:25 | **Work Order:** C503653
Project: Edgecombe County Landfill | **Sampled By:** Ben Bradley

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		ug/L	1	0.21	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Trichloroethene [79-01-6]^	ND		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		ug/L	1	0.24	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	
Vinyl chloride [75-01-4]^	ND		ug/L	1	0.32	1.0	5D20039	EPA 8260B	04/21/15 11:08	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*108 %*	*53-136*	*5D20039*	*EPA 8260B*	*04/21/15 11:08*	*MSZ*	
Dibromofluoromethane	*51*	*1*	*50.0*	*101 %*	*67-129*	*5D20039*	*EPA 8260B*	*04/21/15 11:08*	*MSZ*	
Toluene-d8	*54*	*1*	*50.0*	*109 %*	*59-134*	*5D20039*	*EPA 8260B*	*04/21/15 11:08*	*MSZ*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		ug/L	1	1.1	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		ug/L	1	2.6	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		ug/L	1	2.4	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
2-Chloronaphthalene [91-58-7]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
2-Chlorophenol [95-57-8]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		ug/L	1	2.9	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
2-Methylnaphthalene [91-57-6]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
2-Methylphenol [95-48-7]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
2-Nitroaniline [88-74-4]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
2-Nitrophenol [88-75-5]^	ND		ug/L	1	1.1	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		ug/L	1	1.6	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		ug/L	1	3.3	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
3-Nitroaniline [99-09-2]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
4-Chloroaniline [106-47-8]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		ug/L	1	1.6	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
4-Nitroaniline [100-01-6]^	ND		ug/L	1	3.2	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
4-Nitrophenol [100-02-7]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Acenaphthene [83-32-9]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Acenaphthylene [208-96-8]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Acetophenone [98-86-2]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Anthracene [120-12-7]^	ND		ug/L	1	1.6	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Atrazine [1912-24-9]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Benzaldehyde [100-52-7]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Benzo(a)anthracene [56-55-3]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Benzo(a)pyrene [50-32-8]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	

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ANALYTICAL RESULTS

Description: MW-6 | **Lab Sample ID:** C503653-04 | **Received:** 04/09/15 08:55

Matrix: Ground Water | **Sampled:** 04/08/15 14:25 | **Work Order:** C503653

Project: Edgecombe County Landfill | **Sampled By:** Ben Bradley

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo(b)fluoranthene [205-99-2]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		ug/L	1	2.4	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		ug/L	1	1.7	5.0	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Butylbenzylphthalate [85-68-7]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Caprolactam [105-60-2]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Carbazole [86-74-8]^	ND		ug/L	1	2.5	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Chrysene [218-01-9]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		ug/L	1	2.3	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Dibenzofuran [132-64-9]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Diethylphthalate [84-66-2]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Dimethylphthalate [131-11-3]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Di-n-butylphthalate [84-74-2]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Di-n-octylphthalate [117-84-0]^	ND		ug/L	1	3.1	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Fluoranthene [206-44-0]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Fluorene [86-73-7]^	ND		ug/L	1	1.7	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Hexachlorobenzene [118-74-1]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Hexachlorobutadiene [87-68-3]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Hexachloroethane [67-72-1]^	ND		ug/L	1	1.1	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		ug/L	1	2.2	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Isophorone [78-59-1]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Naphthalene [91-20-3]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Nitrobenzene [98-95-3]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Pentachlorophenol [87-86-5]^	ND		ug/L	1	1.8	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Phenanthrene [85-01-8]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Phenol [108-95-2]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	
Pyrene [129-00-0]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 19:08	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*100*	*1*	*100*	*101 %*	*28-130*	*5D14004*	*EPA 8270D*	*04/17/15 19:08*	*DFM*	
2-Fluorobiphenyl	*40*	*1*	*50.0*	*80 %*	*49-105*	*5D14004*	*EPA 8270D*	*04/17/15 19:08*	*DFM*	
2-Fluorophenol	*63*	*1*	*100*	*63 %*	*28-95*	*5D14004*	*EPA 8270D*	*04/17/15 19:08*	*DFM*	
Nitrobenzene-d5	*40*	*1*	*50.0*	*80 %*	*50-117*	*5D14004*	*EPA 8270D*	*04/17/15 19:08*	*DFM*	
Phenol-d5	*52*	*1*	*100*	*52 %*	*21-184*	*5D14004*	*EPA 8270D*	*04/17/15 19:08*	*DFM*	
Terphenyl-d14	*45*	*1*	*50.0*	*90 %*	*54-124*	*5D14004*	*EPA 8270D*	*04/17/15 19:08*	*DFM*	

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ANALYTICAL RESULTS

Description: MW-6 | **Lab Sample ID:** C503653-04 | **Received:** 04/09/15 08:55
Matrix: Ground Water | **Sampled:** 04/08/15 14:25 | **Work Order:** C503653
Project: Edgecombe County Landfill | **Sampled By:** Ben Bradley

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	ND		ug/L	1	0.170	0.200	5D16034	EPA 7470A	04/21/15 17:36	T1D	

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		ug/L	1	0.220	2.00	5D13024	EPA 6020A	04/17/15 11:33	VLO	
Arsenic [7440-38-2]^	**27.7**		ug/L	1	0.470	1.00	5D13024	EPA 6020A	04/17/15 11:33	VLO	
Beryllium [7440-41-7]^	**0.213**	J	ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 11:33	VLO	
Cadmium [7440-43-9]^	**0.122**	J	ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 11:33	VLO	
Chromium [7440-47-3]^	**2.81**		ug/L	1	0.450	1.00	5D13024	EPA 6020A	04/17/15 11:33	VLO	
Copper [7440-50-8]^	**0.363**	J	ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 11:33	VLO	
Iron [7439-89-6]^	**44000**	D	ug/L	100	1200	5000	5D13024	EPA 6020A	04/17/15 12:24	VLO	
Lead [7439-92-1]^	**2.20**		ug/L	1	0.130	1.00	5D13024	EPA 6020A	04/17/15 11:33	VLO	
Manganese [7439-96-5]^	**3690**	D	ug/L	10	5.00	10.0	5D13024	EPA 6020A	04/17/15 12:27	VLO	
Nickel [7440-02-0]^	**14.3**		ug/L	1	0.220	1.00	5D13024	EPA 6020A	04/17/15 11:33	VLO	
Selenium [7782-49-2]^	ND		ug/L	1	0.910	3.00	5D13024	EPA 6020A	04/17/15 11:33	VLO	
Silver [7440-22-4]^	**0.104**	J	ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 11:33	VLO	
Thallium [7440-28-0]^	ND		ug/L	1	0.110	1.00	5D13024	EPA 6020A	04/17/15 11:33	VLO	
Zinc [7440-66-6]^	**9.58**		ug/L	1	0.790	5.00	5D13024	EPA 6020A	04/17/15 11:33	VLO	

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]^	**1.9**		mg/L	1	0.045	0.10	5D14003	EPA 350.1	04/14/15 10:48	SHA	
Nitrate as N [14797-55-8]^	**0.21**		mg/L	1	0.025	0.10	5D20025	EPA 353.2	04/20/15 11:24	SHA	
Nitrate/Nitrite as N^	**0.21**		mg/L	1	0.041	0.10	5D17003	EPA 353.2	04/17/15 10:35	SHA	
Nitrite as N [14797-65-0]^	ND		mg/L	1	0.017	0.10	5D09037	EPA 353.2	04/09/15 16:55	SHA	
Sulfate as SO4 [14808-79-8]^	**25**		mg/L	1	2.9	5.0	5D09010	EPA 300.0	04/10/15 20:20	SHA	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	**9.21**		ug/L	1	1.20	2.00	5D16008	EPA 8260C	04/16/15 15:45	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.54*	*1*	*5.00*	*91 %*	*79-127*	*5D16008*	*EPA 8260C*	*04/16/15 15:45*	*rgg*	

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ANALYTICAL RESULTS

Description: MW-7 | **Lab Sample ID:** C503653-05 | **Received:** 04/09/15 08:55

Matrix: Ground Water | **Sampled:** 04/08/15 13:00 | **Work Order:** C503653

Project: Edgecombe County Landfill | **Sampled By:** Ben Bradley

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		ug/L	1	0.12	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		ug/L	1	0.28	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		ug/L	1	0.14	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		ug/L	1	0.13	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		ug/L	1	0.21	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		ug/L	1	0.01	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	**0.51**	J	ug/L	1	0.14	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		ug/L	1	0.48	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		ug/L	1	0.66	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
1,2-Dichlorobenzene [95-50-1]^	**0.48**	J	ug/L	1	0.19	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		ug/L	1	0.21	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		ug/L	1	0.10	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		ug/L	1	0.15	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
1,4-Dichlorobenzene [106-46-7]^	**9.4**		ug/L	1	0.19	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
1,4-Dioxane [123-91-1]^	**400**		ug/L	1	25	60	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
2-Butanone [78-93-3]^	ND		ug/L	1	1.3	5.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
2-Hexanone [591-78-6]^	ND		ug/L	1	0.88	5.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		ug/L	1	1.1	5.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Acetone [67-64-1]^	**16**		ug/L	1	1.2	5.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Benzene [71-43-2]^	**7.3**		ug/L	1	0.15	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Bromochloromethane [74-97-5]^	ND		ug/L	1	0.48	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Bromodichloromethane [75-27-4]^	ND		ug/L	1	0.17	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Bromoform [75-25-2]^	ND		ug/L	1	0.22	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Bromomethane [74-83-9]^	ND		ug/L	1	0.14	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Carbon disulfide [75-15-0]^	ND		ug/L	1	1.5	5.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		ug/L	1	0.17	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Chlorobenzene [108-90-7]^	**8.4**		ug/L	1	0.17	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Chloroethane [75-00-3]^	ND		ug/L	1	0.23	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Chloroform [67-66-3]^	ND		ug/L	1	0.18	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Chloromethane [74-87-3]^	ND		ug/L	1	0.13	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		ug/L	1	0.15	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		ug/L	1	0.20	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Cyclohexane [110-82-7]^	ND		ug/L	1	0.36	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Dibromochloromethane [124-48-1]^	ND		ug/L	1	0.17	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		ug/L	1	0.20	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Ethylbenzene [100-41-4]^	ND		ug/L	1	0.13	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Freon 113 [76-13-1]^	ND		ug/L	1	0.35	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Isopropylbenzene [98-82-8]^	**1.0**		ug/L	1	0.14	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	**4.2**		ug/L	1	0.17	2.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Methyl acetate [79-20-9]^	ND		ug/L	1	0.51	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Methyl cyclohexane [108-87-2]^	ND		ug/L	1	0.54	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Methylene Chloride [75-09-2]^	ND		ug/L	1	0.23	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		ug/L	1	0.16	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
o-Xylene [95-47-6]^	**0.47**	J	ug/L	1	0.06	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Styrene [100-42-5]^	ND		ug/L	1	0.11	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Tetrachloroethene [127-18-4]^	ND		ug/L	1	0.17	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Toluene [108-88-3]^	ND		ug/L	1	0.14	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	

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ANALYTICAL RESULTS

Description: MW-7 | **Lab Sample ID:** C503653-05 | **Received:** 04/09/15 08:55

Matrix: Ground Water | **Sampled:** 04/08/15 13:00 | **Work Order:** C503653

Project: Edgecombe County Landfill | **Sampled By:** Ben Bradley

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		ug/L	1	0.21	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		ug/L	1	0.15	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Trichloroethene [79-01-6]^	ND		ug/L	1	0.15	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		ug/L	1	0.24	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	
Vinyl chloride [75-01-4]^	ND		ug/L	1	0.32	1.0	5D21043	EPA 8260B	04/22/15 00:04	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*108 %*	*53-136*	*5D21043*	*EPA 8260B*	*04/22/15 00:04*	*MSZ*	
Dibromofluoromethane	*53*	*1*	*50.0*	*106 %*	*67-129*	*5D21043*	*EPA 8260B*	*04/22/15 00:04*	*MSZ*	
Toluene-d8	*54*	*1*	*50.0*	*109 %*	*59-134*	*5D21043*	*EPA 8260B*	*04/22/15 00:04*	*MSZ*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		ug/L	1	1.1	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		ug/L	1	2.6	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		ug/L	1	2.4	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
2-Chloronaphthalene [91-58-7]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
2-Chlorophenol [95-57-8]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		ug/L	1	2.9	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
2-Methylnaphthalene [91-57-6]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
2-Methylphenol [95-48-7]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
2-Nitroaniline [88-74-4]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
2-Nitrophenol [88-75-5]^	ND		ug/L	1	1.1	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		ug/L	1	1.6	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		ug/L	1	3.3	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
3-Nitroaniline [99-09-2]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
4-Chloroaniline [106-47-8]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		ug/L	1	1.6	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
4-Nitroaniline [100-01-6]^	ND		ug/L	1	3.2	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
4-Nitrophenol [100-02-7]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Acenaphthene [83-32-9]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Acenaphthylene [208-96-8]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Acetophenone [98-86-2]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Anthracene [120-12-7]^	ND		ug/L	1	1.6	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Atrazine [1912-24-9]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Benzaldehyde [100-52-7]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Benzo(a)anthracene [56-55-3]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Benzo(a)pyrene [50-32-8]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	

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ANALYTICAL RESULTS

Description: MW-7 | **Lab Sample ID:** C503653-05 | **Received:** 04/09/15 08:55

Matrix: Ground Water | **Sampled:** 04/08/15 13:00 | **Work Order:** C503653

Project: Edgecombe County Landfill | **Sampled By:** Ben Bradley

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo(b)fluoranthene [205-99-2]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		ug/L	1	2.4	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		ug/L	1	1.7	5.0	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Butylbenzylphthalate [85-68-7]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Caprolactam [105-60-2]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Carbazole [86-74-8]^	ND		ug/L	1	2.5	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Chrysene [218-01-9]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		ug/L	1	2.3	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Dibenzofuran [132-64-9]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Diethylphthalate [84-66-2]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Dimethylphthalate [131-11-3]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Di-n-butylphthalate [84-74-2]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Di-n-octylphthalate [117-84-0]^	ND		ug/L	1	3.1	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Fluoranthene [206-44-0]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Fluorene [86-73-7]^	ND		ug/L	1	1.7	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Hexachlorobenzene [118-74-1]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Hexachlorobutadiene [87-68-3]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Hexachloroethane [67-72-1]^	ND		ug/L	1	1.1	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		ug/L	1	2.2	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Isophorone [78-59-1]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Naphthalene [91-20-3]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Nitrobenzene [98-95-3]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Pentachlorophenol [87-86-5]^	ND		ug/L	1	1.8	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Phenanthrene [85-01-8]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Phenol [108-95-2]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	
Pyrene [129-00-0]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 19:36	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*74*	*1*	*100*	*74 %*	*28-130*	*5D14004*	*EPA 8270D*	*04/17/15 19:36*	*DFM*	
2-Fluorobiphenyl	*38*	*1*	*50.0*	*77 %*	*49-105*	*5D14004*	*EPA 8270D*	*04/17/15 19:36*	*DFM*	
2-Fluorophenol	*64*	*1*	*100*	*64 %*	*28-95*	*5D14004*	*EPA 8270D*	*04/17/15 19:36*	*DFM*	
Nitrobenzene-d5	*40*	*1*	*50.0*	*80 %*	*50-117*	*5D14004*	*EPA 8270D*	*04/17/15 19:36*	*DFM*	
Phenol-d5	*46*	*1*	*100*	*46 %*	*21-184*	*5D14004*	*EPA 8270D*	*04/17/15 19:36*	*DFM*	
Terphenyl-d14	*39*	*1*	*50.0*	*79 %*	*54-124*	*5D14004*	*EPA 8270D*	*04/17/15 19:36*	*DFM*	

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ANALYTICAL RESULTS

Description:	MW-7	**Lab Sample ID:**	C503653-05	**Received:**	04/09/15 08:55
Matrix:	Ground Water	**Sampled:**	04/08/15 13:00	**Work Order:**	C503653
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	ND		ug/L	1	0.170	0.200	5D16034	EPA 7470A	04/21/15 17:38	T1D	

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	**2.11**		ug/L	1	0.220	2.00	5D13024	EPA 6020A	04/17/15 11:57	VLO	
Arsenic [7440-38-2]^	**125**		ug/L	1	0.470	1.00	5D13024	EPA 6020A	04/17/15 11:57	VLO	
Beryllium [7440-41-7]^	ND		ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 11:57	VLO	
Cadmium [7440-43-9]^	**0.128**	J	ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 11:57	VLO	
Chromium [7440-47-3]^	**3.02**		ug/L	1	0.450	1.00	5D13024	EPA 6020A	04/17/15 11:57	VLO	
Copper [7440-50-8]^	ND		ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 11:57	VLO	
Iron [7439-89-6]^	**37400**	D	ug/L	100	1200	5000	5D13024	EPA 6020A	04/17/15 12:32	VLO	
Lead [7439-92-1]^	ND		ug/L	1	0.130	1.00	5D13024	EPA 6020A	04/17/15 11:57	VLO	
Manganese [7439-96-5]^	**2100**	D	ug/L	10	5.00	10.0	5D13024	EPA 6020A	04/17/15 12:36	VLO	
Nickel [7440-02-0]^	**112**		ug/L	1	0.220	1.00	5D13024	EPA 6020A	04/17/15 11:57	VLO	
Selenium [7782-49-2]^	**1.11**	J	ug/L	1	0.910	3.00	5D13024	EPA 6020A	04/17/15 11:57	VLO	
Silver [7440-22-4]^	ND		ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 11:57	VLO	
Thallium [7440-28-0]^	**0.262**	J	ug/L	1	0.110	1.00	5D13024	EPA 6020A	04/17/15 11:57	VLO	
Zinc [7440-66-6]^	**7.24**		ug/L	1	0.790	5.00	5D13024	EPA 6020A	04/17/15 11:57	VLO	

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]^	**290**	D	mg/L	900	40	90	5D14003	EPA 350.1	04/14/15 14:29	SHA	
Nitrate as N [14797-55-8]^	**0.12**		mg/L	1	0.025	0.10	5D20025	EPA 353.2	04/20/15 11:24	SHA	
Nitrate/Nitrite as N^	**0.12**		mg/L	1	0.041	0.10	5D17003	EPA 353.2	04/17/15 10:37	SHA	
Nitrite as N [14797-65-0]^	ND		mg/L	1	0.017	0.10	5D09037	EPA 353.2	04/09/15 16:56	SHA	
Sulfate as SO4 [14808-79-8]^	**11**		mg/L	1	2.9	5.0	5D09010	EPA 300.0	04/10/15 20:38	SHA	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	**379**	D	ug/L	10	12.0	20.0	5D20016	EPA 8260C	04/20/15 14:14	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.46*	*1*	*5.00*	*89 %*	*79-127*	*5D20016*	*EPA 8260C*	*04/20/15 14:14*	*rgg*	

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ANALYTICAL RESULTS

Description: Duplicate-1 | **Lab Sample ID:** C503653-06 | **Received:** 04/09/15 08:55

Matrix: Ground Water | **Sampled:** 04/08/15 00:00 | **Work Order:** C503653

Project: Edgecombe County Landfill | **Sampled By:** Ben Bradley

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		ug/L	1	0.12	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		ug/L	1	0.28	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		ug/L	1	0.14	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		ug/L	1	0.13	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		ug/L	1	0.21	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		ug/L	1	0.01	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	**0.64**	J	ug/L	1	0.14	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		ug/L	1	0.48	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		ug/L	1	0.66	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
1,2-Dichlorobenzene [95-50-1]^	**0.51**	J	ug/L	1	0.19	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		ug/L	1	0.21	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		ug/L	1	0.10	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
1,3-Dichlorobenzene [541-73-1]^	**0.48**	J	ug/L	1	0.15	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
1,4-Dichlorobenzene [106-46-7]^	**11**		ug/L	1	0.19	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
1,4-Dioxane [123-91-1]^	**540**		ug/L	1	25	60	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
2-Butanone [78-93-3]^	ND		ug/L	1	1.3	5.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
2-Hexanone [591-78-6]^	ND		ug/L	1	0.88	5.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		ug/L	1	1.1	5.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Acetone [67-64-1]^	**20**		ug/L	1	1.2	5.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Benzene [71-43-2]^	**8.8**		ug/L	1	0.15	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Bromochloromethane [74-97-5]^	ND		ug/L	1	0.48	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Bromodichloromethane [75-27-4]^	ND		ug/L	1	0.17	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Bromoform [75-25-2]^	ND		ug/L	1	0.22	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Bromomethane [74-83-9]^	ND		ug/L	1	0.14	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Carbon disulfide [75-15-0]^	ND		ug/L	1	1.5	5.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		ug/L	1	0.17	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Chlorobenzene [108-90-7]^	**9.8**		ug/L	1	0.17	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Chloroethane [75-00-3]^	ND		ug/L	1	0.23	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Chloroform [67-66-3]^	ND		ug/L	1	0.18	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Chloromethane [74-87-3]^	ND		ug/L	1	0.13	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		ug/L	1	0.15	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		ug/L	1	0.20	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Cyclohexane [110-82-7]^	ND		ug/L	1	0.36	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Dibromochloromethane [124-48-1]^	ND		ug/L	1	0.17	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		ug/L	1	0.20	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Ethylbenzene [100-41-4]^	ND		ug/L	1	0.13	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Freon 113 [76-13-1]^	ND		ug/L	1	0.35	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Isopropylbenzene [98-82-8]^	**1.2**		ug/L	1	0.14	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	**5.2**		ug/L	1	0.17	2.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Methyl acetate [79-20-9]^	ND		ug/L	1	0.51	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Methyl cyclohexane [108-87-2]^	ND		ug/L	1	0.54	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Methylene Chloride [75-09-2]^	ND		ug/L	1	0.23	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		ug/L	1	0.16	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
o-Xylene [95-47-6]^	**0.63**	J	ug/L	1	0.06	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Styrene [100-42-5]^	ND		ug/L	1	0.11	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Tetrachloroethene [127-18-4]^	ND		ug/L	1	0.17	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Toluene [108-88-3]^	ND		ug/L	1	0.14	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	

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ANALYTICAL RESULTS

Description: Duplicate-1 | **Lab Sample ID:** C503653-06 | **Received:** 04/09/15 08:55
Matrix: Ground Water | **Sampled:** 04/08/15 00:00 | **Work Order:** C503653
Project: Edgecombe County Landfill | **Sampled By:** Ben Bradley

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		ug/L	1	0.21	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		ug/L	1	0.15	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Trichloroethene [79-01-6]^	ND		ug/L	1	0.15	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		ug/L	1	0.24	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	
Vinyl chloride [75-01-4]^	ND		ug/L	1	0.32	1.0	5D21043	EPA 8260B	04/22/15 00:33	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*55*	*1*	*50.0*	*110 %*	*53-136*	*5D21043*	*EPA 8260B*	*04/22/15 00:33*	*MSZ*	
Dibromofluoromethane	*51*	*1*	*50.0*	*103 %*	*67-129*	*5D21043*	*EPA 8260B*	*04/22/15 00:33*	*MSZ*	
Toluene-d8	*55*	*1*	*50.0*	*110 %*	*59-134*	*5D21043*	*EPA 8260B*	*04/22/15 00:33*	*MSZ*	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		ug/L	1	1.1	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		ug/L	1	2.6	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		ug/L	1	2.4	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
2-Chloronaphthalene [91-58-7]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
2-Chlorophenol [95-57-8]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		ug/L	1	2.9	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
2-Methylnaphthalene [91-57-6]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
2-Methylphenol [95-48-7]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
2-Nitroaniline [88-74-4]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
2-Nitrophenol [88-75-5]^	ND		ug/L	1	1.1	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		ug/L	1	1.6	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		ug/L	1	3.3	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
3-Nitroaniline [99-09-2]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
4-Chloroaniline [106-47-8]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		ug/L	1	1.6	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
4-Nitroaniline [100-01-6]^	ND		ug/L	1	3.2	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
4-Nitrophenol [100-02-7]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Acenaphthene [83-32-9]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Acenaphthylene [208-96-8]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Acetophenone [98-86-2]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Anthracene [120-12-7]^	ND		ug/L	1	1.6	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Atrazine [1912-24-9]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Benzaldehyde [100-52-7]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Benzo(a)anthracene [56-55-3]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Benzo(a)pyrene [50-32-8]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	

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ANALYTICAL RESULTS

Description: Duplicate-1 | **Lab Sample ID:** C503653-06 | **Received:** 04/09/15 08:55
Matrix: Ground Water | **Sampled:** 04/08/15 00:00 | **Work Order:** C503653
Project: Edgecombe County Landfill | **Sampled By:** Ben Bradley

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo(b)fluoranthene [205-99-2]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		ug/L	1	2.4	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	**2.3**	J	ug/L	1	1.7	5.0	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Butylbenzylphthalate [85-68-7]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Caprolactam [105-60-2]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Carbazole [86-74-8]^	ND		ug/L	1	2.5	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Chrysene [218-01-9]^	ND		ug/L	1	2.0	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		ug/L	1	2.3	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Dibenzofuran [132-64-9]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Diethylphthalate [84-66-2]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Dimethylphthalate [131-11-3]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Di-n-butylphthalate [84-74-2]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Di-n-octylphthalate [117-84-0]^	ND		ug/L	1	3.1	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Fluoranthene [206-44-0]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Fluorene [86-73-7]^	ND		ug/L	1	1.7	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Hexachlorobenzene [118-74-1]^	ND		ug/L	1	1.0	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Hexachlorobutadiene [87-68-3]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Hexachloroethane [67-72-1]^	ND		ug/L	1	1.1	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		ug/L	1	2.2	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Isophorone [78-59-1]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Naphthalene [91-20-3]^	ND		ug/L	1	1.3	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Nitrobenzene [98-95-3]^	ND		ug/L	1	1.2	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		ug/L	1	1.5	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Pentachlorophenol [87-86-5]^	ND		ug/L	1	1.8	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Phenanthrene [85-01-8]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Phenol [108-95-2]^	ND		ug/L	1	1.4	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	
Pyrene [129-00-0]^	ND		ug/L	1	2.1	10	5D14004	EPA 8270D	04/17/15 20:03	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*82*	*1*	*100*	*82 %*	*28-130*	*5D14004*	*EPA 8270D*	*04/17/15 20:03*	*DFM*	
2-Fluorobiphenyl	*38*	*1*	*50.0*	*75 %*	*49-105*	*5D14004*	*EPA 8270D*	*04/17/15 20:03*	*DFM*	
2-Fluorophenol	*58*	*1*	*100*	*58 %*	*28-95*	*5D14004*	*EPA 8270D*	*04/17/15 20:03*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*77 %*	*50-117*	*5D14004*	*EPA 8270D*	*04/17/15 20:03*	*DFM*	
Phenol-d5	*46*	*1*	*100*	*46 %*	*21-184*	*5D14004*	*EPA 8270D*	*04/17/15 20:03*	*DFM*	
Terphenyl-d14	*44*	*1*	*50.0*	*88 %*	*54-124*	*5D14004*	*EPA 8270D*	*04/17/15 20:03*	*DFM*	

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ANALYTICAL RESULTS

Description:	Duplicate-1	**Lab Sample ID:**	C503653-06	**Received:**	04/09/15 08:55
Matrix:	Ground Water	**Sampled:**	04/08/15 00:00	**Work Order:**	C503653
Project:	Edgecombe County Landfill	**Sampled By:**	Ben Bradley		

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	ND		ug/L	1	0.170	0.200	5D16034	EPA 7470A	04/21/15 17:40	T1D	

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

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	**1.78**	J	ug/L	1	0.220	2.00	5D13024	EPA 6020A	04/17/15 12:00	VLO	
Arsenic [7440-38-2]^	**114**		ug/L	1	0.470	1.00	5D13024	EPA 6020A	04/17/15 12:00	VLO	
Beryllium [7440-41-7]^	ND		ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 12:00	VLO	
Cadmium [7440-43-9]^	**0.151**	J	ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 12:00	VLO	
Chromium [7440-47-3]^	**3.22**		ug/L	1	0.450	1.00	5D13024	EPA 6020A	04/17/15 12:00	VLO	
Copper [7440-50-8]^	ND		ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 12:00	VLO	
Iron [7439-89-6]^	**33200**	D	ug/L	100	1200	5000	5D13024	EPA 6020A	04/17/15 12:47	VLO	
Lead [7439-92-1]^	**0.182**	J	ug/L	1	0.130	1.00	5D13024	EPA 6020A	04/17/15 12:00	VLO	
Manganese [7439-96-5]^	**1910**	D	ug/L	10	5.00	10.0	5D13024	EPA 6020A	04/17/15 12:51	VLO	
Nickel [7440-02-0]^	**104**		ug/L	1	0.220	1.00	5D13024	EPA 6020A	04/17/15 12:00	VLO	
Selenium [7782-49-2]^	ND		ug/L	1	0.910	3.00	5D13024	EPA 6020A	04/17/15 12:00	VLO	
Silver [7440-22-4]^	ND		ug/L	1	0.100	1.00	5D13024	EPA 6020A	04/17/15 12:00	VLO	
Thallium [7440-28-0]^	**0.236**	J	ug/L	1	0.110	1.00	5D13024	EPA 6020A	04/17/15 12:00	VLO	
Zinc [7440-66-6]^	**8.30**		ug/L	1	0.790	5.00	5D13024	EPA 6020A	04/17/15 12:00	VLO	

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]^	**280**	D	mg/L	900	40	90	5D14003	EPA 350.1	04/14/15 14:31	SHA	
Nitrate as N [14797-55-8]^	**0.13**		mg/L	1	0.025	0.10	5D20025	EPA 353.2	04/20/15 11:24	SHA	
Nitrate/Nitrite as N^	**0.13**		mg/L	1	0.041	0.10	5D17003	EPA 353.2	04/17/15 10:39	SHA	
Nitrite as N [14797-65-0]^	ND		mg/L	1	0.017	0.10	5D09037	EPA 353.2	04/09/15 16:57	SHA	
Sulfate as SO4 [14808-79-8]^	**12**		mg/L	1	2.9	5.0	5D09010	EPA 300.0	04/10/15 21:34	SHA	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	**368**	D	ug/L	10	12.0	20.0	5D20016	EPA 8260C	04/20/15 14:46	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.63*	*1*	*5.00*	*93 %*	*79-127*	*5D20016*	*EPA 8260C*	*04/20/15 14:46*	*rgg*	

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ANALYTICAL RESULTS

Description: Trip Blank | **Lab Sample ID:** C503653-07 | **Received:** 04/09/15 08:55
Matrix: Water | **Sampled:** 04/08/15 09:50 | **Work Order:** C503653
Project: Edgecombe County Landfill | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		ug/L	1	0.12	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		ug/L	1	0.28	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		ug/L	1	0.13	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		ug/L	1	0.21	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		ug/L	1	0.01	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		ug/L	1	0.48	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		ug/L	1	0.66	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		ug/L	1	0.19	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		ug/L	1	0.21	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		ug/L	1	0.10	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		ug/L	1	0.19	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
1,4-Dioxane [123-91-1]^	ND		ug/L	1	25	60	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
2-Butanone [78-93-3]^	ND		ug/L	1	1.3	5.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
2-Hexanone [591-78-6]^	ND		ug/L	1	0.88	5.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		ug/L	1	1.1	5.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Acetone [67-64-1]^	ND		ug/L	1	1.2	5.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Benzene [71-43-2]^	ND		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Bromochloromethane [74-97-5]^	ND		ug/L	1	0.48	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Bromodichloromethane [75-27-4]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Bromoform [75-25-2]^	ND		ug/L	1	0.22	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Bromomethane [74-83-9]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Carbon disulfide [75-15-0]^	ND		ug/L	1	1.5	5.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Chlorobenzene [108-90-7]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Chloroethane [75-00-3]^	ND		ug/L	1	0.23	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Chloroform [67-66-3]^	ND		ug/L	1	0.18	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Chloromethane [74-87-3]^	ND		ug/L	1	0.13	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		ug/L	1	0.20	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Cyclohexane [110-82-7]^	ND		ug/L	1	0.36	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Dibromochloromethane [124-48-1]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		ug/L	1	0.20	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Ethylbenzene [100-41-4]^	ND		ug/L	1	0.13	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Freon 113 [76-13-1]^	ND		ug/L	1	0.35	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Isopropylbenzene [98-82-8]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		ug/L	1	0.17	2.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Methyl acetate [79-20-9]^	ND		ug/L	1	0.51	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Methyl cyclohexane [108-87-2]^	ND		ug/L	1	0.54	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Methylene Chloride [75-09-2]^	ND		ug/L	1	0.23	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		ug/L	1	0.16	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
o-Xylene [95-47-6]^	ND		ug/L	1	0.06	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Styrene [100-42-5]^	ND		ug/L	1	0.11	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Tetrachloroethene [127-18-4]^	ND		ug/L	1	0.17	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Toluene [108-88-3]^	ND		ug/L	1	0.14	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	

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ANALYTICAL RESULTS

Description: Trip Blank | **Lab Sample ID:** C503653-07 | **Received:** 04/09/15 08:55

Matrix: Water | **Sampled:** 04/08/15 09:50 | **Work Order:** C503653

Project: Edgecombe County Landfill | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		ug/L	1	0.21	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
trans-1,3-Dichloropropene [10061-02-6]^	ND		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Trichloroethene [79-01-6]^	ND		ug/L	1	0.15	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		ug/L	1	0.24	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	
Vinyl chloride [75-01-4]^	ND		ug/L	1	0.32	1.0	5D20039	EPA 8260B	04/21/15 03:23	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*54*	*1*	*50.0*	*108 %*	*53-136*	*5D20039*	*EPA 8260B*	*04/21/15 03:23*	*MSZ*	
Dibromofluoromethane	*51*	*1*	*50.0*	*102 %*	*67-129*	*5D20039*	*EPA 8260B*	*04/21/15 03:23*	*MSZ*	
Toluene-d8	*54*	*1*	*50.0*	*109 %*	*59-134*	*5D20039*	*EPA 8260B*	*04/21/15 03:23*	*MSZ*	

Volatile Organic Compounds by GCMS SIM Isotope Dilution

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,4-Dioxane [123-91-1]^	ND		ug/L	1	1.20	2.00	5D16008	EPA 8260C	04/16/15 13:45	rgg	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
Toluene-d8	*4.68*	*1*	*5.00*	*94 %*	*79-127*	*5D16008*	*EPA 8260C*	*04/16/15 13:45*	*rgg*	

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

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D20039 - EPA 5030B_MS

Blank (5D20039-BLK1) Prepared: 04/20/2015 16:02 Analyzed: 04/21/2015 00:58

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.01	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
1,4-Dioxane	25	U	60	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon Tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Cyclohexane	0.36	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Freon 113	0.35	U	1.0	ug/L							
Isopropylbenzene	0.14	U	1.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methyl acetate	0.51	U	1.0	ug/L							
Methyl cyclohexane	0.54	U	1.0	ug/L							
Methylene Chloride	0.23	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.16	U	1.0	ug/L							
o-Xylene	0.06	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D20039 - EPA 5030B_MS - Continued

Blank (5D20039-BLK1) Continued Prepared: 04/20/2015 16:02 Analyzed: 04/21/2015 00:58

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
4-Bromofluorobenzene	*54*			*ug/L*	*50.0*		*107*	*53-136*			
Dibromofluoromethane	*49*			*ug/L*	*50.0*		*98*	*67-129*			
Toluene-d8	*55*			*ug/L*	*50.0*		*110*	*59-134*			

LCS (5D20039-BS1) Prepared: 04/20/2015 16:02 Analyzed: 04/21/2015 01:27

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		88	75-133			
Benzene	17		1.0	ug/L	20.0		85	81-134			
Chlorobenzene	18		1.0	ug/L	20.0		90	83-117			
Cyclohexane	16		1.0	ug/L	20.0		78	0-200			
Methyl acetate	21		1.0	ug/L	20.0		103	0-200			
Methyl cyclohexane	19		1.0	ug/L	20.0		97	0-200			
Toluene	15		1.0	ug/L	20.0		76	71-118			
Trichloroethene	22		1.0	ug/L	20.0		111	74-119			
4-Bromofluorobenzene	*57*			*ug/L*	*50.0*		*115*	*53-136*			
Dibromofluoromethane	*52*			*ug/L*	*50.0*		*104*	*67-129*			
Toluene-d8	*57*			*ug/L*	*50.0*		*113*	*59-134*			

Matrix Spike (5D20039-MS1) Prepared: 04/20/2015 16:02 Analyzed: 04/21/2015 01:56

Source: C504966-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.21 U	86	75-133			
Benzene	18		1.0	ug/L	20.0	0.15 U	90	81-134			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	97	83-117			
Cyclohexane	15		1.0	ug/L	20.0	0.36 U	75	0-200			
Methyl acetate	20		1.0	ug/L	20.0	0.51 U	100	0-200			
Methyl cyclohexane	17		1.0	ug/L	20.0	0.54 U	83	0-200			
Toluene	16		1.0	ug/L	20.0	0.14 U	81	71-118			
Trichloroethene	22		1.0	ug/L	20.0	0.15 U	112	74-119			
4-Bromofluorobenzene	*59*			*ug/L*	*50.0*		*118*	*53-136*			
Dibromofluoromethane	*54*			*ug/L*	*50.0*		*107*	*67-129*			
Toluene-d8	*55*			*ug/L*	*50.0*		*111*	*59-134*			

Matrix Spike Dup (5D20039-MSD1) Prepared: 04/20/2015 16:02 Analyzed: 04/21/2015 02:25

Source: C504966-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	16		1.0	ug/L	20.0	0.21 U	82	75-133	4	20	
Benzene	16		1.0	ug/L	20.0	0.15 U	79	81-134	13	17	QM-07
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	94	83-117	3	16	
Cyclohexane	13		1.0	ug/L	20.0	0.36 U	65	0-200	15	50	
Methyl acetate	19		1.0	ug/L	20.0	0.51 U	96	0-200	4	50	
Methyl cyclohexane	15		1.0	ug/L	20.0	0.54 U	77	0-200	8	50	
Toluene	16		1.0	ug/L	20.0	0.14 U	81	71-118	0	17	

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D20039 - EPA 5030B_MS - Continued

Matrix Spike Dup (5D20039-MSD1) Continued Prepared: 04/20/2015 16:02 Analyzed: 04/21/2015 02:25

Source: C504966-04

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	94	74-119	18	22	
4-Bromofluorobenzene	*60*			*ug/L*	*50.0*		*121*	*53-136*			
Dibromofluoromethane	*52*			*ug/L*	*50.0*		*104*	*67-129*			
Toluene-d8	*54*			*ug/L*	*50.0*		*109*	*59-134*			

Batch 5D21043 - EPA 5030B_MS

Blank (5D21043-BLK1) Prepared: 04/21/2015 16:56 Analyzed: 04/21/2015 17:07

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.01	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
1,4-Dioxane	25	U	60	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon Tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Cyclohexane	0.36	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Freon 113	0.35	U	1.0	ug/L							
Isopropylbenzene	0.14	U	1.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D21043 - EPA 5030B_MS - Continued

Blank (5D21043-BLK1) Continued Prepared: 04/21/2015 16:56 Analyzed: 04/21/2015 17:07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl acetate	0.51	U	1.0	ug/L							
Methyl cyclohexane	0.54	U	1.0	ug/L							
Methylene Chloride	0.23	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.16	U	1.0	ug/L							
o-Xylene	0.06	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
4-Bromofluorobenzene	*54*			*ug/L*	*50.0*		*107*	*53-136*			
Dibromofluoromethane	*52*			*ug/L*	*50.0*		*104*	*67-129*			
Toluene-d8	*53*			*ug/L*	*50.0*		*107*	*59-134*			

LCS (5D21043-BS1) Prepared: 04/21/2015 16:56 Analyzed: 04/21/2015 17:45

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0		86	75-133			
Benzene	18		1.0	ug/L	20.0		89	81-134			
Chlorobenzene	21		1.0	ug/L	20.0		103	83-117			
Cyclohexane	14		1.0	ug/L	20.0		69	0-200			
Methyl acetate	21		1.0	ug/L	20.0		104	0-200			
Methyl cyclohexane	18		1.0	ug/L	20.0		90	0-200			
Toluene	18		1.0	ug/L	20.0		92	71-118			
Trichloroethene	22		1.0	ug/L	20.0		109	74-119			
4-Bromofluorobenzene	*61*			*ug/L*	*50.0*		*122*	*53-136*			
Dibromofluoromethane	*52*			*ug/L*	*50.0*		*105*	*67-129*			
Toluene-d8	*55*			*ug/L*	*50.0*		*111*	*59-134*			

Matrix Spike (5D21043-MS1) Prepared: 04/21/2015 16:56 Analyzed: 04/21/2015 18:14

Source: C504966-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.21 U	83	75-133			
Benzene	16		1.0	ug/L	20.0	0.15 U	79	81-134			QM-07
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	92	83-117			
Cyclohexane	14		1.0	ug/L	20.0	0.36 U	68	0-200			
Methyl acetate	20		1.0	ug/L	20.0	0.51 U	102	0-200			
Methyl cyclohexane	17		1.0	ug/L	20.0	0.54 U	84	0-200			
Toluene	16		1.0	ug/L	20.0	0.14 U	82	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	100	74-119			
4-Bromofluorobenzene	*59*			*ug/L*	*50.0*		*118*	*53-136*			
Dibromofluoromethane	*52*			*ug/L*	*50.0*		*104*	*67-129*			
Toluene-d8	*56*			*ug/L*	*50.0*		*111*	*59-134*			

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

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 5D21043 - EPA 5030B_MS - Continued

Matrix Spike Dup (5D21043-MSD1) Prepared: 04/21/2015 16:56 Analyzed: 04/21/2015 18:43

Source: C504966-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	17		1.0	ug/L	20.0	0.21 U	84	75-133	2	20	
Benzene	16		1.0	ug/L	20.0	0.15 U	79	81-134	1	17	QM-07
Chlorobenzene	17		1.0	ug/L	20.0	0.17 U	87	83-117	6	16	
Cyclohexane	15		1.0	ug/L	20.0	0.36 U	73	0-200	7	50	
Methyl acetate	18		1.0	ug/L	20.0	0.51 U	90	0-200	12	50	
Methyl cyclohexane	17		1.0	ug/L	20.0	0.54 U	87	0-200	3	50	
Toluene	16		1.0	ug/L	20.0	0.14 U	80	71-118	3	17	
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	95	74-119	5	22	
4-Bromofluorobenzene	*58*			*ug/L*	*50.0*		*116*	*53-136*			
Dibromofluoromethane	*53*			*ug/L*	*50.0*		*106*	*67-129*			
Toluene-d8	*57*			*ug/L*	*50.0*		*114*	*59-134*			

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5D14004 - EPA 3510C_MS

Blank (5D14004-BLK1) Prepared: 04/14/2015 07:43 Analyzed: 04/16/2015 17:17

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1'-Biphenyl	1.5	U	10	ug/L							
1,2,4,5-Tetrachlorobenzene	2.0	U	10	ug/L							
2,3,4,6-Tetrachlorophenol	2.0	U	10	ug/L							
2,4,5-Trichlorophenol	1.0	U	10	ug/L							
2,4,6-Trichlorophenol	1.1	U	10	ug/L							
2,4-Dichlorophenol	1.4	U	10	ug/L							
2,4-Dimethylphenol	1.3	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	2.4	U	10	ug/L							
2,6-Dinitrotoluene	1.5	U	10	ug/L							
2-Chloronaphthalene	1.0	U	10	ug/L							
2-Chlorophenol	1.2	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	2.9	U	10	ug/L							
2-Methylnaphthalene	1.5	U	10	ug/L							
2-Methylphenol	1.4	U	10	ug/L							
2-Nitroaniline	1.5	U	10	ug/L							
2-Nitrophenol	1.1	U	10	ug/L							
3 & 4-Methylphenol	1.6	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							
3-Nitroaniline	2.1	U	10	ug/L							
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.5	U	10	ug/L							
4-Chloroaniline	1.2	U	10	ug/L							
4-Chlorophenyl-phenylether	1.6	U	10	ug/L							
4-Nitroaniline	3.2	U	10	ug/L							
4-Nitrophenol	2.0	U	10	ug/L							
Acenaphthene	1.4	U	10	ug/L							
Acenaphthylene	1.2	U	10	ug/L							
Acetophenone	1.3	U	10	ug/L							
Anthracene	1.6	U	10	ug/L							

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5D14004 - EPA 3510C_MS - Continued

Blank (5D14004-BLK1) Continued Prepared: 04/14/2015 07:43 Analyzed: 04/16/2015 17:17

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Atrazine	1.5	U	10	ug/L							
Benzaldehyde	1.4	U	10	ug/L							
Benzo(a)anthracene	1.3	U	10	ug/L							
Benzo(a)pyrene	1.3	U	10	ug/L							
Benzo(b)fluoranthene	1.0	U	10	ug/L							
Benzo(g,h,i)perylene	2.4	U	10	ug/L							
Benzo(k)fluoranthene	1.3	U	10	ug/L							
Bis(2-chloroethoxy)methane	1.4	U	10	ug/L							
Bis(2-chloroethyl)ether	1.2	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.3	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Butylbenzylphthalate	2.0	U	10	ug/L							
Caprolactam	1.3	U	10	ug/L							
Carbazole	2.5	U	10	ug/L							
Chrysene	2.0	U	10	ug/L							
Dibenzo(a,h)anthracene	2.3	U	10	ug/L							
Dibenzofuran	1.4	U	10	ug/L							
Diethylphthalate	2.1	U	10	ug/L							
Dimethylphthalate	1.4	U	10	ug/L							
Di-n-butylphthalate	1.5	U	10	ug/L							
Di-n-octylphthalate	3.1	U	10	ug/L							
Fluoranthene	2.1	U	10	ug/L							
Fluorene	1.7	U	10	ug/L							
Hexachlorobenzene	1.0	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.3	U	10	ug/L							
Hexachloroethane	1.1	U	10	ug/L							
Indeno(1,2,3-cd)pyrene	2.2	U	10	ug/L							
Isophorone	1.3	U	10	ug/L							
Naphthalene	1.3	U	10	ug/L							
Nitrobenzene	1.2	U	10	ug/L							
N-Nitroso-di-n-propylamine	1.5	U	10	ug/L							
N-nitrosodiphenylamine/Diphenylamine	2.1	U	10	ug/L							
Pentachlorophenol	1.8	U	10	ug/L							
Phenanthrene	1.4	U	10	ug/L							
Phenol	1.4	U	10	ug/L							
Pyrene	2.1	U	10	ug/L							
2,4,6-Tribromophenol	*91*			*ug/L*	*100*		*91*	*28-130*			
2-Fluorobiphenyl	*38*			*ug/L*	*50.0*		*76*	*49-105*			
2-Fluorophenol	*66*			*ug/L*	*100*		*66*	*28-95*			
Nitrobenzene-d5	*39*			*ug/L*	*50.0*		*78*	*50-117*			
Phenol-d5	*55*			*ug/L*	*100*		*55*	*21-184*			
Terphenyl-d14	*41*			*ug/L*	*50.0*		*82*	*54-124*			

LCS (5D14004-BS1) Prepared: 04/14/2015 07:43 Analyzed: 04/16/2015 17:45

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	36		10	ug/L	50.0		72	62-95			
4-Chloro-3-methylphenol	42		10	ug/L	50.0		84	62-108			

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

QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 5D14004 - EPA 3510C_MS - Continued

LCS (5D14004-BS1) Continued Prepared: 04/14/2015 07:43 Analyzed: 04/16/2015 17:45

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4-Nitrophenol	32		10	ug/L	50.0		63	21-97			
Acenaphthene	42		10	ug/L	50.0		83	63-101			
N-Nitroso-di-n-propylamine	37		10	ug/L	50.0		75	57-106			
Pentachlorophenol	38		10	ug/L	50.0		75	25-120			
Phenol	29		10	ug/L	50.0		58	31-78			
2,4,6-Tribromophenol	*92*			*ug/L*	*100*		*92*	*42-123*			
2-Fluorobiphenyl	*43*			*ug/L*	*50.0*		*85*	*49-105*			
2-Fluorophenol	*65*			*ug/L*	*100*		*65*	*28-95*			
Nitrobenzene-d5	*39*			*ug/L*	*50.0*		*77*	*50-117*			
Phenol-d5	*56*			*ug/L*	*100*		*56*	*21-184*			
Terphenyl-d14	*44*			*ug/L*	*50.0*		*89*	*54-124*			

Matrix Spike (5D14004-MS1) Prepared: 04/14/2015 07:43 Analyzed: 04/16/2015 18:12

Source: C504649-05

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	37		10	ug/L	50.0	1.2 U	74	62-95			
4-Chloro-3-methylphenol	45		10	ug/L	50.0	1.5 U	90	62-108			
4-Nitrophenol	36		10	ug/L	50.0	2.0 U	72	21-97			
Acenaphthene	43		10	ug/L	50.0	1.4 U	86	63-101			
N-Nitroso-di-n-propylamine	41		10	ug/L	50.0	1.5 U	81	57-106			
Pentachlorophenol	42		10	ug/L	50.0	1.8 U	84	25-120			
Phenol	29		10	ug/L	50.0	1.4 U	58	31-78			
2,4,6-Tribromophenol	*95*			*ug/L*	*100*		*95*	*42-123*			
2-Fluorobiphenyl	*41*			*ug/L*	*50.0*		*82*	*49-105*			
2-Fluorophenol	*63*			*ug/L*	*100*		*63*	*28-95*			
Nitrobenzene-d5	*39*			*ug/L*	*50.0*		*77*	*50-117*			
Phenol-d5	*54*			*ug/L*	*100*		*54*	*21-184*			
Terphenyl-d14	*48*			*ug/L*	*50.0*		*96*	*54-124*			

Matrix Spike Dup (5D14004-MSD1) Prepared: 04/14/2015 07:43 Analyzed: 04/17/2015 13:07

Source: C504649-05

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	39		10	ug/L	50.0	1.2 U	78	62-95	4	28	
4-Chloro-3-methylphenol	46		10	ug/L	50.0	1.5 U	91	62-108	1	39	
4-Nitrophenol	37		10	ug/L	50.0	2.0 U	73	21-97	1	43	
Acenaphthene	42		10	ug/L	50.0	1.4 U	84	63-101	2	28	
N-Nitroso-di-n-propylamine	40		10	ug/L	50.0	1.5 U	80	57-106	2	34	
Pentachlorophenol	38		10	ug/L	50.0	1.8 U	76	25-120	9	49	
Phenol	29		10	ug/L	50.0	1.4 U	59	31-78	2	29	
2,4,6-Tribromophenol	*95*			*ug/L*	*100*		*95*	*42-123*			
2-Fluorobiphenyl	*33*			*ug/L*	*50.0*		*67*	*49-105*			
2-Fluorophenol	*66*			*ug/L*	*100*		*66*	*28-95*			
Nitrobenzene-d5	*38*			*ug/L*	*50.0*		*77*	*50-117*			
Phenol-d5	*57*			*ug/L*	*100*		*57*	*21-184*			
Terphenyl-d14	*44*			*ug/L*	*50.0*		*89*	*54-124*			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 5D16034 - EPA 7470A

QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Blank (5D16034-BLK1)

Prepared: 04/20/2015 14:49 Analyzed: 04/21/2015 17:05

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

LCS (5D16034-BS1)

Prepared: 04/20/2015 14:49 Analyzed: 04/21/2015 17:09

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.14		0.200	ug/L	5.00		103	80-120			

Matrix Spike (5D16034-MS1)

Prepared: 04/20/2015 14:49 Analyzed: 04/21/2015 17:14

Source: C503872-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.05		0.200	ug/L	5.00	0.170 U	81	75-125			

Matrix Spike Dup (5D16034-MSD1)

Prepared: 04/20/2015 14:49 Analyzed: 04/21/2015 17:16

Source: C503872-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.84		0.200	ug/L	5.00	0.170 U	77	75-125	5	25	

Post Spike (5D16034-PS1)

Prepared: 04/20/2015 14:49 Analyzed: 04/21/2015 17:18

Source: C503872-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	3.40		0.200	ug/L	5.00	-0.0370	68	75-125			QM-08

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

Batch 5D13024 - EPA 3005A

Blank (5D13024-BLK1)

Prepared: 04/13/2015 10:55 Analyzed: 04/17/2015 09:53

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Arsenic	0.470	U	1.00	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.100	U	1.00	ug/L							
Chromium	0.450	U	1.00	ug/L							
Copper	0.100	U	1.00	ug/L							
Iron	12.0	U	50.0	ug/L							
Lead	0.130	U	1.00	ug/L							
Manganese	0.500	U	1.00	ug/L							
Nickel	0.220	U	1.00	ug/L							
Selenium	0.910	U	3.00	ug/L							
Silver	0.100	U	1.00	ug/L							
Thallium	0.110	U	1.00	ug/L							
Zinc	0.790	U	5.00	ug/L							

LCS (5D13024-BS1)

Prepared: 04/13/2015 10:55 Analyzed: 04/17/2015 11:00

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	204		2.00	ug/L	200		102	80-120			
Arsenic	194		1.00	ug/L	200		97	80-120			
Beryllium	205		1.00	ug/L	200		102	80-120			

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QUALITY CONTROL DATA

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

Batch 5D13024 - EPA 3005A - Continued

LCS (5D13024-BS1) Continued Prepared: 04/13/2015 10:55 Analyzed: 04/17/2015 11:00

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cadmium	206		1.00	ug/L	200		103	80-120			
Chromium	198		1.00	ug/L	200		99	80-120			
Copper	202		1.00	ug/L	200		101	80-120			
Iron	198		50.0	ug/L	200		99	80-120			
Lead	209		1.00	ug/L	200		104	80-120			
Manganese	203		1.00	ug/L	200		101	80-120			
Nickel	198		1.00	ug/L	200		99	80-120			
Selenium	210		3.00	ug/L	200		105	80-120			
Silver	205		1.00	ug/L	200		103	80-120			
Thallium	206		1.00	ug/L	200		103	80-120			
Zinc	213		5.00	ug/L	200		107	80-120			

Matrix Spike (5D13024-MS1) Prepared: 04/13/2015 10:55 Analyzed: 04/17/2015 11:12

Source: C503653-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	191		2.00	ug/L	200	0.269	95	75-125			
Arsenic	205		1.00	ug/L	200	0.835	102	75-125			
Beryllium	179		1.00	ug/L	200	0.176	90	75-125			
Cadmium	193		1.00	ug/L	200	0.125	97	75-125			
Chromium	196		1.00	ug/L	200	1.40	97	75-125			
Copper	182		1.00	ug/L	200	0.323	91	75-125			
Iron	1940	E	50.0	ug/L	200	1760	88	75-125			QM-17
Lead	181		1.00	ug/L	200	0.350	90	75-125			
Manganese	572	E	1.00	ug/L	200	378	97	75-125			QM-17
Nickel	190		1.00	ug/L	200	3.79	93	80-120			
Selenium	212		3.00	ug/L	200	0.910 U	106	75-125			
Silver	21.7		1.00	ug/L	200	0.100 U	11	75-125			QM-05
Thallium	181		1.00	ug/L	200	0.110 U	91	75-125			
Zinc	203		5.00	ug/L	200	4.25	99	75-125			

Matrix Spike Dup (5D13024-MSD1) Prepared: 04/13/2015 10:55 Analyzed: 04/17/2015 11:15

Source: C503653-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	190		2.00	ug/L	200	0.269	95	75-125	0.7	20	
Arsenic	196		1.00	ug/L	200	0.835	97	75-125	5	20	
Beryllium	179		1.00	ug/L	200	0.176	90	75-125	0.1	20	
Cadmium	192		1.00	ug/L	200	0.125	96	75-125	0.9	20	
Chromium	195		1.00	ug/L	200	1.40	97	75-125	0.4	20	
Copper	180		1.00	ug/L	200	0.323	90	75-125	1	20	
Iron	1970	E	50.0	ug/L	200	1760	100	75-125	1	20	QM-17
Lead	180		1.00	ug/L	200	0.350	90	75-125	0.8	20	
Manganese	567	E	1.00	ug/L	200	378	95	75-125	0.8	20	QM-17
Nickel	187		1.00	ug/L	200	3.79	92	80-120	2	20	
Selenium	199		3.00	ug/L	200	0.910 U	100	75-125	6	20	
Silver	20.1		1.00	ug/L	200	0.100 U	10	75-125	8	20	QM-05
Thallium	180		1.00	ug/L	200	0.110 U	90	75-125	0.8	20	
Zinc	204		5.00	ug/L	200	4.25	100	75-125	0.6	20	

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QUALITY CONTROL DATA

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

Batch 5D13024 - EPA 3005A - Continued

Post Spike (5D13024-PS1) Prepared: 04/13/2015 10:55 Analyzed: 04/17/2015 11:19

Source: C503653-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	201		2.00	ug/L	200	0.269	100	80-120			
Arsenic	193		1.00	ug/L	200	0.835	96	80-120			
Beryllium	183		1.00	ug/L	200	0.176	91	80-120			
Cadmium	195		1.00	ug/L	200	0.125	98	80-120			
Chromium	195		1.00	ug/L	200	1.40	97	80-120			
Copper	181		1.00	ug/L	200	0.323	90	80-120			
Iron	1950	E	50.0	ug/L	200	1760	91	80-120			QM-17
Lead	183		1.00	ug/L	200	0.350	92	80-120			
Manganese	574	E	1.00	ug/L	200	378	98	80-120			QM-17
Nickel	189		1.00	ug/L	200	3.79	92	80-120			
Selenium	200		3.00	ug/L	200	0.0804	100	80-120			
Silver	113		1.00	ug/L	200	0.0116	57	80-120			QM-08
Thallium	183		1.00	ug/L	200	0.0537	92	80-120			
Zinc	202		5.00	ug/L	200	4.25	99	80-120			

Classical Chemistry Parameters - Quality Control

Batch 5D09010 - NO PREP

Blank (5D09010-BLK1) Prepared: 04/09/2015 09:53 Analyzed: 04/10/2015 10:08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	2.9	U	5.0	mg/L							

LCS (5D09010-BS1) Prepared: 04/09/2015 09:53 Analyzed: 04/10/2015 12:00

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	50		5.0	mg/L	50.0		101	90-110			

Matrix Spike (5D09010-MS1) Prepared: 04/09/2015 09:53 Analyzed: 04/10/2015 12:18

Source: C502700-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	340		50	mg/L	200	140	100	90-110			

Matrix Spike (5D09010-MS2) Prepared: 04/09/2015 09:53 Analyzed: 04/10/2015 13:14

Source: C502701-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	330		50	mg/L	200	130	97	90-110			

Matrix Spike Dup (5D09010-MSD1) Prepared: 04/09/2015 09:53 Analyzed: 04/10/2015 12:37

Source: C502700-04

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	180		50	mg/L	200	140	19	90-110	62	10	QM-07, QM-11

Batch 5D09037 - NO PREP

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

QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 5D09037 - NO PREP - Continued

Blank (5D09037-BLK1) Prepared: 04/09/2015 14:41 Analyzed: 04/09/2015 16:50

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.017	U	0.10	mg/L							

LCS (5D09037-BS1) Prepared: 04/09/2015 14:41 Analyzed: 04/09/2015 16:49

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.97		0.10	mg/L	1.00		97	90-110			

Matrix Spike (5D09037-MS1) Prepared: 04/09/2015 14:41 Analyzed: 04/09/2015 16:52

Source: C503653-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.91		0.10	mg/L	1.00	0.017 U	91	90-110			

Matrix Spike Dup (5D09037-MSD1) Prepared: 04/09/2015 14:41 Analyzed: 04/09/2015 16:53

Source: C503653-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.93		0.10	mg/L	1.00	0.017 U	93	90-110	3	10	

Batch 5D14003 - NO PREP

Blank (5D14003-BLK1) Prepared: 04/14/2015 07:33 Analyzed: 04/14/2015 10:23

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	0.045	U	0.10	mg/L							

LCS (5D14003-BS1) Prepared: 04/14/2015 07:33 Analyzed: 04/14/2015 10:25

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	0.98		0.10	mg/L	0.997		98	90-110			

Matrix Spike (5D14003-MS1) Prepared: 04/14/2015 07:33 Analyzed: 04/14/2015 10:29

Source: C416902-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	79		5.0	mg/L	19.9	65	71	90-110			QM-05

Matrix Spike (5D14003-MS2) Prepared: 04/14/2015 07:33 Analyzed: 04/14/2015 12:52

Source: C501944-01RE1

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	7.9		1.0	mg/L	3.98	4.2	94	90-110			

Matrix Spike Dup (5D14003-MSD1) Prepared: 04/14/2015 07:33 Analyzed: 04/14/2015 10:32

Source: C416902-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	80		5.0	mg/L	19.9	65	75	90-110	0.9	10	QM-05

Batch 5D17003 - NO PREP

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

QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 5D17003 - NO PREP - Continued

Blank (5D17003-BLK1) Prepared: 04/17/2015 07:51 Analyzed: 04/17/2015 10:06

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.041	U	0.10	mg/L							

LCS (5D17003-BS1) Prepared: 04/17/2015 07:51 Analyzed: 04/17/2015 10:08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2		0.10	mg/L	1.25		99	90-110			

Matrix Spike (5D17003-MS1) Prepared: 04/17/2015 07:51 Analyzed: 04/17/2015 10:13

Source: C416902-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	43		5.0	mg/L	25.0	19	96	90-110			

Matrix Spike (5D17003-MS2) Prepared: 04/17/2015 07:51 Analyzed: 04/17/2015 10:21

Source: C501944-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	8.7		1.0	mg/L	5.00	4.0	95	90-110			

Matrix Spike Dup (5D17003-MSD1) Prepared: 04/17/2015 07:51 Analyzed: 04/17/2015 10:19

Source: C416902-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	38		5.0	mg/L	25.0	19	75	90-110	12	10	QM-05, QM-11

Volatile Organic Compounds by GCMS SIM Isotope Dilution - Quality Control

Batch 5D15016 - EPA 5030B_MS

Blank (5D15016-BLK1) Prepared: 04/15/2015 00:00 Analyzed: 04/15/2015 11:07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	1.20	U	2.00	ug/L							
Toluene-d8	*4.30*			*ug/L*	*5.00*		*86*	*79-127*			

LCS (5D15016-BS1) Prepared: 04/15/2015 00:00 Analyzed: 04/15/2015 09:17

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	25.5		2.00	ug/L	25.0		102	80-133			
Toluene-d8	*4.36*			*ug/L*	*5.00*		*87*	*79-127*			

LCS Dup (5D15016-BSD1) Prepared: 04/15/2015 00:00 Analyzed: 04/15/2015 09:52

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	24.5		2.00	ug/L	25.0		98	80-133	4	19	
Toluene-d8	*4.36*			*ug/L*	*5.00*		*87*	*79-127*			

Batch 5D16008 - EPA 5030B_MS

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS SIM Isotope Dilution - Quality Control

Batch 5D16008 - EPA 5030B_MS - Continued

Blank (5D16008-BLK1) Prepared: 04/16/2015 00:00 Analyzed: 04/16/2015 10:44

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	1.20	U	2.00	ug/L							
Toluene-d8	*4.57*			*ug/L*	*5.00*		*91*	*79-127*			

LCS (5D16008-BS1) Prepared: 04/16/2015 00:00 Analyzed: 04/16/2015 09:36

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	24.2		2.00	ug/L	25.0		97	80-133			
Toluene-d8	*4.54*			*ug/L*	*5.00*		*91*	*79-127*			

LCS Dup (5D16008-BSD1) Prepared: 04/16/2015 00:00 Analyzed: 04/16/2015 10:10

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	25.0		2.00	ug/L	25.0		100	80-133	3	19	
Toluene-d8	*4.60*			*ug/L*	*5.00*		*92*	*79-127*			

Batch 5D20016 - EPA 5030B_MS

Blank (5D20016-BLK1) Prepared: 04/20/2015 00:00 Analyzed: 04/20/2015 13:40

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	1.20	U	2.00	ug/L							
Toluene-d8	*4.72*			*ug/L*	*5.00*		*94*	*79-127*			

LCS (5D20016-BS1) Prepared: 04/20/2015 00:00 Analyzed: 04/20/2015 12:20

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	23.4		2.00	ug/L	25.0		94	80-133			
Toluene-d8	*4.30*			*ug/L*	*5.00*		*86*	*79-127*			

LCS Dup (5D20016-BSD1) Prepared: 04/20/2015 00:00 Analyzed: 04/20/2015 12:58

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,4-Dioxane	24.2		2.00	ug/L	25.0		97	80-133	3	19	
Toluene-d8	*4.32*			*ug/L*	*5.00*		*86*	*79-127*			

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

FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
ND	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence (85% or greater confidence) to make a "tentative identification".
P	Greater than 25% concentration difference was observed between the primary and secondary GC column. The lower concentration is reported.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QM-17	Matrix spike recovery was outside acceptance limits due to high concentrations of analyte in source sample.

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

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

www.encolabs.com

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945
4810 Executive Park Court, Suite 111 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210
102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Page 1 of 1

Client Name: Schnabel Engineering (SH010)	Project Number: 653DP-8
Address: 11-A Oak Branch Drive	Project Name/Desc: Edgecombe County Landfill
City/ST/Zip: Greensboro, NC 27407	PO # / Billing Info:
Tel: (336) 274-9456 Fax:	Reporting Contact: Benjamin Bradley
Sampler(s) Name, Affiliation (Print): Ben Bradley	Billing Contact: Benjamin Bradley
Sampler(s) Signature: Benjamin L Bradley	Site Location / Time Zone:

Requested Turnaround Times

Note : Rush requests subject to acceptance by the facility

___ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C503653

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B TCL SOM01.2,8260C SIM ID	8270D TCL SOM01.2	Ag,As,Be,Cd,Cr,Cu,Fe,Mn,Ni,Pb,Sb,Se,Tl,Zn	Ammonia 350.1,NOX 353.2	Hg	Nitrate Calc 353.2	Nitrite as N 353.2	Sulfate 300			Sample Comments
	MW-A1	4-8-15	9:50	G	GW	10	X	X	X	X	X	X	X	X			
	MW-A2	↓	10:40	↓	GW	10	X	X	X	X	X	X	X	X			
	~~MW-2~~				~~GW~~	~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			
	MW-4		15:20		GW	10	X	X	X	X	X	X	X	X			
	MW-6		14:25		GW	10	X	X	X	X	X	X	X	X			
	MW-7		13:00		GW	10	X	X	X	X	X	X	X	X			
	Duplicate-1				~~GW~~	~~10~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			
	~~Duplicate-2~~				GW	10	X	X	X	X	X	X	X	X			
	Trip Blank				WA	~~X~~ 1	X										

<-- Total # of Containers

Sample Kit Prepared By	Date/Time	Relinquished By	Date/Time	Received By	Date/Time
Comments/Special Reporting Requirements		Benjamin L Bradley	4815 4:45	[illegible]	4/9/15 0855
		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: CA-25 1.5C C217 0.9C		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix : **GW**-Groundwater **SO**-Soil **DW**-Drinking Water **SE**-Sediment **SW**-Surface Water **WW**-Wastewater **A**-Air **O**-Other (detail in comments) **Preservation:** **I**-Ice **H**-HCl **N**-HNO3 **S**-H2SO4 **NO**-NaOH **O**-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

April 14, 2015

Elite Techniques, Inc
1817 Bishopville Highway
Camden, SC 29020

CLIENT PROJECT: Edgecombe County; 01-025-15
CEI LAB CODE: A15-3288

Dear Customer:

Enclosed are asbestos analysis results for PLM Bulk samples received at our laboratory on April 10, 2015. The samples were analyzed for asbestos using polarizing light microscopy (PLM) per the EPA 600 Method.

Sample results containing >1% asbestos are considered asbestos-containing materials (ACMs) per EPA regulatory requirements. The detection limit for the EPA 600 Method is <1% asbestos by weight as determined by visual estimation.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP Lab Code 101768-0

ASBESTOS ANALYTICAL REPORT
By: Polarized Light Microscopy

Prepared for

Elite Techniques, Inc

CLIENT PROJECT: Edgecombe County; 01-025-15

CEI LAB CODE: A15-3288

TEST METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

REPORT DATE: 04/14/15

TOTAL SAMPLES ANALYZED: 23

SAMPLES >1% ASBESTOS:

TEL: 866-481-1412

www.ceilabs.com

Asbestos Report Summary

By: POLARIZING LIGHT MICROSCOPY

PROJECT: Edgecombe County; 01-025-15 **CEI LAB CODE:** A15-3288

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

Client ID	Layer	Lab ID	Color	Sample Description	ASBESTOS %
GP-A2 0-2.5		A1946377	Brown	Soil	None Detected
GP-A2 2.5-5		A1946378	Black	Soil	None Detected
GP-A2 5-7.5		A1946379	Yellow	Soil	None Detected
GP-A2 7.5-10		A1946380	Tan,Black	Soil	None Detected
GP-3 0-2.5		A1946381	Brown	Soil	None Detected
GP-3 2.5-5		A1946382	Brown	Soil	None Detected
GP-3 5-7.5		A1946383	Black	Soil	None Detected
GP-3 7.5-10		A1946384	Black,White	Soil	None Detected
GP-3 10-12		A1946385	Yellow	Soil	None Detected
GP-4 0-2.5		A1946386	Yellow	Soil	None Detected
GP-4 2.5-5		A1946387	Brown	Soil	None Detected
GP-4 5-7.5	Layer 1	A1946388	Brown	Cellulose	None Detected
	Layer 2	A1946388	Black	Soil	None Detected
GP-4 7.5-10		A1946389	Yellow	Soil	None Detected
GP-4 10-11		A1946390	Yellow	Soil	None Detected
GP-9 0-2.5		A1946391	Yellow	Soil	None Detected
GP-9 2.5-5		A1946392	Yellow,Black	Soil	None Detected
GP-9 5-7.5		A1946393	Yellow,Black	Soil	None Detected
GP-9 7.5-10		A1946394	Yellow,Black	Soil	None Detected
GP-11 0-2.5		A1946395	Yellow	Soil	None Detected
GP-11 2.5-5		A1946396	Yellow,Black	Soil	None Detected
GP-11 5-7.5		A1946397	Yellow,Black	Soil	None Detected
GP-11 7.5-10		A1946398	Yellow,Black	Soil	None Detected
GP-11 10-12		A1946399	Yellow,Black	Soil	None Detected

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Elite Techniques, Inc
1817 Bishopville Highway
Camden, SC 29020

CEI Lab Code: A15-3288
Date Received: 04-10-15
Date Analyzed: 04-14-15
Date Reported: 04-14-15

Project: Edgecombe County; 01-025-15

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
GP-A2 0-2.5 A1946377	Soil	Homogeneous Brown Fibrous Loose	+% +%	Cellulose Synthetic Fiber	+% +%	Silicates Binder	**None Detected**
Lab Notes: (+) indicates component is present in sample.							
GP-A2 2.5-5 A1946378	Soil	Homogeneous Black Fibrous Loose	+% +%	Cellulose Synthetic Fiber	+% +%	Silicates Binder	**None Detected**
Lab Notes: (+) indicates component is present in sample.							
GP-A2 5-7.5 A1946379	Soil	Homogeneous Yellow Fibrous Loose	+% +%	Cellulose Synthetic Fiber	+% +%	Silicates Binder	**None Detected**
Lab Notes: (+) indicates component is present in sample.							
GP-A2 7.5-10 A1946380	Soil	Homogeneous Tan,Black Fibrous Loose	+% +%	Cellulose Synthetic Fiber	+% +%	Silicates Binder	**None Detected**
Lab Notes: (+) indicates component is present in sample.							
GP-3 0-2.5 A1946381	Soil	Homogeneous Brown Fibrous Loose	+% +%	Cellulose Synthetic Fiber	+% +%	Silicates Binder	**None Detected**
Lab Notes: (+) indicates component is present in sample.							
GP-3 2.5-5 A1946382	Soil	Homogeneous Brown Fibrous Loose	+% +%	Cellulose Synthetic Fiber	+% +%	Silicates Binder	**None Detected**
Lab Notes: (+) indicates component is present in sample.							

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Elite Techniques, Inc
1817 Bishopville Highway
Camden, SC 29020

CEI Lab Code: A15-3288
Date Received: 04-10-15
Date Analyzed: 04-14-15
Date Reported: 04-14-15

Project: Edgecombe County; 01-025-15

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
GP-3 5-7.5	Soil	Homogeneous	+%	Cellulose	+%	Silicates	**None Detected**
A1946383		Black	+%	Synthetic Fiber	+%	Paint	
		Fibrous			+%	Binder	
		Loose					
Lab Notes: (+) indicates component is present in sample.							
GP-3 7.5-10	Soil	Homogeneous	+%	Cellulose	+%	Silicates	**None Detected**
A1946384		Black,White			+%	Paint	
		Fibrous			+%	Binder	
		Loose					
Lab Notes: (+) indicates component is present in sample.							
GP-3 10-12	Soil	Homogeneous	+%	Cellulose	+%	Silicates	**None Detected**
A1946385		Yellow			+%	Paint	
		Fibrous			+%	Binder	
		Loose					
Lab Notes: (+) indicates component is present in sample.							
GP-4 0-2.5	Soil	Homogeneous	+%	Cellulose	+%	Silicates	**None Detected**
A1946386		Yellow			+%	Binder	
		Non-fibrous					
		Loose					
Lab Notes: (+) indicates component is present in sample.							
GP-4 2.5-5	Soil	Homogeneous	+%	Cellulose	+%	Silicates	**None Detected**
A1946387		Brown			+%	Binder	
		Non-fibrous			+%	Metal	
		Loose					
Lab Notes: (+) indicates component is present in sample.							
GP-4 5-7.5	Cellulose	Heterogeneous	95%	Cellulose	5%	Paint	**None Detected**
Layer 1		Brown					
A1946388		Fibrous					
		Tightly Bound					

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Elite Techniques, Inc
1817 Bishopville Highway
Camden, SC 29020

CEI Lab Code: A15-3288
Date Received: 04-10-15
Date Analyzed: 04-14-15
Date Reported: 04-14-15

Project: Edgecombe County; 01-025-15

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID / Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
Layer 2	Soil	Heterogeneous	+%	Cellulose	+%	Silicates	**None Detected**
A1946388		Black			+%	Binder	
		Fibrous					
		Loose					
Lab Notes: (+) indicates component is present in sample.							
GP-4 7.5-10	Soil	Homogeneous	+%	Cellulose	+%	Silicates	**None Detected**
A1946389		Yellow			+%	Binder	
		Non-fibrous					
		Loose					
Lab Notes: (+) indicates component is present in sample.							
GP-4 10-11	Soil	Homogeneous	+%	Cellulose	+%	Silicates	**None Detected**
A1946390		Yellow			+%	Binder	
		Non-fibrous					
		Loose					
Lab Notes: (+) indicates component is present in sample.							
GP-9 0-2.5	Soil	Homogeneous	+%	Cellulose	+%	Silicates	**None Detected**
A1946391		Yellow			+%	Binder	
		Non-fibrous					
		Loose					
Lab Notes: (+) indicates component is present in sample.							
GP-9 2.5-5	Soil	Homogeneous	+%	Cellulose	+%	Silicates	**None Detected**
A1946392		Yellow,Black			+%	Binder	
		Non-fibrous					
		Loose					
Lab Notes: (+) indicates component is present in sample.							
GP-9 5-7.5	Soil	Homogeneous	+%	Cellulose	+%	Silicates	**None Detected**
A1946393		Yellow,Black			+%	Binder	
		Non-fibrous					
		Loose					
Lab Notes: (+) indicates component is present in sample.							

ASBESTOS BULK ANALYSIS

By: POLARIZING LIGHT MICROSCOPY

Client: Elite Techniques, Inc
1817 Bishopville Highway
Camden, SC 29020

CEI Lab Code: A15-3288
Date Received: 04-10-15
Date Analyzed: 04-14-15
Date Reported: 04-14-15

Project: Edgecombe County; 01-025-15

ASBESTOS BULK PLM, EPA 600 METHOD

Client ID Lab ID	Lab Description	Lab Attributes	NON-ASBESTOS COMPONENTS Fibrous		Non-Fibrous		ASBESTOS %
GP-9 7.5-10 A1946394	Soil	Homogeneous Yellow,Black Non-fibrous Loose	+%	Cellulose	+% +%	Silicates Binder	**None Detected**
Lab Notes: (+) indicates component is present in sample.							
GP-11 0-2.5 A1946395	Soil	Homogeneous Yellow Non-fibrous Loose	+%	Cellulose	+% +%	Silicates Binder	**None Detected**
Lab Notes: (+) indicates component is present in sample.							
GP-11 2.5-5 A1946396	Soil	Homogeneous Yellow,Black Non-fibrous Loose	+%	Cellulose	+% +%	Silicates Binder	**None Detected**
Lab Notes: (+) indicates component is present in sample.							
GP-11 5-7.5 A1946397	Soil	Homogeneous Yellow,Black Non-fibrous Loose	+%	Cellulose	+% +%	Silicates Binder	**None Detected**
Lab Notes: (+) indicates component is present in sample.							
GP-11 7.5-10 A1946398	Soil	Homogeneous Yellow,Black Non-fibrous Loose	+%	Cellulose	+% +%	Silicates Binder	**None Detected**
Lab Notes: (+) indicates component is present in sample.							
GP-11 10-12 A1946399	Soil	Homogeneous Yellow,Black Non-fibrous Loose	+%	Cellulose	+% +%	Silicates Binder	**None Detected**
Lab Notes: (+) indicates component is present in sample.							

LEGEND:	Non-Anth	= Non-Asbestiform Anthophyllite
	Non-Trem	= Non-Asbestiform Tremolite
	Calc Carb	= Calcium Carbonate

METHOD: EPA 600 / R93 / 116 and EPA 600 / M4-82 / 020

LIMIT OF DETECTION: <1% by visual estimation

REGULATORY LIMIT: >1% by weight

Due to the limitations of the EPA 600 method, nonfriable organically bound materials (NOBs) such as vinyl floor tiles can be difficult to analyze via polarized light microscopy (PLM). EPA recommends that all NOBs analyzed by PLM, and found not to contain asbestos, be further analyzed by Transmission Electron Microscopy (TEM). Please note that PLM analysis of dust and soil samples for asbestos is not covered under NVLAP accreditation.

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by CEI Labs, Inc. CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.

ANALYST: Ella Nguyen

APPROVED BY: Tianbao Bai, Ph.D., CIH
Laboratory Director

NVLAP Lab Code 101768-0

ASBESTOS CHAIN OF CUSTODY

23 A15-3288
A1946377-A1946399

CEI LABS

107 New Edition Court, Cary, NC 27511
Tel: 866-481-1412; Fax: 919-481-1442

LAB USE ONLY:
CEI Lab Code:
CEI Lab I.D. Range:

COMPANY INFORMATION	PROJECT INFORMATION
CEI CLIENT #:26700	Job Contact:Dearal Rodgers
Company:Elite Techniques, Inc	Email / Tel:
Address:1817 Bishopville Highway	Project Name: Edgecombe County
Camden, SC 29020	Project ID# 01-025-15
Email:drodgers.elitetechniques@gmail.com	PO #: 01-025-15
Tel:803-223-1117 Fax:	**STATE SAMPLES COLLECTED IN:** NC

GENERAL INSTRUCTIONS		
POSITIVE STOP ANALYSIS	☐	**PLM DUE DATE:** / /
ANALYZE NOB'S BY TEM	☐	**TEM DUE DATE:** / /

IF TAT IS NOT MARKED STANDARD 3 DAY TAT APPLIES.

ASBESTOS	METHOD	TURN AROUND TIME					
		4 HR	8 HR	24 HR	2 DAY	3 DAY	5 DAY
PLM BULK	EPA 600	☐	☐	☐	☐	☒	☐
PLM POINT COUNT (400)	EPA 600	☐	☐	☐	☐	☐	☐
PLM POINT COUNT (1000)	EPA 600	☐	☐	☐	☐	☐	☐
PLM GRAV w POINT COUNT	EPA 600		☐	☐	☐	☐	☐
PCM AIR	NIOSH 7400	☐	☐	☐	☐	☐	☐
TEM AIR AHERA	EPA AHERA	☐	☐	☐	☐	☐	☐
TEM AIR NIOSH	NIOSH 7402	☐	☐	☐	☐	☐	☐
TEM BULK	CHATFIELD		☐	☐	☐	☐	☐
TEM DUST WIPE	ASTM D6480-05	☐	☐	☐	☐	☐	☐
TEM DUST MICROVAC	ASTM D5755-09	☐	☐	☐	☐	☐	☐
TEM SOIL	ASTM D7521-13			☐	☐	☐	☐
TEM VERMICULITE	CINCINNATI METHOD			☐	☐	☐	☐
OTHER:		☐	☐	☐	☐	☐	☐

REMARKS:
Soil Samples - PLM only

☒ Accept Samples
☐ Reject Samples

Relinquished By:	Date/Time	Received By:	Date/Time
Dearal Rodgers	4/9/15 1300	[signature]	1030 4/10/15

Samples will be disposed of 30 days after analysis

ASBESTOS SAMPLING FORM

23 A15-3288
A1946377-
A1946399

CEI LABS

COMPANY CONTACT INFORMATION	
Company: Elite Techniques, Inc.	Job Contact: Dearal Rodgers
Project Name: Edgecombe County	
Project ID #: 01-025-15	Tel: 803-223-1117

SAMPLE ID#	DESCRIPTION / LOCATION	VOLUME/ AREA	TEST			
GP-A2 0-2.5			PLM	X	TEM	
GP-A2 2.5-5			PLM	X	TEM	
GP-A2 5-7.5			PLM	X	TEM	
GP-A2 7.5-10			PLM	X	TEM	
GP-3 0-2.5			PLM	X	TEM	
GP-3 2.5-5			PLM	X	TEM	
GP-3 5-7.5			PLM	X	TEM	
GP-3 7.5-10			PLM	X	TEM	
GP-3 10-12			PLM	X	TEM	
GP-4 0-2.5			PLM	X	TEM	
GP-4 2.5-5			PLM	X	TEM	
GP-4 5-7.5			PLM	X	TEM	
GP-4 7.5-10			PLM	X	TEM	
GP-4 10-11			PLM	X	TEM	
GP-9 0-2.5			PLM	X	TEM	
GP-9 2.5-5			PLM	X	TEM	
GP-9 5-7.5			PLM	X	TEM	
GP-9 7.5-10			PLM	X	TEM	
GP-11 0-2.5			PLM	X	TEM	
GP-11 2.5-5			PLM	X	TEM	
GP-11 5-7.5			PLM	X	TEM	
GP-11 7.5-10			PLM	X	TEM	
GP-11 10-12			PLM	X	TEM	
			PLM		TEM	
			PLM		TEM	
			PLM		TEM	
			PLM		TEM	
			PLM		TEM	
			PLM		TEM	
			PLM		TEM	