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DuPont Engineering

RECEIVED
JUN 22 2015
SOLID WASTE SECTION

June 18, 2015

Mr. Ethan Brown
NCDENR
Compliance Hydrogeologist
Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646

Re: 2015 Annual Groundwater Monitoring Report
DuPont Industrial Landfills, NC Solid Waste Landfill Permit No. 10-06
Cape Fear Plant, Leland, NC

Dear Mr. Brown,

As required in Landfill Permit No.10-06, attached please find the results of the annual groundwater monitoring program completed at the DuPont Cape Fear Site in March 2015. This annual report was prepared in accordance with NCDENR guidelines for environmental monitoring at solid waste sites. A completed Environmental Monitoring Reporting Form has been included with this report.

Please feel free to contact me at 704-362-6626 if you have any questions concerning this annual groundwater monitoring report.

Sincerely,

Jamie Vanbuskirk
Project Director
DuPont Corporate Remediation Group

cc: Mr. Ervin Lane, NCDENR, SWS
File

DENR USE ONLY ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

DuPont (Facility Owner)

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

Name: Marc Harder Phone: 704-558-4199

E-mail: marc.harder@parsons.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
DuPont Cape Fear Site	3500 Daniels Road NE Leland, NC 28451	10-06	.0500	March 24-25, 2015

Environmental Status: (Check all that apply)

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

Type of data submitted: (Check all that apply)

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

Notification attached?

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

Certification

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

Marc W Harder — Project Manager — 704-558-4199

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

Marc W. Harder — 6/18/2015

Signature — Date

Affix NC Licensed/Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1763 GEOLOGIST MARC W. HARDER

Parsons, 4701 Hedgemore Drive, Charlotte, NC 28209

Facility Representative Address

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

Revised 6/2009

2015 Annual Landfill Groundwater Sampling Report
DuPont Cape Fear Site
Leland, North Carolina

As required in Landfill Permit No. 10-06, attached please find the results of the annual groundwater monitoring program completed at the DuPont Cape Fear Site in March 2015. This annual report was prepared in accordance with NCDENR guidelines for environmental monitoring at solid waste sites and a completed Environmental Monitoring Reporting Form has been included with this report.

Eleven monitoring wells have been sampled as required by the permit. Monitoring wells MW-1, -2, -3, and –9 are associated with the TPA Landfill, MW-4, -5, -6, and –7 are associated with the Ash Landfill, and MW-22, -23, and –24 are associated with the Demolition Landfill. Attached to this letter report are the following figure and tables:

Figure 1: Potentiometric Surface Map: Shows the locations of the monitoring wells associated with the landfill monitoring program along with groundwater elevations at each well (measured in March 2015). Groundwater elevation contours showing groundwater flow direction are also included on this map. Groundwater flow direction is to the northeast toward the Cape Fear River.

Figure 2: Historical Concentrations of 1,4-Dioxane in Groundwater at MW-2 and MW-9: Shows the concentrations of 1,4-dioxane in monitoring wells MW-2 and MW-9 over the past ten years (2005-2015). These two wells are located downgradient of the TPA Landfill.

Table 1: Summary of Groundwater Analytical Results: Lists the constituents that were detected in groundwater from the landfill monitoring wells and their corresponding concentrations (March 2015). Concentrations of constituents that exceeded the North Carolina 2L (NC2L) standards are highlighted on this table.

Table 2: Target Analyte List: Lists the parameters that were analyzed in the laboratory along with corresponding CAS Numbers and Solid Waste Section (SWS) ID Numbers.

Table 3: Groundwater Field Parameters: Lists the water quality parameters (temperature, specific conductivity, pH, dissolved oxygen, reduction-oxidation potential, and turbidity) collected in the field (March 2015).

Table 4: Groundwater Elevation Data: Lists the depth to groundwater in each well along with the top of casing elevation and groundwater elevation.

Appendix A: Laboratory Analytical Report (2015)

QUALITY ASSURANCE/QUALITY CONTROL

As part of an in-house quality assurance/quality control (QA/QC) process, the laboratory analytical data were reviewed and, in some cases, qualified by placing a "J" or "B" flag next to the resulting concentration (see Table 1). A "J" flag means that the value is estimated (the analyte is present but the reported value may not be accurate or precise). A "B" flag means that the constituent was not detected substantially above the level reported in the laboratory or field blanks. The concentrations of chromium and mercury in groundwater were all "B" flagged due their presence in the laboratory method blank. Overall, the analytical data presented in this letter report is acceptable and considered usable.

The narrative of the laboratory analytical report contains a more detailed explanation of the results from the data review process (Appendix A).

LANDFILL ANALYTICAL RESULTS

TPA Landfill

At the TPA Landfill, 1,4-dioxane was detected in groundwater from downgradient monitoring well MW-9 at a concentration of 0.042 milligrams per liter (mg/L). This concentration is above the NC 2L standard of 0.003 mg/L for 1,4-dioxane (Table 1). 1,4-dioxane was also detected in groundwater from downgradient monitoring well MW-2 but at a concentration below the NC 2L standard. The concentration of total dissolved solids (TDS) was slightly above the NC2L standard at MW-9. As shown on Figure 2, the concentration of 1,4-dioxane in groundwater at MW-9 has decreased considerably over the past three years (from 0.119 mg/L in 2012 to 0.042 mg/L in 2015). The concentration of 1,4-dioxane in groundwater at MW-2 has also decreased since 2012. Concentrations of the remaining constituents detected in groundwater at the TPA landfill were below NC 2L standards.

Ash Landfill

At the Ash Landfill, there were no concentrations of constituents in groundwater that exceeded the NC2L standards (Table 1).

Demolition Landfill

At the Demolition Landfill, the concentration of TDS in groundwater was slightly above the NC2L standard at MW-23 (Table 1). 1,4-dioxane was detected in groundwater at MW-23 but the concentration is below the NC2L standard. These analytical results are consistent with previous sampling events. Concentrations of the remaining constituents detected in groundwater at the Demolition Landfill were below NC2L standards.

TABLES

Table 1. Summary of Groundwater Analytical Results (March 2015)
Cape Fear Landfill Annual Monitoring Report

	TPA LANDFILL				
Analyte	1006-MW-1	1006-MW-2	1006-MW-3	1006-MW-9	NC 2L
ACETONE	ND	ND	ND	0.008 J	6
1,4-DIOXANE	ND	0.002 J	ND	0.042	0.003
BARIUM	0.0073 J	0.01	0.0101	0.0254	0.7
CHLORIDE	3.6	30.1	7.1	12.4	250
CHROMIUM	0.0026 B	0.0025 B	0.0032 B	0.0029 B	0.01
MERCURY	0.000052 B	0.000052 B	0.000070 B	0.000070 B	0.001
SELENIUM	ND	ND	ND	0.0056 J	0.02
SULFATE	3.3 J	23.4	2.6 J	ND	250
TOTAL DISSOLVED SOLIDS	163	256	320	513	500

	ASH LANDFILL				
Analyte	1006-MW-4	1006-MW-5	1006-MW-6	1006-MW-7	NC 2L
BARIUM	0.0153	0.0194	0.0199	0.0447	0.7
CHLORIDE	4.8	3.3	28.8	7.6	250
CHROMIUM	0.0024 B	0.0033 B	0.0025 B	0.0013 B	0.01
MERCURY	0.000071 B	0.000071 B	0.000068 B	0.000072 B	0.001
SELENIUM	ND	0.0199 J	ND	ND	0.02
SULFATE	38.1	14.1	3.6 J	9.7	250
TOTAL DISSOLVED SOLIDS	109	197	389	30	500

	DEMOLITION LANDFILL			
Analyte	1006-MW-22	1006-MW-23	1006-MW-24	NC 2L
ACETONE	ND	0.007 J	ND	6
ACENAPHTHENE	ND	ND	0.0001 J	0.08
1,4-DIOXANE	ND	0.002 J	ND	0.003
PHENANTHRENE	ND	ND	0.0002 J	0.2
BARIUM	0.0051 J	0.23	0.212	0.7
CHLORIDE	3.6	121	60	250
CHROMIUM	0.0023 B	0.0033 B	0.0042 B	0.01
MERCURY	0.000073 B	0.000071 B	0.000072 B	0.001
SULFATE	8.9	ND	ND	250
TOTAL DISSOLVED SOLIDS	132	598	386	500

NOTES:

Blue shaded values are above NC 2L standards

J = Analyte present. Reported value may not be accurate or precise.

B = Not detected substantially above the level reported in the laboratory method blank.

All units are reported in in milligrams per liter (MG/L)

ND = Not Detected

NC 2L = NC Administrative Code 15A NCAC 2L.0200 - North Carolina Groundwater Classifications and Standards

Table 2: Target Analyte List - March 2015
Cape Fear Landfill Annual Groundwater Monitoring Report
DuPont Cape Fear Site - Leland, NC

TYPE	CASNO	ANALYTE	SWS ID #
VOC	630206	1,1,1,2-TETRACHLOROETHANE	190
VOC	71556	1,1,1-TRICHLOROETHANE	200
VOC	79345	1,1,2,2-TETRACHLOROETHANE	191
VOC	79005	1,1,2-TRICHLOROETHANE	202
VOC	75343	1,1-DICHLOROETHANE	75
VOC	75354	1,1-DICHLOROETHENE	77
VOC	96184	1,2,3-TRICHLOROPROPANE	206
VOC	96128	1,2-DIBROMO-3-CHLOROPROPANE	67
VOC	106934	1,2-DIBROMOETHANE	68
VOC	107062	1,2-DICHLOROETHANE	76
VOC	78875	1,2-DICHLOROPROPANE	82
VOC	123911	1,4-DIOXANE	422
VOC	591786	2-HEXANONE	124
VOC	67641	ACETONE	3
VOC	107131	ACRYLONITRILE	8
VOC	71432	BENZENE	16
VOC	74975	BROMOCHLOROMETHANE	28
VOC	75274	BROMODICHLOROMETHANE	29
VOC	75252	BROMOFORM	30
VOC	75150	CARBON DISULFIDE	35
VOC	56235	CARBON TETRACHLORIDE	36
VOC	108907	CHLOROBENZENE	39
VOC	75003	CHLOROETHANE	41
VOC	67663	CHLOROFORM	44
VOC	156592	CIS-1,2-DICHLOROETHENE	78
VOC	10061015	CIS-1,3-DICHLOROPROPENE	86
VOC	124481	DIBROMOCHLOROMETHANE	66
VOC	74953	DIBROMOMETHANE	139
VOC	100414	ETHYLBENZENE	110
VOC	107211	ETHYLENE GLYCOL	424
VOC	74884	IODOMETHANE	142
VOC	67561	METHANOL	NE
VOC	74839	METHYL BROMIDE	136
VOC	74873	METHYL CHLORIDE	140
VOC	78933	METHYL ETHYL KETONE	141
VOC	75092	METHYLENE CHLORIDE	137
VOC	108101	METHYL-ISO-BUTYL KETONE	147
VOC	100425	STYRENE	186
VOC	127184	TETRACHLOROETHENE	192
VOC	108883	TOLUENE	196
VOC	156605	TRANS-1,2-DICHLOROETHENE	79
VOC	10061026	TRANS-1,3-DICHLOROPROPENE	87
VOC	110576	TRANS-1,4-DICHLORO-2-BUTENE	73
VOC	79016	TRICHLOROETHENE	201
VOC	75694	TRICHLOROFLUOROMETHANE	203
VOC	108054	VINYL ACETATE	210
VOC	75014	VINYL CHLORIDE	211
VOC	1330207	XYLENES (TOTAL)	346
SVOC	120821	1,2,4-TRICHLOROBENZENE	199
SVOC	95501	1,2-DICHLOROBENZENE	69
SVOC	541731	1,3-DICHLOROBENZENE	70
SVOC	106467	1,4-DICHLOROBENZENE	71
SVOC	95954	2,4,5-TRICHLOROPHENOL	204
SVOC	88062	2,4,6-TRICHLOROPHENOL	205
SVOC	120832	2,4-DICHLOROPHENOL	80
SVOC	105679	2,4-DIMETHYLPHENOL	95
SVOC	51285	2,4-DINITROPHENOL	99
SVOC	121142	2,4-DINITROTOLUENE	100
SVOC	606202	2,6-DINITROTOLUENE	101
SVOC	91587	2-CHLORONAPHTHALENE	47
SVOC	95578	2-CHLOROPHENOL	48
SVOC	91576	2-METHYLNAPHTHALENE	145
SVOC	88755	2-NITROPHENOL	154
SVOC	EVS-0197	3 OR 4-METHYLPHENOL	344
SVOC	91941	3,3'-DICHLOROBENZIDINE	72
SVOC	534521	4,6-DINITRO-2-METHYLPHENOL	98

SWS ID# = Solid Waste Section ID Number
CASNO = Chemical Abstract Service Number

NE=Not Established
VOC = Volatile Organic Compound
SVOC = Semi-Volatile Organic Compound

Table 2: Target Analyte List - March 2015
Cape Fear Landfill Annual Groundwater Monitoring Report
DuPont Cape Fear Site - Leland, NC

TYPE	CASNO	ANALYTE	SWS ID #
SVOC	101553	4-BROMOPHENYL PHENYL ETHER	31
SVOC	59507	4-CHLORO-3-METHYLPHENOL	45
SVOC	106478	4-CHLOROANILINE	38
SVOC	7005723	4-CHLOROPHENYL PHENYL ETHER	49
SVOC	100027	4-NITROPHENOL	159
SVOC	83329	ACENAPHTHENE	1
SVOC	208968	ACENAPHTHYLENE	2
SVOC	120127	ANTHRACENE	12
SVOC	56553	BENZO(A)ANTHRACENE	17
SVOC	50328	BENZO(A)PYRENE	21
SVOC	205992	BENZO(B)FLUORANTHENE	18
SVOC	191242	BENZO(G,H,I)PERYLENE	20
SVOC	207089	BENZO(K)FLUORANTHENE	19
SVOC	111911	BIS(2-CHLOROETHOXY)METHANE	42
SVOC	111444	BIS(2-CHLOROETHYL) ETHER	43
SVOC	108601	BIS(2-CHLOROISOPROPYL)ETHER	NE
SVOC	117817	BIS(2-ETHYLHEXYL)PHTHALATE	111
SVOC	85687	BUTYL BENZYL PHTHALATE	32
SVOC	86748	CARBAZOLE	NE
SVOC	218019	CHRYSENE	52
SVOC	53703	DIBENZO(A,H)ANTHRACENE	64
SVOC	132649	DIBENZOFURAN	65
SVOC	84662	DIETHYL PHTHALATE	90
SVOC	131113	DIMETHYL PHTHALATE	96
SVOC	84742	DI-N-BUTYL PHTHALATE	33
SVOC	117840	DI-N-OCTYL PHTHALATE	168
SVOC	101848	DIPHENYL ETHER	423
SVOC	206440	FLUORANTHENE	115
SVOC	86737	FLUORENE	116
SVOC	118741	HEXACHLOROBENZENE	119
SVOC	87683	HEXACHLOROBUTADIENE	120
SVOC	77474	HEXACHLOROCYCLOPENTADIENE	121
SVOC	67721	HEXACHLOROETHANE	122
SVOC	193395	INDENO(1,2,3-CD)PYRENE	125
SVOC	78591	ISOPHORONE	128
SVOC	99092	M-NITROANILINE	153
SVOC	91203	NAPHTHALENE	148
SVOC	98953	NITROBENZENE	156
SVOC	621647	N-NITROSODI-N-PROPYLAMINE	164
SVOC	86306	N-NITROSODIPHENYLAMINE	163
SVOC	95487	O-CRESOL	56
SVOC	88744	O-NITROANILINE	154
SVOC	87865	PENTACHLOROPHENOL	173
SVOC	85018	PHENANTHRENE	175
SVOC	108952	PHENOL	177
SVOC	100016	P-NITROANILINE	155
SVOC	129000	PYRENE	181
METALS	7440360	ANTIMONY	13
METALS	7440382	ARSENIC	14
METALS	7440393	BARIUM	15
METALS	7440439	CADMIUM	34
METALS	7440473	CHROMIUM	51
METALS	7439921	LEAD	131
METALS	7439976	MERCURY	132
METALS	7782492	SELENIUM	183
METALS	7440224	SILVER	184
MISC	16887006	CHLORIDE	455
MISC	16984488	FLUORIDE	312
MISC	14808798	SULFATE	315
MISC	C-010	TOTAL DISSOLVED SOLIDS	311
MISC	92524	1,1 -BIPHENYL	421
MISC	111466	DIETHYLENE GLYCOL	NE
MISC	120616	DIMETHYLTEREPHTHALATE	NE
MISC	100210	TEREPHTHALIC ACID	NE
MISC	112276	TRIETHYLENE GLYCOL	NE

SWS ID# = Solid Waste Section ID Number
CASNO = Chemical Abstract Service Number

NE=Not Established
VOC = Volatile Organic Compound
SVOC = Semi-Volatile Organic Compound

Table 3: Water Quality Parameters
Cape Fear Landfill Annual Groundwater Monitoring Report
DuPont Cape Fear Site - Leland, NC

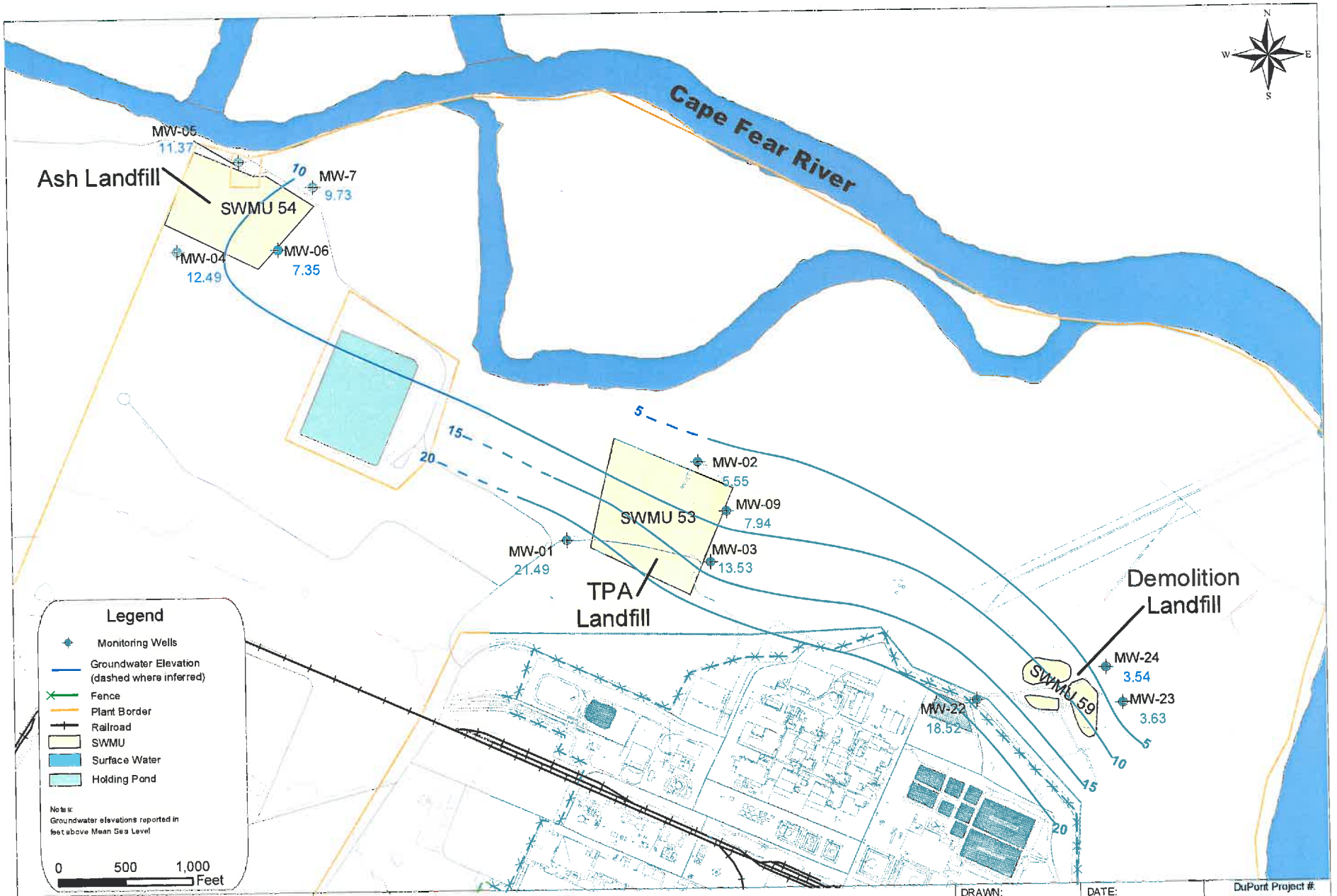
SAMPLE (WELL ID)	DATE SAMPLED	TIME SAMPLED	WATER LEVEL (ft)	pH	TEMP (C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	REDOX (mv)	TURBIDITY (ntu)	COLOR	ODOR
MW-1	3/24/2015	1140	4.20	6.97	13.03	0.233	1.06	114.6	1.88	Clear	None
MW-2	3/24/2015	955	7.40	6.44	14.15	0.241	2.92	128.5	11.20	Clear	Slight
MW-3	3/24/2015	1700	2.72	7.04	14.68	0.423	0.52	-72.0	2.13	Clear	None
MW-4	3/25/2015	1015	5.03	5.78	13.57	0.139	2.40	51.7	4.09	Clear	None
MW-5	3/25/2015	1100	12.15	6.25	15.83	0.295	3.62	93.1	0.74	Clear	None
MW-6	3/25/2015	905	1.40	6.32	14.44	0.550	0.78	-61.6	10.20	Clear	None
MW-7	3/25/2015	1210	10.49	4.46	17.65	0.064	1.32	137.4	2.50	Clear	None
MW-9	3/24/2015	1815	4.67	6.42	14.48	0.791	1.22	-75.5	2.74	Clear	None
MW-22	3/25/2015	1705	5.62	6.83	16.42	0.199	4.46	74.2	0.57	Clear	None
MW-23	3/25/2015	1500	3.02	5.89	17.98	0.762	2.78	13.4	9.78	Clear	None
MW-24	3/25/2015	1600	3.91	5.22	16.84	0.294	3.00	40.0	3.24	Clear	None

ft=feet; C=degrees celsius; mS/cm=milliSiemens per centimeter; mg/l=milligrams per liter; mv=millivolts; ntu=national turbidity unit.

Table 4: Groundwater Elevation Data
Cape Fear Landfill Annual Groundwater Monitoring Report
DuPont Cape Fear Site - Leland, NC

Well ID	TOC Elevation	Depth to Water (March 2015)	Groundwater Elevation
MW-1	25.69	4.20	21.49
MW-2	12.95	7.40	5.55
MW-3	16.25	2.72	13.53
MW-4	17.52	5.03	12.49
MW-5	23.52	12.15	11.37
MW-6	8.75	1.40	7.35
MW-7	20.22	10.49	9.73
MW-9	12.61	4.67	7.94
MW-22	24.14	5.62	18.52
MW-23	6.65	3.02	3.63
MW-24	7.45	3.91	3.54

FIGURES



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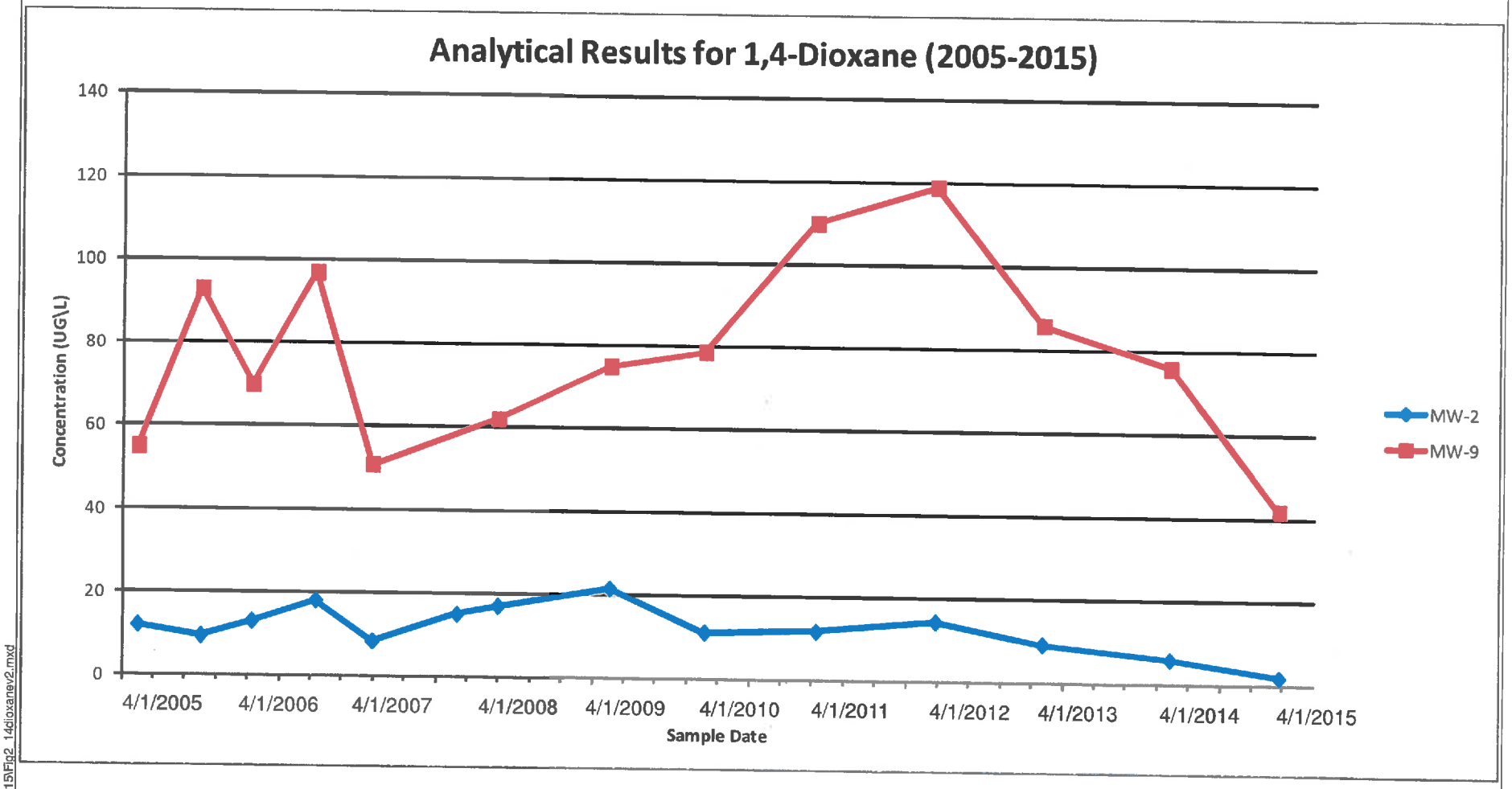
4701 Hedgemore Dr.
Charlotte, NC 28209

Potentiometric Surface Map (March, 2015)
Cape Fear Landfill Annual Groundwater Monitoring Report
DuPont Cape Fear Site – Leland, NC

DRAWN: C. Oneal	DATE: 4/22/2015	DuPont Project #: 504182
REVISION:	FIGURE NO.: 1	Parsons Project #: 449350.05020
FILE NAME: E:\GIS\CapeFear\Gis\Project_figures\2015\CF_GW_5_2015.mxd		



UG/L = micrograms per liter

PARSONS

PE&I

4701 Hedgemore Dr.
Charlotte, NC 28209

Figure 2: Historical Concentrations of 1,4-Dioxane in Groundwater at MW-2 and MW-9 (2005-2015).
Cape Fear Landfill Annual Groundwater Monitoring Report
DuPont Cape Fear Site – Leland, NC

Drawn:	DuPont Project No.:
Date: 6/17/2015	Parsons Project No. 449350.05050
Revision:	Figure No.: 2
File Name: Fig2_14dioxanev2	

E:\GIS\CapeFear\Gis\Project_figures\2015\Fig2_14dioxanev2.mxd

APPENDIX A: LABORATORY ANALYTICAL REPORT (2015)

ADQM DATA REVIEW
NARRATIVE

Site CAP: CAPE FEAR

Project LANDFILL ANNUAL 15

Project Reviewer Wanda M. Davis

Sampling Date March 24-26, 2015

Analytical Protocol

Laboratory	Analytical Method	Parameter(s)
Eurofins Lancaster Laboratories	SW846 8260B	Volatiles
Eurofins Lancaster Laboratories	SW846 6010C/7470A	Metals
Test America Savannah	SW846 8270D	Dimethyl Terephthalate
Test America North Canton	NC-GC-036	Terephthalic Acid
Eurofins Lancaster Laboratories	EPA 300.0	Chloride/Fluoride/Sulfate
Eurofins Lancaster Laboratories	SW846 8270D	Semivolatiles
Eurofins Lancaster Laboratories	SM 2540 C-1997	Total Dissolved Solids
Eurofins Lancaster Laboratories	SW846 8015C	Glycols/Methanol

Sample Receipt
The following items are noted for this data set:

- Eleven groundwater samples, one matrix spike, one matrix spike duplicate, one duplicate groundwater sample, and one equipment blank, presented in this report, were received at Test America Canton Laboratory at a temperature 2.9°C on March 27, 2015.
- Test America Denver subcontracted the Terephthalic Acid analyses to Test America Canton.
- Eleven groundwater samples, one matrix spike, one matrix spike duplicate, one duplicate groundwater sample, and one equipment blank, presented in this report, were received at the Test America Savannah Laboratory at temperatures of 1.6°C, 3.2°C, and 1.0°C on March 27, 2015.
- Test America Denver subcontracted the Dimethyl Terephthalate analyses to Test America Savannah.
- Eleven groundwater samples, one matrix spike, one matrix spike duplicate, one duplicate groundwater sample, one trip blank and one equipment blank, presented in this report, were received at the Eurofins Lancaster Laboratories at temperatures of 0.9°C, 0.3°C, 0.4°C, and 1.2°C on March 27, 2015.
- All samples were received in satisfactory condition. Some of the samples were received outside of the acceptable temperature range of 4 ±2°C; however, the ADQM chemist doesn't believe the data to be impacted since the samples were cold but not frozen upon receipt.

Data Review

Aromatic Acids

Samples ANLF15-MW-1 (280-67043-1), ANLF15-MW-2 (280-67043-2), ANLF15-MW-2-D (280-67043-3), ANLF15-MW-3 (280-67043-4), ANLF15-MW-9 (280-67043-5), ANLF15-MW-4 (280-67043-6), ANLF15-MW-5 (280-67043-7), ANLF15-MW-6 (280-67043-8), ANLF15-MW-7 (280-67043-9), ANLF15-MW-22 (280-67043-10), ANLF15-MW-23 (280-67043-11), ANLF15-MW-24 (280-67043-12) and EB-03262015 (280-67043-13) were analyzed for Aromatic Acids in accordance with Aromatic Acids. The samples were analyzed on 04/14/2015 and 04/15/2015. Please note the 1.11 dilution factor listed for each sample is a part of the method; therefore, reporting limits and method detection limits were not affected. The MS/MSD associated with analytical batch 240-176402680-279729 was performed on sample ANLF15-MW-2 (280-67043-2). The MS/MSD exhibited spike compound recoveries and RPD data outside the QC control limits for Terephthalic acid. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

Dimethyl Terephthalate

Samples ANLF15-MW-1 (280-67043-1), ANLF15-MW-2 (280-67043-2), ANLF15-MW-2-D (280-67043-3), ANLF15-MW-3 (280-67043-4), ANLF15-MW-9 (280-67043-5), ANLF15-MW-4 (280-67043-6), ANLF15-MW-5 (280-67043-7), ANLF15-MW-6 (280-67043-8), ANLF15-MW-7 (280-67043-9), ANLF15-MW-22 (280-67043-10), ANLF15-MW-23 (280-67043-11), ANLF15-MW-24 (280-67043-12) and EB-03262015 (280-67043-13) were analyzed for Dimethyl Terephthalate in accordance with EPA SW-846 Method 8270D. The samples were prepared on 03/29/2015 and analyzed on 04/13/2015.

Semivolatiles

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.

Bis(2-chloroisopropyl) ether and 2,2'-Oxybis(1-chloropropane) cannot be separated chromatographically. The reported result represents the combined total of both compounds.

Summary

One hundred percent of the electronic data submitted for this project was reviewed via the automated DuPont Data Review (DDR) process. Overall the data is acceptable for use without qualification as reported by Test America North Canton, Test America Savannah and Eurofins Lancaster Laboratories, with the exception of the 6010C and 7470A, Metals results Flagged "B" due to method blank contamination . Three non-detect results were flagged "UJ" and one positive result was flagged "J", estimated, in sample id ANLF15-MW-2 due to low RPR, Relative Percent Recovery, within the MS/MSD. Results detected between the method detection limit (MDL) and practical quantitation limit (PQL) were qualified "J", estimated. The DuPont Data Review (DDR) Narrative Report, which follows this cover letter, lists the samples that were qualified, the specific reasons for qualification, and potential bias in reported results.

DuPont Data Review (DDR)

The DDR is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software (Locus EIM™ database Data Validation Module (DVM)) and manual reviewer evaluations. The data is evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike(MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample(LCS)/control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- RPD between field duplicate sample pairs
- RPD between laboratory replicates for inorganic analyses
- Difference / percent difference between total and dissolved sample pairs.

The DDR applies the following data evaluation qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

Please refer to the laboratory report for a description of the lab qualifiers.

ADQM DATA REVIEW
NARRATIVE

Site CAP: CAPE FEAR

Project LANDFILL ANNUAL 15

Project Reviewer Wanda M. Davis

Sampling Date March 24-26, 2015

Analytical Protocol

Laboratory	Analytical Method	Parameter(s)
Eurofins Lancaster Laboratories	SW846 8260B	Volatiles
Eurofins Lancaster Laboratories	SW846 6010C/7470A	Metals
Test America Savannah	SW846 8270D	Dimethyl Terephthalate
Test America North Canton	NC-GC-036	Terephthalic Acid
Eurofins Lancaster Laboratories	EPA 300.0	Chloride/Fluoride/Sulfate
Eurofins Lancaster Laboratories	SW846 8270D	Semivolatiles
Eurofins Lancaster Laboratories	SM 2540 C-1997	Total Dissolved Solids
Eurofins Lancaster Laboratories	SW846 8015C	Glycols/Methanol

Sample Receipt
The following items are noted for this data set:

- Eleven groundwater samples, one matrix spike, one matrix spike duplicate, one duplicate groundwater sample, and one equipment blank, presented in this report, were received at Test America Canton Laboratory at a temperature 2.9°C on March 27, 2015.
- Test America Denver subcontracted the Terephthalic Acid analyses to Test America Canton.
- Eleven groundwater samples, one matrix spike, one matrix spike duplicate, one duplicate groundwater sample, and one equipment blank, presented in this report, were received at the Test America Savannah Laboratory at temperatures of 1.6°C, 3.2°C, and 1.0°C on March 27, 2015.
- Test America Denver subcontracted the Dimethyl Terephthalate analyses to Test America Savannah.
- Eleven groundwater samples, one matrix spike, one matrix spike duplicate, one duplicate groundwater sample, one trip blank and one equipment blank, presented in this report, were received at the Eurofins Lancaster Laboratories at temperatures of 0.9°C, 0.3°C, 0.4°C, and 1.2°C on March 27, 2015.
- All samples were received in satisfactory condition. Some of the samples were received outside of the acceptable temperature range of 4 ±2°C; however, the ADQM chemist doesn't believe the data to be impacted since the samples were cold but not frozen upon receipt.

Data Review

Aromatic Acids

Samples ANLF15-MW-1 (280-67043-1), ANLF15-MW-2 (280-67043-2), ANLF15-MW-2-D (280-67043-3), ANLF15-MW-3 (280-67043-4), ANLF15-MW-9 (280-67043-5), ANLF15-MW-4 (280-67043-6), ANLF15-MW-5 (280-67043-7), ANLF15-MW-6 (280-67043-8), ANLF15-MW-7 (280-67043-9), ANLF15-MW-22 (280-67043-10), ANLF15-MW-23 (280-67043-11), ANLF15-MW-24 (280-67043-12) and EB-03262015 (280-67043-13) were analyzed for Aromatic Acids in accordance with Aromatic Acids. The samples were analyzed on 04/14/2015 and 04/15/2015. Please note the 1.11 dilution factor listed for each sample is a part of the method; therefore, reporting limits and method detection limits were not affected. The MS/MSD associated with analytical batch 240-176402680-279729 was performed on sample ANLF15-MW-2 (280-67043-2). The MS/MSD exhibited spike compound recoveries and RPD data outside the QC control limits for Terephthalic acid. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

Dimethyl Terephthalate

Samples ANLF15-MW-1 (280-67043-1), ANLF15-MW-2 (280-67043-2), ANLF15-MW-2-D (280-67043-3), ANLF15-MW-3 (280-67043-4), ANLF15-MW-9 (280-67043-5), ANLF15-MW-4 (280-67043-6), ANLF15-MW-5 (280-67043-7), ANLF15-MW-6 (280-67043-8), ANLF15-MW-7 (280-67043-9), ANLF15-MW-22 (280-67043-10), ANLF15-MW-23 (280-67043-11), ANLF15-MW-24 (280-67043-12) and EB-03262015 (280-67043-13) were analyzed for Dimethyl Terephthalate in accordance with EPA SW-846 Method 8270D. The samples were prepared on 03/29/2015 and analyzed on 04/13/2015.

Semivolatiles

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.

Bis(2-chloroisopropyl) ether and 2,2'-Oxybis(1-chloropropane) cannot be separated chromatographically. The reported result represents the combined total of both compounds.

Summary

One hundred percent of the electronic data submitted for this project was reviewed via the automated DuPont Data Review (DDR) process. Overall the data is acceptable for use without qualification as reported by Test America North Canton, Test America Savannah and Eurofins Lancaster Laboratories, with the exception of the 6010C and 7470A, Metals results Flagged "B" due to method blank contamination . Three non-detect results were flagged "UJ" and one positive result was flagged "J", estimated, in sample id ANLF15-MW-2 due to low RPR, Relative Percent Recovery, within the MS/MSD. Results detected between the method detection limit (MDL) and practical quantitation limit (PQL) were qualified "J", estimated. The DuPont Data Review (DDR) Narrative Report, which follows this cover letter, lists the samples that were qualified, the specific reasons for qualification, and potential bias in reported results.

DuPont Data Review (DDR)

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- RPD between field duplicate sample pairs
- RPD between laboratory replicates for inorganic analyses
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Please refer to the laboratory report for a description of the lab qualifiers.

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Analysis Report

Sample Description: ANLF15-MW-1 Groundwater
LANDFILL ANNUAL 15

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 11:40

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CPF01

LL Sample # WW 7824856
LL Group # 1548954
Account # 06643

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	**ug/l**	
10335	Acetone	67-64-1	6	U	6	20	1
10335	Acrylonitrile	107-13-1	4	U	4	20	1
10335	Benzene	71-43-2	0.5	U	0.5	1	1
10335	Bromochloromethane	74-97-5	1	U	1	5	1
10335	Bromodichloromethane	75-27-4	0.5	U	0.5	1	1
10335	Bromoform	75-25-2	0.5	U	0.5	4	1
10335	Bromomethane	74-83-9	0.5	U	0.5	1	1
10335	2-Butanone	78-93-3	3	U	3	10	1
10335	Carbon Disulfide	75-15-0	1	U	1	5	1
10335	Carbon Tetrachloride	56-23-5	0.5	U	0.5	1	1
10335	Chlorobenzene	108-90-7	0.5	U	0.5	1	1
10335	Chloroethane	75-00-3	0.5	U	0.5	1	1
10335	Chloroform	67-66-3	0.5	U	0.5	1	1
10335	Chloromethane	74-87-3	0.5	U	0.5	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10335	Dibromochloromethane	124-48-1	0.5	U	0.5	1	1
10335	1,2-Dibromoethane	106-93-4	0.5	U	0.5	1	1
10335	Dibromomethane	74-95-3	0.5	U	0.5	1	1
10335	trans-1,4-Dichloro-2-butene	110-57-6	15	U	15	50	1
10335	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10335	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10335	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10335	1,1-Dichloroethane	75-34-3	0.5	U	0.5	1	1
10335	1,2-Dichloroethane	107-06-2	0.5	U	0.5	1	1
10335	1,1-Dichloroethene	75-35-4	0.5	U	0.5	1	1
10335	cis-1,2-Dichloroethene	156-59-2	0.5	U	0.5	1	1
10335	trans-1,2-Dichloroethene	156-60-5	0.5	U	0.5	1	1
10335	1,2-Dichloropropane	78-87-5	0.5	U	0.5	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	0.5	U	0.5	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	0.5	U	0.5	1	1
10335	Ethylbenzene	100-41-4	0.5	U	0.5	1	1
10335	2-Hexanone	591-78-6	3	U	3	10	1
10335	Methyl Iodide	74-88-4	0.5	U	0.5	1	1
10335	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1
10335	Methylene Chloride	75-09-2	2	U	2	4	1
10335	Styrene	100-42-5	1	U	1	5	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	0.5	U	0.5	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	0.5	U	0.5	1	1
10335	Tetrachloroethene	127-18-4	0.5	U	0.5	1	1
10335	Toluene	108-88-3	0.5	U	0.5	1	1
10335	1,1,1-Trichloroethane	71-55-6	0.5	U	0.5	1	1
10335	1,1,2-Trichloroethane	79-00-5	0.5	U	0.5	1	1
10335	Trichloroethene	79-01-6	0.5	U	0.5	1	1
10335	Trichlorofluoromethane	75-69-4	0.5	U	0.5	1	1
10335	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10335	Vinyl Acetate	108-05-4	2	U	2	10	1
10335	Vinyl Chloride	75-01-4	0.5	U	0.5	1	1
10335	Xylene (Total)	1330-20-7	0.5	U	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**		**ug/l**	**ug/l**	
13624	Acenaphthene	83-32-9	0.1	U	0.1	0.5	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-1 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824856
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 11:40

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF01

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**		**ug/l**	**ug/l**	
13624	Acenaphthylene	208-96-8	0.1	U	0.1	0.5	1
13624	Anthracene	120-12-7	0.1	U	0.1	0.5	1
13624	Benzo(a)anthracene	56-55-3	0.1	U	0.1	0.5	1
13624	Benzo(a)pyrene	50-32-8	0.1	U	0.1	0.5	1
13624	Benzo(b)fluoranthene	205-99-2	0.1	U	0.1	0.5	1
13624	Benzo(g,h,i)perylene	191-24-2	0.1	U	0.1	0.5	1
13624	Benzo(k)fluoranthene	207-08-9	0.1	U	0.1	0.5	1
13624	1,1'-Biphenyl	92-52-4	0.5	U	0.5	1	1
13624	4-Bromophenyl-phenylether	101-55-3	0.5	U	0.5	1	1
13624	Butylbenzylphthalate	85-68-7	2	U	2	5	1
13624	Di-n-butylphthalate	84-74-2	2	U	2	5	1
13624	Carbazole	86-74-8	0.5	U	0.5	1	1
13624	4-Chloro-3-methylphenol	59-50-7	0.5	U	0.5	1	1
13624	4-Chloroaniline	106-47-8	0.5	U	0.5	1	1
13624	bis(2-Chloroethoxy)methane	111-91-1	0.5	U	0.5	1	1
13624	bis(2-Chloroethyl)ether	111-44-4	0.5	U	0.5	1	1
13624	2-Chloronaphthalene	91-58-7	0.4	U	0.4	1	1
13624	2-Chlorophenol	95-57-8	0.5	U	0.5	1	1
13624	4-Chlorophenyl-phenylether	7005-72-3	0.5	U	0.5	1	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5	U	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
13624	Chrysene	218-01-9	0.1	U	0.1	0.5	1
13624	Dibenz(a,h)anthracene	53-70-3	0.1	U	0.1	0.5	1
13624	Dibenzofuran	132-64-9	0.5	U	0.5	1	1
13624	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5	1
13624	2,4-Dichlorophenol	120-83-2	0.5	U	0.5	1	1
13624	Diethylphthalate	84-66-2	2	U	2	5	1
13624	2,4-Dimethylphenol	105-67-9	0.5	U	0.5	1	1
13624	Dimethylphthalate	131-11-3	2	U	2	5	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16	1
13624	2,4-Dinitrophenol	51-28-5	11	U	11	32	1
13624	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1
13624	2,6-Dinitrotoluene	606-20-2	0.5	U	0.5	1	1
13624	1,4-Dioxane	123-91-1	1	U	1	5	1
13624	Diphenyl ether	101-84-8	0.5	U	0.5	1	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	2	U	2	5	1
13624	Fluoranthene	206-44-0	0.1	U	0.1	0.5	1
13624	Fluorene	86-73-7	0.1	U	0.1	0.5	1
13624	Hexachlorobenzene	118-74-1	0.1	U	0.1	0.5	1
13624	Hexachlorobutadiene	87-68-3	0.5	U	0.5	1	1
13624	Hexachlorocyclopentadiene	77-47-4	5	U	5	16	1
13624	Hexachloroethane	67-72-1	1	U	1	5	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	0.1	U	0.1	0.5	1
13624	Isophorone	78-59-1	0.5	U	0.5	1	1
13624	2-Methylnaphthalene	91-57-6	0.1	U	0.1	0.5	1
13624	2-Methylphenol	95-48-7	0.5	U	0.5	1	1
13624	4-Methylphenol	106-44-5	0.5	U	0.5	1	1

*=This limit was used in the evaluation of the final result

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

April 08, 2015

Project: CAP - LANDFILL ANNUAL

Submittal Date: 03/27/2015
Group Number: 1548954
PO Number: LBIO-67047
State of Sample Origin: NC

Client Sample Description	Lancaster Labs (LL) #
ANLF15-MW-1 Groundwater	7824856
ANLF15-MW-2 Groundwater	7824857
ANLF15-MW-2 MS Groundwater	7824858
ANLF15-MW-2 MSD Groundwater	7824859
ANLF15-MW-2 Dupl Groundwater	7824860
ANLF15-MW-2-D Groundwater	7824861
ANLF15-MW-3 Groundwater	7824862
ANLF15-MW-9 Groundwater	7824863
ANLF15-MW-4 Groundwater	7824864
ANLF15-MW-5 Groundwater	7824865
ANLF15-MW-6 Groundwater	7824866
ANLF15-MW-7 Groundwater	7824867
ANLF15-MW-22 Groundwater	7824868
ANLF15-MW-23 Groundwater	7824869
ANLF15-MW-24 Groundwater	7824870
TB-03262015 Blank Water	7824871
EB-03262015 Blank Water	7824872

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

Respectfully Submitted,

Nancy Jean Bornholm

Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

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Lancaster Laboratories Environmental
2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Analysis Report

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LANDFILL ANNUAL 15

LL Sample # WW 7824856
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 11:40

Submitted: 03/27/2015 09:20
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CPF01

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**		**ug/l**	**ug/l**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
13624	Naphthalene	91-20-3	0.1	U	0.1	0.5	1
13624	2-Nitroaniline	88-74-4	0.5	U	0.5	1	1
13624	3-Nitroaniline	99-09-2	0.5	U	0.5	1	1
13624	4-Nitroaniline	100-01-6	0.5	U	0.5	1	1
13624	Nitrobenzene	98-95-3	0.5	U	0.5	1	1
13624	2-Nitrophenol	88-75-5	0.5	U	0.5	1	1
13624	4-Nitrophenol	100-02-7	11	U	11	32	1
13624	N-Nitroso-di-n-propylamine	621-64-7	0.5	U	0.5	1	1
13624	N-Nitrosodiphenylamine	86-30-6	0.5	U	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
13624	Di-n-octylphthalate	117-84-0	2	U	2	5	1
13624	Pentachlorophenol	87-86-5	1	U	1	5	1
13624	Phenanthrene	85-01-8	0.1	U	0.1	0.5	1
13624	Phenol	108-95-2	0.5	U	0.5	1	1
13624	Pyrene	129-00-0	0.1	U	0.1	0.5	1
13624	1,2,4-Trichlorobenzene	120-82-1	0.5	U	0.5	1	1
13624	2,4,5-Trichlorophenol	95-95-4	0.5	U	0.5	1	1
13624	2,4,6-Trichlorophenol	88-06-2	0.5	U	0.5	1	1
GC Miscellaneous	**SW-846 8015C Feb 2007 Rev 3**		**mg/l**		**mg/l**	**mg/l**	
12926	Diethylene glycol	111-46-6	8.0	U	8.0	10	1
12926	Ethylene glycol	107-21-1	8.0	U	8.0	10	1
12926	Triethylene glycol	112-27-6	8.0	U	8.0	10	1
GC Miscellaneous	**SW-846 8015C Feb 2007 Rev 3**		**ug/l**		**ug/l**	**ug/l**	
10603	Methanol	67-56-1	200	U	200	1,000	1
Metals	**SW-846 6010C**		**mg/l**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	0.0051	U	0.0051	0.0400	1
07035	Arsenic	7440-38-2	0.0072	U	0.0072	0.0400	1
07046	Barium	7440-39-3	0.0073	J	0.00033	0.0100	1
07049	Cadmium	7440-43-9	0.00033	U	0.00033	0.0100	1
07051	Chromium	7440-47-3	0.0026	J	0.0013	0.0300	1
07055	Lead	7439-92-1	0.0047	U	0.0047	0.0300	1
07036	Selenium	7782-49-2	0.0048	U	0.0048	0.0400	1
07066	Silver	7440-22-4	0.0018	U	0.0018	0.0100	1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000052	J	0.000050	0.00020	1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	
00224	Chloride	16887-00-6	3.6		1.0	2.0	5

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-1 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824856
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 11:40

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF01

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/l		mg/l	mg/l	
01504	Fluoride	16984-48-8	0.25	U	0.25	0.50	5
00228	Sulfate	14808-79-8	3.3	J	1.5	5.0	5
	SM 2540 C-1997		mg/l		mg/l	mg/l	
00212	Total Dissolved Solids	n.a.	163		9.7	30.0	1

General Sample Comments

State of North Carolina Lab Certification No. 521

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	CAP Landfill Volatiles	SW-846 8260B	1	Y150971AA	04/07/2015 03:37	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y150971AA	04/07/2015 03:37	Stephanie A Selis	1
13624	10/92 SOW SV List +add'l cmpds	SW-846 8270D	1	15089WAE026	03/31/2015 11:17	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15089WAE026	03/30/2015 19:30	Nicholas W Shroyer	1
12926	3 Gylcol Compounds	SW-846 8015C Feb 2007 Rev 3	1	150910014A	04/01/2015 21:02	Tyler O Griffin	1
10603	Methanol	SW-846 8015C Feb 2007 Rev 3	1	150910035A	04/02/2015 21:39	Tyler O Griffin	1
07044	Antimony	SW-846 6010C	1	150900636002	04/01/2015 07:48	Joanne M Gates	1
07035	Arsenic	SW-846 6010C	1	150900636002	04/01/2015 07:48	Joanne M Gates	1
07046	Barium	SW-846 6010C	1	150900636002	04/01/2015 07:48	Joanne M Gates	1
07049	Cadmium	SW-846 6010C	1	150900636002	04/01/2015 07:48	Joanne M Gates	1
07051	Chromium	SW-846 6010C	1	150900636002	04/01/2015 07:48	Joanne M Gates	1
07055	Lead	SW-846 6010C	1	150900636002	04/01/2015 07:48	Joanne M Gates	1
07036	Selenium	SW-846 6010C	1	150900636002	04/01/2015 07:48	Joanne M Gates	1
07066	Silver	SW-846 6010C	1	150900636002	04/01/2015 07:48	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	150905713004	04/01/2015 08:16	Damary Valentin	1
10636	ICP-WW/TL, 3010A (tot) - U4	SW-846 3010A	1	150900636002	03/31/2015 21:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	150905713004	04/01/2015 01:00	Annamaria Kuhns	1
00224	Chloride	EPA 300.0	1	15092667131A	04/02/2015 15:19	Drew M Gerhart	5
01504	Fluoride	EPA 300.0	1	15092667131A	04/02/2015 15:19	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15092667131A	04/02/2015 15:19	Drew M Gerhart	5
00212	Total Dissolved Solids	SM 2540 C-1997	1	15089021202A	03/30/2015 09:11	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-2 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824857
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 09:55

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF02

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260B		ug/l		ug/l	ug/l	
10335	Acetone	67-64-1	6	U	6	20	1
10335	Acrylonitrile	107-13-1	4	U	4	20	1
10335	Benzene	71-43-2	0.5	U	0.5	1	1
10335	Bromochloromethane	74-97-5	1	U	1	5	1
10335	Bromodichloromethane	75-27-4	0.5	U	0.5	1	1
10335	Bromoform	75-25-2	0.5	U	0.5	4	1
10335	Bromomethane	74-83-9	0.5	U	0.5	1	1
10335	2-Butanone	78-93-3	3	U	3	10	1
10335	Carbon Disulfide	75-15-0	1	U	1	5	1
10335	Carbon Tetrachloride	56-23-5	0.5	U	0.5	1	1
10335	Chlorobenzene	108-90-7	0.5	U	0.5	1	1
10335	Chloroethane	75-00-3	0.5	U	0.5	1	1
10335	Chloroform	67-66-3	0.5	U	0.5	1	1
10335	Chloromethane	74-87-3	0.5	U	0.5	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10335	Dibromochloromethane	124-48-1	0.5	U	0.5	1	1
10335	1,2-Dibromoethane	106-93-4	0.5	U	0.5	1	1
10335	Dibromomethane	74-95-3	0.5	U	0.5	1	1
10335	trans-1,4-Dichloro-2-butene	110-57-6	15	U	15	50	1
10335	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10335	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10335	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10335	1,1-Dichloroethane	75-34-3	0.5	U	0.5	1	1
10335	1,2-Dichloroethane	107-06-2	0.5	U	0.5	1	1
10335	1,1-Dichloroethene	75-35-4	0.5	U	0.5	1	1
10335	cis-1,2-Dichloroethene	156-59-2	0.5	U	0.5	1	1
10335	trans-1,2-Dichloroethene	156-60-5	0.5	U	0.5	1	1
10335	1,2-Dichloropropane	78-87-5	0.5	U	0.5	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	0.5	U	0.5	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	0.5	U	0.5	1	1
10335	Ethylbenzene	100-41-4	0.5	U	0.5	1	1
10335	2-Hexanone	591-78-6	3	U	3	10	1
10335	Methyl Iodide	74-88-4	0.5	U	0.5	1	1
10335	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1
10335	Methylene Chloride	75-09-2	2	U	2	4	1
10335	Styrene	100-42-5	1	U	1	5	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	0.5	U	0.5	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	0.5	U	0.5	1	1
10335	Tetrachloroethene	127-18-4	0.5	U	0.5	1	1
10335	Toluene	108-88-3	0.5	U	0.5	1	1
10335	1,1,1-Trichloroethane	71-55-6	0.5	U	0.5	1	1
10335	1,1,2-Trichloroethane	79-00-5	0.5	U	0.5	1	1
10335	Trichloroethene	79-01-6	0.5	U	0.5	1	1
10335	Trichlorofluoromethane	75-69-4	0.5	U	0.5	1	1
10335	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10335	Vinyl Acetate	108-05-4	2	U	2	10	1
10335	Vinyl Chloride	75-01-4	0.5	U	0.5	1	1
10335	Xylene (Total)	1330-20-7	0.5	U	0.5	1	1
GC/MS Semivolatiles	SW-846 8270D		ug/l		ug/l	ug/l	
13624	Acenaphthene	83-32-9	0.1	U	0.1	0.5	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-2 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824857
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 09:55

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF02

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	SW-846 8270D		ug/l		ug/l	ug/l	
13624	Acenaphthylene	208-96-8	0.1	U	0.1	0.5	1
13624	Anthracene	120-12-7	0.1	U	0.1	0.5	1
13624	Benzo(a)anthracene	56-55-3	0.1	U	0.1	0.5	1
13624	Benzo(a)pyrene	50-32-8	0.1	U	0.1	0.5	1
13624	Benzo(b)fluoranthene	205-99-2	0.1	U	0.1	0.5	1
13624	Benzo(g,h,i)perylene	191-24-2	0.1	U	0.1	0.5	1
13624	Benzo(k)fluoranthene	207-08-9	0.1	U	0.1	0.5	1
13624	1,1'-Biphenyl	92-52-4	0.5	U	0.5	1	1
13624	4-Bromophenyl-phenylether	101-55-3	0.5	U	0.5	1	1
13624	Butylbenzylphthalate	85-68-7	2	U	2	5	1
13624	Di-n-butylphthalate	84-74-2	2	U	2	5	1
13624	Carbazole	86-74-8	0.5	U	0.5	1	1
13624	4-Chloro-3-methylphenol	59-50-7	0.5	U	0.5	1	1
13624	4-Chloroaniline	106-47-8	0.5	U	0.5	1	1
13624	bis(2-Chloroethoxy)methane	111-91-1	0.5	U	0.5	1	1
13624	bis(2-Chloroethyl)ether	111-44-4	0.5	U	0.5	1	1
13624	2-Chloronaphthalene	91-58-7	0.4	U	0.4	1	1
13624	2-Chlorophenol	95-57-8	0.5	U	0.5	1	1
13624	4-Chlorophenyl-phenylether	7005-72-3	0.5	U	0.5	1	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5	U	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
13624	Chrysene	218-01-9	0.1	U	0.1	0.5	1
13624	Dibenz(a,h)anthracene	53-70-3	0.1	U	0.1	0.5	1
13624	Dibenzofuran	132-64-9	0.5	U	0.5	1	1
13624	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5	1
13624	2,4-Dichlorophenol	120-83-2	0.5	U	0.5	1	1
13624	Diethylphthalate	84-66-2	2	U	2	5	1
13624	2,4-Dimethylphenol	105-67-9	0.5	U	0.5	1	1
13624	Dimethylphthalate	131-11-3	2	U	2	5	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	15	1
13624	2,4-Dinitrophenol	51-28-5	10	U	10	30	1
13624	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1
13624	2,6-Dinitrotoluene	606-20-2	0.5	U	0.5	1	1
13624	1,4-Dioxane	123-91-1	2	J	1	5	1
13624	Diphenyl ether	101-84-8	0.5	U	0.5	1	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	2	U	2	5	1
13624	Fluoranthene	206-44-0	0.1	U	0.1	0.5	1
13624	Fluorene	86-73-7	0.1	U	0.1	0.5	1
13624	Hexachlorobenzene	118-74-1	0.1	U	0.1	0.5	1
13624	Hexachlorobutadiene	87-68-3	0.5	U	0.5	1	1
13624	Hexachlorocyclopentadiene	77-47-4	5	U	5	15	1
13624	Hexachloroethane	67-72-1	1	U	1	5	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	0.1	U	0.1	0.5	1
13624	Isophorone	78-59-1	0.5	U	0.5	1	1
13624	2-Methylnaphthalene	91-57-6	0.1	U	0.1	0.5	1
13624	2-Methylphenol	95-48-7	0.5	U	0.5	1	1
13624	4-Methylphenol	106-44-5	0.5	U	0.5	1	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-2 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824857
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 09:55

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF02

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**		**ug/l**	**ug/l**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
13624	Naphthalene	91-20-3	0.1	U	0.1	0.5	1
13624	2-Nitroaniline	88-74-4	0.5	U	0.5	1	1
13624	3-Nitroaniline	99-09-2	0.5	U	0.5	1	1
13624	4-Nitroaniline	100-01-6	0.5	U	0.5	1	1
13624	Nitrobenzene	98-95-3	0.5	U	0.5	1	1
13624	2-Nitrophenol	88-75-5	0.5	U	0.5	1	1
13624	4-Nitrophenol	100-02-7	10	U	10	30	1
13624	N-Nitroso-di-n-propylamine	621-64-7	0.5	U	0.5	1	1
13624	N-Nitrosodiphenylamine	86-30-6	0.5	U	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
13624	Di-n-octylphthalate	117-84-0	2	U	2	5	1
13624	Pentachlorophenol	87-86-5	1	U	1	5	1
13624	Phenanthrene	85-01-8	0.1	U	0.1	0.5	1
13624	Phenol	108-95-2	0.5	U	0.5	1	1
13624	Pyrene	129-00-0	0.1	U	0.1	0.5	1
13624	1,2,4-Trichlorobenzene	120-82-1	0.5	U	0.5	1	1
13624	2,4,5-Trichlorophenol	95-95-4	0.5	U	0.5	1	1
13624	2,4,6-Trichlorophenol	88-06-2	0.5	U	0.5	1	1
GC Miscellaneous	**SW-846 8015C Feb 2007 Rev 3**		**mg/l**		**mg/l**	**mg/l**	
12926	Diethylene glycol	111-46-6	8.0	U	8.0	10	1
12926	Ethylene glycol	107-21-1	8.0	U	8.0	10	1
12926	Triethylene glycol	112-27-6	8.0	U	8.0	10	1
GC Miscellaneous	**SW-846 8015C Feb 2007 Rev 3**		**ug/l**		**ug/l**	**ug/l**	
10603	Methanol	67-56-1	200	U	200	1,000	1
Metals	**SW-846 6010C**		**mg/l**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	0.0051	U	0.0051	0.0400	1
07035	Arsenic	7440-38-2	0.0072	U	0.0072	0.0400	1
07046	Barium	7440-39-3	0.0100		0.00033	0.0100	1
07049	Cadmium	7440-43-9	0.00033	U	0.00033	0.0100	1
07051	Chromium	7440-47-3	0.0025	J	0.0013	0.0300	1
07055	Lead	7439-92-1	0.0047	U	0.0047	0.0300	1
07036	Selenium	7782-49-2	0.0048	U	0.0048	0.0400	1
07066	Silver	7440-22-4	0.0018	U	0.0018	0.0100	1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000052	J	0.000050	0.00020	1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	
00224	Chloride	16887-00-6	30.1		1.0	2.0	5

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-2 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824857
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 09:55

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF02

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/l		mg/l	mg/l	
01504	Fluoride	16984-48-8	0.25	U	0.25	0.50	5
00228	Sulfate	14808-79-8	23.4		1.5	5.0	5
	SM 2540 C-1997		mg/l		mg/l	mg/l	
00212	Total Dissolved Solids	n.a.	256		9.7	30.0	1

General Sample Comments

State of North Carolina Lab Certification No. 521

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	CAP Landfill Volatiles	SW-846 8260B	1	Y150971AA	04/07/2015 03:58	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y150971AA	04/07/2015 03:58	Stephanie A Selis	1
13624	10/92 SOW SV List +add'l cmpds	SW-846 8270D	1	15089WAE026	03/31/2015 11:46	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15089WAE026	03/30/2015 19:30	Nicholas W Shroyer	1
12926	3 Gylcol Compounds	SW-846 8015C Feb 2007 Rev 3	1	150910014A	04/01/2015 21:16	Tyler O Griffin	1
10603	Methanol	SW-846 8015C Feb 2007 Rev 3	1	150910035A	04/02/2015 21:56	Tyler O Griffin	1
07044	Antimony	SW-846 6010C	1	150900636002	04/01/2015 07:26	Joanne M Gates	1
07035	Arsenic	SW-846 6010C	1	150900636002	04/01/2015 07:26	Joanne M Gates	1
07046	Barium	SW-846 6010C	1	150900636002	04/01/2015 07:26	Joanne M Gates	1
07049	Cadmium	SW-846 6010C	1	150900636002	04/01/2015 07:26	Joanne M Gates	1
07051	Chromium	SW-846 6010C	1	150900636002	04/01/2015 07:26	Joanne M Gates	1
07055	Lead	SW-846 6010C	1	150900636002	04/01/2015 07:26	Joanne M Gates	1
07036	Selenium	SW-846 6010C	1	150900636002	04/01/2015 07:26	Joanne M Gates	1
07066	Silver	SW-846 6010C	1	150900636002	04/01/2015 07:26	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	150905713004	04/01/2015 08:08	Damary Valentin	1
10636	ICP-WW/TL, 3010A (tot) - U4	SW-846 3010A	1	150900636002	03/31/2015 21:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	150905713004	04/01/2015 01:00	Annamaria Kuhns	1
00224	Chloride	EPA 300.0	1	15092667131A	04/02/2015 14:25	Drew M Gerhart	5
01504	Fluoride	EPA 300.0	1	15092667131A	04/02/2015 14:25	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15092667131A	04/02/2015 14:25	Drew M Gerhart	5
00212	Total Dissolved Solids	SM 2540 C-1997	1	15089021202A	03/30/2015 09:11	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-2 MS Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824858
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 09:55

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260B		ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	130	6	20	1
10335	Acrylonitrile	107-13-1	90	4	20	1
10335	Benzene	71-43-2	21	0.5	1	1
10335	Bromochloromethane	74-97-5	22	1	5	1
10335	Bromodichloromethane	75-27-4	22	0.5	1	1
10335	Bromoform	75-25-2	21	0.5	4	1
10335	Bromomethane	74-83-9	23	0.5	1	1
10335	2-Butanone	78-93-3	130	3	10	1
10335	Carbon Disulfide	75-15-0	22	1	5	1
10335	Carbon Tetrachloride	56-23-5	25	0.5	1	1
10335	Chlorobenzene	108-90-7	22	0.5	1	1
10335	Chloroethane	75-00-3	22	0.5	1	1
10335	Chloroform	67-66-3	23	0.5	1	1
10335	Chloromethane	74-87-3	23	0.5	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	20	2	5	1
10335	Dibromochloromethane	124-48-1	23	0.5	1	1
10335	1,2-Dibromoethane	106-93-4	22	0.5	1	1
10335	Dibromomethane	74-95-3	21	0.5	1	1
10335	trans-1,4-Dichloro-2-butene	110-57-6	100	15	50	1
10335	1,2-Dichlorobenzene	95-50-1	21	1	5	1
10335	1,3-Dichlorobenzene	541-73-1	21	1	5	1
10335	1,4-Dichlorobenzene	106-46-7	21	1	5	1
10335	1,1-Dichloroethane	75-34-3	22	0.5	1	1
10335	1,2-Dichloroethane	107-06-2	24	0.5	1	1
10335	1,1-Dichloroethene	75-35-4	24	0.5	1	1
10335	cis-1,2-Dichloroethene	156-59-2	21	0.5	1	1
10335	trans-1,2-Dichloroethene	156-60-5	24	0.5	1	1
10335	1,2-Dichloropropane	78-87-5	20	0.5	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	20	0.5	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	23	0.5	1	1
10335	Ethylbenzene	100-41-4	22	0.5	1	1
10335	2-Hexanone	591-78-6	92	3	10	1
10335	Methyl Iodide	74-88-4	23	0.5	1	1
10335	4-Methyl-2-pentanone	108-10-1	91	3	10	1
10335	Methylene Chloride	75-09-2	20	2	4	1
10335	Styrene	100-42-5	22	1	5	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	22	0.5	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	19	0.5	1	1
10335	Tetrachloroethene	127-18-4	22	0.5	1	1
10335	Toluene	108-88-3	22	0.5	1	1
10335	1,1,1-Trichloroethane	71-55-6	20	0.5	1	1
10335	1,1,2-Trichloroethane	79-00-5	21	0.5	1	1
10335	Trichloroethene	79-01-6	22	0.5	1	1
10335	Trichlorofluoromethane	75-69-4	27	0.5	1	1
10335	1,2,3-Trichloropropane	96-18-4	20	1	5	1
10335	Vinyl Acetate	108-05-4	49	2	10	1
10335	Vinyl Chloride	75-01-4	23	0.5	1	1
10335	Xylene (Total)	1330-20-7	66	0.5	1	1
GC/MS Semivolatiles	SW-846 8270D		ug/l	ug/l	ug/l	
13624	Acenaphthene	83-32-9	48	0.1	0.5	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-2 MS Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824858
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 09:55

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
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Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	SW-846 8270D		ug/l	ug/l	ug/l	
13624	Acenaphthylene	208-96-8	47	0.1	0.5	1
13624	Anthracene	120-12-7	50	0.1	0.5	1
13624	Benzo(a)anthracene	56-55-3	51	0.1	0.5	1
13624	Benzo(a)pyrene	50-32-8	49	0.1	0.5	1
13624	Benzo(b)fluoranthene	205-99-2	50	0.1	0.5	1
13624	Benzo(g,h,i)perylene	191-24-2	51	0.1	0.5	1
13624	Benzo(k)fluoranthene	207-08-9	50	0.1	0.5	1
13624	1,1'-Biphenyl	92-52-4	46	0.5	1	1
13624	4-Bromophenyl-phenylether	101-55-3	47	0.5	1	1
13624	Butylbenzylphthalate	85-68-7	42	2	5	1
13624	Di-n-butylphthalate	84-74-2	48	2	5	1
13624	Carbazole	86-74-8	50	0.5	1	1
13624	4-Chloro-3-methylphenol	59-50-7	45	0.5	1	1
13624	4-Chloroaniline	106-47-8	44	0.5	1	1
13624	bis(2-Chloroethoxy)methane	111-91-1	47	0.5	1	1
13624	bis(2-Chloroethyl)ether	111-44-4	47	0.5	1	1
13624	2-Chloronaphthalene	91-58-7	46	0.4	1	1
13624	2-Chlorophenol	95-57-8	39	0.5	1	1
13624	4-Chlorophenyl-phenylether	7005-72-3	46	0.5	1	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	46	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
13624	Chrysene	218-01-9	53	0.1	0.5	1
13624	Dibenz(a,h)anthracene	53-70-3	51	0.1	0.5	1
13624	Dibenzofuran	132-64-9	46	0.5	1	1
13624	3,3'-Dichlorobenzidine	91-94-1	39	2	5	1
13624	2,4-Dichlorophenol	120-83-2	45	0.5	1	1
13624	Diethylphthalate	84-66-2	42	2	5	1
13624	2,4-Dimethylphenol	105-67-9	39	0.5	1	1
13624	Dimethylphthalate	131-11-3	34	2	5	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	51	5	15	1
13624	2,4-Dinitrophenol	51-28-5	77	10	30	1
13624	2,4-Dinitrotoluene	121-14-2	48	1	5	1
13624	2,6-Dinitrotoluene	606-20-2	49	0.5	1	1
13624	1,4-Dioxane	123-91-1	21	1	5	1
13624	Diphenyl ether	101-84-8	46	0.5	1	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	49	2	5	1
13624	Fluoranthene	206-44-0	51	0.1	0.5	1
13624	Fluorene	86-73-7	49	0.1	0.5	1
13624	Hexachlorobenzene	118-74-1	47	0.1	0.5	1
13624	Hexachlorobutadiene	87-68-3	35	0.5	1	1
13624	Hexachlorocyclopentadiene	77-47-4	41	5	15	1
13624	Hexachloroethane	67-72-1	36	1	5	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	49	0.1	0.5	1
13624	Isophorone	78-59-1	50	0.5	1	1
13624	2-Methylnaphthalene	91-57-6	45	0.1	0.5	1
13624	2-Methylphenol	95-48-7	38	0.5	1	1
13624	4-Methylphenol	106-44-5	34	0.5	1	1

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Analysis Report

Sample Description: ANLF15-MW-2 MS Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824858
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 09:55

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF02

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**		**ug/l**	**ug/l**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
13624	Naphthalene	91-20-3	45		0.1	0.5	1
13624	2-Nitroaniline	88-74-4	50		0.5	1	1
13624	3-Nitroaniline	99-09-2	47		0.5	1	1
13624	4-Nitroaniline	100-01-6	47		0.5	1	1
13624	Nitrobenzene	98-95-3	46		0.5	1	1
13624	2-Nitrophenol	88-75-5	50		0.5	1	1
13624	4-Nitrophenol	100-02-7	14	J	10	30	1
13624	N-Nitroso-di-n-propylamine	621-64-7	46		0.5	1	1
13624	N-Nitrosodiphenylamine	86-30-6	48		0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
13624	Di-n-octylphthalate	117-84-0	51		2	5	1
13624	Pentachlorophenol	87-86-5	43		1	5	1
13624	Phenanthrene	85-01-8	49		0.1	0.5	1
13624	Phenol	108-95-2	17		0.5	1	1
13624	Pyrene	129-00-0	47		0.1	0.5	1
13624	1,2,4-Trichlorobenzene	120-82-1	41		0.5	1	1
13624	2,4,5-Trichlorophenol	95-95-4	46		0.5	1	1
13624	2,4,6-Trichlorophenol	88-06-2	49		0.5	1	1
GC Miscellaneous	**SW-846 8015C Feb 2007 Rev 3**		**mg/l**		**mg/l**	**mg/l**	
12926	Diethylene glycol	111-46-6	130		8.0	10	1
12926	Ethylene glycol	107-21-1	160		8.0	10	1
12926	Triethylene glycol	112-27-6	42		8.0	10	1
GC Miscellaneous	**SW-846 8015C Feb 2007 Rev 3**		**ug/l**		**ug/l**	**ug/l**	
10603	Methanol	67-56-1	2,900		200	1,000	1
Metals	**SW-846 6010C**		**mg/l**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	0.537		0.0051	0.0400	1
07035	Arsenic	7440-38-2	0.158		0.0072	0.0400	1
07046	Barium	7440-39-3	2.11		0.00033	0.0100	1
07049	Cadmium	7440-43-9	0.0506		0.00033	0.0100	1
07051	Chromium	7440-47-3	0.205		0.0013	0.0300	1
07055	Lead	7439-92-1	0.153		0.0047	0.0300	1
07036	Selenium	7782-49-2	0.155		0.0048	0.0400	1
07066	Silver	7440-22-4	0.0498		0.0018	0.0100	1
	SW-846 7470A		**mg/l**		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.0010		0.000050	0.00020	1
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	
00224	Chloride	16887-00-6	47.0		2.0	4.0	10

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-2 MS Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824858
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 09:55

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
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Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

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CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/l	mg/l	mg/l	
01504	Fluoride	16984-48-8	9.7	0.50	1.0	10
00228	Sulfate	14808-79-8	71.6	3.0	10.0	10
	SM 2540 C-1997		mg/l	mg/l	mg/l	
00212	Total Dissolved Solids	n.a.	453	9.7	30.0	1

General Sample Comments

State of North Carolina Lab Certification No. 521

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	CAP Landfill Volatiles	SW-846 8260B	1	Y150971AA	04/07/2015 04:19	Stephanie A Selis	1
10335	CAP Landfill Volatiles	SW-846 8260B	1	Y150971AA	04/07/2015 08:06	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y150971AA	04/07/2015 04:19	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y150971AA	04/07/2015 08:06	Stephanie A Selis	1
13624	10/92 SOW SV List +add'l cmpds	SW-846 8270D	1	15089WAE026	03/31/2015 12:15	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15089WAE026	03/30/2015 19:30	Nicholas W Shroyer	1
12926	3 Gylcol Compounds	SW-846 8015C Feb 2007 Rev 3	1	150910014A	04/02/2015 00:14	Tyler O Griffin	1
10603	Methanol	SW-846 8015C Feb 2007 Rev 3	1	150910035A	04/02/2015 22:13	Tyler O Griffin	1
07044	Antimony	SW-846 6010C	1	150900636002	04/01/2015 07:35	Joanne M Gates	1
07035	Arsenic	SW-846 6010C	1	150900636002	04/01/2015 07:35	Joanne M Gates	1
07046	Barium	SW-846 6010C	1	150900636002	04/01/2015 07:35	Joanne M Gates	1
07049	Cadmium	SW-846 6010C	1	150900636002	04/01/2015 07:35	Joanne M Gates	1
07051	Chromium	SW-846 6010C	1	150900636002	04/01/2015 07:35	Joanne M Gates	1
07055	Lead	SW-846 6010C	1	150900636002	04/01/2015 07:35	Joanne M Gates	1
07036	Selenium	SW-846 6010C	1	150900636002	04/01/2015 07:35	Joanne M Gates	1
07066	Silver	SW-846 6010C	1	150900636002	04/01/2015 07:35	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	150905713004	04/01/2015 08:12	Damary Valentin	1
10636	ICP-WW/TL, 3010A (tot) - U4	SW-846 3010A	1	150900636002	03/31/2015 21:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	150905713004	04/01/2015 01:00	Annamaria Kuhns	1
00224	Chloride	EPA 300.0	1	15092667131A	04/02/2015 14:54	Drew M Gerhart	10
01504	Fluoride	EPA 300.0	1	15092667131A	04/02/2015 14:54	Drew M Gerhart	10
00228	Sulfate	EPA 300.0	1	15092667131A	04/02/2015 14:54	Drew M Gerhart	10
00212	Total Dissolved Solids	SM 2540 C-1997	1	15089021202A	03/30/2015 09:11	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-2 MSD Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824859
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 09:55

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	ug/l	
10335	Acetone	67-64-1	130	6	20	1
10335	Acrylonitrile	107-13-1	89	4	20	1
10335	Benzene	71-43-2	22	0.5	1	1
10335	Bromochloromethane	74-97-5	22	1	5	1
10335	Bromodichloromethane	75-27-4	22	0.5	1	1
10335	Bromoform	75-25-2	21	0.5	4	1
10335	Bromomethane	74-83-9	23	0.5	1	1
10335	2-Butanone	78-93-3	130	3	10	1
10335	Carbon Disulfide	75-15-0	22	1	5	1
10335	Carbon Tetrachloride	56-23-5	25	0.5	1	1
10335	Chlorobenzene	108-90-7	22	0.5	1	1
10335	Chloroethane	75-00-3	23	0.5	1	1
10335	Chloroform	67-66-3	23	0.5	1	1
10335	Chloromethane	74-87-3	24	0.5	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	20	2	5	1
10335	Dibromochloromethane	124-48-1	23	0.5	1	1
10335	1,2-Dibromoethane	106-93-4	22	0.5	1	1
10335	Dibromomethane	74-95-3	21	0.5	1	1
10335	trans-1,4-Dichloro-2-butene	110-57-6	100	15	50	1
10335	1,2-Dichlorobenzene	95-50-1	21	1	5	1
10335	1,3-Dichlorobenzene	541-73-1	21	1	5	1
10335	1,4-Dichlorobenzene	106-46-7	22	1	5	1
10335	1,1-Dichloroethane	75-34-3	22	0.5	1	1
10335	1,2-Dichloroethane	107-06-2	24	0.5	1	1
10335	1,1-Dichloroethene	75-35-4	24	0.5	1	1
10335	cis-1,2-Dichloroethene	156-59-2	22	0.5	1	1
10335	trans-1,2-Dichloroethene	156-60-5	24	0.5	1	1
10335	1,2-Dichloropropane	78-87-5	20	0.5	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	21	0.5	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	23	0.5	1	1
10335	Ethylbenzene	100-41-4	22	0.5	1	1
10335	2-Hexanone	591-78-6	92	3	10	1
10335	Methyl Iodide	74-88-4	22	0.5	1	1
10335	4-Methyl-2-pentanone	108-10-1	92	3	10	1
10335	Methylene Chloride	75-09-2	21	2	4	1
10335	Styrene	100-42-5	22	1	5	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	23	0.5	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	20	0.5	1	1
10335	Tetrachloroethene	127-18-4	23	0.5	1	1
10335	Toluene	108-88-3	22	0.5	1	1
10335	1,1,1-Trichloroethane	71-55-6	21	0.5	1	1
10335	1,1,2-Trichloroethane	79-00-5	22	0.5	1	1
10335	Trichloroethene	79-01-6	23	0.5	1	1
10335	Trichlorofluoromethane	75-69-4	28	0.5	1	1
10335	1,2,3-Trichloropropane	96-18-4	20	1	5	1
10335	Vinyl Acetate	108-05-4	50	2	10	1
10335	Vinyl Chloride	75-01-4	23	0.5	1	1
10335	Xylene (Total)	1330-20-7	67	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		ug/l	ug/l	ug/l	
13624	Acenaphthene	83-32-9	54	0.1	0.5	1

*=This limit was used in the evaluation of the final result

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Analysis Report

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Sample Description: ANLF15-MW-2 MSD Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824859
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 09:55

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles SW-846 8270D		ug/l	ug/l	ug/l	
13624	Acenaphthylene	208-96-8	53	0.1	0.5	1
13624	Anthracene	120-12-7	56	0.1	0.5	1
13624	Benzo(a)anthracene	56-55-3	57	0.1	0.5	1
13624	Benzo(a)pyrene	50-32-8	53	0.1	0.5	1
13624	Benzo(b)fluoranthene	205-99-2	57	0.1	0.5	1
13624	Benzo(g,h,i)perylene	191-24-2	55	0.1	0.5	1
13624	Benzo(k)fluoranthene	207-08-9	53	0.1	0.5	1
13624	1,1'-Biphenyl	92-52-4	52	0.5	1	1
13624	4-Bromophenyl-phenylether	101-55-3	53	0.5	1	1
13624	Butylbenzylphthalate	85-68-7	48	2	5	1
13624	Di-n-butylphthalate	84-74-2	52	2	5	1
13624	Carbazole	86-74-8	57	0.5	1	1
13624	4-Chloro-3-methylphenol	59-50-7	49	0.5	1	1
13624	4-Chloroaniline	106-47-8	50	0.5	1	1
13624	bis(2-Chloroethoxy)methane	111-91-1	53	0.5	1	1
13624	bis(2-Chloroethyl)ether	111-44-4	52	0.5	1	1
13624	2-Chloronaphthalene	91-58-7	52	0.4	1	1
13624	2-Chlorophenol	95-57-8	43	0.5	1	1
13624	4-Chlorophenyl-phenylether	7005-72-3	52	0.5	1	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	52	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.					
13624	Chrysene	218-01-9	58	0.1	0.5	1
13624	Dibenz(a,h)anthracene	53-70-3	56	0.1	0.5	1
13624	Dibenzofuran	132-64-9	52	0.5	1	1
13624	3,3'-Dichlorobenzidine	91-94-1	45	2	5	1
13624	2,4-Dichlorophenol	120-83-2	48	0.5	1	1
13624	Diethylphthalate	84-66-2	47	2	5	1
13624	2,4-Dimethylphenol	105-67-9	42	0.5	1	1
13624	Dimethylphthalate	131-11-3	38	2	5	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	56	5	16	1
13624	2,4-Dinitrophenol	51-28-5	90	11	33	1
13624	2,4-Dinitrotoluene	121-14-2	53	1	5	1
13624	2,6-Dinitrotoluene	606-20-2	56	0.5	1	1
13624	1,4-Dioxane	123-91-1	25	1	5	1
13624	Diphenyl ether	101-84-8	51	0.5	1	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	54	2	5	1
13624	Fluoranthene	206-44-0	58	0.1	0.5	1
13624	Fluorene	86-73-7	55	0.1	0.5	1
13624	Hexachlorobenzene	118-74-1	53	0.1	0.5	1
13624	Hexachlorobutadiene	87-68-3	38	0.5	1	1
13624	Hexachlorocyclopentadiene	77-47-4	46	5	16	1
13624	Hexachloroethane	67-72-1	40	1	5	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	54	0.1	0.5	1
13624	Isophorone	78-59-1	55	0.5	1	1
13624	2-Methylnaphthalene	91-57-6	49	0.1	0.5	1
13624	2-Methylphenol	95-48-7	43	0.5	1	1
13624	4-Methylphenol	106-44-5	36	0.5	1	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-2 MSD Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824859
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 09:55

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF02

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		**SW-846 8270D**	**ug/l**		**ug/l**	**ug/l**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
13624	Naphthalene	91-20-3	50		0.1	0.5	1
13624	2-Nitroaniline	88-74-4	57		0.5	1	1
13624	3-Nitroaniline	99-09-2	52		0.5	1	1
13624	4-Nitroaniline	100-01-6	54		0.5	1	1
13624	Nitrobenzene	98-95-3	51		0.5	1	1
13624	2-Nitrophenol	88-75-5	55		0.5	1	1
13624	4-Nitrophenol	100-02-7	16	J	11	33	1
13624	N-Nitroso-di-n-propylamine	621-64-7	51		0.5	1	1
13624	N-Nitrosodiphenylamine	86-30-6	55		0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
13624	Di-n-octylphthalate	117-84-0	55		2	5	1
13624	Pentachlorophenol	87-86-5	47		1	5	1
13624	Phenanthrene	85-01-8	54		0.1	0.5	1
13624	Phenol	108-95-2	19		0.5	1	1
13624	Pyrene	129-00-0	53		0.1	0.5	1
13624	1,2,4-Trichlorobenzene	120-82-1	45		0.5	1	1
13624	2,4,5-Trichlorophenol	95-95-4	52		0.5	1	1
13624	2,4,6-Trichlorophenol	88-06-2	53		0.5	1	1
GC Miscellaneous		**SW-846 8015C Feb 2007 Rev 3**	**mg/l**		**mg/l**	**mg/l**	
12926	Diethylene glycol	111-46-6	170		8.0	10	1
12926	Ethylene glycol	107-21-1	160		8.0	10	1
12926	Triethylene glycol	112-27-6	85		8.0	10	1
GC Miscellaneous		**SW-846 8015C Feb 2007 Rev 3**	**ug/l**		**ug/l**	**ug/l**	
10603	Methanol	67-56-1	2,900		200	1,000	1
Metals		**SW-846 6010C**	**mg/l**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	0.536		0.0051	0.0400	1
07035	Arsenic	7440-38-2	0.156		0.0072	0.0400	1
07046	Barium	7440-39-3	2.06		0.00033	0.0100	1
07049	Cadmium	7440-43-9	0.0503		0.00033	0.0100	1
07051	Chromium	7440-47-3	0.201		0.0013	0.0300	1
07055	Lead	7439-92-1	0.151		0.0047	0.0300	1
07036	Selenium	7782-49-2	0.153		0.0048	0.0400	1
07066	Silver	7440-22-4	0.0484		0.0018	0.0100	1
		SW-846 7470A	**mg/l**		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.00099		0.000050	0.00020	1

*=This limit was used in the evaluation of the final result

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Analysis Report

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Sample Description: ANLF15-MW-2 MSD Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824859
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 09:55

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF02

General Sample Comments

State of North Carolina Lab Certification No. 521

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	CAP Landfill Volatiles	SW-846 8260B	1	Y150971AA	04/07/2015 04:40	Stephanie A Selis	1
10335	CAP Landfill Volatiles	SW-846 8260B	1	Y150971AA	04/07/2015 08:27	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y150971AA	04/07/2015 04:40	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	Y150971AA	04/07/2015 08:27	Stephanie A Selis	1
13624	10/92 SOW SV List +add'l cmpds	SW-846 8270D	1	15089WAE026	03/31/2015 12:43	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15089WAE026	03/30/2015 19:30	Nicholas W Shroyer	1
12926	3 Gylcol Compounds	SW-846 8015C Feb 2007 Rev 3	1	150910014A	04/02/2015 00:29	Tyler O Griffin	1
10603	Methanol	SW-846 8015C Feb 2007 Rev 3	1	150910035A	04/02/2015 22:29	Tyler O Griffin	1
07044	Antimony	SW-846 6010C	1	150900636002	04/01/2015 07:39	Joanne M Gates	1
07035	Arsenic	SW-846 6010C	1	150900636002	04/01/2015 07:39	Joanne M Gates	1
07046	Barium	SW-846 6010C	1	150900636002	04/01/2015 07:39	Joanne M Gates	1
07049	Cadmium	SW-846 6010C	1	150900636002	04/01/2015 07:39	Joanne M Gates	1
07051	Chromium	SW-846 6010C	1	150900636002	04/01/2015 07:39	Joanne M Gates	1
07055	Lead	SW-846 6010C	1	150900636002	04/01/2015 07:39	Joanne M Gates	1
07036	Selenium	SW-846 6010C	1	150900636002	04/01/2015 07:39	Joanne M Gates	1
07066	Silver	SW-846 6010C	1	150900636002	04/01/2015 07:39	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	150905713004	04/01/2015 08:14	Damary Valentin	1
10636	ICP-WW/TL, 3010A (tot) - U4	SW-846 3010A	1	150900636002	03/31/2015 21:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	150905713004	04/01/2015 01:00	Annamaria Kuhns	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-2 Dupl Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824860
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 09:55

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF02

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Metals		**SW-846 6010C**	**mg/l**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	0.0051	U	0.0051	0.0400	1
07035	Arsenic	7440-38-2	0.0072	U	0.0072	0.0400	1
07046	Barium	7440-39-3	0.0099	J	0.00033	0.0100	1
07049	Cadmium	7440-43-9	0.00033	U	0.00033	0.0100	1
07051	Chromium	7440-47-3	0.0027	J	0.0013	0.0300	1
07055	Lead	7439-92-1	0.0047	U	0.0047	0.0300	1
07036	Selenium	7782-49-2	0.0048	U	0.0048	0.0400	1
07066	Silver	7440-22-4	0.0018	U	0.0018	0.0100	1
		SW-846 7470A	**mg/l**		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000069	J	0.000050	0.00020	1
Wet Chemistry		**EPA 300.0**	**mg/l**		**mg/l**	**mg/l**	
00224	Chloride	16887-00-6	30.0		1.0	2.0	5
01504	Fluoride	16984-48-8	0.25	U	0.25	0.50	5
00228	Sulfate	14808-79-8	25.1		1.5	5.0	5
		SM 2540 C-1997	**mg/l**		**mg/l**	**mg/l**	
00212	Total Dissolved Solids	n.a.	248		9.7	30.0	1

General Sample Comments

State of North Carolina Lab Certification No. 521

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
07044	Antimony	SW-846 6010C	1	150900636002	04/01/2015	07:32	Joanne M Gates	1
07035	Arsenic	SW-846 6010C	1	150900636002	04/01/2015	07:32	Joanne M Gates	1
07046	Barium	SW-846 6010C	1	150900636002	04/01/2015	07:32	Joanne M Gates	1
07049	Cadmium	SW-846 6010C	1	150900636002	04/01/2015	07:32	Joanne M Gates	1
07051	Chromium	SW-846 6010C	1	150900636002	04/01/2015	07:32	Joanne M Gates	1
07055	Lead	SW-846 6010C	1	150900636002	04/01/2015	07:32	Joanne M Gates	1
07036	Selenium	SW-846 6010C	1	150900636002	04/01/2015	07:32	Joanne M Gates	1
07066	Silver	SW-846 6010C	1	150900636002	04/01/2015	07:32	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	150905713004	04/01/2015	08:10	Damary Valentin	1
10636	ICP-WW/TL, 3010A (tot) - U4	SW-846 3010A	1	150900636002	03/31/2015	21:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	150905713004	04/01/2015	01:00	Annamaria Kuhns	1
00224	Chloride	EPA 300.0	1	15092667131A	04/02/2015	14:39	Drew M Gerhart	5
01504	Fluoride	EPA 300.0	1	15092667131A	04/02/2015	14:39	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15092667131A	04/02/2015	14:39	Drew M Gerhart	5
00212	Total Dissolved Solids	SM 2540 C-1997	1	15089021202A	03/30/2015	09:11	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-2-D Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824861
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 09:55

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF2D

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10335	Acetone	67-64-1	6	U	6	20	1
10335	Acrylonitrile	107-13-1	4	U	4	20	1
10335	Benzene	71-43-2	0.5	U	0.5	1	1
10335	Bromochloromethane	74-97-5	1	U	1	5	1
10335	Bromodichloromethane	75-27-4	0.5	U	0.5	1	1
10335	Bromoform	75-25-2	0.5	U	0.5	4	1
10335	Bromomethane	74-83-9	0.5	U	0.5	1	1
10335	2-Butanone	78-93-3	3	U	3	10	1
10335	Carbon Disulfide	75-15-0	1	U	1	5	1
10335	Carbon Tetrachloride	56-23-5	0.5	U	0.5	1	1
10335	Chlorobenzene	108-90-7	0.5	U	0.5	1	1
10335	Chloroethane	75-00-3	0.5	U	0.5	1	1
10335	Chloroform	67-66-3	0.5	U	0.5	1	1
10335	Chloromethane	74-87-3	0.5	U	0.5	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10335	Dibromochloromethane	124-48-1	0.5	U	0.5	1	1
10335	1,2-Dibromoethane	106-93-4	0.5	U	0.5	1	1
10335	Dibromomethane	74-95-3	0.5	U	0.5	1	1
10335	trans-1,4-Dichloro-2-butene	110-57-6	15	U	15	50	1
10335	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10335	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10335	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10335	1,1-Dichloroethane	75-34-3	0.5	U	0.5	1	1
10335	1,2-Dichloroethane	107-06-2	0.5	U	0.5	1	1
10335	1,1-Dichloroethene	75-35-4	0.5	U	0.5	1	1
10335	cis-1,2-Dichloroethene	156-59-2	0.5	U	0.5	1	1
10335	trans-1,2-Dichloroethene	156-60-5	0.5	U	0.5	1	1
10335	1,2-Dichloropropane	78-87-5	0.5	U	0.5	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	0.5	U	0.5	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	0.5	U	0.5	1	1
10335	Ethylbenzene	100-41-4	0.5	U	0.5	1	1
10335	2-Hexanone	591-78-6	3	U	3	10	1
10335	Methyl Iodide	74-88-4	0.5	U	0.5	1	1
10335	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1
10335	Methylene Chloride	75-09-2	2	U	2	4	1
10335	Styrene	100-42-5	1	U	1	5	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	0.5	U	0.5	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	0.5	U	0.5	1	1
10335	Tetrachloroethene	127-18-4	0.5	U	0.5	1	1
10335	Toluene	108-88-3	0.5	U	0.5	1	1
10335	1,1,1-Trichloroethane	71-55-6	0.5	U	0.5	1	1
10335	1,1,2-Trichloroethane	79-00-5	0.5	U	0.5	1	1
10335	Trichloroethene	79-01-6	0.5	U	0.5	1	1
10335	Trichlorofluoromethane	75-69-4	0.5	U	0.5	1	1
10335	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10335	Vinyl Acetate	108-05-4	2	U	2	10	1
10335	Vinyl Chloride	75-01-4	0.5	U	0.5	1	1
10335	Xylene (Total)	1330-20-7	0.5	U	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		ug/l		ug/l	ug/l	
13624	Acenaphthene	83-32-9	0.1	U	0.1	0.6	1

*=This limit was used in the evaluation of the final result

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Analysis Report

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Sample Description: ANLF15-MW-2-D Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824861
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 09:55

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF2D

CAT No.	Analysis Name		CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry		**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	
01504	Fluoride		16984-48-8	0.25	U	0.25	0.50	5
00228	Sulfate		14808-79-8	25.0		1.5	5.0	5
		SM 2540 C-1997		**mg/l**		**mg/l**	**mg/l**	
00212	Total Dissolved Solids		n.a.	253		9.7	30.0	1

General Sample Comments

State of North Carolina Lab Certification No. 521

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10335	CAP Landfill Volatiles	SW-846 8260B	1	Y150971AA	04/07/2015	08:48	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y150971AA	04/07/2015	08:48	Stephanie A Selis	1
13624	10/92 SOW SV List +add'l cmpds	SW-846 8270D	1	15089WAE026	03/31/2015	13:12	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15089WAE026	03/30/2015	19:30	Nicholas W Shroyer	1
12926	3 Gylcol Compounds	SW-846 8015C Feb 2007 Rev 3	1	150910014A	04/01/2015	21:31	Tyler O Griffin	1
10603	Methanol	SW-846 8015C Feb 2007 Rev 3	1	150910035A	04/02/2015	23:03	Tyler O Griffin	1
07044	Antimony	SW-846 6010C	1	150900636002	04/01/2015	07:58	Joanne M Gates	1
07035	Arsenic	SW-846 6010C	1	150900636002	04/01/2015	07:58	Joanne M Gates	1
07046	Barium	SW-846 6010C	1	150900636002	04/01/2015	07:58	Joanne M Gates	1
07049	Cadmium	SW-846 6010C	1	150900636002	04/01/2015	07:58	Joanne M Gates	1
07051	Chromium	SW-846 6010C	1	150900636002	04/01/2015	07:58	Joanne M Gates	1
07055	Lead	SW-846 6010C	1	150900636002	04/01/2015	07:58	Joanne M Gates	1
07036	Selenium	SW-846 6010C	1	150900636002	04/01/2015	07:58	Joanne M Gates	1
07066	Silver	SW-846 6010C	1	150900636002	04/01/2015	07:58	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	150905713004	04/01/2015	08:18	Damary Valentin	1
10636	ICP-WW/TL, 3010A (tot) - U4	SW-846 3010A	1	150900636002	03/31/2015	21:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	150905713004	04/01/2015	01:00	Annamaria Kuhns	1
00224	Chloride	EPA 300.0	1	15092667131A	04/02/2015	15:34	Drew M Gerhart	5
01504	Fluoride	EPA 300.0	1	15092667131A	04/02/2015	15:34	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15092667131A	04/02/2015	15:34	Drew M Gerhart	5
00212	Total Dissolved Solids	SM 2540 C-1997	1	15089021202A	03/30/2015	09:11	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-3 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824862
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 17:00

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF03

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10335	Acetone	67-64-1	6	U	6	20	1
10335	Acrylonitrile	107-13-1	4	U	4	20	1
10335	Benzene	71-43-2	0.5	U	0.5	1	1
10335	Bromochloromethane	74-97-5	1	U	1	5	1
10335	Bromodichloromethane	75-27-4	0.5	U	0.5	1	1
10335	Bromoform	75-25-2	0.5	U	0.5	4	1
10335	Bromomethane	74-83-9	0.5	U	0.5	1	1
10335	2-Butanone	78-93-3	3	U	3	10	1
10335	Carbon Disulfide	75-15-0	1	U	1	5	1
10335	Carbon Tetrachloride	56-23-5	0.5	U	0.5	1	1
10335	Chlorobenzene	108-90-7	0.5	U	0.5	1	1
10335	Chloroethane	75-00-3	0.5	U	0.5	1	1
10335	Chloroform	67-66-3	0.5	U	0.5	1	1
10335	Chloromethane	74-87-3	0.5	U	0.5	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10335	Dibromochloromethane	124-48-1	0.5	U	0.5	1	1
10335	1,2-Dibromoethane	106-93-4	0.5	U	0.5	1	1
10335	Dibromomethane	74-95-3	0.5	U	0.5	1	1
10335	trans-1,4-Dichloro-2-butene	110-57-6	15	U	15	50	1
10335	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10335	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10335	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10335	1,1-Dichloroethane	75-34-3	0.5	U	0.5	1	1
10335	1,2-Dichloroethane	107-06-2	0.5	U	0.5	1	1
10335	1,1-Dichloroethene	75-35-4	0.5	U	0.5	1	1
10335	cis-1,2-Dichloroethene	156-59-2	0.5	U	0.5	1	1
10335	trans-1,2-Dichloroethene	156-60-5	0.5	U	0.5	1	1
10335	1,2-Dichloropropane	78-87-5	0.5	U	0.5	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	0.5	U	0.5	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	0.5	U	0.5	1	1
10335	Ethylbenzene	100-41-4	0.5	U	0.5	1	1
10335	2-Hexanone	591-78-6	3	U	3	10	1
10335	Methyl Iodide	74-88-4	0.5	U	0.5	1	1
10335	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1
10335	Methylene Chloride	75-09-2	2	U	2	4	1
10335	Styrene	100-42-5	1	U	1	5	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	0.5	U	0.5	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	0.5	U	0.5	1	1
10335	Tetrachloroethene	127-18-4	0.5	U	0.5	1	1
10335	Toluene	108-88-3	0.5	U	0.5	1	1
10335	1,1,1-Trichloroethane	71-55-6	0.5	U	0.5	1	1
10335	1,1,2-Trichloroethane	79-00-5	0.5	U	0.5	1	1
10335	Trichloroethene	79-01-6	0.5	U	0.5	1	1
10335	Trichlorofluoromethane	75-69-4	0.5	U	0.5	1	1
10335	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10335	Vinyl Acetate	108-05-4	2	U	2	10	1
10335	Vinyl Chloride	75-01-4	0.5	U	0.5	1	1
10335	Xylene (Total)	1330-20-7	0.5	U	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		ug/l		ug/l	ug/l	
13624	Acenaphthene	83-32-9	0.1	U	0.1	0.5	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-2-D Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824861
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 09:55

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF2D

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles SW-846 8270D		ug/l		ug/l	ug/l	
13624	Acenaphthylene	208-96-8	0.1	U	0.1	0.6	1
13624	Anthracene	120-12-7	0.1	U	0.1	0.6	1
13624	Benzo(a)anthracene	56-55-3	0.1	U	0.1	0.6	1
13624	Benzo(a)pyrene	50-32-8	0.1	U	0.1	0.6	1
13624	Benzo(b)fluoranthene	205-99-2	0.1	U	0.1	0.6	1
13624	Benzo(g,h,i)perylene	191-24-2	0.1	U	0.1	0.6	1
13624	Benzo(k)fluoranthene	207-08-9	0.1	U	0.1	0.6	1
13624	1,1'-Biphenyl	92-52-4	0.6	U	0.6	1	1
13624	4-Bromophenyl-phenylether	101-55-3	0.6	U	0.6	1	1
13624	Butylbenzylphthalate	85-68-7	2	U	2	6	1
13624	Di-n-butylphthalate	84-74-2	2	U	2	6	1
13624	Carbazole	86-74-8	0.6	U	0.6	1	1
13624	4-Chloro-3-methylphenol	59-50-7	0.6	U	0.6	1	1
13624	4-Chloroaniline	106-47-8	0.6	U	0.6	1	1
13624	bis(2-Chloroethoxy)methane	111-91-1	0.6	U	0.6	1	1
13624	bis(2-Chloroethyl)ether	111-44-4	0.6	U	0.6	1	1
13624	2-Chloronaphthalene	91-58-7	0.4	U	0.4	1	1
13624	2-Chlorophenol	95-57-8	0.6	U	0.6	1	1
13624	4-Chlorophenyl-phenylether	7005-72-3	0.6	U	0.6	1	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	0.6	U	0.6	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
13624	Chrysene	218-01-9	0.1	U	0.1	0.6	1
13624	Dibenz(a,h)anthracene	53-70-3	0.1	U	0.1	0.6	1
13624	Dibenzofuran	132-64-9	0.6	U	0.6	1	1
13624	3,3'-Dichlorobenzidine	91-94-1	2	U	2	6	1
13624	2,4-Dichlorophenol	120-83-2	0.6	U	0.6	1	1
13624	Diethylphthalate	84-66-2	2	U	2	6	1
13624	2,4-Dimethylphenol	105-67-9	0.6	U	0.6	1	1
13624	Dimethylphthalate	131-11-3	2	U	2	6	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	6	U	6	17	1
13624	2,4-Dinitrophenol	51-28-5	11	U	11	33	1
13624	2,4-Dinitrotoluene	121-14-2	1	U	1	6	1
13624	2,6-Dinitrotoluene	606-20-2	0.6	U	0.6	1	1
13624	1,4-Dioxane	123-91-1	2	J	1	6	1
13624	Diphenyl ether	101-84-8	0.6	U	0.6	1	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	2	U	2	6	1
13624	Fluoranthene	206-44-0	0.1	U	0.1	0.6	1
13624	Fluorene	86-73-7	0.1	U	0.1	0.6	1
13624	Hexachlorobenzene	118-74-1	0.1	U	0.1	0.6	1
13624	Hexachlorobutadiene	87-68-3	0.6	U	0.6	1	1
13624	Hexachlorocyclopentadiene	77-47-4	6	U	6	17	1
13624	Hexachloroethane	67-72-1	1	U	1	6	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	0.1	U	0.1	0.6	1
13624	Isophorone	78-59-1	0.6	U	0.6	1	1
13624	2-Methylnaphthalene	91-57-6	0.1	U	0.1	0.6	1
13624	2-Methylphenol	95-48-7	0.6	U	0.6	1	1
13624	4-Methylphenol	106-44-5	0.6	U	0.6	1	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-2-D Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824861
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 09:55

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF2D

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		**SW-846 8270D**	**ug/l**		**ug/l**	**ug/l**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
13624	Naphthalene	91-20-3	0.1	U	0.1	0.6	1
13624	2-Nitroaniline	88-74-4	0.6	U	0.6	1	1
13624	3-Nitroaniline	99-09-2	0.6	U	0.6	1	1
13624	4-Nitroaniline	100-01-6	0.6	U	0.6	1	1
13624	Nitrobenzene	98-95-3	0.6	U	0.6	1	1
13624	2-Nitrophenol	88-75-5	0.6	U	0.6	1	1
13624	4-Nitrophenol	100-02-7	11	U	11	33	1
13624	N-Nitroso-di-n-propylamine	621-64-7	0.6	U	0.6	1	1
13624	N-Nitrosodiphenylamine	86-30-6	0.6	U	0.6	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
13624	Di-n-octylphthalate	117-84-0	2	U	2	6	1
13624	Pentachlorophenol	87-86-5	1	U	1	6	1
13624	Phenanthrene	85-01-8	0.1	U	0.1	0.6	1
13624	Phenol	108-95-2	0.6	U	0.6	1	1
13624	Pyrene	129-00-0	0.1	U	0.1	0.6	1
13624	1,2,4-Trichlorobenzene	120-82-1	0.6	U	0.6	1	1
13624	2,4,5-Trichlorophenol	95-95-4	0.6	U	0.6	1	1
13624	2,4,6-Trichlorophenol	88-06-2	0.6	U	0.6	1	1
GC Miscellaneous		**SW-846 8015C Feb 2007 Rev 3**	**mg/l**		**mg/l**	**mg/l**	
12926	Diethylene glycol	111-46-6	8.0	U	8.0	10	1
12926	Ethylene glycol	107-21-1	8.0	U	8.0	10	1
12926	Triethylene glycol	112-27-6	8.0	U	8.0	10	1
GC Miscellaneous		**SW-846 8015C Feb 2007 Rev 3**	**ug/l**		**ug/l**	**ug/l**	
10603	Methanol	67-56-1	200	U	200	1,000	1
Metals		**SW-846 6010C**	**mg/l**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	0.0051	U	0.0051	0.0400	1
07035	Arsenic	7440-38-2	0.0072	U	0.0072	0.0400	1
07046	Barium	7440-39-3	0.0101		0.00033	0.0100	1
07049	Cadmium	7440-43-9	0.00033	U	0.00033	0.0100	1
07051	Chromium	7440-47-3	0.0029	J	0.0013	0.0300	1
07055	Lead	7439-92-1	0.0047	U	0.0047	0.0300	1
07036	Selenium	7782-49-2	0.0048	U	0.0048	0.0400	1
07066	Silver	7440-22-4	0.0018	U	0.0018	0.0100	1
		SW-846 7470A	**mg/l**		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000072	J	0.000050	0.00020	1
Wet Chemistry		**EPA 300.0**	**mg/l**		**mg/l**	**mg/l**	
00224	Chloride	16887-00-6	30.0		1.0	2.0	5

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-3 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824862
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 17:00

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF03

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles SW-846 8270D		ug/l		ug/l	ug/l	
13624	Acenaphthylene	208-96-8	0.1	U	0.1	0.5	1
13624	Anthracene	120-12-7	0.1	U	0.1	0.5	1
13624	Benzo(a)anthracene	56-55-3	0.1	U	0.1	0.5	1
13624	Benzo(a)pyrene	50-32-8	0.1	U	0.1	0.5	1
13624	Benzo(b)fluoranthene	205-99-2	0.1	U	0.1	0.5	1
13624	Benzo(g,h,i)perylene	191-24-2	0.1	U	0.1	0.5	1
13624	Benzo(k)fluoranthene	207-08-9	0.1	U	0.1	0.5	1
13624	1,1'-Biphenyl	92-52-4	0.5	U	0.5	1	1
13624	4-Bromophenyl-phenylether	101-55-3	0.5	U	0.5	1	1
13624	Butylbenzylphthalate	85-68-7	2	U	2	5	1
13624	Di-n-butylphthalate	84-74-2	2	U	2	5	1
13624	Carbazole	86-74-8	0.5	U	0.5	1	1
13624	4-Chloro-3-methylphenol	59-50-7	0.5	U	0.5	1	1
13624	4-Chloroaniline	106-47-8	0.5	U	0.5	1	1
13624	bis(2-Chloroethoxy)methane	111-91-1	0.5	U	0.5	1	1
13624	bis(2-Chloroethyl)ether	111-44-4	0.5	U	0.5	1	1
13624	2-Chloronaphthalene	91-58-7	0.4	U	0.4	1	1
13624	2-Chlorophenol	95-57-8	0.5	U	0.5	1	1
13624	4-Chlorophenyl-phenylether	7005-72-3	0.5	U	0.5	1	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5	U	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
13624	Chrysene	218-01-9	0.1	U	0.1	0.5	1
13624	Dibenz(a,h)anthracene	53-70-3	0.1	U	0.1	0.5	1
13624	Dibenzofuran	132-64-9	0.5	U	0.5	1	1
13624	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5	1
13624	2,4-Dichlorophenol	120-83-2	0.5	U	0.5	1	1
13624	Diethylphthalate	84-66-2	2	U	2	5	1
13624	2,4-Dimethylphenol	105-67-9	0.5	U	0.5	1	1
13624	Dimethylphthalate	131-11-3	2	U	2	5	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16	1
13624	2,4-Dinitrophenol	51-28-5	11	U	11	33	1
13624	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1
13624	2,6-Dinitrotoluene	606-20-2	0.5	U	0.5	1	1
13624	1,4-Dioxane	123-91-1	1	U	1	5	1
13624	Diphenyl ether	101-84-8	0.5	U	0.5	1	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	2	U	2	5	1
13624	Fluoranthene	206-44-0	0.1	U	0.1	0.5	1
13624	Fluorene	86-73-7	0.1	U	0.1	0.5	1
13624	Hexachlorobenzene	118-74-1	0.1	U	0.1	0.5	1
13624	Hexachlorobutadiene	87-68-3	0.5	U	0.5	1	1
13624	Hexachlorocyclopentadiene	77-47-4	5	U	5	16	1
13624	Hexachloroethane	67-72-1	1	U	1	5	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	0.1	U	0.1	0.5	1
13624	Isophorone	78-59-1	0.5	U	0.5	1	1
13624	2-Methylnaphthalene	91-57-6	0.1	U	0.1	0.5	1
13624	2-Methylphenol	95-48-7	0.5	U	0.5	1	1
13624	4-Methylphenol	106-44-5	0.5	U	0.5	1	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-3 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824862
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 17:00

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF03

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		**SW-846 8270D**	**ug/l**		**ug/l**	**ug/l**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
13624	Naphthalene	91-20-3	0.1	U	0.1	0.5	1
13624	2-Nitroaniline	88-74-4	0.5	U	0.5	1	1
13624	3-Nitroaniline	99-09-2	0.5	U	0.5	1	1
13624	4-Nitroaniline	100-01-6	0.5	U	0.5	1	1
13624	Nitrobenzene	98-95-3	0.5	U	0.5	1	1
13624	2-Nitrophenol	88-75-5	0.5	U	0.5	1	1
13624	4-Nitrophenol	100-02-7	11	U	11	33	1
13624	N-Nitroso-di-n-propylamine	621-64-7	0.5	U	0.5	1	1
13624	N-Nitrosodiphenylamine	86-30-6	0.5	U	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
13624	Di-n-octylphthalate	117-84-0	2	U	2	5	1
13624	Pentachlorophenol	87-86-5	1	U	1	5	1
13624	Phenanthrene	85-01-8	0.1	U	0.1	0.5	1
13624	Phenol	108-95-2	0.5	U	0.5	1	1
13624	Pyrene	129-00-0	0.1	U	0.1	0.5	1
13624	1,2,4-Trichlorobenzene	120-82-1	0.5	U	0.5	1	1
13624	2,4,5-Trichlorophenol	95-95-4	0.5	U	0.5	1	1
13624	2,4,6-Trichlorophenol	88-06-2	0.5	U	0.5	1	1
GC Miscellaneous		**SW-846 8015C Feb 2007 Rev 3**	**mg/l**		**mg/l**	**mg/l**	
12926	Diethylene glycol	111-46-6	8.0	U	8.0	10	1
12926	Ethylene glycol	107-21-1	8.0	U	8.0	10	1
12926	Triethylene glycol	112-27-6	8.0	U	8.0	10	1
GC Miscellaneous		**SW-846 8015C Feb 2007 Rev 3**	**ug/l**		**ug/l**	**ug/l**	
10603	Methanol	67-56-1	200	U	200	1,000	1
Metals		**SW-846 6010C**	**mg/l**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	0.0051	U	0.0051	0.0400	1
07035	Arsenic	7440-38-2	0.0072	U	0.0072	0.0400	1
07046	Barium	7440-39-3	0.0101		0.00033	0.0100	1
07049	Cadmium	7440-43-9	0.00033	U	0.00033	0.0100	1
07051	Chromium	7440-47-3	0.0032	J	0.0013	0.0300	1
07055	Lead	7439-92-1	0.0047	U	0.0047	0.0300	1
07036	Selenium	7782-49-2	0.0048	U	0.0048	0.0400	1
07066	Silver	7440-22-4	0.0018	U	0.0018	0.0100	1
		SW-846 7470A	**mg/l**		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000070	J	0.000050	0.00020	1
Wet Chemistry		**EPA 300.0**	**mg/l**		**mg/l**	**mg/l**	
00224	Chloride	16887-00-6	7.1		1.0	2.0	5

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-3 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824862
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 17:00

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF03

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/l		mg/l	mg/l	
01504	Fluoride	16984-48-8	0.25	U	0.25	0.50	5
00228	Sulfate	14808-79-8	2.6	J	1.5	5.0	5
	SM 2540 C-1997		mg/l		mg/l	mg/l	
00212	Total Dissolved Solids	n.a.	320		9.7	30.0	1

General Sample Comments

State of North Carolina Lab Certification No. 521

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10335	CAP Landfill Volatiles	SW-846 8260B	1	Y150971AA	04/07/2015	09:09	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y150971AA	04/07/2015	09:09	Stephanie A Selis	1
13624	10/92 SOW SV List +add'l cmpds	SW-846 8270D	1	15089WAE026	03/31/2015	13:41	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15089WAE026	03/30/2015	19:30	Nicholas W Shroyer	1
12926	3 Gylcol Compounds	SW-846 8015C Feb 2007 Rev 3	1	150910014A	04/01/2015	21:46	Tyler O Griffin	1
10603	Methanol	SW-846 8015C Feb 2007 Rev 3	1	150910035A	04/02/2015	23:20	Tyler O Griffin	1
07044	Antimony	SW-846 6010C	1	150900636002	04/01/2015	08:01	Joanne M Gates	1
07035	Arsenic	SW-846 6010C	1	150900636002	04/01/2015	08:01	Joanne M Gates	1
07046	Barium	SW-846 6010C	1	150900636002	04/01/2015	08:01	Joanne M Gates	1
07049	Cadmium	SW-846 6010C	1	150900636002	04/01/2015	08:01	Joanne M Gates	1
07051	Chromium	SW-846 6010C	1	150900636002	04/01/2015	08:01	Joanne M Gates	1
07055	Lead	SW-846 6010C	1	150900636002	04/01/2015	08:01	Joanne M Gates	1
07036	Selenium	SW-846 6010C	1	150900636002	04/01/2015	08:01	Joanne M Gates	1
07066	Silver	SW-846 6010C	1	150900636002	04/01/2015	08:01	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	150905713004	04/01/2015	08:20	Damary Valentin	1
10636	ICP-WW/TL, 3010A (tot) - U4	SW-846 3010A	1	150900636002	03/31/2015	21:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	150905713004	04/01/2015	01:00	Annamaria Kuhns	1
00224	Chloride	EPA 300.0	1	15092667131A	04/02/2015	15:49	Drew M Gerhart	5
01504	Fluoride	EPA 300.0	1	15092667131A	04/02/2015	15:49	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15092667131A	04/02/2015	15:49	Drew M Gerhart	5
00212	Total Dissolved Solids	SM 2540 C-1997	1	15089021202A	03/30/2015	09:11	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-9 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824863
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 18:15

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF09

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10335	Acetone	67-64-1	8	J	6	20	1
10335	Acrylonitrile	107-13-1	4	U	4	20	1
10335	Benzene	71-43-2	0.5	U	0.5	1	1
10335	Bromochloromethane	74-97-5	1	U	1	5	1
10335	Bromodichloromethane	75-27-4	0.5	U	0.5	1	1
10335	Bromoform	75-25-2	0.5	U	0.5	4	1
10335	Bromomethane	74-83-9	0.5	U	0.5	1	1
10335	2-Butanone	78-93-3	3	U	3	10	1
10335	Carbon Disulfide	75-15-0	1	U	1	5	1
10335	Carbon Tetrachloride	56-23-5	0.5	U	0.5	1	1
10335	Chlorobenzene	108-90-7	0.5	U	0.5	1	1
10335	Chloroethane	75-00-3	0.5	U	0.5	1	1
10335	Chloroform	67-66-3	0.5	U	0.5	1	1
10335	Chloromethane	74-87-3	0.5	U	0.5	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10335	Dibromochloromethane	124-48-1	0.5	U	0.5	1	1
10335	1,2-Dibromoethane	106-93-4	0.5	U	0.5	1	1
10335	Dibromomethane	74-95-3	0.5	U	0.5	1	1
10335	trans-1,4-Dichloro-2-butene	110-57-6	15	U	15	50	1
10335	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10335	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10335	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10335	1,1-Dichloroethane	75-34-3	0.5	U	0.5	1	1
10335	1,2-Dichloroethane	107-06-2	0.5	U	0.5	1	1
10335	1,1-Dichloroethene	75-35-4	0.5	U	0.5	1	1
10335	cis-1,2-Dichloroethene	156-59-2	0.5	U	0.5	1	1
10335	trans-1,2-Dichloroethene	156-60-5	0.5	U	0.5	1	1
10335	1,2-Dichloropropane	78-87-5	0.5	U	0.5	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	0.5	U	0.5	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	0.5	U	0.5	1	1
10335	Ethylbenzene	100-41-4	0.5	U	0.5	1	1
10335	2-Hexanone	591-78-6	3	U	3	10	1
10335	Methyl Iodide	74-88-4	0.5	U	0.5	1	1
10335	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1
10335	Methylene Chloride	75-09-2	2	U	2	4	1
10335	Styrene	100-42-5	1	U	1	5	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	0.5	U	0.5	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	0.5	U	0.5	1	1
10335	Tetrachloroethene	127-18-4	0.5	U	0.5	1	1
10335	Toluene	108-88-3	0.5	U	0.5	1	1
10335	1,1,1-Trichloroethane	71-55-6	0.5	U	0.5	1	1
10335	1,1,2-Trichloroethane	79-00-5	0.5	U	0.5	1	1
10335	Trichloroethene	79-01-6	0.5	U	0.5	1	1
10335	Trichlorofluoromethane	75-69-4	0.5	U	0.5	1	1
10335	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10335	Vinyl Acetate	108-05-4	2	U	2	10	1
10335	Vinyl Chloride	75-01-4	0.5	U	0.5	1	1
10335	Xylene (Total)	1330-20-7	0.5	U	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		ug/l		ug/l	ug/l	
13624	Acenaphthene	83-32-9	0.1	U	0.1	0.5	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-9 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824863
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 18:15

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF09

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles SW-846 8270D		ug/l		ug/l	ug/l	
13624	Acenaphthylene	208-96-8	0.1	U	0.1	0.5	1
13624	Anthracene	120-12-7	0.1	U	0.1	0.5	1
13624	Benzo(a)anthracene	56-55-3	0.1	U	0.1	0.5	1
13624	Benzo(a)pyrene	50-32-8	0.1	U	0.1	0.5	1
13624	Benzo(b)fluoranthene	205-99-2	0.1	U	0.1	0.5	1
13624	Benzo(g,h,i)perylene	191-24-2	0.1	U	0.1	0.5	1
13624	Benzo(k)fluoranthene	207-08-9	0.1	U	0.1	0.5	1
13624	1,1'-Biphenyl	92-52-4	0.5	U	0.5	1	1
13624	4-Bromophenyl-phenylether	101-55-3	0.5	U	0.5	1	1
13624	Butylbenzylphthalate	85-68-7	2	U	2	5	1
13624	Di-n-butylphthalate	84-74-2	2	U	2	5	1
13624	Carbazole	86-74-8	0.5	U	0.5	1	1
13624	4-Chloro-3-methylphenol	59-50-7	0.5	U	0.5	1	1
13624	4-Chloroaniline	106-47-8	0.5	U	0.5	1	1
13624	bis(2-Chloroethoxy)methane	111-91-1	0.5	U	0.5	1	1
13624	bis(2-Chloroethyl)ether	111-44-4	0.5	U	0.5	1	1
13624	2-Chloronaphthalene	91-58-7	0.4	U	0.4	1	1
13624	2-Chlorophenol	95-57-8	0.5	U	0.5	1	1
13624	4-Chlorophenyl-phenylether	7005-72-3	0.5	U	0.5	1	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5	U	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
13624	Chrysene	218-01-9	0.1	U	0.1	0.5	1
13624	Dibenz(a,h)anthracene	53-70-3	0.1	U	0.1	0.5	1
13624	Dibenzofuran	132-64-9	0.5	U	0.5	1	1
13624	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5	1
13624	2,4-Dichlorophenol	120-83-2	0.5	U	0.5	1	1
13624	Diethylphthalate	84-66-2	2	U	2	5	1
13624	2,4-Dimethylphenol	105-67-9	0.5	U	0.5	1	1
13624	Dimethylphthalate	131-11-3	2	U	2	5	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16	1
13624	2,4-Dinitrophenol	51-28-5	11	U	11	32	1
13624	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1
13624	2,6-Dinitrotoluene	606-20-2	0.5	U	0.5	1	1
13624	1,4-Dioxane	123-91-1	42		1	5	1
13624	Diphenyl ether	101-84-8	0.5	U	0.5	1	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	2	U	2	5	1
13624	Fluoranthene	206-44-0	0.1	U	0.1	0.5	1
13624	Fluorene	86-73-7	0.1	U	0.1	0.5	1
13624	Hexachlorobenzene	118-74-1	0.1	U	0.1	0.5	1
13624	Hexachlorobutadiene	87-68-3	0.5	U	0.5	1	1
13624	Hexachlorocyclopentadiene	77-47-4	5	U	5	16	1
13624	Hexachloroethane	67-72-1	1	U	1	5	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	0.1	U	0.1	0.5	1
13624	Isophorone	78-59-1	0.5	U	0.5	1	1
13624	2-Methylnaphthalene	91-57-6	0.1	U	0.1	0.5	1
13624	2-Methylphenol	95-48-7	0.5	U	0.5	1	1
13624	4-Methylphenol	106-44-5	0.5	U	0.5	1	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-9 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824863
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 18:15

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF09

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		**SW-846 8270D**	**ug/l**		**ug/l**	**ug/l**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
13624	Naphthalene	91-20-3	0.1	U	0.1	0.5	1
13624	2-Nitroaniline	88-74-4	0.5	U	0.5	1	1
13624	3-Nitroaniline	99-09-2	0.5	U	0.5	1	1
13624	4-Nitroaniline	100-01-6	0.5	U	0.5	1	1
13624	Nitrobenzene	98-95-3	0.5	U	0.5	1	1
13624	2-Nitrophenol	88-75-5	0.5	U	0.5	1	1
13624	4-Nitrophenol	100-02-7	11	U	11	32	1
13624	N-Nitroso-di-n-propylamine	621-64-7	0.5	U	0.5	1	1
13624	N-Nitrosodiphenylamine	86-30-6	0.5	U	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
13624	Di-n-octylphthalate	117-84-0	2	U	2	5	1
13624	Pentachlorophenol	87-86-5	1	U	1	5	1
13624	Phenanthrene	85-01-8	0.1	U	0.1	0.5	1
13624	Phenol	108-95-2	0.5	U	0.5	1	1
13624	Pyrene	129-00-0	0.1	U	0.1	0.5	1
13624	1,2,4-Trichlorobenzene	120-82-1	0.5	U	0.5	1	1
13624	2,4,5-Trichlorophenol	95-95-4	0.5	U	0.5	1	1
13624	2,4,6-Trichlorophenol	88-06-2	0.5	U	0.5	1	1
GC Miscellaneous		**SW-846 8015C Feb 2007 Rev 3**	**mg/l**		**mg/l**	**mg/l**	
12926	Diethylene glycol	111-46-6	8.0	U	8.0	10	1
12926	Ethylene glycol	107-21-1	8.0	U	8.0	10	1
12926	Triethylene glycol	112-27-6	8.0	U	8.0	10	1
GC Miscellaneous		**SW-846 8015C Feb 2007 Rev 3**	**ug/l**		**ug/l**	**ug/l**	
10603	Methanol	67-56-1	200	U	200	1,000	1
Metals		**SW-846 6010C**	**mg/l**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	0.0051	U	0.0051	0.0400	1
07035	Arsenic	7440-38-2	0.0072	U	0.0072	0.0400	1
07046	Barium	7440-39-3	0.0254		0.00033	0.0100	1
07049	Cadmium	7440-43-9	0.00033	U	0.00033	0.0100	1
07051	Chromium	7440-47-3	0.0029	J	0.0013	0.0300	1
07055	Lead	7439-92-1	0.0047	U	0.0047	0.0300	1
07036	Selenium	7782-49-2	0.0056	J	0.0048	0.0400	1
07066	Silver	7440-22-4	0.0018	U	0.0018	0.0100	1
		SW-846 7470A	**mg/l**		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000070	J	0.000050	0.00020	1
Wet Chemistry		**EPA 300.0**	**mg/l**		**mg/l**	**mg/l**	
00224	Chloride	16887-00-6	12.4		1.0	2.0	5

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-9 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824863
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/24/2015 18:15

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF09

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/l		mg/l	mg/l	
01504	Fluoride	16984-48-8	0.25	U	0.25	0.50	5
00228	Sulfate	14808-79-8	1.5	U	1.5	5.0	5
	SM 2540 C-1997		mg/l		mg/l	mg/l	
00212	Total Dissolved Solids	n.a.	513		19.4	60.0	1

General Sample Comments

State of North Carolina Lab Certification No. 521

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10335	CAP Landfill Volatiles	SW-846 8260B	1	Y150971AA	04/07/2015	09:30	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y150971AA	04/07/2015	09:30	Stephanie A Selis	1
13624	10/92 SOW SV List +add'l cmpds	SW-846 8270D	1	15089WAE026	03/31/2015	14:10	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15089WAE026	03/30/2015	19:30	Nicholas W Shroyer	1
12926	3 Gylcol Compounds	SW-846 8015C Feb 2007 Rev 3	1	150910014A	04/01/2015	22:01	Tyler O Griffin	1
10603	Methanol	SW-846 8015C Feb 2007 Rev 3	1	150910035A	04/02/2015	23:37	Tyler O Griffin	1
07044	Antimony	SW-846 6010C	1	150900636002	04/01/2015	08:04	Joanne M Gates	1
07035	Arsenic	SW-846 6010C	1	150900636002	04/01/2015	08:04	Joanne M Gates	1
07046	Barium	SW-846 6010C	1	150900636002	04/01/2015	08:04	Joanne M Gates	1
07049	Cadmium	SW-846 6010C	1	150900636002	04/01/2015	08:04	Joanne M Gates	1
07051	Chromium	SW-846 6010C	1	150900636002	04/01/2015	08:04	Joanne M Gates	1
07055	Lead	SW-846 6010C	1	150900636002	04/01/2015	08:04	Joanne M Gates	1
07036	Selenium	SW-846 6010C	1	150900636002	04/01/2015	08:04	Joanne M Gates	1
07066	Silver	SW-846 6010C	1	150900636002	04/01/2015	08:04	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	150905713004	04/01/2015	08:22	Damary Valentin	1
10636	ICP-WW/TL, 3010A (tot) - U4	SW-846 3010A	1	150900636002	03/31/2015	21:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	150905713004	04/01/2015	01:00	Annamaria Kuhns	1
00224	Chloride	EPA 300.0	1	15092667131A	04/02/2015	16:04	Drew M Gerhart	5
01504	Fluoride	EPA 300.0	1	15092667131A	04/02/2015	16:04	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15092667131A	04/02/2015	16:04	Drew M Gerhart	5
00212	Total Dissolved Solids	SM 2540 C-1997	1	15089021202A	03/30/2015	09:11	Yolunder Y Bunch	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-4 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824864
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 10:15

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF04

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260B		ug/l		ug/l	ug/l	
10335	Acetone	67-64-1	6	U	6	20	1
10335	Acrylonitrile	107-13-1	4	U	4	20	1
10335	Benzene	71-43-2	0.5	U	0.5	1	1
10335	Bromochloromethane	74-97-5	1	U	1	5	1
10335	Bromodichloromethane	75-27-4	0.5	U	0.5	1	1
10335	Bromoform	75-25-2	0.5	U	0.5	4	1
10335	Bromomethane	74-83-9	0.5	U	0.5	1	1
10335	2-Butanone	78-93-3	3	U	3	10	1
10335	Carbon Disulfide	75-15-0	1	U	1	5	1
10335	Carbon Tetrachloride	56-23-5	0.5	U	0.5	1	1
10335	Chlorobenzene	108-90-7	0.5	U	0.5	1	1
10335	Chloroethane	75-00-3	0.5	U	0.5	1	1
10335	Chloroform	67-66-3	0.5	U	0.5	1	1
10335	Chloromethane	74-87-3	0.5	U	0.5	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10335	Dibromochloromethane	124-48-1	0.5	U	0.5	1	1
10335	1,2-Dibromoethane	106-93-4	0.5	U	0.5	1	1
10335	Dibromomethane	74-95-3	0.5	U	0.5	1	1
10335	trans-1,4-Dichloro-2-butene	110-57-6	15	U	15	50	1
10335	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10335	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10335	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10335	1,1-Dichloroethane	75-34-3	0.5	U	0.5	1	1
10335	1,2-Dichloroethane	107-06-2	0.5	U	0.5	1	1
10335	1,1-Dichloroethene	75-35-4	0.5	U	0.5	1	1
10335	cis-1,2-Dichloroethene	156-59-2	0.5	U	0.5	1	1
10335	trans-1,2-Dichloroethene	156-60-5	0.5	U	0.5	1	1
10335	1,2-Dichloropropane	78-87-5	0.5	U	0.5	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	0.5	U	0.5	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	0.5	U	0.5	1	1
10335	Ethylbenzene	100-41-4	0.5	U	0.5	1	1
10335	2-Hexanone	591-78-6	3	U	3	10	1
10335	Methyl Iodide	74-88-4	0.5	U	0.5	1	1
10335	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1
10335	Methylene Chloride	75-09-2	2	U	2	4	1
10335	Styrene	100-42-5	1	U	1	5	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	0.5	U	0.5	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	0.5	U	0.5	1	1
10335	Tetrachloroethene	127-18-4	0.5	U	0.5	1	1
10335	Toluene	108-88-3	0.5	U	0.5	1	1
10335	1,1,1-Trichloroethane	71-55-6	0.5	U	0.5	1	1
10335	1,1,2-Trichloroethane	79-00-5	0.5	U	0.5	1	1
10335	Trichloroethene	79-01-6	0.5	U	0.5	1	1
10335	Trichlorofluoromethane	75-69-4	0.5	U	0.5	1	1
10335	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10335	Vinyl Acetate	108-05-4	2	U	2	10	1
10335	Vinyl Chloride	75-01-4	0.5	U	0.5	1	1
10335	Xylene (Total)	1330-20-7	0.5	U	0.5	1	1
GC/MS Semivolatiles	SW-846 8270D		ug/l		ug/l	ug/l	
13624	Acenaphthene	83-32-9	0.1	U	0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: ANLF15-MW-4 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824864
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 10:15

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF04

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		ug/l		ug/l	ug/l	
13624	Acenaphthylene	208-96-8	0.1	U	0.1	0.5	1
13624	Anthracene	120-12-7	0.1	U	0.1	0.5	1
13624	Benzo(a)anthracene	56-55-3	0.1	U	0.1	0.5	1
13624	Benzo(a)pyrene	50-32-8	0.1	U	0.1	0.5	1
13624	Benzo(b)fluoranthene	205-99-2	0.1	U	0.1	0.5	1
13624	Benzo(g,h,i)perylene	191-24-2	0.1	U	0.1	0.5	1
13624	Benzo(k)fluoranthene	207-08-9	0.1	U	0.1	0.5	1
13624	1,1'-Biphenyl	92-52-4	0.5	U	0.5	1	1
13624	4-Bromophenyl-phenylether	101-55-3	0.5	U	0.5	1	1
13624	Butylbenzylphthalate	85-68-7	2	U	2	5	1
13624	Di-n-butylphthalate	84-74-2	2	U	2	5	1
13624	Carbazole	86-74-8	0.5	U	0.5	1	1
13624	4-Chloro-3-methylphenol	59-50-7	0.5	U	0.5	1	1
13624	4-Chloroaniline	106-47-8	0.5	U	0.5	1	1
13624	bis(2-Chloroethoxy)methane	111-91-1	0.5	U	0.5	1	1
13624	bis(2-Chloroethyl)ether	111-44-4	0.5	U	0.5	1	1
13624	2-Chloronaphthalene	91-58-7	0.4	U	0.4	1	1
13624	2-Chlorophenol	95-57-8	0.5	U	0.5	1	1
13624	4-Chlorophenyl-phenylether	7005-72-3	0.5	U	0.5	1	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5	U	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
13624	Chrysene	218-01-9	0.1	U	0.1	0.5	1
13624	Dibenz(a,h)anthracene	53-70-3	0.1	U	0.1	0.5	1
13624	Dibenzofuran	132-64-9	0.5	U	0.5	1	1
13624	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5	1
13624	2,4-Dichlorophenol	120-83-2	0.5	U	0.5	1	1
13624	Diethylphthalate	84-66-2	2	U	2	5	1
13624	2,4-Dimethylphenol	105-67-9	0.5	U	0.5	1	1
13624	Dimethylphthalate	131-11-3	2	U	2	5	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16	1
13624	2,4-Dinitrophenol	51-28-5	11	U	11	32	1
13624	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1
13624	2,6-Dinitrotoluene	606-20-2	0.5	U	0.5	1	1
13624	1,4-Dioxane	123-91-1	1	U	1	5	1
13624	Diphenyl ether	101-84-8	0.5	U	0.5	1	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	2	U	2	5	1
13624	Fluoranthene	206-44-0	0.1	U	0.1	0.5	1
13624	Fluorene	86-73-7	0.1	U	0.1	0.5	1
13624	Hexachlorobenzene	118-74-1	0.1	U	0.1	0.5	1
13624	Hexachlorobutadiene	87-68-3	0.5	U	0.5	1	1
13624	Hexachlorocyclopentadiene	77-47-4	5	U	5	16	1
13624	Hexachloroethane	67-72-1	1	U	1	5	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	0.1	U	0.1	0.5	1
13624	Isophorone	78-59-1	0.5	U	0.5	1	1
13624	2-Methylnaphthalene	91-57-6	0.1	U	0.1	0.5	1
13624	2-Methylphenol	95-48-7	0.5	U	0.5	1	1
13624	4-Methylphenol	106-44-5	0.5	U	0.5	1	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-4 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824864
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 10:15

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF04

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		**SW-846 8270D**	**ug/l**		**ug/l**	**ug/l**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
13624	Naphthalene	91-20-3	0.1	U	0.1	0.5	1
13624	2-Nitroaniline	88-74-4	0.5	U	0.5	1	1
13624	3-Nitroaniline	99-09-2	0.5	U	0.5	1	1
13624	4-Nitroaniline	100-01-6	0.5	U	0.5	1	1
13624	Nitrobenzene	98-95-3	0.5	U	0.5	1	1
13624	2-Nitrophenol	88-75-5	0.5	U	0.5	1	1
13624	4-Nitrophenol	100-02-7	11	U	11	32	1
13624	N-Nitroso-di-n-propylamine	621-64-7	0.5	U	0.5	1	1
13624	N-Nitrosodiphenylamine	86-30-6	0.5	U	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
13624	Di-n-octylphthalate	117-84-0	2	U	2	5	1
13624	Pentachlorophenol	87-86-5	1	U	1	5	1
13624	Phenanthrene	85-01-8	0.1	U	0.1	0.5	1
13624	Phenol	108-95-2	0.5	U	0.5	1	1
13624	Pyrene	129-00-0	0.1	U	0.1	0.5	1
13624	1,2,4-Trichlorobenzene	120-82-1	0.5	U	0.5	1	1
13624	2,4,5-Trichlorophenol	95-95-4	0.5	U	0.5	1	1
13624	2,4,6-Trichlorophenol	88-06-2	0.5	U	0.5	1	1
GC Miscellaneous		**SW-846 8015C Feb 2007 Rev 3**	**mg/l**		**mg/l**	**mg/l**	
12926	Diethylene glycol	111-46-6	8.0	U	8.0	10	1
12926	Ethylene glycol	107-21-1	8.0	U	8.0	10	1
12926	Triethylene glycol	112-27-6	8.0	U	8.0	10	1
GC Miscellaneous		**SW-846 8015C Feb 2007 Rev 3**	**ug/l**		**ug/l**	**ug/l**	
10603	Methanol	67-56-1	200	U	200	1,000	1
Metals		**SW-846 6010C**	**mg/l**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	0.0051	U	0.0051	0.0400	1
07035	Arsenic	7440-38-2	0.0072	U	0.0072	0.0400	1
07046	Barium	7440-39-3	0.0153		0.00033	0.0100	1
07049	Cadmium	7440-43-9	0.00033	U	0.00033	0.0100	1
07051	Chromium	7440-47-3	0.0024	J	0.0013	0.0300	1
07055	Lead	7439-92-1	0.0047	U	0.0047	0.0300	1
07036	Selenium	7782-49-2	0.0048	U	0.0048	0.0400	1
07066	Silver	7440-22-4	0.0018	U	0.0018	0.0100	1
		SW-846 7470A	**mg/l**		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000071	J	0.000050	0.00020	1
Wet Chemistry		**EPA 300.0**	**mg/l**		**mg/l**	**mg/l**	
00224	Chloride	16887-00-6	4.8		1.0	2.0	5

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-4 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824864
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 10:15

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF04

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/l		mg/l	mg/l	
01504	Fluoride	16984-48-8	0.25	U	0.25	0.50	5
00228	Sulfate	14808-79-8	38.1		1.5	5.0	5
	SM 2540 C-1997		mg/l		mg/l	mg/l	
00212	Total Dissolved Solids	n.a.	109		9.7	30.0	1

General Sample Comments

State of North Carolina Lab Certification No. 521

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10335	CAP Landfill Volatiles	SW-846 8260B	1	Y150971AA	04/07/2015	09:51	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y150971AA	04/07/2015	09:51	Stephanie A Selis	1
13624	10/92 SOW SV List +add'l cmpds	SW-846 8270D	1	15089WAE026	03/31/2015	14:39	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15089WAE026	03/30/2015	19:30	Nicholas W Shroyer	1
12926	3 Gylcol Compounds	SW-846 8015C Feb 2007 Rev 3	1	150910014A	04/01/2015	22:16	Tyler O Griffin	1
10603	Methanol	SW-846 8015C Feb 2007 Rev 3	1	150910035A	04/02/2015	23:54	Tyler O Griffin	1
07044	Antimony	SW-846 6010C	1	150900636002	04/01/2015	08:07	Joanne M Gates	1
07035	Arsenic	SW-846 6010C	1	150900636002	04/01/2015	08:07	Joanne M Gates	1
07046	Barium	SW-846 6010C	1	150900636002	04/01/2015	08:07	Joanne M Gates	1
07049	Cadmium	SW-846 6010C	1	150900636002	04/01/2015	08:07	Joanne M Gates	1
07051	Chromium	SW-846 6010C	1	150900636002	04/01/2015	08:07	Joanne M Gates	1
07055	Lead	SW-846 6010C	1	150900636002	04/01/2015	08:07	Joanne M Gates	1
07036	Selenium	SW-846 6010C	1	150900636002	04/01/2015	08:07	Joanne M Gates	1
07066	Silver	SW-846 6010C	1	150900636002	04/01/2015	08:07	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	150905713004	04/01/2015	08:28	Damary Valentin	1
10636	ICP-WW/TL, 3010A (tot) - U4	SW-846 3010A	1	150900636002	03/31/2015	21:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	150905713004	04/01/2015	01:00	Annamaria Kuhns	1
00224	Chloride	EPA 300.0	1	15092667131A	04/02/2015	16:48	Drew M Gerhart	5
01504	Fluoride	EPA 300.0	1	15092667131A	04/02/2015	16:48	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15092667131A	04/02/2015	16:48	Drew M Gerhart	5
00212	Total Dissolved Solids	SM 2540 C-1997	1	15091021201A	04/01/2015	06:07	Noah M Rainbow	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-5 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824865
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 11:00

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF05

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10335	Acetone	67-64-1	6	U	6	20	1
10335	Acrylonitrile	107-13-1	4	U	4	20	1
10335	Benzene	71-43-2	0.5	U	0.5	1	1
10335	Bromochloromethane	74-97-5	1	U	1	5	1
10335	Bromodichloromethane	75-27-4	0.5	U	0.5	1	1
10335	Bromoform	75-25-2	0.5	U	0.5	4	1
10335	Bromomethane	74-83-9	0.5	U	0.5	1	1
10335	2-Butanone	78-93-3	3	U	3	10	1
10335	Carbon Disulfide	75-15-0	1	U	1	5	1
10335	Carbon Tetrachloride	56-23-5	0.5	U	0.5	1	1
10335	Chlorobenzene	108-90-7	0.5	U	0.5	1	1
10335	Chloroethane	75-00-3	0.5	U	0.5	1	1
10335	Chloroform	67-66-3	0.5	U	0.5	1	1
10335	Chloromethane	74-87-3	0.5	U	0.5	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10335	Dibromochloromethane	124-48-1	0.5	U	0.5	1	1
10335	1,2-Dibromoethane	106-93-4	0.5	U	0.5	1	1
10335	Dibromomethane	74-95-3	0.5	U	0.5	1	1
10335	trans-1,4-Dichloro-2-butene	110-57-6	15	U	15	50	1
10335	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10335	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10335	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10335	1,1-Dichloroethane	75-34-3	0.5	U	0.5	1	1
10335	1,2-Dichloroethane	107-06-2	0.5	U	0.5	1	1
10335	1,1-Dichloroethene	75-35-4	0.5	U	0.5	1	1
10335	cis-1,2-Dichloroethene	156-59-2	0.5	U	0.5	1	1
10335	trans-1,2-Dichloroethene	156-60-5	0.5	U	0.5	1	1
10335	1,2-Dichloropropane	78-87-5	0.5	U	0.5	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	0.5	U	0.5	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	0.5	U	0.5	1	1
10335	Ethylbenzene	100-41-4	0.5	U	0.5	1	1
10335	2-Hexanone	591-78-6	3	U	3	10	1
10335	Methyl Iodide	74-88-4	0.5	U	0.5	1	1
10335	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1
10335	Methylene Chloride	75-09-2	2	U	2	4	1
10335	Styrene	100-42-5	1	U	1	5	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	0.5	U	0.5	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	0.5	U	0.5	1	1
10335	Tetrachloroethene	127-18-4	0.5	U	0.5	1	1
10335	Toluene	108-88-3	0.5	U	0.5	1	1
10335	1,1,1-Trichloroethane	71-55-6	0.5	U	0.5	1	1
10335	1,1,2-Trichloroethane	79-00-5	0.5	U	0.5	1	1
10335	Trichloroethene	79-01-6	0.5	U	0.5	1	1
10335	Trichlorofluoromethane	75-69-4	0.5	U	0.5	1	1
10335	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10335	Vinyl Acetate	108-05-4	2	U	2	10	1
10335	Vinyl Chloride	75-01-4	0.5	U	0.5	1	1
10335	Xylene (Total)	1330-20-7	0.5	U	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		ug/l		ug/l	ug/l	
13624	Acenaphthene	83-32-9	0.1	U	0.1	0.6	1

*=This limit was used in the evaluation of the final result

Sample Description: ANLF15-MW-5 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824865
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 11:00

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF05

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS	**Semivolatiles SW-846 8270D**		ug/l		ug/l	ug/l	
13624	Acenaphthylene	208-96-8	0.1	U	0.1	0.6	1
13624	Anthracene	120-12-7	0.1	U	0.1	0.6	1
13624	Benzo(a)anthracene	56-55-3	0.1	U	0.1	0.6	1
13624	Benzo(a)pyrene	50-32-8	0.1	U	0.1	0.6	1
13624	Benzo(b)fluoranthene	205-99-2	0.1	U	0.1	0.6	1
13624	Benzo(g,h,i)perylene	191-24-2	0.1	U	0.1	0.6	1
13624	Benzo(k)fluoranthene	207-08-9	0.1	U	0.1	0.6	1
13624	1,1'-Biphenyl	92-52-4	0.6	U	0.6	1	1
13624	4-Bromophenyl-phenylether	101-55-3	0.6	U	0.6	1	1
13624	Butylbenzylphthalate	85-68-7	2	U	2	6	1
13624	Di-n-butylphthalate	84-74-2	2	U	2	6	1
13624	Carbazole	86-74-8	0.6	U	0.6	1	1
13624	4-Chloro-3-methylphenol	59-50-7	0.6	U	0.6	1	1
13624	4-Chloroaniline	106-47-8	0.6	U	0.6	1	1
13624	bis(2-Chloroethoxy)methane	111-91-1	0.6	U	0.6	1	1
13624	bis(2-Chloroethyl)ether	111-44-4	0.6	U	0.6	1	1
13624	2-Chloronaphthalene	91-58-7	0.5	U	0.5	1	1
13624	2-Chlorophenol	95-57-8	0.6	U	0.6	1	1
13624	4-Chlorophenyl-phenylether	7005-72-3	0.6	U	0.6	1	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	0.6	U	0.6	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
13624	Chrysene	218-01-9	0.1	U	0.1	0.6	1
13624	Dibenz(a,h)anthracene	53-70-3	0.1	U	0.1	0.6	1
13624	Dibenzofuran	132-64-9	0.6	U	0.6	1	1
13624	3,3'-Dichlorobenzidine	91-94-1	2	U	2	6	1
13624	2,4-Dichlorophenol	120-83-2	0.6	U	0.6	1	1
13624	Diethylphthalate	84-66-2	2	U	2	6	1
13624	2,4-Dimethylphenol	105-67-9	0.6	U	0.6	1	1
13624	Dimethylphthalate	131-11-3	2	U	2	6	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	6	U	6	17	1
13624	2,4-Dinitrophenol	51-28-5	11	U	11	34	1
13624	2,4-Dinitrotoluene	121-14-2	1	U	1	6	1
13624	2,6-Dinitrotoluene	606-20-2	0.6	U	0.6	1	1
13624	1,4-Dioxane	123-91-1	1	U	1	6	1
13624	Diphenyl ether	101-84-8	0.6	U	0.6	1	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	2	U	2	6	1
13624	Fluoranthene	206-44-0	0.1	U	0.1	0.6	1
13624	Fluorene	86-73-7	0.1	U	0.1	0.6	1
13624	Hexachlorobenzene	118-74-1	0.1	U	0.1	0.6	1
13624	Hexachlorobutadiene	87-68-3	0.6	U	0.6	1	1
13624	Hexachlorocyclopentadiene	77-47-4	6	U	6	17	1
13624	Hexachloroethane	67-72-1	1	U	1	6	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	0.1	U	0.1	0.6	1
13624	Isophorone	78-59-1	0.6	U	0.6	1	1
13624	2-Methylnaphthalene	91-57-6	0.1	U	0.1	0.6	1
13624	2-Methylphenol	95-48-7	0.6	U	0.6	1	1
13624	4-Methylphenol	106-44-5	0.6	U	0.6	1	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-5 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824865
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 11:00

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF05

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		ug/l		ug/l	ug/l	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
13624	Naphthalene	91-20-3	0.1	U	0.1	0.6	1
13624	2-Nitroaniline	88-74-4	0.6	U	0.6	1	1
13624	3-Nitroaniline	99-09-2	0.6	U	0.6	1	1
13624	4-Nitroaniline	100-01-6	0.6	U	0.6	1	1
13624	Nitrobenzene	98-95-3	0.6	U	0.6	1	1
13624	2-Nitrophenol	88-75-5	0.6	U	0.6	1	1
13624	4-Nitrophenol	100-02-7	11	U	11	34	1
13624	N-Nitroso-di-n-propylamine	621-64-7	0.6	U	0.6	1	1
13624	N-Nitrosodiphenylamine	86-30-6	0.6	U	0.6	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
13624	Di-n-octylphthalate	117-84-0	2	U	2	6	1
13624	Pentachlorophenol	87-86-5	1	U	1	6	1
13624	Phenanthrene	85-01-8	0.1	U	0.1	0.6	1
13624	Phenol	108-95-2	0.6	U	0.6	1	1
13624	Pyrene	129-00-0	0.1	U	0.1	0.6	1
13624	1,2,4-Trichlorobenzene	120-82-1	0.6	U	0.6	1	1
13624	2,4,5-Trichlorophenol	95-95-4	0.6	U	0.6	1	1
13624	2,4,6-Trichlorophenol	88-06-2	0.6	U	0.6	1	1
GC Miscellaneous	**SW-846 8015C Feb 2007 Rev 3**		mg/l		mg/l	mg/l	
12926	Diethylene glycol	111-46-6	8.0	U	8.0	10	1
12926	Ethylene glycol	107-21-1	8.0	U	8.0	10	1
12926	Triethylene glycol	112-27-6	8.0	U	8.0	10	1
GC Miscellaneous	**SW-846 8015C Feb 2007 Rev 3**		ug/l		ug/l	ug/l	
10603	Methanol	67-56-1	200	U	200	1,000	1
Metals	**SW-846 6010C**		mg/l		mg/l	mg/l	
07044	Antimony	7440-36-0	0.0051	U	0.0051	0.0400	1
07035	Arsenic	7440-38-2	0.0072	U	0.0072	0.0400	1
07046	Barium	7440-39-3	0.0194		0.00033	0.0100	1
07049	Cadmium	7440-43-9	0.00033	U	0.00033	0.0100	1
07051	Chromium	7440-47-3	0.0033	J	0.0013	0.0300	1
07055	Lead	7439-92-1	0.0047	U	0.0047	0.0300	1
07036	Selenium	7782-49-2	0.0199	J	0.0048	0.0400	1
07066	Silver	7440-22-4	0.0018	U	0.0018	0.0100	1
	SW-846 7470A		mg/l		mg/l	mg/l	
00259	Mercury	7439-97-6	0.000071	J	0.000050	0.00020	1
Wet Chemistry	**EPA 300.0**		mg/l		mg/l	mg/l	
00224	Chloride	16887-00-6	3.3		1.0	2.0	5

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-5 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824865
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 11:00

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF05

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/l		mg/l	mg/l	
01504	Fluoride	16984-48-8	0.25	U	0.25	0.50	5
00228	Sulfate	14808-79-8	14.1		1.5	5.0	5
	SM 2540 C-1997		mg/l		mg/l	mg/l	
00212	Total Dissolved Solids	n.a.	197		19.4	60.0	1

General Sample Comments

State of North Carolina Lab Certification No. 521

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10335	CAP Landfill Volatiles	SW-846 8260B	1	Y150971AA	04/07/2015	10:13	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y150971AA	04/07/2015	10:13	Stephanie A Selis	1
13624	10/92 SOW SV List +add'l cmpds	SW-846 8270D	1	15089WAE026	03/31/2015	15:08	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15089WAE026	03/30/2015	19:30	Nicholas W Shroyer	1
12926	3 Gylcol Compounds	SW-846 8015C Feb 2007 Rev 3	1	150910014A	04/01/2015	22:30	Tyler O Griffin	1
10603	Methanol	SW-846 8015C Feb 2007 Rev 3	1	150910035A	04/03/2015	00:11	Tyler O Griffin	1
07044	Antimony	SW-846 6010C	1	150900636002	04/01/2015	08:10	Joanne M Gates	1
07035	Arsenic	SW-846 6010C	1	150900636002	04/01/2015	08:10	Joanne M Gates	1
07046	Barium	SW-846 6010C	1	150900636002	04/01/2015	08:10	Joanne M Gates	1
07049	Cadmium	SW-846 6010C	1	150900636002	04/01/2015	08:10	Joanne M Gates	1
07051	Chromium	SW-846 6010C	1	150900636002	04/01/2015	08:10	Joanne M Gates	1
07055	Lead	SW-846 6010C	1	150900636002	04/01/2015	08:10	Joanne M Gates	1
07036	Selenium	SW-846 6010C	1	150900636002	04/01/2015	08:10	Joanne M Gates	1
07066	Silver	SW-846 6010C	1	150900636002	04/01/2015	08:10	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	150905713004	04/01/2015	08:30	Damary Valentin	1
10636	ICP-WW/TL, 3010A (tot) - U4	SW-846 3010A	1	150900636002	03/31/2015	21:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	150905713004	04/01/2015	01:00	Annamaria Kuhns	1
00224	Chloride	EPA 300.0	1	15092667131A	04/02/2015	17:16	Drew M Gerhart	5
01504	Fluoride	EPA 300.0	1	15092667131A	04/02/2015	17:16	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15092667131A	04/02/2015	17:16	Drew M Gerhart	5
00212	Total Dissolved Solids	SM 2540 C-1997	1	15091021201A	04/01/2015	06:07	Noah M Rainbow	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-6 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824866
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 09:05

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF06

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260B		ug/l		ug/l	ug/l	
10335	Acetone	67-64-1	6	U	6	20	1
10335	Acrylonitrile	107-13-1	4	U	4	20	1
10335	Benzene	71-43-2	0.5	U	0.5	1	1
10335	Bromochloromethane	74-97-5	1	U	1	5	1
10335	Bromodichloromethane	75-27-4	0.5	U	0.5	1	1
10335	Bromoform	75-25-2	0.5	U	0.5	4	1
10335	Bromomethane	74-83-9	0.5	U	0.5	1	1
10335	2-Butanone	78-93-3	3	U	3	10	1
10335	Carbon Disulfide	75-15-0	1	U	1	5	1
10335	Carbon Tetrachloride	56-23-5	0.5	U	0.5	1	1
10335	Chlorobenzene	108-90-7	0.5	U	0.5	1	1
10335	Chloroethane	75-00-3	0.5	U	0.5	1	1
10335	Chloroform	67-66-3	0.5	U	0.5	1	1
10335	Chloromethane	74-87-3	0.5	U	0.5	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10335	Dibromochloromethane	124-48-1	0.5	U	0.5	1	1
10335	1,2-Dibromoethane	106-93-4	0.5	U	0.5	1	1
10335	Dibromomethane	74-95-3	0.5	U	0.5	1	1
10335	trans-1,4-Dichloro-2-butene	110-57-6	15	U	15	50	1
10335	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10335	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10335	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10335	1,1-Dichloroethane	75-34-3	0.5	U	0.5	1	1
10335	1,2-Dichloroethane	107-06-2	0.5	U	0.5	1	1
10335	1,1-Dichloroethene	75-35-4	0.5	U	0.5	1	1
10335	cis-1,2-Dichloroethene	156-59-2	0.5	U	0.5	1	1
10335	trans-1,2-Dichloroethene	156-60-5	0.5	U	0.5	1	1
10335	1,2-Dichloropropane	78-87-5	0.5	U	0.5	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	0.5	U	0.5	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	0.5	U	0.5	1	1
10335	Ethylbenzene	100-41-4	0.5	U	0.5	1	1
10335	2-Hexanone	591-78-6	3	U	3	10	1
10335	Methyl Iodide	74-88-4	0.5	U	0.5	1	1
10335	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1
10335	Methylene Chloride	75-09-2	2	U	2	4	1
10335	Styrene	100-42-5	1	U	1	5	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	0.5	U	0.5	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	0.5	U	0.5	1	1
10335	Tetrachloroethene	127-18-4	0.5	U	0.5	1	1
10335	Toluene	108-88-3	0.5	U	0.5	1	1
10335	1,1,1-Trichloroethane	71-55-6	0.5	U	0.5	1	1
10335	1,1,2-Trichloroethane	79-00-5	0.5	U	0.5	1	1
10335	Trichloroethene	79-01-6	0.5	U	0.5	1	1
10335	Trichlorofluoromethane	75-69-4	0.5	U	0.5	1	1
10335	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10335	Vinyl Acetate	108-05-4	2	U	2	10	1
10335	Vinyl Chloride	75-01-4	0.5	U	0.5	1	1
10335	Xylene (Total)	1330-20-7	0.5	U	0.5	1	1
GC/MS Semivolatiles	SW-846 8270D		ug/l		ug/l	ug/l	
13624	Acenaphthene	83-32-9	0.1	U	0.1	0.6	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-6 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824866
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 09:05

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF06

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	
01504	Fluoride	16984-48-8	0.25	U	0.25	0.50	5
00228	Sulfate	14808-79-8	3.6	J	1.5	5.0	5
	SM 2540 C-1997		**mg/l**		**mg/l**	**mg/l**	
00212	Total Dissolved Solids	n.a.	389		9.7	30.0	1

General Sample Comments

State of North Carolina Lab Certification No. 521

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10335	CAP Landfill Volatiles	SW-846 8260B	1	Y150971AA	04/07/2015	10:34	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y150971AA	04/07/2015	10:34	Stephanie A Selis	1
13624	10/92 SOW SV List +add'l cmpds	SW-846 8270D	1	15089WAE026	03/31/2015	15:37	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15089WAE026	03/30/2015	19:30	Nicholas W Shroyer	1
12926	3 Gylcol Compounds	SW-846 8015C Feb 2007 Rev 3	1	150910014A	04/01/2015	22:45	Tyler O Griffin	1
10603	Methanol	SW-846 8015C Feb 2007 Rev 3	1	150910035A	04/03/2015	00:28	Tyler O Griffin	1
07044	Antimony	SW-846 6010C	1	150900636002	04/01/2015	08:13	Joanne M Gates	1
07035	Arsenic	SW-846 6010C	1	150900636002	04/01/2015	08:13	Joanne M Gates	1
07046	Barium	SW-846 6010C	1	150900636002	04/01/2015	08:13	Joanne M Gates	1
07049	Cadmium	SW-846 6010C	1	150900636002	04/01/2015	08:13	Joanne M Gates	1
07051	Chromium	SW-846 6010C	1	150900636002	04/01/2015	08:13	Joanne M Gates	1
07055	Lead	SW-846 6010C	1	150900636002	04/01/2015	08:13	Joanne M Gates	1
07036	Selenium	SW-846 6010C	1	150900636002	04/01/2015	08:13	Joanne M Gates	1
07066	Silver	SW-846 6010C	1	150900636002	04/01/2015	08:13	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	150905713004	04/01/2015	08:32	Damary Valentin	1
10636	ICP-WW/TL, 3010A (tot) - U4	SW-846 3010A	1	150900636002	03/31/2015	21:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	150905713004	04/01/2015	01:00	Annamaria Kuhns	1
00224	Chloride	EPA 300.0	1	15092667131A	04/02/2015	17:31	Drew M Gerhart	5
01504	Fluoride	EPA 300.0	1	15092667131A	04/02/2015	17:31	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15092667131A	04/02/2015	17:31	Drew M Gerhart	5
00212	Total Dissolved Solids	SM 2540 C-1997	1	15091021201A	04/01/2015	06:07	Noah M Rainbow	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-7 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824867
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 12:10

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF07

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260B		ug/l		ug/l	ug/l	
10335	Acetone	67-64-1	6	U	6	20	1
10335	Acrylonitrile	107-13-1	4	U	4	20	1
10335	Benzene	71-43-2	0.5	U	0.5	1	1
10335	Bromochloromethane	74-97-5	1	U	1	5	1
10335	Bromodichloromethane	75-27-4	0.5	U	0.5	1	1
10335	Bromoform	75-25-2	0.5	U	0.5	4	1
10335	Bromomethane	74-83-9	0.5	U	0.5	1	1
10335	2-Butanone	78-93-3	3	U	3	10	1
10335	Carbon Disulfide	75-15-0	1	U	1	5	1
10335	Carbon Tetrachloride	56-23-5	0.5	U	0.5	1	1
10335	Chlorobenzene	108-90-7	0.5	U	0.5	1	1
10335	Chloroethane	75-00-3	0.5	U	0.5	1	1
10335	Chloroform	67-66-3	0.5	U	0.5	1	1
10335	Chloromethane	74-87-3	0.5	U	0.5	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10335	Dibromochloromethane	124-48-1	0.5	U	0.5	1	1
10335	1,2-Dibromoethane	106-93-4	0.5	U	0.5	1	1
10335	Dibromomethane	74-95-3	0.5	U	0.5	1	1
10335	trans-1,4-Dichloro-2-butene	110-57-6	15	U	15	50	1
10335	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10335	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10335	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10335	1,1-Dichloroethane	75-34-3	0.5	U	0.5	1	1
10335	1,2-Dichloroethane	107-06-2	0.5	U	0.5	1	1
10335	1,1-Dichloroethene	75-35-4	0.5	U	0.5	1	1
10335	cis-1,2-Dichloroethene	156-59-2	0.5	U	0.5	1	1
10335	trans-1,2-Dichloroethene	156-60-5	0.5	U	0.5	1	1
10335	1,2-Dichloropropane	78-87-5	0.5	U	0.5	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	0.5	U	0.5	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	0.5	U	0.5	1	1
10335	Ethylbenzene	100-41-4	0.5	U	0.5	1	1
10335	2-Hexanone	591-78-6	3	U	3	10	1
10335	Methyl Iodide	74-88-4	0.5	U	0.5	1	1
10335	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1
10335	Methylene Chloride	75-09-2	2	U	2	4	1
10335	Styrene	100-42-5	1	U	1	5	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	0.5	U	0.5	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	0.5	U	0.5	1	1
10335	Tetrachloroethene	127-18-4	0.5	U	0.5	1	1
10335	Toluene	108-88-3	0.5	U	0.5	1	1
10335	1,1,1-Trichloroethane	71-55-6	0.5	U	0.5	1	1
10335	1,1,2-Trichloroethane	79-00-5	0.5	U	0.5	1	1
10335	Trichloroethene	79-01-6	0.5	U	0.5	1	1
10335	Trichlorofluoromethane	75-69-4	0.5	U	0.5	1	1
10335	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10335	Vinyl Acetate	108-05-4	2	U	2	10	1
10335	Vinyl Chloride	75-01-4	0.5	U	0.5	1	1
10335	Xylene (Total)	1330-20-7	0.5	U	0.5	1	1
GC/MS Semivolatiles	SW-846 8270D		ug/l		ug/l	ug/l	
13624	Acenaphthene	83-32-9	0.1	U	0.1	0.6	1

*=This limit was used in the evaluation of the final result

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Analysis Report

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Sample Description: ANLF15-MW-6 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824866
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 09:05

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF06

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles SW-846 8270D		ug/l		ug/l	ug/l	
13624	Acenaphthylene	208-96-8	0.1	U	0.1	0.6	1
13624	Anthracene	120-12-7	0.1	U	0.1	0.6	1
13624	Benzo(a)anthracene	56-55-3	0.1	U	0.1	0.6	1
13624	Benzo(a)pyrene	50-32-8	0.1	U	0.1	0.6	1
13624	Benzo(b)fluoranthene	205-99-2	0.1	U	0.1	0.6	1
13624	Benzo(g,h,i)perylene	191-24-2	0.1	U	0.1	0.6	1
13624	Benzo(k)fluoranthene	207-08-9	0.1	U	0.1	0.6	1
13624	1,1'-Biphenyl	92-52-4	0.6	U	0.6	1	1
13624	4-Bromophenyl-phenylether	101-55-3	0.6	U	0.6	1	1
13624	Butylbenzylphthalate	85-68-7	2	U	2	6	1
13624	Di-n-butylphthalate	84-74-2	2	U	2	6	1
13624	Carbazole	86-74-8	0.6	U	0.6	1	1
13624	4-Chloro-3-methylphenol	59-50-7	0.6	U	0.6	1	1
13624	4-Chloroaniline	106-47-8	0.6	U	0.6	1	1
13624	bis(2-Chloroethoxy)methane	111-91-1	0.6	U	0.6	1	1
13624	bis(2-Chloroethyl)ether	111-44-4	0.6	U	0.6	1	1
13624	2-Chloronaphthalene	91-58-7	0.4	U	0.4	1	1
13624	2-Chlorophenol	95-57-8	0.6	U	0.6	1	1
13624	4-Chlorophenyl-phenylether	7005-72-3	0.6	U	0.6	1	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	0.6	U	0.6	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
13624	Chrysene	218-01-9	0.1	U	0.1	0.6	1
13624	Dibenz(a,h)anthracene	53-70-3	0.1	U	0.1	0.6	1
13624	Dibenzofuran	132-64-9	0.6	U	0.6	1	1
13624	3,3'-Dichlorobenzidine	91-94-1	2	U	2	6	1
13624	2,4-Dichlorophenol	120-83-2	0.6	U	0.6	1	1
13624	Diethylphthalate	84-66-2	2	U	2	6	1
13624	2,4-Dimethylphenol	105-67-9	0.6	U	0.6	1	1
13624	Dimethylphthalate	131-11-3	2	U	2	6	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	6	U	6	17	1
13624	2,4-Dinitrophenol	51-28-5	11	U	11	33	1
13624	2,4-Dinitrotoluene	121-14-2	1	U	1	6	1
13624	2,6-Dinitrotoluene	606-20-2	0.6	U	0.6	1	1
13624	1,4-Dioxane	123-91-1	1	U	1	6	1
13624	Diphenyl ether	101-84-8	0.6	U	0.6	1	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	2	U	2	6	1
13624	Fluoranthene	206-44-0	0.1	U	0.1	0.6	1
13624	Fluorene	86-73-7	0.1	U	0.1	0.6	1
13624	Hexachlorobenzene	118-74-1	0.1	U	0.1	0.6	1
13624	Hexachlorobutadiene	87-68-3	0.6	U	0.6	1	1
13624	Hexachlorocyclopentadiene	77-47-4	6	U	6	17	1
13624	Hexachloroethane	67-72-1	1	U	1	6	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	0.1	U	0.1	0.6	1
13624	Isophorone	78-59-1	0.6	U	0.6	1	1
13624	2-Methylnaphthalene	91-57-6	0.1	U	0.1	0.6	1
13624	2-Methylphenol	95-48-7	0.6	U	0.6	1	1
13624	4-Methylphenol	106-44-5	0.6	U	0.6	1	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-6 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824866
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 09:05

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF06

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		**SW-846 8270D**	**ug/l**		**ug/l**	**ug/l**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
13624	Naphthalene	91-20-3	0.1	U	0.1	0.6	1
13624	2-Nitroaniline	88-74-4	0.6	U	0.6	1	1
13624	3-Nitroaniline	99-09-2	0.6	U	0.6	1	1
13624	4-Nitroaniline	100-01-6	0.6	U	0.6	1	1
13624	Nitrobenzene	98-95-3	0.6	U	0.6	1	1
13624	2-Nitrophenol	88-75-5	0.6	U	0.6	1	1
13624	4-Nitrophenol	100-02-7	11	U	11	33	1
13624	N-Nitroso-di-n-propylamine	621-64-7	0.6	U	0.6	1	1
13624	N-Nitrosodiphenylamine	86-30-6	0.6	U	0.6	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
13624	Di-n-octylphthalate	117-84-0	2	U	2	6	1
13624	Pentachlorophenol	87-86-5	1	U	1	6	1
13624	Phenanthrene	85-01-8	0.1	U	0.1	0.6	1
13624	Phenol	108-95-2	0.6	U	0.6	1	1
13624	Pyrene	129-00-0	0.1	U	0.1	0.6	1
13624	1,2,4-Trichlorobenzene	120-82-1	0.6	U	0.6	1	1
13624	2,4,5-Trichlorophenol	95-95-4	0.6	U	0.6	1	1
13624	2,4,6-Trichlorophenol	88-06-2	0.6	U	0.6	1	1
GC Miscellaneous		**SW-846 8015C Feb 2007 Rev 3**	**mg/l**		**mg/l**	**mg/l**	
12926	Diethylene glycol	111-46-6	8.0	U	8.0	10	1
12926	Ethylene glycol	107-21-1	8.0	U	8.0	10	1
12926	Triethylene glycol	112-27-6	8.0	U	8.0	10	1
GC Miscellaneous		**SW-846 8015C Feb 2007 Rev 3**	**ug/l**		**ug/l**	**ug/l**	
10603	Methanol	67-56-1	200	U	200	1,000	1
Metals		**SW-846 6010C**	**mg/l**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	0.0051	U	0.0051	0.0400	1
07035	Arsenic	7440-38-2	0.0072	U	0.0072	0.0400	1
07046	Barium	7440-39-3	0.0199		0.00033	0.0100	1
07049	Cadmium	7440-43-9	0.00033	U	0.00033	0.0100	1
07051	Chromium	7440-47-3	0.0025	J	0.0013	0.0300	1
07055	Lead	7439-92-1	0.0047	U	0.0047	0.0300	1
07036	Selenium	7782-49-2	0.0048	U	0.0048	0.0400	1
07066	Silver	7440-22-4	0.0018	U	0.0018	0.0100	1
		SW-846 7470A	**mg/l**		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000068	J	0.000050	0.00020	1
Wet Chemistry		**EPA 300.0**	**mg/l**		**mg/l**	**mg/l**	
00224	Chloride	16887-00-6	28.8		1.0	2.0	5

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-7 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824867
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 12:10

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF07

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles SW-846 8270D		ug/l		ug/l	ug/l	
13624	Acenaphthylene	208-96-8	0.1	U	0.1	0.6	1
13624	Anthracene	120-12-7	0.1	U	0.1	0.6	1
13624	Benzo(a)anthracene	56-55-3	0.1	U	0.1	0.6	1
13624	Benzo(a)pyrene	50-32-8	0.1	U	0.1	0.6	1
13624	Benzo(b)fluoranthene	205-99-2	0.1	U	0.1	0.6	1
13624	Benzo(g,h,i)perylene	191-24-2	0.1	U	0.1	0.6	1
13624	Benzo(k)fluoranthene	207-08-9	0.1	U	0.1	0.6	1
13624	1,1'-Biphenyl	92-52-4	0.6	U	0.6	1	1
13624	4-Bromophenyl-phenylether	101-55-3	0.6	U	0.6	1	1
13624	Butylbenzylphthalate	85-68-7	2	U	2	6	1
13624	Di-n-butylphthalate	84-74-2	2	U	2	6	1
13624	Carbazole	86-74-8	0.6	U	0.6	1	1
13624	4-Chloro-3-methylphenol	59-50-7	0.6	U	0.6	1	1
13624	4-Chloroaniline	106-47-8	0.6	U	0.6	1	1
13624	bis(2-Chloroethoxy)methane	111-91-1	0.6	U	0.6	1	1
13624	bis(2-Chloroethyl)ether	111-44-4	0.6	U	0.6	1	1
13624	2-Chloronaphthalene	91-58-7	0.4	U	0.4	1	1
13624	2-Chlorophenol	95-57-8	0.6	U	0.6	1	1
13624	4-Chlorophenyl-phenylether	7005-72-3	0.6	U	0.6	1	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	0.6	U	0.6	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
13624	Chrysene	218-01-9	0.1	U	0.1	0.6	1
13624	Dibenz(a,h)anthracene	53-70-3	0.1	U	0.1	0.6	1
13624	Dibenzofuran	132-64-9	0.6	U	0.6	1	1
13624	3,3'-Dichlorobenzidine	91-94-1	2	U	2	6	1
13624	2,4-Dichlorophenol	120-83-2	0.6	U	0.6	1	1
13624	Diethylphthalate	84-66-2	2	U	2	6	1
13624	2,4-Dimethylphenol	105-67-9	0.6	U	0.6	1	1
13624	Dimethylphthalate	131-11-3	2	U	2	6	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	6	U	6	17	1
13624	2,4-Dinitrophenol	51-28-5	11	U	11	34	1
13624	2,4-Dinitrotoluene	121-14-2	1	U	1	6	1
13624	2,6-Dinitrotoluene	606-20-2	0.6	U	0.6	1	1
13624	1,4-Dioxane	123-91-1	1	U	1	6	1
13624	Diphenyl ether	101-84-8	0.6	U	0.6	1	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	2	U	2	6	1
13624	Fluoranthene	206-44-0	0.1	U	0.1	0.6	1
13624	Fluorene	86-73-7	0.1	U	0.1	0.6	1
13624	Hexachlorobenzene	118-74-1	0.1	U	0.1	0.6	1
13624	Hexachlorobutadiene	87-68-3	0.6	U	0.6	1	1
13624	Hexachlorocyclopentadiene	77-47-4	6	U	6	17	1
13624	Hexachloroethane	67-72-1	1	U	1	6	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	0.1	U	0.1	0.6	1
13624	Isophorone	78-59-1	0.6	U	0.6	1	1
13624	2-Methylnaphthalene	91-57-6	0.1	U	0.1	0.6	1
13624	2-Methylphenol	95-48-7	0.6	U	0.6	1	1
13624	4-Methylphenol	106-44-5	0.6	U	0.6	1	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-7 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824867
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 12:10

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF07

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		**SW-846 8270D**	**ug/l**		**ug/l**	**ug/l**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
13624	Naphthalene	91-20-3	0.1	U	0.1	0.6	1
13624	2-Nitroaniline	88-74-4	0.6	U	0.6	1	1
13624	3-Nitroaniline	99-09-2	0.6	U	0.6	1	1
13624	4-Nitroaniline	100-01-6	0.6	U	0.6	1	1
13624	Nitrobenzene	98-95-3	0.6	U	0.6	1	1
13624	2-Nitrophenol	88-75-5	0.6	U	0.6	1	1
13624	4-Nitrophenol	100-02-7	11	U	11	34	1
13624	N-Nitroso-di-n-propylamine	621-64-7	0.6	U	0.6	1	1
13624	N-Nitrosodiphenylamine	86-30-6	0.6	U	0.6	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
13624	Di-n-octylphthalate	117-84-0	2	U	2	6	1
13624	Pentachlorophenol	87-86-5	1	U	1	6	1
13624	Phenanthrene	85-01-8	0.1	U	0.1	0.6	1
13624	Phenol	108-95-2	0.6	U	0.6	1	1
13624	Pyrene	129-00-0	0.1	U	0.1	0.6	1
13624	1,2,4-Trichlorobenzene	120-82-1	0.6	U	0.6	1	1
13624	2,4,5-Trichlorophenol	95-95-4	0.6	U	0.6	1	1
13624	2,4,6-Trichlorophenol	88-06-2	0.6	U	0.6	1	1
GC Miscellaneous		**SW-846 8015C Feb 2007 Rev 3**	**mg/l**		**mg/l**	**mg/l**	
12926	Diethylene glycol	111-46-6	8.0	U	8.0	10	1
12926	Ethylene glycol	107-21-1	8.0	U	8.0	10	1
12926	Triethylene glycol	112-27-6	8.0	U	8.0	10	1
GC Miscellaneous		**SW-846 8015C Feb 2007 Rev 3**	**ug/l**		**ug/l**	**ug/l**	
10603	Methanol	67-56-1	200	U	200	1,000	1
Metals		**SW-846 6010C**	**mg/l**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	0.0051	U	0.0051	0.0400	1
07035	Arsenic	7440-38-2	0.0072	U	0.0072	0.0400	1
07046	Barium	7440-39-3	0.0447		0.00033	0.0100	1
07049	Cadmium	7440-43-9	0.00033	U	0.00033	0.0100	1
07051	Chromium	7440-47-3	0.0013	J	0.0013	0.0300	1
07055	Lead	7439-92-1	0.0047	U	0.0047	0.0300	1
07036	Selenium	7782-49-2	0.0048	U	0.0048	0.0400	1
07066	Silver	7440-22-4	0.0018	U	0.0018	0.0100	1
		SW-846 7470A	**mg/l**		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000072	J	0.000050	0.00020	1
Wet Chemistry		**EPA 300.0**	**mg/l**		**mg/l**	**mg/l**	
00224	Chloride	16887-00-6	7.6		1.0	2.0	5

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-7 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824867
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 12:10

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF07

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/l		mg/l	mg/l	
01504	Fluoride	16984-48-8	0.25	U	0.25	0.50	5
00228	Sulfate	14808-79-8	9.7		1.5	5.0	5
	SM 2540 C-1997		mg/l		mg/l	mg/l	
00212	Total Dissolved Solids	n.a.	30.0		9.7	30.0	1

General Sample Comments

State of North Carolina Lab Certification No. 521

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10335	CAP Landfill Volatiles	SW-846 8260B	1	Y150971AA	04/07/2015	10:55	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y150971AA	04/07/2015	10:55	Stephanie A Selis	1
13624	10/92 SOW SV List +add'l cmpds	SW-846 8270D	1	15089WAE026	03/31/2015	16:05	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15089WAE026	03/30/2015	19:30	Nicholas W Shroyer	1
12926	3 Gylcol Compounds	SW-846 8015C Feb 2007 Rev 3	1	150910014A	04/01/2015	23:00	Tyler O Griffin	1
10603	Methanol	SW-846 8015C Feb 2007 Rev 3	1	150910035A	04/03/2015	00:44	Tyler O Griffin	1
07044	Antimony	SW-846 6010C	1	150900636002	04/01/2015	08:16	Joanne M Gates	1
07035	Arsenic	SW-846 6010C	1	150900636002	04/01/2015	08:16	Joanne M Gates	1
07046	Barium	SW-846 6010C	1	150900636002	04/01/2015	08:16	Joanne M Gates	1
07049	Cadmium	SW-846 6010C	1	150900636002	04/01/2015	08:16	Joanne M Gates	1
07051	Chromium	SW-846 6010C	1	150900636002	04/01/2015	08:16	Joanne M Gates	1
07055	Lead	SW-846 6010C	1	150900636002	04/01/2015	08:16	Joanne M Gates	1
07036	Selenium	SW-846 6010C	1	150900636002	04/01/2015	08:16	Joanne M Gates	1
07066	Silver	SW-846 6010C	1	150900636002	04/01/2015	08:16	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	150905713004	04/01/2015	08:34	Damary Valentin	1
10636	ICP-WW/TL, 3010A (tot) - U4	SW-846 3010A	1	150900636002	03/31/2015	21:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	150905713004	04/01/2015	01:00	Annamaria Kuhns	1
00224	Chloride	EPA 300.0	1	15092667131B	04/02/2015	19:00	Drew M Gerhart	5
01504	Fluoride	EPA 300.0	1	15092667131B	04/02/2015	19:00	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15092667131B	04/02/2015	19:00	Drew M Gerhart	5
00212	Total Dissolved Solids	SM 2540 C-1997	1	15091021201A	04/01/2015	06:07	Noah M Rainbow	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-22 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824868
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 17:05

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF22

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10335	Acetone	67-64-1	6	U	6	20	1
10335	Acrylonitrile	107-13-1	4	U	4	20	1
10335	Benzene	71-43-2	0.5	U	0.5	1	1
10335	Bromochloromethane	74-97-5	1	U	1	5	1
10335	Bromodichloromethane	75-27-4	0.5	U	0.5	1	1
10335	Bromoform	75-25-2	0.5	U	0.5	4	1
10335	Bromomethane	74-83-9	0.5	U	0.5	1	1
10335	2-Butanone	78-93-3	3	U	3	10	1
10335	Carbon Disulfide	75-15-0	1	U	1	5	1
10335	Carbon Tetrachloride	56-23-5	0.5	U	0.5	1	1
10335	Chlorobenzene	108-90-7	0.5	U	0.5	1	1
10335	Chloroethane	75-00-3	0.5	U	0.5	1	1
10335	Chloroform	67-66-3	0.5	U	0.5	1	1
10335	Chloromethane	74-87-3	0.5	U	0.5	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10335	Dibromochloromethane	124-48-1	0.5	U	0.5	1	1
10335	1,2-Dibromoethane	106-93-4	0.5	U	0.5	1	1
10335	Dibromomethane	74-95-3	0.5	U	0.5	1	1
10335	trans-1,4-Dichloro-2-butene	110-57-6	15	U	15	50	1
10335	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10335	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10335	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10335	1,1-Dichloroethane	75-34-3	0.5	U	0.5	1	1
10335	1,2-Dichloroethane	107-06-2	0.5	U	0.5	1	1
10335	1,1-Dichloroethene	75-35-4	0.5	U	0.5	1	1
10335	cis-1,2-Dichloroethene	156-59-2	0.5	U	0.5	1	1
10335	trans-1,2-Dichloroethene	156-60-5	0.5	U	0.5	1	1
10335	1,2-Dichloropropane	78-87-5	0.5	U	0.5	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	0.5	U	0.5	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	0.5	U	0.5	1	1
10335	Ethylbenzene	100-41-4	0.5	U	0.5	1	1
10335	2-Hexanone	591-78-6	3	U	3	10	1
10335	Methyl Iodide	74-88-4	0.5	U	0.5	1	1
10335	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1
10335	Methylene Chloride	75-09-2	2	U	2	4	1
10335	Styrene	100-42-5	1	U	1	5	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	0.5	U	0.5	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	0.5	U	0.5	1	1
10335	Tetrachloroethene	127-18-4	0.5	U	0.5	1	1
10335	Toluene	108-88-3	0.5	U	0.5	1	1
10335	1,1,1-Trichloroethane	71-55-6	0.5	U	0.5	1	1
10335	1,1,2-Trichloroethane	79-00-5	0.5	U	0.5	1	1
10335	Trichloroethene	79-01-6	0.5	U	0.5	1	1
10335	Trichlorofluoromethane	75-69-4	0.5	U	0.5	1	1
10335	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10335	Vinyl Acetate	108-05-4	2	U	2	10	1
10335	Vinyl Chloride	75-01-4	0.5	U	0.5	1	1
10335	Xylene (Total)	1330-20-7	0.5	U	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		ug/l		ug/l	ug/l	
13624	Acenaphthene	83-32-9	0.1	U	0.1	0.5	1

*=This limit was used in the evaluation of the final result

Sample Description: ANLF15-MW-22 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824868
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 17:05

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF22

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS	Semivolatiles SW-846 8270D		ug/l		ug/l	ug/l	
13624	Acenaphthylene	208-96-8	0.1	U	0.1	0.5	1
13624	Anthracene	120-12-7	0.1	U	0.1	0.5	1
13624	Benzo(a)anthracene	56-55-3	0.1	U	0.1	0.5	1
13624	Benzo(a)pyrene	50-32-8	0.1	U	0.1	0.5	1
13624	Benzo(b)fluoranthene	205-99-2	0.1	U	0.1	0.5	1
13624	Benzo(g,h,i)perylene	191-24-2	0.1	U	0.1	0.5	1
13624	Benzo(k)fluoranthene	207-08-9	0.1	U	0.1	0.5	1
13624	1,1'-Biphenyl	92-52-4	0.5	U	0.5	1	1
13624	4-Bromophenyl-phenylether	101-55-3	0.5	U	0.5	1	1
13624	Butylbenzylphthalate	85-68-7	2	U	2	5	1
13624	Di-n-butylphthalate	84-74-2	2	U	2	5	1
13624	Carbazole	86-74-8	0.5	U	0.5	1	1
13624	4-Chloro-3-methylphenol	59-50-7	0.5	U	0.5	1	1
13624	4-Chloroaniline	106-47-8	0.5	U	0.5	1	1
13624	bis(2-Chloroethoxy)methane	111-91-1	0.5	U	0.5	1	1
13624	bis(2-Chloroethyl)ether	111-44-4	0.5	U	0.5	1	1
13624	2-Chloronaphthalene	91-58-7	0.4	U	0.4	1	1
13624	2-Chlorophenol	95-57-8	0.5	U	0.5	1	1
13624	4-Chlorophenyl-phenylether	7005-72-3	0.5	U	0.5	1	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5	U	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
13624	Chrysene	218-01-9	0.1	U	0.1	0.5	1
13624	Dibenz(a,h)anthracene	53-70-3	0.1	U	0.1	0.5	1
13624	Dibenzofuran	132-64-9	0.5	U	0.5	1	1
13624	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5	1
13624	2,4-Dichlorophenol	120-83-2	0.5	U	0.5	1	1
13624	Diethylphthalate	84-66-2	2	U	2	5	1
13624	2,4-Dimethylphenol	105-67-9	0.5	U	0.5	1	1
13624	Dimethylphthalate	131-11-3	2	U	2	5	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16	1
13624	2,4-Dinitrophenol	51-28-5	11	U	11	33	1
13624	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1
13624	2,6-Dinitrotoluene	606-20-2	0.5	U	0.5	1	1
13624	1,4-Dioxane	123-91-1	1	U	1	5	1
13624	Diphenyl ether	101-84-8	0.5	U	0.5	1	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	2	U	2	5	1
13624	Fluoranthene	206-44-0	0.1	U	0.1	0.5	1
13624	Fluorene	86-73-7	0.1	U	0.1	0.5	1
13624	Hexachlorobenzene	118-74-1	0.1	U	0.1	0.5	1
13624	Hexachlorobutadiene	87-68-3	0.5	U	0.5	1	1
13624	Hexachlorocyclopentadiene	77-47-4	5	U	5	16	1
13624	Hexachloroethane	67-72-1	1	U	1	5	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	0.1	U	0.1	0.5	1
13624	Isophorone	78-59-1	0.5	U	0.5	1	1
13624	2-Methylnaphthalene	91-57-6	0.1	U	0.1	0.5	1
13624	2-Methylphenol	95-48-7	0.5	U	0.5	1	1
13624	4-Methylphenol	106-44-5	0.5	U	0.5	1	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-22 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824868
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 17:05

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF22

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		**SW-846 8270D**	**ug/l**		**ug/l**	**ug/l**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
13624	Naphthalene	91-20-3	0.1	U	0.1	0.5	1
13624	2-Nitroaniline	88-74-4	0.5	U	0.5	1	1
13624	3-Nitroaniline	99-09-2	0.5	U	0.5	1	1
13624	4-Nitroaniline	100-01-6	0.5	U	0.5	1	1
13624	Nitrobenzene	98-95-3	0.5	U	0.5	1	1
13624	2-Nitrophenol	88-75-5	0.5	U	0.5	1	1
13624	4-Nitrophenol	100-02-7	11	U	11	33	1
13624	N-Nitroso-di-n-propylamine	621-64-7	0.5	U	0.5	1	1
13624	N-Nitrosodiphenylamine	86-30-6	0.5	U	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
13624	Di-n-octylphthalate	117-84-0	2	U	2	5	1
13624	Pentachlorophenol	87-86-5	1	U	1	5	1
13624	Phenanthrene	85-01-8	0.1	U	0.1	0.5	1
13624	Phenol	108-95-2	0.5	U	0.5	1	1
13624	Pyrene	129-00-0	0.1	U	0.1	0.5	1
13624	1,2,4-Trichlorobenzene	120-82-1	0.5	U	0.5	1	1
13624	2,4,5-Trichlorophenol	95-95-4	0.5	U	0.5	1	1
13624	2,4,6-Trichlorophenol	88-06-2	0.5	U	0.5	1	1
GC Miscellaneous		**SW-846 8015C Feb 2007 Rev 3**	**mg/l**		**mg/l**	**mg/l**	
12926	Diethylene glycol	111-46-6	8.0	U	8.0	10	1
12926	Ethylene glycol	107-21-1	8.0	U	8.0	10	1
12926	Triethylene glycol	112-27-6	8.0	U	8.0	10	1
GC Miscellaneous		**SW-846 8015C Feb 2007 Rev 3**	**ug/l**		**ug/l**	**ug/l**	
10603	Methanol	67-56-1	200	U	200	1,000	1
Metals		**SW-846 6010C**	**mg/l**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	0.0051	U	0.0051	0.0400	1
07035	Arsenic	7440-38-2	0.0072	U	0.0072	0.0400	1
07046	Barium	7440-39-3	0.0051	J	0.00033	0.0100	1
07049	Cadmium	7440-43-9	0.00033	U	0.00033	0.0100	1
07051	Chromium	7440-47-3	0.0023	J	0.0013	0.0300	1
07055	Lead	7439-92-1	0.0047	U	0.0047	0.0300	1
07036	Selenium	7782-49-2	0.0048	U	0.0048	0.0400	1
07065	Silver	7440-22-4	0.0018	U	0.0018	0.0100	1
		SW-846 7470A	**mg/l**		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000073	J	0.000050	0.00020	1
Wet Chemistry		**EPA 300.0**	**mg/l**		**mg/l**	**mg/l**	
00224	Chloride	16887-00-6	3.6		1.0	2.0	5

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-22 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824868
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 17:05

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF22

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	
01504	Fluoride	16984-48-8	0.25	U	0.25	0.50	5
00228	Sulfate	14808-79-8	8.9		1.5	5.0	5
	SM 2540 C-1997		**mg/l**		**mg/l**	**mg/l**	
00212	Total Dissolved Solids	n.a.	132		9.7	30.0	1

General Sample Comments

State of North Carolina Lab Certification No. 521

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10335	CAP Landfill Volatiles	SW-846 8260B	1	Y150971AA	04/07/2015	11:16	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y150971AA	04/07/2015	11:16	Stephanie A Selis	1
13624	10/92 SOW SV List +add'l cmpds	SW-846 8270D	1	15089WAE026	03/31/2015	16:34	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15089WAE026	03/30/2015	19:30	Nicholas W Shroyer	1
12926	3 Gylcol Compounds	SW-846 8015C Feb 2007 Rev 3	1	150930012A	04/03/2015	20:37	Tyler O Griffin	1
10603	Methanol	SW-846 8015C Feb 2007 Rev 3	1	150910035A	04/03/2015	01:01	Tyler O Griffin	1
07044	Antimony	SW-846 6010C	1	150900636002	04/01/2015	08:20	Joanne M Gates	1
07035	Arsenic	SW-846 6010C	1	150900636002	04/01/2015	08:20	Joanne M Gates	1
07046	Barium	SW-846 6010C	1	150900636002	04/01/2015	08:20	Joanne M Gates	1
07049	Cadmium	SW-846 6010C	1	150900636002	04/01/2015	08:20	Joanne M Gates	1
07051	Chromium	SW-846 6010C	1	150900636002	04/01/2015	08:20	Joanne M Gates	1
07055	Lead	SW-846 6010C	1	150900636002	04/01/2015	08:20	Joanne M Gates	1
07036	Selenium	SW-846 6010C	1	150900636002	04/01/2015	08:20	Joanne M Gates	1
07066	Silver	SW-846 6010C	1	150900636002	04/01/2015	08:20	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	150905713004	04/01/2015	08:36	Damary Valentin	1
10636	ICP-WW/TL, 3010A (tot) - U4	SW-846 3010A	1	150900636002	03/31/2015	21:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	150905713004	04/01/2015	01:00	Annamaria Kuhns	1
00224	Chloride	EPA 300.0	1	15092667131B	04/02/2015	18:16	Drew M Gerhart	5
01504	Fluoride	EPA 300.0	1	15092667131B	04/02/2015	18:16	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15092667131B	04/02/2015	18:16	Drew M Gerhart	5
00212	Total Dissolved Solids	SM 2540 C-1997	1	15091021201A	04/01/2015	06:07	Noah M Rainbow	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-23 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824869
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 15:00

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF23

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10335	Acetone	67-64-1	7	J	6	20	1
10335	Acrylonitrile	107-13-1	4	U	4	20	1
10335	Benzene	71-43-2	0.5	U	0.5	1	1
10335	Bromochloromethane	74-97-5	1	U	1	5	1
10335	Bromodichloromethane	75-27-4	0.5	U	0.5	1	1
10335	Bromoform	75-25-2	0.5	U	0.5	4	1
10335	Bromomethane	74-83-9	0.5	U	0.5	1	1
10335	2-Butanone	78-93-3	3	U	3	10	1
10335	Carbon Disulfide	75-15-0	1	U	1	5	1
10335	Carbon Tetrachloride	56-23-5	0.5	U	0.5	1	1
10335	Chlorobenzene	108-90-7	0.5	U	0.5	1	1
10335	Chloroethane	75-00-3	0.5	U	0.5	1	1
10335	Chloroform	67-66-3	0.5	U	0.5	1	1
10335	Chloromethane	74-87-3	0.5	U	0.5	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10335	Dibromochloromethane	124-48-1	0.5	U	0.5	1	1
10335	1,2-Dibromoethane	106-93-4	0.5	U	0.5	1	1
10335	Dibromomethane	74-95-3	0.5	U	0.5	1	1
10335	trans-1,4-Dichloro-2-butene	110-57-6	15	U	15	50	1
10335	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10335	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10335	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10335	1,1-Dichloroethane	75-34-3	0.5	U	0.5	1	1
10335	1,2-Dichloroethane	107-06-2	0.5	U	0.5	1	1
10335	1,1-Dichloroethene	75-35-4	0.5	U	0.5	1	1
10335	cis-1,2-Dichloroethene	156-59-2	0.5	U	0.5	1	1
10335	trans-1,2-Dichloroethene	156-60-5	0.5	U	0.5	1	1
10335	1,2-Dichloropropane	78-87-5	0.5	U	0.5	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	0.5	U	0.5	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	0.5	U	0.5	1	1
10335	Ethylbenzene	100-41-4	0.5	U	0.5	1	1
10335	2-Hexanone	591-78-6	3	U	3	10	1
10335	Methyl Iodide	74-88-4	0.5	U	0.5	1	1
10335	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1
10335	Methylene Chloride	75-09-2	2	U	2	4	1
10335	Styrene	100-42-5	1	U	1	5	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	0.5	U	0.5	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	0.5	U	0.5	1	1
10335	Tetrachloroethene	127-18-4	0.5	U	0.5	1	1
10335	Toluene	108-88-3	0.5	U	0.5	1	1
10335	1,1,1-Trichloroethane	71-55-6	0.5	U	0.5	1	1
10335	1,1,2-Trichloroethane	79-00-5	0.5	U	0.5	1	1
10335	Trichloroethene	79-01-6	0.5	U	0.5	1	1
10335	Trichlorofluoromethane	75-69-4	0.5	U	0.5	1	1
10335	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10335	Vinyl Acetate	108-05-4	2	U	2	10	1
10335	Vinyl Chloride	75-01-4	0.5	U	0.5	1	1
10335	Xylene (Total)	1330-20-7	0.5	U	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		ug/l		ug/l	ug/l	
13624	Acenaphthene	83-32-9	0.1	U	0.1	0.6	1

*=This limit was used in the evaluation of the final result

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Analysis Report

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Sample Description: ANLF15-MW-23 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824869
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 15:00

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF23

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS	**Semivolatiles SW-846 8270D**		**ug/l**		**ug/l**	**ug/l**	
13624	Acenaphthylene	208-96-8	0.1	U	0.1	0.6	1
13624	Anthracene	120-12-7	0.1	U	0.1	0.6	1
13624	Benzo(a)anthracene	56-55-3	0.1	U	0.1	0.6	1
13624	Benzo(a)pyrene	50-32-8	0.1	U	0.1	0.6	1
13624	Benzo(b)fluoranthene	205-99-2	0.1	U	0.1	0.6	1
13624	Benzo(g,h,i)perylene	191-24-2	0.1	U	0.1	0.6	1
13624	Benzo(k)fluoranthene	207-08-9	0.1	U	0.1	0.6	1
13624	1,1'-Biphenyl	92-52-4	0.6	U	0.6	1	1
13624	4-Bromophenyl-phenylether	101-55-3	0.6	U	0.6	1	1
13624	Butylbenzylphthalate	85-68-7	2	U	2	6	1
13624	Di-n-butylphthalate	84-74-2	2	U	2	6	1
13624	Carbazole	86-74-8	0.6	U	0.6	1	1
13624	4-Chloro-3-methylphenol	59-50-7	0.6	U	0.6	1	1
13624	4-Chloroaniline	106-47-8	0.6	U	0.6	1	1
13624	bis(2-Chloroethoxy)methane	111-91-1	0.6	U	0.6	1	1
13624	bis(2-Chloroethyl)ether	111-44-4	0.6	U	0.6	1	1
13624	2-Chloronaphthalene	91-58-7	0.5	U	0.5	1	1
13624	2-Chlorophenol	95-57-8	0.6	U	0.6	1	1
13624	4-Chlorophenyl-phenylether	7005-72-3	0.6	U	0.6	1	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	0.6	U	0.6	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
13624	Chrysene	218-01-9	0.1	U	0.1	0.6	1
13624	Dibenz(a,h)anthracene	53-70-3	0.1	U	0.1	0.6	1
13624	Dibenzofuran	132-64-9	0.6	U	0.6	1	1
13624	3,3'-Dichlorobenzidine	91-94-1	2	U	2	6	1
13624	2,4-Dichlorophenol	120-83-2	0.6	U	0.6	1	1
13624	Diethylphthalate	84-66-2	2	U	2	6	1
13624	2,4-Dimethylphenol	105-67-9	0.6	U	0.6	1	1
13624	Dimethylphthalate	131-11-3	2	U	2	6	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	6	U	6	18	1
13624	2,4-Dinitrophenol	51-28-5	12	U	12	35	1
13624	2,4-Dinitrotoluene	121-14-2	1	U	1	6	1
13624	2,6-Dinitrotoluene	606-20-2	0.6	U	0.6	1	1
13624	1,4-Dioxane	123-91-1	2	J	1	6	1
13624	Diphenyl ether	101-84-8	0.6	U	0.6	1	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	2	U	2	6	1
13624	Fluoranthene	206-44-0	0.1	U	0.1	0.6	1
13624	Fluorene	86-73-7	0.1	U	0.1	0.6	1
13624	Hexachlorobenzene	118-74-1	0.1	U	0.1	0.6	1
13624	Hexachlorobutadiene	87-68-3	0.6	U	0.6	1	1
13624	Hexachlorocyclopentadiene	77-47-4	6	U	6	18	1
13624	Hexachloroethane	67-72-1	1	U	1	6	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	0.1	U	0.1	0.6	1
13624	Isophorone	78-59-1	0.6	U	0.6	1	1
13624	2-Methylnaphthalene	91-57-6	0.1	U	0.1	0.6	1
13624	2-Methylphenol	95-48-7	0.6	U	0.6	1	1
13624	4-Methylphenol	106-44-5	0.6	U	0.6	1	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-23 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824869
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 15:00

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF23

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		**SW-846 8270D**	**ug/l**		**ug/l**	**ug/l**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
13624	Naphthalene	91-20-3	0.1	U	0.1	0.6	1
13624	2-Nitroaniline	88-74-4	0.6	U	0.6	1	1
13624	3-Nitroaniline	99-09-2	0.6	U	0.6	1	1
13624	4-Nitroaniline	100-01-6	0.6	U	0.6	1	1
13624	Nitrobenzene	98-95-3	0.6	U	0.6	1	1
13624	2-Nitrophenol	88-75-5	0.6	U	0.6	1	1
13624	4-Nitrophenol	100-02-7	12	U	12	35	1
13624	N-Nitroso-di-n-propylamine	621-64-7	0.6	U	0.6	1	1
13624	N-Nitrosodiphenylamine	86-30-6	0.6	U	0.6	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
13624	Di-n-octylphthalate	117-84-0	2	U	2	6	1
13624	Pentachlorophenol	87-86-5	1	U	1	6	1
13624	Phenanthrene	85-01-8	0.1	U	0.1	0.6	1
13624	Phenol	108-95-2	0.6	U	0.6	1	1
13624	Pyrene	129-00-0	0.1	U	0.1	0.6	1
13624	1,2,4-Trichlorobenzene	120-82-1	0.6	U	0.6	1	1
13624	2,4,5-Trichlorophenol	95-95-4	0.6	U	0.6	1	1
13624	2,4,6-Trichlorophenol	88-06-2	0.6	U	0.6	1	1
GC Miscellaneous		**SW-846 8015C Feb 2007 Rev 3**	**mg/l**		**mg/l**	**mg/l**	
12926	Diethylene glycol	111-46-6	8.0	U	8.0	10	1
12926	Ethylene glycol	107-21-1	8.0	U	8.0	10	1
12926	Triethylene glycol	112-27-6	8.0	U	8.0	10	1
GC Miscellaneous		**SW-846 8015C Feb 2007 Rev 3**	**ug/l**		**ug/l**	**ug/l**	
10603	Methanol	67-56-1	200	U	200	1,000	1
Metals		**SW-846 6010C**	**mg/l**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	0.0051	U	0.0051	0.0400	1
07035	Arsenic	7440-38-2	0.0072	U	0.0072	0.0400	1
07046	Barium	7440-39-3	0.230		0.00033	0.0100	1
07049	Cadmium	7440-43-9	0.00033	U	0.00033	0.0100	1
07051	Chromium	7440-47-3	0.0033	J	0.0013	0.0300	1
07055	Lead	7439-92-1	0.0047	U	0.0047	0.0300	1
07036	Selenium	7782-49-2	0.0048	U	0.0048	0.0400	1
07066	Silver	7440-22-4	0.0018	U	0.0018	0.0100	1
		SW-846 7470A	**mg/l**		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000071	J	0.000050	0.00020	1
Wet Chemistry		**EPA 300.0**	**mg/l**		**mg/l**	**mg/l**	
00224	Chloride	16887-00-6	121		10.0	20.0	50

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-23 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824869
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 15:00

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF23

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		**mg/l**		**mg/l**	**mg/l**	
01504	Fluoride	16984-48-8	0.25	U	0.25	0.50	5
00228	Sulfate	14808-79-8	1.5	U	1.5	5.0	5
	SM 2540 C-1997		**mg/l**		**mg/l**	**mg/l**	
00212	Total Dissolved Solids	n.a.	598		19.4	60.0	1

General Sample Comments

State of North Carolina Lab Certification No. 521

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10335	CAP Landfill Volatiles	SW-846 8260B	1	Y150981AA	04/08/2015	04:52	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y150981AA	04/08/2015	04:52	Stephanie A Selis	1
13624	10/92 SOW SV List +add'l cmpds	SW-846 8270D	1	15089WAE026	03/31/2015	17:03	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15089WAE026	03/30/2015	19:30	Nicholas W Shroyer	1
12926	3 Gylcol Compounds	SW-846 8015C Feb 2007 Rev 3	1	150910014A	04/01/2015	23:30	Tyler O Griffin	1
10603	Methanol	SW-846 8015C Feb 2007 Rev 3	1	150910035A	04/02/2015	21:05	Tyler O Griffin	1
07044	Antimony	SW-846 6010C	1	150900636002	04/01/2015	08:23	Joanne M Gates	1
07035	Arsenic	SW-846 6010C	1	150900636002	04/01/2015	08:23	Joanne M Gates	1
07046	Barium	SW-846 6010C	1	150900636002	04/01/2015	08:23	Joanne M Gates	1
07049	Cadmium	SW-846 6010C	1	150900636002	04/01/2015	08:23	Joanne M Gates	1
07051	Chromium	SW-846 6010C	1	150900636002	04/01/2015	08:23	Joanne M Gates	1
07055	Lead	SW-846 6010C	1	150900636002	04/01/2015	08:23	Joanne M Gates	1
07036	Selenium	SW-846 6010C	1	150900636002	04/01/2015	08:23	Joanne M Gates	1
07066	Silver	SW-846 6010C	1	150900636002	04/01/2015	08:23	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	150905713004	04/01/2015	08:38	Damary Valentin	1
10636	ICP-WW/TL, 3010A (tot) - U4	SW-846 3010A	1	150900636002	03/31/2015	21:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	150905713004	04/01/2015	01:00	Annamaria Kuhns	1
00224	Chloride	EPA 300.0	1	15092667131A	04/05/2015	09:13	Clinton M Wilson	50
01504	Fluoride	EPA 300.0	1	15092667131A	04/02/2015	17:46	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15092667131A	04/02/2015	17:46	Drew M Gerhart	5
00212	Total Dissolved Solids	SM 2540 C-1997	1	15091021201B	04/01/2015	06:07	Noah M Rainbow	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-24 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824870
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 16:00

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF24

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10335	Acetone	67-64-1	6	U	6	20	1
10335	Acrylonitrile	107-13-1	4	U	4	20	1
10335	Benzene	71-43-2	0.5	U	0.5	1	1
10335	Bromochloromethane	74-97-5	1	U	1	5	1
10335	Bromodichloromethane	75-27-4	0.5	U	0.5	1	1
10335	Bromoform	75-25-2	0.5	U	0.5	4	1
10335	Bromomethane	74-83-9	0.5	U	0.5	1	1
10335	2-Butanone	78-93-3	3	U	3	10	1
10335	Carbon Disulfide	75-15-0	1	U	1	5	1
10335	Carbon Tetrachloride	56-23-5	0.5	U	0.5	1	1
10335	Chlorobenzene	108-90-7	0.5	U	0.5	1	1
10335	Chloroethane	75-00-3	0.5	U	0.5	1	1
10335	Chloroform	67-66-3	0.5	U	0.5	1	1
10335	Chloromethane	74-87-3	0.5	U	0.5	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10335	Dibromochloromethane	124-48-1	0.5	U	0.5	1	1
10335	1,2-Dibromoethane	106-93-4	0.5	U	0.5	1	1
10335	Dibromomethane	74-95-3	0.5	U	0.5	1	1
10335	trans-1,4-Dichloro-2-butene	110-57-6	15	U	15	50	1
10335	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10335	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10335	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10335	1,1-Dichloroethane	75-34-3	0.5	U	0.5	1	1
10335	1,2-Dichloroethane	107-06-2	0.5	U	0.5	1	1
10335	1,1-Dichloroethene	75-35-4	0.5	U	0.5	1	1
10335	cis-1,2-Dichloroethene	156-59-2	0.5	U	0.5	1	1
10335	trans-1,2-Dichloroethene	156-60-5	0.5	U	0.5	1	1
10335	1,2-Dichloropropane	78-87-5	0.5	U	0.5	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	0.5	U	0.5	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	0.5	U	0.5	1	1
10335	Ethylbenzene	100-41-4	0.5	U	0.5	1	1
10335	2-Hexanone	591-78-6	3	U	3	10	1
10335	Methyl Iodide	74-88-4	0.5	U	0.5	1	1
10335	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1
10335	Methylene Chloride	75-09-2	2	U	2	4	1
10335	Styrene	100-42-5	1	U	1	5	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	0.5	U	0.5	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	0.5	U	0.5	1	1
10335	Tetrachloroethene	127-18-4	0.5	U	0.5	1	1
10335	Toluene	108-88-3	0.5	U	0.5	1	1
10335	1,1,1-Trichloroethane	71-55-6	0.5	U	0.5	1	1
10335	1,1,2-Trichloroethane	79-00-5	0.5	U	0.5	1	1
10335	Trichloroethene	79-01-6	0.5	U	0.5	1	1
10335	Trichlorofluoromethane	75-69-4	0.5	U	0.5	1	1
10335	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10335	Vinyl Acetate	108-05-4	2	U	2	10	1
10335	Vinyl Chloride	75-01-4	0.5	U	0.5	1	1
10335	Xylene (Total)	1330-20-7	0.5	U	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		ug/l		ug/l	ug/l	
13624	Acenaphthene	83-32-9	0.1	J	0.1	0.6	1

*=This limit was used in the evaluation of the final result

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Analysis Report

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Sample Description: ANLF15-MW-24 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824870
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 16:00

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF24

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS	**Semivolatiles SW-846 8270D**		ug/l		ug/l	ug/l	
13624	Acenaphthylene	208-96-8	0.1	U	0.1	0.6	1
13624	Anthracene	120-12-7	0.1	U	0.1	0.6	1
13624	Benzo(a)anthracene	56-55-3	0.1	U	0.1	0.6	1
13624	Benzo(a)pyrene	50-32-8	0.1	U	0.1	0.6	1
13624	Benzo(b)fluoranthene	205-99-2	0.1	U	0.1	0.6	1
13624	Benzo(g,h,i)perylene	191-24-2	0.1	U	0.1	0.6	1
13624	Benzo(k)fluoranthene	207-08-9	0.1	U	0.1	0.6	1
13624	1,1'-Biphenyl	92-52-4	0.6	U	0.6	1	1
13624	4-Bromophenyl-phenylether	101-55-3	0.6	U	0.6	1	1
13624	Butylbenzylphthalate	85-68-7	2	U	2	6	1
13624	Di-n-butylphthalate	84-74-2	2	U	2	6	1
13624	Carbazole	86-74-8	0.6	U	0.6	1	1
13624	4-Chloro-3-methylphenol	59-50-7	0.6	U	0.6	1	1
13624	4-Chloroaniline	106-47-8	0.6	U	0.6	1	1
13624	bis(2-Chloroethoxy)methane	111-91-1	0.6	U	0.6	1	1
13624	bis(2-Chloroethyl)ether	111-44-4	0.6	U	0.6	1	1
13624	2-Chloronaphthalene	91-58-7	0.5	U	0.5	1	1
13624	2-Chlorophenol	95-57-8	0.6	U	0.6	1	1
13624	4-Chlorophenyl-phenylether	7005-72-3	0.6	U	0.6	1	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	0.6	U	0.6	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
13624	Chrysene	218-01-9	0.1	U	0.1	0.6	1
13624	Dibenz(a,h)anthracene	53-70-3	0.1	U	0.1	0.6	1
13624	Dibenzofuran	132-64-9	0.6	U	0.6	1	1
13624	3,3'-Dichlorobenzidine	91-94-1	2	U	2	6	1
13624	2,4-Dichlorophenol	120-83-2	0.6	U	0.6	1	1
13624	Diethylphthalate	84-66-2	2	U	2	6	1
13624	2,4-Dimethylphenol	105-67-9	0.6	U	0.6	1	1
13624	Dimethylphthalate	131-11-3	2	U	2	6	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	6	U	6	17	1
13624	2,4-Dinitrophenol	51-28-5	11	U	11	34	1
13624	2,4-Dinitrotoluene	121-14-2	1	U	1	6	1
13624	2,6-Dinitrotoluene	606-20-2	0.6	U	0.6	1	1
13624	1,4-Dioxane	123-91-1	1	U	1	6	1
13624	Diphenyl ether	101-84-8	0.6	U	0.6	1	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	2	U	2	6	1
13624	Fluoranthene	206-44-0	0.1	U	0.1	0.6	1
13624	Fluorene	86-73-7	0.1	U	0.1	0.6	1
13624	Hexachlorobenzene	118-74-1	0.1	U	0.1	0.6	1
13624	Hexachlorobutadiene	87-68-3	0.6	U	0.6	1	1
13624	Hexachlorocyclopentadiene	77-47-4	6	U	6	17	1
13624	Hexachloroethane	67-72-1	1	U	1	6	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	0.1	U	0.1	0.6	1
13624	Isophorone	78-59-1	0.6	U	0.6	1	1
13624	2-Methylnaphthalene	91-57-6	0.1	U	0.1	0.6	1
13624	2-Methylphenol	95-48-7	0.6	U	0.6	1	1
13624	4-Methylphenol	106-44-5	0.6	U	0.6	1	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-24 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824870
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 16:00

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF24

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles		**SW-846 8270D**	**ug/l**		**ug/l**	**ug/l**	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
13624	Naphthalene	91-20-3	0.1	U	0.1	0.6	1
13624	2-Nitroaniline	88-74-4	0.6	U	0.6	1	1
13624	3-Nitroaniline	99-09-2	0.6	U	0.6	1	1
13624	4-Nitroaniline	100-01-6	0.6	U	0.6	1	1
13624	Nitrobenzene	98-95-3	0.6	U	0.6	1	1
13624	2-Nitrophenol	88-75-5	0.6	U	0.6	1	1
13624	4-Nitrophenol	100-02-7	11	U	11	34	1
13624	N-Nitroso-di-n-propylamine	621-64-7	0.6	U	0.6	1	1
13624	N-Nitrosodiphenylamine	86-30-6	0.6	U	0.6	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
13624	Di-n-octylphthalate	117-84-0	2	U	2	6	1
13624	Pentachlorophenol	87-86-5	1	U	1	6	1
13624	Phenanthrene	85-01-8	0.2	J	0.1	0.6	1
13624	Phenol	108-95-2	0.6	U	0.6	1	1
13624	Pyrene	129-00-0	0.1	U	0.1	0.6	1
13624	1,2,4-Trichlorobenzene	120-82-1	0.6	U	0.6	1	1
13624	2,4,5-Trichlorophenol	95-95-4	0.6	U	0.6	1	1
13624	2,4,6-Trichlorophenol	88-06-2	0.6	U	0.6	1	1
GC Miscellaneous		**SW-846 8015C Feb 2007 Rev 3**	**mg/l**		**mg/l**	**mg/l**	
12926	Diethylene glycol	111-46-6	8.0	U	8.0	10	1
12926	Ethylene glycol	107-21-1	8.0	U	8.0	10	1
12926	Triethylene glycol	112-27-6	8.0	U	8.0	10	1
GC Miscellaneous		**SW-846 8015C Feb 2007 Rev 3**	**ug/l**		**ug/l**	**ug/l**	
10603	Methanol	67-56-1	200	U	200	1,000	1
Metals		**SW-846 6010C**	**mg/l**		**mg/l**	**mg/l**	
07044	Antimony	7440-36-0	0.0051	U	0.0051	0.0400	1
07035	Arsenic	7440-38-2	0.0072	U	0.0072	0.0400	1
07046	Barium	7440-39-3	0.212		0.00033	0.0100	1
07049	Cadmium	7440-43-9	0.00033	U	0.00033	0.0100	1
07051	Chromium	7440-47-3	0.0042	J	0.0013	0.0300	1
07055	Lead	7439-92-1	0.0047	U	0.0047	0.0300	1
07036	Selenium	7782-49-2	0.0048	U	0.0048	0.0400	1
07066	Silver	7440-22-4	0.0018	U	0.0018	0.0100	1
		SW-846 7470A	**mg/l**		**mg/l**	**mg/l**	
00259	Mercury	7439-97-6	0.000072	J	0.000050	0.00020	1
Wet Chemistry		**EPA 300.0**	**mg/l**		**mg/l**	**mg/l**	
00224	Chloride	16887-00-6	60.0		4.0	8.0	20

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: ANLF15-MW-24 Groundwater
LANDFILL ANNUAL 15

LL Sample # WW 7824870
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/25/2015 16:00

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPF24

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/l		mg/l	mg/l	
01504	Fluoride	16984-48-8	0.25	U	0.25	0.50	5
00228	Sulfate	14808-79-8	1.5	U	1.5	5.0	5
	SM 2540 C-1997		mg/l		mg/l	mg/l	
00212	Total Dissolved Solids	n.a.	386		9.7	30.0	1

General Sample Comments

State of North Carolina Lab Certification No. 521

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10335	CAP Landfill Volatiles	SW-846 8260B	1	Y150981AA	04/08/2015	05:35	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y150981AA	04/08/2015	05:35	Stephanie A Selis	1
13624	10/92 SOW SV List +add'l cmpds	SW-846 8270D	1	15089WAE026	03/31/2015	17:32	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15089WAE026	03/30/2015	19:30	Nicholas W Shroyer	1
12926	3 Gylcol Compounds	SW-846 8015C Feb 2007 Rev 3	1	150910014A	04/01/2015	23:44	Tyler O Griffin	1
10603	Methanol	SW-846 8015C Feb 2007 Rev 3	1	150910035A	04/02/2015	21:22	Tyler O Griffin	1
07044	Antimony	SW-846 6010C	1	150900636002	04/01/2015	08:26	Joanne M Gates	1
07035	Arsenic	SW-846 6010C	1	150900636002	04/01/2015	08:26	Joanne M Gates	1
07046	Barium	SW-846 6010C	1	150900636002	04/01/2015	08:26	Joanne M Gates	1
07049	Cadmium	SW-846 6010C	1	150900636002	04/01/2015	08:26	Joanne M Gates	1
07051	Chromium	SW-846 6010C	1	150900636002	04/01/2015	08:26	Joanne M Gates	1
07055	Lead	SW-846 6010C	1	150900636002	04/01/2015	08:26	Joanne M Gates	1
07036	Selenium	SW-846 6010C	1	150900636002	04/01/2015	08:26	Joanne M Gates	1
07066	Silver	SW-846 6010C	1	150900636002	04/01/2015	08:26	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	150905713004	04/01/2015	08:40	Damary Valentin	1
10636	ICP-WW/TL, 3010A (tot) - U4	SW-846 3010A	1	150900636002	03/31/2015	21:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	150905713004	04/01/2015	01:00	Annamaria Kuhns	1
00224	Chloride	EPA 300.0	1	15092667131A	04/05/2015	09:28	Clinton M Wilson	20
01504	Fluoride	EPA 300.0	1	15092667131A	04/02/2015	18:01	Drew M Gerhart	5
00228	Sulfate	EPA 300.0	1	15092667131A	04/02/2015	18:01	Drew M Gerhart	5
00212	Total Dissolved Solids	SM 2540 C-1997	1	15091021201A	04/01/2015	06:07	Noah M Rainbow	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TB-03262015 Blank Water
LANDFILL ANNUAL 15

LL Sample # WW 7824871
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/26/2015 10:15

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPFTB

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	SW-846 8260B		ug/l		ug/l	ug/l	
10335	Acetone	67-64-1	6	U	6	20	1
10335	Acrylonitrile	107-13-1	4	U	4	20	1
10335	Benzene	71-43-2	0.5	U	0.5	1	1
10335	Bromochloromethane	74-97-5	1	U	1	5	1
10335	Bromodichloromethane	75-27-4	0.5	U	0.5	1	1
10335	Bromoform	75-25-2	0.5	U	0.5	4	1
10335	Bromomethane	74-83-9	0.5	U	0.5	1	1
10335	2-Butanone	78-93-3	3	U	3	10	1
10335	Carbon Disulfide	75-15-0	1	U	1	5	1
10335	Carbon Tetrachloride	56-23-5	0.5	U	0.5	1	1
10335	Chlorobenzene	108-90-7	0.5	U	0.5	1	1
10335	Chloroethane	75-00-3	0.5	U	0.5	1	1
10335	Chloroform	67-66-3	0.5	U	0.5	1	1
10335	Chloromethane	74-87-3	0.5	U	0.5	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10335	Dibromochloromethane	124-48-1	0.5	U	0.5	1	1
10335	1,2-Dibromoethane	106-93-4	0.5	U	0.5	1	1
10335	Dibromomethane	74-95-3	0.5	U	0.5	1	1
10335	trans-1,4-Dichloro-2-butene	110-57-6	15	U	15	50	1
10335	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10335	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10335	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10335	1,1-Dichloroethane	75-34-3	0.5	U	0.5	1	1
10335	1,2-Dichloroethane	107-06-2	0.5	U	0.5	1	1
10335	1,1-Dichloroethene	75-35-4	0.5	U	0.5	1	1
10335	cis-1,2-Dichloroethene	156-59-2	0.5	U	0.5	1	1
10335	trans-1,2-Dichloroethene	156-60-5	0.5	U	0.5	1	1
10335	1,2-Dichloropropane	78-87-5	0.5	U	0.5	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	0.5	U	0.5	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	0.5	U	0.5	1	1
10335	Ethylbenzene	100-41-4	0.5	U	0.5	1	1
10335	2-Hexanone	591-78-6	3	U	3	10	1
10335	Methyl Iodide	74-88-4	0.5	U	0.5	1	1
10335	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1
10335	Methylene Chloride	75-09-2	2	U	2	4	1
10335	Styrene	100-42-5	1	U	1	5	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	0.5	U	0.5	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	0.5	U	0.5	1	1
10335	Tetrachloroethene	127-18-4	0.5	U	0.5	1	1
10335	Toluene	108-88-3	0.5	U	0.5	1	1
10335	1,1,1-Trichloroethane	71-55-6	0.5	U	0.5	1	1
10335	1,1,2-Trichloroethane	79-00-5	0.5	U	0.5	1	1
10335	Trichloroethene	79-01-6	0.5	U	0.5	1	1
10335	Trichlorofluoromethane	75-69-4	0.5	U	0.5	1	1
10335	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10335	Vinyl Acetate	108-05-4	2	U	2	10	1
10335	Vinyl Chloride	75-01-4	0.5	U	0.5	1	1
10335	Xylene (Total)	1330-20-7	0.5	U	0.5	1	1

*=This limit was used in the evaluation of the final result

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Analysis Report

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Sample Description: EB-03262015 Blank Water
LANDFILL ANNUAL 15

LL Sample # WW 7824872
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/26/2015 08:45

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPFEB

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		**ug/l**		**ug/l**	**ug/l**	
13624	Acenaphthylene	208-96-8	0.1	U	0.1	0.5	1
13624	Anthracene	120-12-7	0.1	U	0.1	0.5	1
13624	Benzo(a)anthracene	56-55-3	0.1	U	0.1	0.5	1
13624	Benzo(a)pyrene	50-32-8	0.1	U	0.1	0.5	1
13624	Benzo(b)fluoranthene	205-99-2	0.1	U	0.1	0.5	1
13624	Benzo(g,h,i)perylene	191-24-2	0.1	U	0.1	0.5	1
13624	Benzo(k)fluoranthene	207-08-9	0.1	U	0.1	0.5	1
13624	1,1'-Biphenyl	92-52-4	0.5	U	0.5	1	1
13624	4-Bromophenyl-phenylether	101-55-3	0.5	U	0.5	1	1
13624	Butylbenzylphthalate	85-68-7	2	U	2	5	1
13624	Di-n-butylphthalate	84-74-2	2	U	2	5	1
13624	Carbazole	86-74-8	0.5	U	0.5	1	1
13624	4-Chloro-3-methylphenol	59-50-7	0.5	U	0.5	1	1
13624	4-Chloroaniline	106-47-8	0.5	U	0.5	1	1
13624	bis(2-Chloroethoxy)methane	111-91-1	0.5	U	0.5	1	1
13624	bis(2-Chloroethyl)ether	111-44-4	0.5	U	0.5	1	1
13624	2-Chloronaphthalene	91-58-7	0.4	U	0.4	1	1
13624	2-Chlorophenol	95-57-8	0.5	U	0.5	1	1
13624	4-Chlorophenyl-phenylether	7005-72-3	0.5	U	0.5	1	1
13624	2,2'-oxybis(1-Chloropropane)	108-60-1	0.5	U	0.5	1	1
	Bis(2-chloroisopropyl) ether CAS #39638-32-9 and 2,2'-Oxybis(1-chloropropane) CAS #108-60-1 cannot be separated chromatographically. The reported result represents the combined total of both compounds.						
13624	Chrysene	218-01-9	0.1	U	0.1	0.5	1
13624	Dibenz(a,h)anthracene	53-70-3	0.1	U	0.1	0.5	1
13624	Dibenzofuran	132-64-9	0.5	U	0.5	1	1
13624	3,3'-Dichlorobenzidine	91-94-1	2	U	2	5	1
13624	2,4-Dichlorophenol	120-83-2	0.5	U	0.5	1	1
13624	Diethylphthalate	84-66-2	2	U	2	5	1
13624	2,4-Dimethylphenol	105-67-9	0.5	U	0.5	1	1
13624	Dimethylphthalate	131-11-3	2	U	2	5	1
13624	4,6-Dinitro-2-methylphenol	534-52-1	5	U	5	16	1
13624	2,4-Dinitrophenol	51-28-5	11	U	11	32	1
13624	2,4-Dinitrotoluene	121-14-2	1	U	1	5	1
13624	2,6-Dinitrotoluene	606-20-2	0.5	U	0.5	1	1
13624	1,4-Dioxane	123-91-1	1	U	1	5	1
13624	Diphenyl ether	101-84-8	0.5	U	0.5	1	1
13624	bis(2-Ethylhexyl)phthalate	117-81-7	2	U	2	5	1
13624	Fluoranthene	206-44-0	0.1	U	0.1	0.5	1
13624	Fluorene	86-73-7	0.1	U	0.1	0.5	1
13624	Hexachlorobenzene	118-74-1	0.1	U	0.1	0.5	1
13624	Hexachlorobutadiene	87-68-3	0.5	U	0.5	1	1
13624	Hexachlorocyclopentadiene	77-47-4	5	U	5	16	1
13624	Hexachloroethane	67-72-1	1	U	1	5	1
13624	Indeno(1,2,3-cd)pyrene	193-39-5	0.1	U	0.1	0.5	1
13624	Isophorone	78-59-1	0.5	U	0.5	1	1
13624	2-Methylnaphthalene	91-57-6	0.1	U	0.1	0.5	1
13624	2-Methylphenol	95-48-7	0.5	U	0.5	1	1
13624	4-Methylphenol	106-44-5	0.5	U	0.5	1	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: EB-03262015 Blank Water
LANDFILL ANNUAL 15

LL Sample # WW 7824872
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/26/2015 08:45

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPFEB

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Semivolatiles	**SW-846 8270D**		ug/l		ug/l	ug/l	
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
13624	Naphthalene	91-20-3	0.1	U	0.1	0.5	1
13624	2-Nitroaniline	88-74-4	0.5	U	0.5	1	1
13624	3-Nitroaniline	99-09-2	0.5	U	0.5	1	1
13624	4-Nitroaniline	100-01-6	0.5	U	0.5	1	1
13624	Nitrobenzene	98-95-3	0.5	U	0.5	1	1
13624	2-Nitrophenol	88-75-5	0.5	U	0.5	1	1
13624	4-Nitrophenol	100-02-7	11	U	11	32	1
13624	N-Nitroso-di-n-propylamine	621-64-7	0.5	U	0.5	1	1
13624	N-Nitrosodiphenylamine	86-30-6	0.5	U	0.5	1	1
	N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
13624	Di-n-octylphthalate	117-84-0	2	U	2	5	1
13624	Pentachlorophenol	87-86-5	1	U	1	5	1
13624	Phenanthrene	85-01-8	0.1	U	0.1	0.5	1
13624	Phenol	108-95-2	0.5	U	0.5	1	1
13624	Pyrene	129-00-0	0.1	U	0.1	0.5	1
13624	1,2,4-Trichlorobenzene	120-82-1	0.5	U	0.5	1	1
13624	2,4,5-Trichlorophenol	95-95-4	0.5	U	0.5	1	1
13624	2,4,6-Trichlorophenol	88-06-2	0.5	U	0.5	1	1
GC Miscellaneous	**SW-846 8015C Feb 2007 Rev 3**		mg/l		mg/l	mg/l	
12926	Diethylene glycol	111-46-6	8.0	U	8.0	10	1
12926	Ethylene glycol	107-21-1	8.0	U	8.0	10	1
12926	Triethylene glycol	112-27-6	8.0	U	8.0	10	1
GC Miscellaneous	**SW-846 8015C Feb 2007 Rev 3**		ug/l		ug/l	ug/l	
10603	Methanol	67-56-1	200	U	200	1,000	1
Metals	**SW-846 6010C**		mg/l		mg/l	mg/l	
07044	Antimony	7440-36-0	0.0051	U	0.0051	0.0400	1
07035	Arsenic	7440-38-2	0.0072	U	0.0072	0.0400	1
07046	Barium	7440-39-3	0.00033	U	0.00033	0.0100	1
07049	Cadmium	7440-43-9	0.00033	U	0.00033	0.0100	1
07051	Chromium	7440-47-3	0.0014	J	0.0013	0.0300	1
07055	Lead	7439-92-1	0.0047	U	0.0047	0.0300	1
07036	Selenium	7782-49-2	0.0048	U	0.0048	0.0400	1
07066	Silver	7440-22-4	0.0018	U	0.0018	0.0100	1
	SW-846 7470A		mg/l		mg/l	mg/l	
00259	Mercury	7439-97-6	0.000071	J	0.000050	0.00020	1
Wet Chemistry	**EPA 300.0**		mg/l		mg/l	mg/l	
00224	Chloride	16887-00-6	0.20	U	0.20	0.40	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: TB-03262015 Blank Water
LANDFILL ANNUAL 15

LL Sample # WW 7824871
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/26/2015 10:15

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPFTB

General Sample Comments

State of North Carolina Lab Certification No. 521

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10335	CAP Landfill Volatiles	SW-846 8260B	1	Y150981AA	04/08/2015 05:56	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y150981AA	04/08/2015 05:56	Stephanie A Selis	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: EB-03262015 Blank Water
LANDFILL ANNUAL 15

LL Sample # WW 7824872
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/26/2015 08:45

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CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPFEB

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l		ug/l	ug/l	
10335	Acetone	67-64-1	6	U	6	20	1
10335	Acrylonitrile	107-13-1	4	U	4	20	1
10335	Benzene	71-43-2	0.5	U	0.5	1	1
10335	Bromochloromethane	74-97-5	1	U	1	5	1
10335	Bromodichloromethane	75-27-4	0.5	U	0.5	1	1
10335	Bromoform	75-25-2	0.5	U	0.5	4	1
10335	Bromomethane	74-83-9	0.5	U	0.5	1	1
10335	2-Butanone	78-93-3	3	U	3	10	1
10335	Carbon Disulfide	75-15-0	1	U	1	5	1
10335	Carbon Tetrachloride	56-23-5	0.5	U	0.5	1	1
10335	Chlorobenzene	108-90-7	0.5	U	0.5	1	1
10335	Chloroethane	75-00-3	0.5	U	0.5	1	1
10335	Chloroform	67-66-3	0.5	U	0.5	1	1
10335	Chloromethane	74-87-3	0.5	U	0.5	1	1
10335	1,2-Dibromo-3-chloropropane	96-12-8	2	U	2	5	1
10335	Dibromochloromethane	124-48-1	0.5	U	0.5	1	1
10335	1,2-Dibromoethane	106-93-4	0.5	U	0.5	1	1
10335	Dibromomethane	74-95-3	0.5	U	0.5	1	1
10335	trans-1,4-Dichloro-2-butene	110-57-6	15	U	15	50	1
10335	1,2-Dichlorobenzene	95-50-1	1	U	1	5	1
10335	1,3-Dichlorobenzene	541-73-1	1	U	1	5	1
10335	1,4-Dichlorobenzene	106-46-7	1	U	1	5	1
10335	1,1-Dichloroethane	75-34-3	0.5	U	0.5	1	1
10335	1,2-Dichloroethane	107-06-2	0.5	U	0.5	1	1
10335	1,1-Dichloroethene	75-35-4	0.5	U	0.5	1	1
10335	cis-1,2-Dichloroethene	156-59-2	0.5	U	0.5	1	1
10335	trans-1,2-Dichloroethene	156-60-5	0.5	U	0.5	1	1
10335	1,2-Dichloropropane	78-87-5	0.5	U	0.5	1	1
10335	cis-1,3-Dichloropropene	10061-01-5	0.5	U	0.5	1	1
10335	trans-1,3-Dichloropropene	10061-02-6	0.5	U	0.5	1	1
10335	Ethylbenzene	100-41-4	0.5	U	0.5	1	1
10335	2-Hexanone	591-78-6	3	U	3	10	1
10335	Methyl Iodide	74-88-4	0.5	U	0.5	1	1
10335	4-Methyl-2-pentanone	108-10-1	3	U	3	10	1
10335	Methylene Chloride	75-09-2	2	U	2	4	1
10335	Styrene	100-42-5	1	U	1	5	1
10335	1,1,1,2-Tetrachloroethane	630-20-6	0.5	U	0.5	1	1
10335	1,1,2,2-Tetrachloroethane	79-34-5	0.5	U	0.5	1	1
10335	Tetrachloroethene	127-18-4	0.5	U	0.5	1	1
10335	Toluene	108-88-3	0.5	U	0.5	1	1
10335	1,1,1-Trichloroethane	71-55-6	0.5	U	0.5	1	1
10335	1,1,2-Trichloroethane	79-00-5	0.5	U	0.5	1	1
10335	Trichloroethene	79-01-6	0.5	U	0.5	1	1
10335	Trichlorofluoromethane	75-69-4	0.5	U	0.5	1	1
10335	1,2,3-Trichloropropane	96-18-4	1	U	1	5	1
10335	Vinyl Acetate	108-05-4	2	U	2	10	1
10335	Vinyl Chloride	75-01-4	0.5	U	0.5	1	1
10335	Xylene (Total)	1330-20-7	0.5	U	0.5	1	1
GC/MS Semivolatiles	**SW-846 8270D**		ug/l		ug/l	ug/l	
13624	Acenaphthene	83-32-9	0.1	U	0.1	0.5	1

*=This limit was used in the evaluation of the final result

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Analysis Report

Sample Description: EB-03262015 Blank Water
LANDFILL ANNUAL 15

LL Sample # WW 7824872
LL Group # 1548954
Account # 06643

Project Name: CAP - LANDFILL ANNUAL

Collected: 03/26/2015 08:45

Submitted: 03/27/2015 09:20
Reported: 04/08/2015 18:47

CRG-E.I.DuPont de Nemours & Co
AECOM
Sabre Building
4051 Ogletown Road, Suite 300
Newark DE 19713

CPFEB

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit*	Limit of Quantitation	Dilution Factor
Wet Chemistry	**EPA 300.0**		mg/l		mg/l	mg/l	
01504	Fluoride	16984-48-8	0.050	U	0.050	0.10	1
00228	Sulfate	14808-79-8	0.30	U	0.30	1.0	1
	SM 2540 C-1997		mg/l		mg/l	mg/l	
00212	Total Dissolved Solids	n.a.	9.7	U	9.7	30.0	1

General Sample Comments

State of North Carolina Lab Certification No. 521

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
10335	CAP Landfill Volatiles	SW-846 8260B	1	Y150981AA	04/08/2015	06:17	Stephanie A Selis	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y150981AA	04/08/2015	06:17	Stephanie A Selis	1
13624	10/92 SOW SV List +add'l cmpds	SW-846 8270D	1	15089WAE026	03/31/2015	18:01	Holly B Ziegler	1
00813	BNA Water Extraction	SW-846 3510C	1	15089WAE026	03/30/2015	19:30	Nicholas W Shroyer	1
12926	3 Gylcol Compounds	SW-846 8015C Feb 2007 Rev 3	1	150910014A	04/01/2015	23:59	Tyler O Griffin	1
10603	Methanol	SW-846 8015C Feb 2007 Rev 3	1	150910035A	04/03/2015	01:18	Tyler O Griffin	1
07044	Antimony	SW-846 6010C	1	150900636002	04/01/2015	08:35	Joanne M Gates	1
07035	Arsenic	SW-846 6010C	1	150900636002	04/01/2015	08:35	Joanne M Gates	1
07046	Barium	SW-846 6010C	1	150900636002	04/01/2015	08:35	Joanne M Gates	1
07049	Cadmium	SW-846 6010C	1	150900636002	04/01/2015	08:35	Joanne M Gates	1
07051	Chromium	SW-846 6010C	1	150900636002	04/01/2015	08:35	Joanne M Gates	1
07055	Lead	SW-846 6010C	1	150900636002	04/01/2015	08:35	Joanne M Gates	1
07036	Selenium	SW-846 6010C	1	150900636002	04/01/2015	08:35	Joanne M Gates	1
07066	Silver	SW-846 6010C	1	150900636002	04/01/2015	08:35	Joanne M Gates	1
00259	Mercury	SW-846 7470A	1	150905713004	04/01/2015	08:42	Damary Valentin	1
10636	ICP-WW/TL, 3010A (tot) - U4	SW-846 3010A	1	150900636002	03/31/2015	21:00	Annamaria Kuhns	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	150905713004	04/01/2015	01:00	Annamaria Kuhns	1
00224	Chloride	EPA 300.0	1	15092667131B	04/02/2015	19:15	Drew M Gerhart	1
01504	Fluoride	EPA 300.0	1	15092667131B	04/02/2015	19:15	Drew M Gerhart	1
00228	Sulfate	EPA 300.0	1	15092667131B	04/02/2015	19:15	Drew M Gerhart	1
00212	Total Dissolved Solids	SM 2540 C-1997	1	15091021201A	04/01/2015	06:07	Noah M Rainbow	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 04/08/2015 18:47

Group Number: 1548954

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: Y150971AA	Sample number(s): 7824856-7824859,7824861-7824868									
Acetone	6	U	6.	20	ug/l	91		55-129		
Acrylonitrile	4	U	4.	20	ug/l	91		55-127		
Benzene	0.5	U	0.5	1	ug/l	102		78-120		
Bromochloromethane	1	U	1.	5	ug/l	109		80-120		
Bromodichloromethane	0.5	U	0.5	1	ug/l	108		73-120		
Bromoform	0.5	U	0.5	4	ug/l	100		52-123		
Bromomethane	0.5	U	0.5	1	ug/l	106		53-130		
2-Butanone	3	U	3.	10	ug/l	86		54-133		
Carbon Disulfide	1	U	1.	5	ug/l	99		58-126		
Carbon Tetrachloride	0.5	U	0.5	1	ug/l	112		74-130		
Chlorobenzene	0.5	U	0.5	1	ug/l	104		80-120		
Chloroethane	0.5	U	0.5	1	ug/l	102		56-120		
Chloroform	0.5	U	0.5	1	ug/l	110		80-120		
Chloromethane	0.5	U	0.5	1	ug/l	104		63-120		
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	99		56-120		
Dibromochloromethane	0.5	U	0.5	1	ug/l	111		72-120		
1,2-Dibromoethane	0.5	U	0.5	1	ug/l	108		80-120		
Dibromomethane	0.5	U	0.5	1	ug/l	103		80-120		
trans-1,4-Dichloro-2-butene	15	U	15.	50	ug/l	102		47-139		
1,2-Dichlorobenzene	1	U	1.	5	ug/l	102		80-120		
1,3-Dichlorobenzene	1	U	1.	5	ug/l	100		80-120		
1,4-Dichlorobenzene	1	U	1.	5	ug/l	101		80-120		
1,1-Dichloroethane	0.5	U	0.5	1	ug/l	104		80-120		
1,2-Dichloroethane	0.5	U	0.5	1	ug/l	116		72-127		
1,1-Dichloroethene	0.5	U	0.5	1	ug/l	109		76-124		
cis-1,2-Dichloroethene	0.5	U	0.5	1	ug/l	104		80-120		
trans-1,2-Dichloroethene	0.5	U	0.5	1	ug/l	111		80-120		
1,2-Dichloropropane	0.5	U	0.5	1	ug/l	99		80-120		
cis-1,3-Dichloropropene	0.5	U	0.5	1	ug/l	105		80-120		
trans-1,3-Dichloropropene	0.5	U	0.5	1	ug/l	111		76-120		
Ethylbenzene	0.5	U	0.5	1	ug/l	104		80-120		
2-Hexanone	3	U	3.	10	ug/l	93		50-131		
Methyl Iodide	0.5	U	0.5	1	ug/l	107		75-128		
4-Methyl-2-pentanone	3	U	3.	10	ug/l	92		51-124		
Methylene Chloride	2	U	2.	4	ug/l	99		80-120		
Styrene	1	U	1.	5	ug/l	106		80-120		
1,1,1,2-Tetrachloroethane	0.5	U	0.5	1	ug/l	109		80-120		
1,1,2,2-Tetrachloroethane	0.5	U	0.5	1	ug/l	98		70-120		
Tetrachloroethene	0.5	U	0.5	1	ug/l	103		80-120		
Toluene	0.5	U	0.5	1	ug/l	105		80-120		
1,1,1-Trichloroethane	0.5	U	0.5	1	ug/l	95		66-126		
1,1,2-Trichloroethane	0.5	U	0.5	1	ug/l	105		80-120		
Trichloroethene	0.5	U	0.5	1	ug/l	108		80-120		

*- Outside of specification
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(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co — Group Number: 1548954

Reported: 04/08/2015 18:47

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Trichlorofluoromethane	0.5	U	0.5	1	ug/l	116		58-135		
1,2,3-Trichloropropane	1	U	1.	5	ug/l	102		76-120		
Vinyl Acetate	2	U	2.	10	ug/l	53		31-183		
Vinyl Chloride	0.5	U	0.5	1	ug/l	102		69-120		
Xylene (Total)	0.5	U	0.5	1	ug/l	105		80-120		
Batch number: Y150981AA	Sample number(s): 7824869-7824872									
Acetone	6	U	6.	20	ug/l	83	87	55-129	4	30
Acrylonitrile	4	U	4.	20	ug/l	80	87	55-127	8	30
Benzene	0.5	U	0.5	1	ug/l	100	100	78-120	0	30
Bromochloromethane	1	U	1.	5	ug/l	107	105	80-120	2	30
Bromodichloromethane	0.5	U	0.5	1	ug/l	110	110	73-120	1	30
Bromoform	0.5	U	0.5	4	ug/l	101	101	52-123	0	30
Bromomethane	0.5	U	0.5	1	ug/l	106	106	53-130	1	30
2-Butanone	3	U	3.	10	ug/l	76	83	54-133	9	30
Carbon Disulfide	1	U	1.	5	ug/l	99	96	58-126	3	30
Carbon Tetrachloride	0.5	U	0.5	1	ug/l	115	113	74-130	2	30
Chlorobenzene	0.5	U	0.5	1	ug/l	105	105	80-120	1	30
Chloroethane	0.5	U	0.5	1	ug/l	97	100	56-120	3	30
Chloroform	0.5	U	0.5	1	ug/l	109	111	80-120	1	30
Chloromethane	0.5	U	0.5	1	ug/l	101	103	63-120	2	30
1,2-Dibromo-3-chloropropane	2	U	2.	5	ug/l	91	101	56-120	10	30
Dibromochloromethane	0.5	U	0.5	1	ug/l	113	113	72-120	0	30
1,2-Dibromoethane	0.5	U	0.5	1	ug/l	107	109	80-120	2	30
Dibromomethane	0.5	U	0.5	1	ug/l	104	106	80-120	2	30
trans-1,4-Dichloro-2-butene	15	U	15.	50	ug/l	102	110	47-139	7	30
1,2-Dichlorobenzene	1	U	1.	5	ug/l	102	104	80-120	2	30
1,3-Dichlorobenzene	1	U	1.	5	ug/l	100	102	80-120	2	30
1,4-Dichlorobenzene	1	U	1.	5	ug/l	102	103	80-120	1	30
1,1-Dichloroethane	0.5	U	0.5	1	ug/l	104	104	80-120	0	30
1,2-Dichloroethane	0.5	U	0.5	1	ug/l	121	119	72-127	1	30
1,1-Dichloroethene	0.5	U	0.5	1	ug/l	110	108	76-124	2	30
cis-1,2-Dichloroethene	0.5	U	0.5	1	ug/l	102	103	80-120	1	30
trans-1,2-Dichloroethene	0.5	U	0.5	1	ug/l	111	110	80-120	1	30
1,2-Dichloropropane	0.5	U	0.5	1	ug/l	96	98	80-120	1	30
cis-1,3-Dichloropropene	0.5	U	0.5	1	ug/l	103	104	80-120	1	30
trans-1,3-Dichloropropene	0.5	U	0.5	1	ug/l	109	112	76-120	3	30
Ethylbenzene	0.5	U	0.5	1	ug/l	104	103	80-120	0	30
2-Hexanone	3	U	3.	10	ug/l	84	91	50-131	9	30
Methyl Iodide	0.5	U	0.5	1	ug/l	107	105	75-128	2	30
4-Methyl-2-pentanone	3	U	3.	10	ug/l	85	92	51-124	8	30
Methylene Chloride	2	U	2.	4	ug/l	97	98	80-120	0	30
Styrene	1	U	1.	5	ug/l	106	105	80-120	0	30
1,1,1,2-Tetrachloroethane	0.5	U	0.5	1	ug/l	111	111	80-120	1	30
1,1,2,2-Tetrachloroethane	0.5	U	0.5	1	ug/l	95	100	70-120	5	30
Tetrachloroethene	0.5	U	0.5	1	ug/l	103	101	80-120	2	30
Toluene	0.5	U	0.5	1	ug/l	104	104	80-120	0	30
1,1,1-Trichloroethane	0.5	U	0.5	1	ug/l	98	97	66-126	0	30
1,1,2-Trichloroethane	0.5	U	0.5	1	ug/l	105	107	80-120	1	30
Trichloroethene	0.5	U	0.5	1	ug/l	108	107	80-120	1	30
Trichlorofluoromethane	0.5	U	0.5	1	ug/l	117	115	58-135	1	30
1,2,3-Trichloropropane	1	U	1.	5	ug/l	99	104	76-120	5	30
Vinyl Acetate	2	U	2.	10	ug/l	50	49	31-183	2	30
Vinyl Chloride	0.5	U	0.5	1	ug/l	100	101	69-120	1	30
Xylene (Total)	0.5	U	0.5	1	ug/l	104	105	80-120	0	30

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 1548954
Reported: 04/08/2015 18:47

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 15089WAE026	Sample number(s): 7824856-7824859,7824861-7824870,7824872									
Acenaphthene	0.1	U	0.1	0.5	ug/l	94		80-112		
Acenaphthylene	0.1	U	0.1	0.5	ug/l	94		78-125		
Anthracene	0.1	U	0.1	0.5	ug/l	102		82-116		
Benzo(a)anthracene	0.1	U	0.1	0.5	ug/l	105		76-122		
Benzo(a)pyrene	0.1	U	0.1	0.5	ug/l	96		73-120		
Benzo(b)fluoranthene	0.1	U	0.1	0.5	ug/l	102		75-123		
Benzo(g,h,i)perylene	0.1	U	0.1	0.5	ug/l	100		70-126		
Benzo(k)fluoranthene	0.1	U	0.1	0.5	ug/l	96		74-119		
1,1'-Biphenyl	0.5	U	0.5	1	ug/l	92		76-112		
4-Bromophenyl-phenylether	0.5	U	0.5	1	ug/l	95		76-116		
Butylbenzylphthalate	2	U	2.	5	ug/l	87		68-119		
Di-n-butylphthalate	2	U	2.	5	ug/l	95		74-114		
Carbazole	0.5	U	0.5	1	ug/l	103		79-115		
4-Chloro-3-methylphenol	0.5	U	0.5	1	ug/l	91		73-115		
4-Chloroaniline	0.5	U	0.5	1	ug/l	92		44-114		
bis(2-Chloroethoxy)methane	0.5	U	0.5	1	ug/l	96		77-115		
bis(2-Chloroethyl)ether	0.5	U	0.5	1	ug/l	94		78-112		
2-Chloronaphthalene	0.4	U	0.4	1	ug/l	90		69-112		
2-Chlorophenol	0.5	U	0.5	1	ug/l	78		70-111		
4-Chlorophenyl-phenylether	0.5	U	0.5	1	ug/l	91		76-113		
2,2'-oxybis(1-Chloropropane)	0.5	U	0.5	1	ug/l	95		56-128		
Chrysene	0.1	U	0.1	0.5	ug/l	106		81-120		
Dibenz(a,h)anthracene	0.1	U	0.1	0.5	ug/l	103		72-127		
Dibenzofuran	0.5	U	0.5	1	ug/l	91		81-110		
3,3'-Dichlorobenzidine	2	U	2.	5	ug/l	81		39-111		
2,4-Dichlorophenol	0.5	U	0.5	1	ug/l	90		74-114		
Diethylphthalate	2	U	2.	5	ug/l	85		70-118		
2,4-Dimethylphenol	0.5	U	0.5	1	ug/l	83		75-110		
Dimethylphthalate	2	U	2.	5	ug/l	70		43-128		
4,6-Dinitro-2-methylphenol	5	U	5.	15	ug/l	102		53-134		
2,4-Dinitrophenol	10	U	10.	30	ug/l	79		31-129		
2,4-Dinitrotoluene	1	U	1.	5	ug/l	97		77-124		
2,6-Dinitrotoluene	0.5	U	0.5	1	ug/l	100		80-119		
1,4-Dioxane	1	U	1.	5	ug/l	42		38-93		
Diphenyl ether	0.5	U	0.5	1	ug/l	91		78-107		
bis(2-Ethylhexyl)phthalate	2	U	2.	5	ug/l	97		72-122		
Fluoranthene	0.1	U	0.1	0.5	ug/l	103		76-117		
Fluorene	0.1	U	0.1	0.5	ug/l	97		80-117		
Hexachlorobenzene	0.1	U	0.1	0.5	ug/l	96		73-118		
Hexachlorobutadiene	0.5	U	0.5	1	ug/l	66		42-110		
Hexachlorocyclopentadiene	5	U	5.	15	ug/l	30		10-119		
Hexachloroethane	1	U	1.	5	ug/l	68		43-108		
Indeno(1,2,3-cd)pyrene	0.1	U	0.1	0.5	ug/l	98		70-121		
Isophorone	0.5	U	0.5	1	ug/l	100		81-124		
2-Methylnaphthalene	0.1	U	0.1	0.5	ug/l	88		69-103		
2-Methylphenol	0.5	U	0.5	1	ug/l	80		66-112		
4-Methylphenol	0.5	U	0.5	1	ug/l	69		56-109		
Naphthalene	0.1	U	0.1	0.5	ug/l	90		75-108		
2-Nitroaniline	0.5	U	0.5	1	ug/l	102		71-121		
3-Nitroaniline	0.5	U	0.5	1	ug/l	94		58-111		
4-Nitroaniline	0.5	U	0.5	1	ug/l	92		66-110		
Nitrobenzene	0.5	U	0.5	1	ug/l	94		77-119		
2-Nitrophenol	0.5	U	0.5	1	ug/l	98		71-118		
4-Nitrophenol	10	U	10.	30	ug/l	33		20-89		
N-Nitroso-di-n-propylamine	0.5	U	0.5	1	ug/l	94		71-117		

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 1548954
Reported: 04/08/2015 18:47

Analysis Name	Blank Result		Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
N-Nitrosodiphenylamine	0.5	U	0.5	1	ug/l	98		80-115		
Di-n-octylphthalate	2	U	2.	5	ug/l	99		72-127		
Pentachlorophenol	1	U	1.	5	ug/l	90		50-121		
Phenanthrene	0.1	U	0.1	0.5	ug/l	98		81-114		
Phenol	0.5	U	0.5	1	ug/l	34		25-80		
Pyrene	0.1	U	0.1	0.5	ug/l	96		76-111		
1,2,4-Trichlorobenzene	0.5	U	0.5	1	ug/l	78		64-107		
2,4,5-Trichlorophenol	0.5	U	0.5	1	ug/l	94		76-116		
2,4,6-Trichlorophenol	0.5	U	0.5	1	ug/l	95		75-117		
Batch number: 150910014A	Sample number(s): 7824856-7824859,7824861-7824867,7824869-7824870,7824872									
Diethylene glycol	8.0	U	8.0	10	mg/l	90		55-122		
Ethylene glycol	8.0	U	8.0	10	mg/l	98		54-129		
Triethylene glycol	8.0	U	8.0	10	mg/l	77		46-118		
Batch number: 150910035A	Sample number(s): 7824856-7824859,7824861-7824870,7824872									
Methanol	200 U		200.	1,000	ug/l	118		79-120		
Batch number: 150930012A	Sample number(s): 7824868									
Diethylene glycol	8.0	U	8.0	10	mg/l	91		55-122		
Ethylene glycol	8.0	U	8.0	10	mg/l	103		54-129		
Triethylene glycol	8.0	U	8.0	10	mg/l	72		46-118		
Batch number: 150900636002	Sample number(s): 7824856-7824870,7824872									
Antimony	0.0051	U	0.0051	0.0400	mg/l	106		80-120		
Arsenic	0.0072	U	0.0072	0.0400	mg/l	103		80-120		
Barium	0.00033	U	0.00033	0.0100	mg/l	105		80-120		
Cadmium	0.00033	U	0.00033	0.0100	mg/l	103		80-120		
Chromium	0.0014	J	0.0013	0.0300	mg/l	104		80-120		
Lead	0.0047	U	0.0047	0.0300	mg/l	105		80-120		
Selenium	0.0048	U	0.0048	0.0400	mg/l	104		80-120		
Silver	0.0018	U	0.0018	0.0100	mg/l	99		80-120		
Batch number: 150905713004	Sample number(s): 7824856-7824870,7824872									
Mercury	0.000067 J		0.00005 0	0.00020	mg/l	104		80-120		
Batch number: 15092667131A	Sample number(s): 7824856-7824858,7824860-7824866,7824869-7824870									
Chloride	0.20	U	0.20	0.40	mg/l	99	99	90-110	0	20
Fluoride	0.050	U	0.050	0.10	mg/l	98	99	90-110	0	20
Sulfate	0.30	U	0.30	1.0	mg/l	96	96	90-110	1	20
Batch number: 15092667131B	Sample number(s): 7824867-7824868,7824872									
Chloride	0.20	U	0.20	0.40	mg/l	99	99	90-110	0	20
Fluoride	0.050	U	0.050	0.10	mg/l	98	99	90-110	0	20
Sulfate	0.30	U	0.30	1.0	mg/l	96	96	90-110	1	20
Batch number: 15089021202A	Sample number(s): 7824856-7824858,7824860-7824863									
Total Dissolved Solids	9.7	U	9.7	30.0	mg/l	98		80-120		
Batch number: 15091021201A	Sample number(s): 7824864-7824868,7824870,7824872									
Total Dissolved Solids	9.7	U	9.7	30.0	mg/l	100		80-120		
Batch number: 15091021201B	Sample number(s): 7824869									
Total Dissolved Solids	9.7	U	9.7	30.0	mg/l	100		80-120		

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Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 1548954
Reported: 04/08/2015 18:47

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: Y150971AA	Sample number(s): 7824856-7824859,7824861-7824868 UNSPK: 7824857								
Acetone	87	89	35-144	2	30				
Acrylonitrile	90	89	51-125	1	30				
Benzene	107	109	72-134	2	30				
Bromochloromethane	111	110	76-134	2	30				
Bromodichloromethane	111	112	73-125	1	30				
Bromoform	103	104	48-118	0	30				
Bromomethane	113	115	47-129	2	30				
2-Butanone	85	85	44-135	1	30				
Carbon Disulfide	109	110	53-149	1	30				
Carbon Tetrachloride	123	124	75-148	1	30				
Chlorobenzene	109	111	87-124	2	30				
Chloroethane	112	115	55-130	3	30				
Chloroform	114	116	81-134	2	30				
Chloromethane	115	118	61-125	3	30				
1,2-Dibromo-3-chloropropane	99	99	50-123	0	30				
Dibromochloromethane	113	114	74-116	0	30				
1,2-Dibromoethane	109	109	77-116	0	30				
Dibromomethane	104	105	83-119	1	30				
trans-1,4-Dichloro-2-butene	100	100	27-147	0	30				
1,2-Dichlorobenzene	104	105	84-119	1	30				
1,3-Dichlorobenzene	103	105	86-121	2	30				
1,4-Dichlorobenzene	105	108	85-121	3	30				
1,1-Dichloroethane	111	112	84-129	1	30				
1,2-Dichloroethane	119	119	63-142	0	30				
1,1-Dichloroethene	119	120	79-137	1	30				
cis-1,2-Dichloroethene	107	109	80-141	1	30				
trans-1,2-Dichloroethene	119	119	86-131	0	30				
1,2-Dichloropropane	100	102	83-124	2	30				
cis-1,3-Dichloropropene	102	105	70-116	3	30				
trans-1,3-Dichloropropene	114	116	74-119	2	30				
Ethylbenzene	110	112	71-134	2	30				
2-Hexanone	92	92	38-131	1	30				
Methyl Iodide	113	112	65-144	0	30				
4-Methyl-2-pentanone	91	92	45-128	1	30				
Methylene Chloride	101	104	78-133	3	30				
Styrene	110	111	78-125	1	30				
1,1,1,2-Tetrachloroethane	112	114	80-123	2	30				
1,1,2,2-Tetrachloroethane	96	98	72-128	2	30				
Tetrachloroethene	112	113	80-128	1	30				
Toluene	111	112	80-125	2	30				
1,1,1-Trichloroethane	102	104	69-140	2	30				
1,1,2-Trichloroethane	107	108	71-141	1	30				
Trichloroethene	112	115	88-133	3	30				
Trichlorofluoromethane	136	139	63-163	2	30				

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 04/08/2015 18:47

Group Number: 1548954

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
1,2,3-Trichloropropane	101	102	76-118	1	30				
Vinyl Acetate	49*	50*	62-153	3	30				
Vinyl Chloride	116	117	66-133	2	30				
Xylene (Total)	110	111	79-125	1	30				

Batch number: Y150981AA Sample number(s): 7824869-7824872 BKG: 7824869

Acetone	7	J	6	U	200* (1)	30
Acrylonitrile	4	U	4	U	0 (1)	30
Benzene	0.5	U	0.5	U	0 (1)	30
Bromochloromethane	1	U	1	U	0 (1)	30
Bromodichloromethane	0.5	U	0.5	U	0 (1)	30
Bromoform	0.5	U	0.5	U	0 (1)	30
Bromomethane	0.5	U	0.5	U	0 (1)	30
2-Butanone	3	U	3	U	0 (1)	30
Carbon Disulfide	1	U	1	U	0 (1)	30
Carbon Tetrachloride	0.5	U	0.5	U	0 (1)	30
Chlorobenzene	0.5	U	0.5	U	0 (1)	30
Chloroethane	0.5	U	0.5	U	0 (1)	30
Chloroform	0.5	U	0.5	U	0 (1)	30
Chloromethane	0.5	U	0.5	U	0 (1)	30
1,2-Dibromo-3-chloropropane	2	U	2	U	0 (1)	30
Dibromochloromethane	0.5	U	0.5	U	0 (1)	30
1,2-Dibromoethane	0.5	U	0.5	U	0 (1)	30
Dibromomethane	0.5	U	0.5	U	0 (1)	30
trans-1,4-Dichloro-2-butene	15	U	15	U	0 (1)	30
1,2-Dichlorobenzene	1	U	1	U	0 (1)	30
1,3-Dichlorobenzene	1	U	1	U	0 (1)	30
1,4-Dichlorobenzene	1	U	1	U	0 (1)	30
1,1-Dichloroethane	0.5	U	0.5	U	0 (1)	30
1,2-Dichloroethane	0.5	U	0.5	U	0 (1)	30
1,1-Dichloroethene	0.5	U	0.5	U	0 (1)	30
cis-1,2-Dichloroethene	0.5	U	0.5	U	0 (1)	30
trans-1,2-Dichloroethene	0.5	U	0.5	U	0 (1)	30
1,2-Dichloropropane	0.5	U	0.5	U	0 (1)	30
cis-1,3-Dichloropropene	0.5	U	0.5	U	0 (1)	30
trans-1,3-Dichloropropene	0.5	U	0.5	U	0 (1)	30
Ethylbenzene	0.5	U	0.5	U	0 (1)	30
2-Hexanone	3	U	3	U	0 (1)	30
Methyl Iodide	0.5	U	0.5	U	0 (1)	30
4-Methyl-2-pentanone	3	U	3	U	0 (1)	30
Methylene Chloride	2	U	2	U	0 (1)	30
Styrene	1	U	1	U	0 (1)	30
1,1,1,2-Tetrachloroethane	0.5	U	0.5	U	0 (1)	30
1,1,2,2-Tetrachloroethane	0.5	U	0.5	U	0 (1)	30
Tetrachloroethene	0.5	U	0.5	U	0 (1)	30
Toluene	0.5	U	0.5	U	0 (1)	30
1,1,1-Trichloroethane	0.5	U	0.5	U	0 (1)	30
1,1,2-Trichloroethane	0.5	U	0.5	U	0 (1)	30
Trichloroethene	0.5	U	0.5	U	0 (1)	30
Trichlorofluoromethane	0.5	U	0.5	U	0 (1)	30
1,2,3-Trichloropropane	1	U	1	U	0 (1)	30
Vinyl Acetate	2	U	2	U	0 (1)	30

*- Outside of specification
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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 1548954
Reported: 04/08/2015 18:47

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Vinyl Chloride						0.5	U	0.5	U	0 (1)	30
Xylene (Total)						0.5	U	0.5	U	0 (1)	30

Batch number: 15089WAE026 Sample number(s): 7824856-7824859,7824861-7824870,7824872 UNSPK: 7824857

Acenaphthene	96	100	74-119	12	30
Acenaphthylene	94	98	73-129	12	30
Anthracene	100	103	78-114	10	30
Benzo(a)anthracene	101	105	77-122	11	30
Benzo(a)pyrene	96	97	68-120	8	30
Benzo(b)fluoranthene	98	104	73-126	14	30
Benzo(g,h,i)perylene	100	100	60-127	8	30
Benzo(k)fluoranthene	99	97	72-122	6	30
1,1'-Biphenyl	92	96	73-114	12	30
4-Bromophenyl-phenylether	93	97	74-115	12	30
Butylbenzylphthalate	84	87	69-122	11	30
Di-n-butylphthalate	94	96	72-117	10	30
Carbazole	98	103	72-122	13	30
4-Chloro-3-methylphenol	89	90	19-155	9	30
4-Chloroaniline	88	91	31-115	12	30
bis(2-Chloroethoxy)methane	93	96	73-115	10	30
bis(2-Chloroethyl)ether	92	95	77-113	11	30
2-Chloronaphthalene	91	95	68-117	12	30
2-Chlorophenol	77	79	36-131	10	30
4-Chlorophenyl-phenylether	92	95	73-117	11	30
2,2'-oxybis(1-Chloropropane)	91	95	59-117	11	30
Chrysene	104	107	78-128	10	30
Dibenz(a,h)anthracene	100	103	64-127	10	30
Dibenzofuran	91	96	75-111	12	30
3,3'-Dichlorobenzidine	78	83	16-128	14	30
2,4-Dichlorophenol	89	88	34-138	7	30
Diethylphthalate	83	87	64-117	12	30
2,4-Dimethylphenol	75	75	45-124	8	30
Dimethylphthalate	67	69	46-127	10	30
4,6-Dinitro-2-methylphenol	101	103	30-150	10	30
2,4-Dinitrophenol	77	82	20-168	15	30
2,4-Dinitrotoluene	94	98	51-145	11	30
2,6-Dinitrotoluene	97	103	48-143	13	30
1,4-Dioxane	34*	38	38-93	16	30
Diphenyl ether	90	94	77-110	11	30
bis(2-Ethylhexyl)phthalate	97	100	68-128	11	30
Fluoranthene	101	106	73-119	12	30
Fluorene	98	101	72-119	12	30
Hexachlorobenzene	94	97	71-119	11	30
Hexachlorobutadiene	70	70	44-113	8	30
Hexachlorocyclopentadiene	41	42	26-142	11	30
Hexachloroethane	72	74	32-120	11	30
Indeno(1,2,3-cd)pyrene	96	98	61-122	10	30
Isophorone	98	101	77-127	10	30
2-Methylnaphthalene	88	90	65-109	10	30
2-Methylphenol	75	78	27-132	11	30
4-Methylphenol	66	65	13-128	6	30
Naphthalene	89	92	68-118	11	30

*- Outside of specification
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Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co — Group Number: 1548954
Reported: 04/08/2015 18:47

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
2-Nitroaniline	98	104	51-145	13	30				
3-Nitroaniline	94	96	33-127	10	30				
4-Nitroaniline	94	99	43-126	13	30				
Nitrobenzene	90	93	50-143	11	30				
2-Nitrophenol	99	100	42-145	9	30				
4-Nitrophenol	27	28	10-116	13	30				
N-Nitroso-di-n-propylamine	91	94	60-133	10	30				
N-Nitrosodiphenylamine	96	100	73-118	12	30				
Di-n-octylphthalate	100	101	66-132	9	30				
Pentachlorophenol	84	87	23-140	11	30				
Phenanthrene	96	100	76-112	11	30				
Phenol	33	34	10-102	12	30				
Pyrene	93	96	71-112	11	30				
1,2,4-Trichlorobenzene	80	82	73-105	9	30				
2,4,5-Trichlorophenol	91	95	34-143	12	30				
2,4,6-Trichlorophenol	96	98	19-162	9	30				
Batch number: 150910014A	Sample number(s): 7824856-7824859,7824861-7824867,7824869-7824870,7824872 UNSPK: 7824857								
Diethylene glycol	63	82	52-122	25*	20				
Ethylene glycol	75	78	54-123	4	20				
Triethylene glycol	21*	42	33-123	67*	20				
Batch number: 150910035A	Sample number(s): 7824856-7824859,7824861-7824870,7824872 UNSPK: 7824857								
Methanol	114	116	84-116	2	20				
Batch number: 150930012A	Sample number(s): 7824868 UNSPK: 7824868								
Diethylene glycol	81	89	52-122	10	20				
Ethylene glycol	76	100	54-123	28*	20				
Triethylene glycol	53	68	33-123	25*	20				
Batch number: 150900636002	Sample number(s): 7824856-7824870,7824872 UNSPK: 7824857 BKG: 7824857								
Antimony	107	107	75-125	0	20	0.0051 U	0.0051 U	0 (1)	20
Arsenic	105	104	75-125	1	20	0.0072 U	0.0072 U	0 (1)	20
Barium	105	102	75-125	2	20	0.0100	0.0099 J	1 (1)	20
Cadmium	101	101	75-125	1	20	0.00033 U	0.00033 U	0 (1)	20
Chromium	101	99	75-125	2	20	0.0025 J	0.0027 J	8 (1)	20
Lead	102	101	75-125	1	20	0.0047 U	0.0047 U	0 (1)	20
Selenium	103	102	75-125	1	20	0.0048 U	0.0048 U	0 (1)	20
Silver	100	97	75-125	3	20	0.0018 U	0.0018 U	0 (1)	20
Batch number: 150905713004	Sample number(s): 7824856-7824870,7824872 UNSPK: 7824857 BKG: 7824857								
Mercury	96	94	80-120	2	20	0.000052 J	0.000069 J	29* (1)	20
Batch number: 15092667131A	Sample number(s): 7824856-7824858,7824860-7824866,7824869-7824870 UNSPK: 7824857 BKG: 7824857								
Chloride	85*		90-110			30.1	30.0	0	20
Fluoride	97		90-110			0.25 U	0.25 U	0 (1)	20
Sulfate	96		90-110			23.4	25.1	7 (1)	20
Batch number: 15092667131B	Sample number(s): 7824867-7824868,7824872 UNSPK: 7824868 BKG: 7824868								
Chloride	95		90-110			3.6	3.9	7 (1)	20

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 1548954
Reported: 04/08/2015 18:47

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc		DUP Conc		DUP RPD	Dup RPD Max
Fluoride	101		90-110			0.25	U	0.25	U	0 (1)	20
Sulfate	98		90-110			8.9		8.7		2 (1)	20
Batch number: 15089021202A	Sample number(s): 7824856-7824858,7824860-7824863 UNSPK: 7824857 BKG: 7824857										
Total Dissolved Solids	98		66-131			256		248		3	5
Batch number: 15091021201A	Sample number(s): 7824864-7824868,7824870,7824872 UNSPK: P821499 BKG: P821499										
Total Dissolved Solids	103		66-131			414		405		2	5
Batch number: 15091021201B	Sample number(s): 7824869 UNSPK: P821499 BKG: 7824869										
Total Dissolved Solids	103		66-131			598		612		2	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: CAP Landfill Volatiles
Batch number: Y150971AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7824856	109	107	104	98
7824857	111	105	104	99
7824858	106	101	108	110
7824859	105	107	108	108
7824861	109	105	105	99
7824862	112	108	104	98
7824863	110	104	104	99
7824864	112	106	105	99
7824865	111	105	105	98
7824866	111	106	104	99
7824867	112	105	105	99
7824868	113	106	105	98
Blank	110	107	104	99
LCS	107	102	107	108
MS	106	101	108	110
MSD	105	107	108	108
Limits:	80-116	77-113	80-113	78-113

Analysis Name: CAP Landfill Volatiles
Batch number: Y150981AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7824869	114	108	105	97
7824870	115	109	105	99
7824871	115	109	104	99
7824872	115	107	105	98
Blank	112	107	105	98
DUP	116	107	104	98
LCS	109	108	108	111

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Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 04/08/2015 18:47

Group Number: 1548954

Surrogate Quality Control

LCSD	108	104	108	109
Limits:	80-116	77-113	80-113	78-113

Analysis Name: 10/92 SOW SV List +add'l cmpds
Batch number: 15089WAE026

	Phenol-d6	2-Fluorophenol	2,4,6-Tribromophenol	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
7824856	23	39	93	89	86	97
7824857	21	35	87	83	84	94
7824858	27	41	96	88	86	99
7824859	28	44	100	92	90	102
7824861	21	35	87	87	85	91
7824862	26	37	90	86	85	100
7824863	40	54	92	86	86	86
7824864	22	37	88	88	87	99
7824865	26	37	90	82	81	94
7824866	41	48	94	88	88	105
7824867	23	38	94	86	86	100
7824868	22	37	90	82	82	96
7824869	37	56	91	80	75	63
7824870	38	57	96	83	78	74
7824872	21	36	93	85	84	61
Blank	24	39	96	91	90	103
LCS	28	42	98	91	88	98
MS	27	41	96	88	86	99
MSD	28	44	100	92	90	102
Limits:	10-82	10-107	23-145	60-123	61-112	35-144

Analysis Name: 3 Gylcol Compounds
Batch number: 150910014A

	Tetramethylene glycol
7824856	90
7824857	56
7824858	87
7824859	75
7824861	85
7824862	84
7824863	82
7824864	77
7824865	90
7824866	59
7824867	87
7824869	78
7824870	71
7824872	95
Blank	94
LCS	87
MS	87
MSD	75
Limits:	54-136

Analysis Name: Methanol
Batch number: 150910035A

	Acetone
7824856	104
7824857	102
7824858	101

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(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co Group Number: 1548954
Reported: 04/08/2015 18:47

Surrogate Quality Control

7824859	100
7824861	105
7824862	104
7824863	105
7824864	106
7824865	102
7824866	101
7824867	102
7824868	102
7824869	102
7824870	106
7824872	102
Blank	97
LCS	100
MS	101
MSD	100
Limits:	71-127

Analysis Name: 3 Gylcol Compounds
Batch number: 150930012A

	Tetramethylene glycol
7824868	94
Blank	91
LCS	101
MS	88
MSD	97
Limits:	54-136

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Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only
Group No.: 1548954 Sample Nos.: 7824856-72
Acc't: 06643 SF: 204063 SCR No.: 168507 Cooler No.: 22291
Cooler Temperature upon receipt: 1.2 °C Container No.: 4

31403

Facility Name: DuPont Cape Fear	Project Manager: Marc Harder
Facility Contact: Marc Harder	Facility Contact Phone No.: 910-371-5216
Facility Address: State Road 1426	Job No.: 9267-7720100C-WH06504182
Leland NC 28451	Release No.:
	PO Number: LBIO-67047
Sampler(s):	
Project Name: LANDFILL ANNUAL 15	

Analyses Required: GC/MS Volatiles (8260)

Comments:

Sample Identification	Date Collected	Time Collected	Matrix	Containers Volume (ml)	Preserv	No.	GC/MS Volatiles (8260)	Condition upon receipt: Intact
ANLF15-MW-1	3-24-15	1140	WW	40	HCl	3	X	
ANLF15-MW-2	3-24-15	0955	WW	40	HCl	3	X	
ANLF15-MW-2			WW	40	HCl	3	X	MS
ANLF15-MW-2			WW	40	HCl	3	X	MSD
ANLF15-MW-2-D			WW	40	HCl	3	X	
ANLF15-MW-3		1700	WW	40	HCl	3	X	
ANLF15-MW-9		1815	WW	40	HCl	3	X	
~~TB-03 15~~			~~WW~~	~~40~~	~~HCl~~	~~3~~	~~X~~	

Turnaround Time Requested (please circle): Standard RUSH Number of days: 8

Special Instructions:

	Date	Time		Date	Time
Bottles Relinquished by:	3/17/15	15:00	Bottles Received by: JERRY BAILEY	3-23-15	1000
Bottles Relinquished by:	3-26-15	1400	Bottles Received by:		
Bottles Relinquished by:			Bottles Received by:		
Bottles Relinquished by:			Bottles Received by:	3/27/15	1420

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Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only
Group No.: 1548954 Sample Nos.: 7824856-72
Acc't: 06643 SF: 204063 SCR No.: 168508 Cooler No.: C24014 **31408**
Cooler Temperature upon receipt: 0.3 °C Container No.: 2

Facility Name: DuPont Cape Fear
Facility Contact: Marc Harder
Facility Address: State Road 1426
Leland NC 28451
Sampler(s):
Project Name: LANDFILL ANNUAL 15

Project Manager: Marc Harder
Facility Contact Phone No.: 704-858-4116
Job No.: 9267-7720100C-WH06504182
Release No.:
PO Number: LBIO-67047

Comments: Metals = Sb, As, Ba, Cd, Cr, Pb, Se, Ag (6010C); Hg (7470)

Condition upon receipt: Intact

Sample Identification	Date Collected	Time Collected	Matrix	Containers Volume (ml)	Containers Preserv	Containers No.	MeOH (8015C)	GC/MS Semivolatiles (8270D)	Cl- (300.0)	F- (300.0)	Glycols (8015C)	Metals	SO4 (300.0)	TDS (2540 C)
ANLF15-MW-1	3-24-15	1140	WW	500	None	1			X	X			X	X
ANLF15-MW-1			WW	250	HNO3	1						X		
ANLF15-MW-1			WW	250	None	2		X						
ANLF15-MW-1			WW	40	HCl	2	X							
ANLF15-MW-1			WW	40	None	2					X			

Turnaround Time Requested (please circle): (Standard) RUSH Number of days: 8

Special Instructions:

Bottles Relinquished by:	Date	Time	Bottles Received by:	Date:	Time:
Amalia L. Montgomery	3/17/15	1345	JERRY BAILEY	3-23-15	1000
	3-26-15	1400			
				3/27/15	920

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Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only
Group No.: 1548954 Sample Nos.: 7824856-72
Acc't: 06643 SF: 204063 SCR No.: 168508 Cooler No.: C24014 **31409**
Cooler Temperature upon receipt: 6.3 °C Container No.: 2

Facility Name: DuPont Cape Fear
Facility Contact: Marc Harder
Facility Address: State Road 1426
Leland NC 28451
Sampler(s):
Project Name: LANDFILL ANNUAL 15

Project Manager: Marc Harder
Facility Contact Phone No.: 704-858-4116
Job No.: 9267-7720100C-WH06504182
Release No.:
PO Number: LBIO-67047

Analyses Required

Comments: Metals = Sb, As, Ba, Cd, Cr, Pb, Se, Ag (6010C); Hg (7470)

Sample Identification	Date Collected	Time Collected	Matrix	Containers Volume (ml)	Preserv	No.	MeOH (8015C)	GC/MS Semivolatiles (8270D)	Cl- (300.0)	F- (300.0)	Glycols (8015C)	Metals	SO4 (300.0)	TDS (2540 C)	Condition upon receipt: Intact
ANLF15-MW-2	3-24-15	0955	WW	500	None	1			X	X			X	X	
ANLF15-MW-2			WW	250	HNO3	1						X			
ANLF15-MW-2			WW	250	None	2		X							
ANLF15-MW-2			WW	40	HCl	2	X								
ANLF15-MW-2			WW	40	None	2					X				
ANLF15-MW-2			WW	500	None	1			X	X			X	X	MS
ANLF15-MW-2			WW	250	HNO3	1						X			MS
ANLF15-MW-2			WW	250	None	2		X							MS
ANLF15-MW-2			WW	40	HCl	2	X								MS
ANLF15-MW-2			WW	40	None	2					X				MS

Turnaround Time Requested (please circle): (Standard) RUSH Number of days: 8

Special Instructions:

Bottles Relinquished by:	Date	Time	Bottles Received by:	Date:	Time:
Angela S. Montgomery	3/17/15	1345	Gary Bailey	3-23-15	0000
[illegible]	3-26-15	1400			
				3/27/15	920

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Copies: White copy should accompany samples to Lancaster Laboratories. The pink copy should be retained by the samplers.

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Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only
Group No.: 1548954 Sample Nos.: 7824856-72
Acc't: 06643 SF: 204063 SCR No.: 168508 Cooler No.: C24014 **31410**
Cooler Temperature upon receipt: 0.3 °C Container No.: 2

Facility Name: DuPont Cape Fear	Project Manager: Marc Harder
Facility Contact: Marc Harder	Facility Contact Phone No.: 704-858-4116
Facility Address: State Road 1426	Job No.: 9267-7720100C-WH06504182
Leland NC 28451	Release No.:
	PO Number: LBIO-67047
Sampler(s):	
Project Name: LANDFILL ANNUAL 15	

Comments: Metals = Sb, As, Ba, Cd, Cr, Pb, Se, Ag (6010C); Hg (7470)

Condition upon receipt: Intact

Sample Identification	Date Collected	Time Collected	Matrix	Containers Volume (ml)	Preserv	No.	MeOH (8015C)	GC/MS Semivolatiles (8270D)	Cl- (300.0)	F- (300.0)	Glycols (8015C)	Metals	SO4 (300.0)	TDS (2540 C)						
ANLF15-MW-2	3-24-15	0955	WW	500	None	1			X	X			X	X						MSD
ANLF15-MW-2			WW	250	HNO3	1						X								MSD
ANLF15-MW-2			WW	250	None	2		X												MSD
ANLF15-MW-2			WW	40	HCl	2	X													MSD
ANLF15-MW-2			WW	40	None	2					X									MSD
ANLF15-MW-2-D			WW	500	None	1			X	X			X	X						
ANLF15-MW-2-D			WW	250	HNO3	1						X								
ANLF15-MW-2-D			WW	250	None	2		X												
ANLF15-MW-2-D			WW	40	HCl	2	X													
ANLF15-MW-2-D			WW	40	None	2					X									

Turnaround Time Requested (please circle): Standard RUSH Number of days: 8

Special Instructions:

Bottles Relinquished by: Angela A. Montgomery	Date 3/17/15	Time 1345	Bottles Received by: Oear-1 Bailey	Date: 3-23-15	Time: 1000
Bottles Relinquished by:	Date 3-26-15	Time 1400	Bottles Received by:	Date:	Time:
Bottles Relinquished by:	Date	Time	Bottles Received by:	Date:	Time:
Bottles Relinquished by:	Date	Time	Bottles Received by:	Date: 3/27/15	Time: 920

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Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only
Group No.: 1548954 Sample Nos.: 7824856-72
Acc't: 06643 SF: 204063 SCR No.: 168902 Cooler No.: C18367 **31412**
Cooler Temperature upon receipt: 0.7 °C Container No.: 1

Facility Name: DuPont Cape Fear	Project Manager: Marc Harder
Facility Contact: Marc Harder	Facility Contact Phone No.: 704-858-4116
Facility Address: State Road 1426	Job No.: 9267-7720100C-WH06504182
Leland NC 28451	Release No.:
	PO Number: LBIO-67047
Sampler(s):	
Project Name: LANDFILL ANNUAL 15	

Analyses Required

Comments: Metals = Sb, As, Ba, Cd, Cr, Pb, Se, Ag (6010C); Hg (7470)

Condition upon receipt: intact

Sample Identification	Date Collected	Time Collected	Matrix	Containers Volume (ml)	Preserv	No.	MeOH (8015C)	GC/MS Semivolatiles (8270D)	Cl- (300.0)	F- (300.0)	Glycols (8015C)	Metals	SO4 (300.0)	TDS (2540 C)
ANLF15-MW-4	3-25-14	1015	WW	500	None	1			X	X			X	X
ANLF15-MW-4			WW	250	HNO3	1						X		
ANLF15-MW-4			WW	250	None	2		X						
ANLF15-MW-4			WW	40	HCl	2	X							
ANLF15-MW-4			WW	40	None	2					X			
ANLF15-MW-5		1100	WW	500	None	1			X	X			X	X
ANLF15-MW-5			WW	250	HNO3	1						X		
ANLF15-MW-5			WW	250	None	2		X						
ANLF15-MW-5			WW	40	HCl	2	X							
ANLF15-MW-5			WW	40	None	2					X			

Turnaround Time Requested (please circle): (Standard) RUSH Number of days: 8

Special Instructions:

Bottles Relinquished by:	Date	Time	Bottles Received by:	Date:	Time:
Angela S. Montgomery	3/17/15	1535	JERRY BAILEY	3-23-15	1000
[illegible]	3-26-15	1400			
				3/27/15	920

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Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only
Group No.: 1548954 Sample Nos.: 782485672
Acc't: 06643 SF: 204063 SCR No.: 168902 Cooler No.: C18367 **31413**
Cooler Temperature upon receipt: 0.9 °C Container No.:

Facility Name: DuPont Cape Fear	Project Manager: Marc Harder
Facility Contact: Marc Harder	Facility Contact Phone No.: 704-858-4116
Facility Address: State Road 1426	Job No.: 9267-7720100C-WH06504182
Leland NC 28451	Release No.:
	PO Number: LBIO-67047
Sampler(s):	
Project Name: LANDFILL ANNUAL 15	

Comments: Metals = Sb, As, Ba, Cd, Cr, Pb, Se, Ag (6010C); Hg (7470)

Condition upon receipt: Intact

Sample Identification	Date Collected	Time Collected	Matrix	Containers Volume (ml)	Preserv	No.	MeOH (8015C)	GC/MS Semivolatiles (8270D)	Cl- (300.0)	F- (300.0)	Glycols (8015C)	Metals	SO4 (300.0)	TDS (2540 C)
ANLF15-MW-6	3-25-15	0905	WW	500	None	1			X	X			X	X
ANLF15-MW-6			WW	250	HNO3	1						X		
ANLF15-MW-6			WW	250	None	2		X						
ANLF15-MW-6			WW	40	HCl	2	X							
ANLF15-MW-6			WW	40	None	2					X			
ANLF15-MW-7	3-25-15	1210	WW	500	None	1			X	X			X	X
ANLF15-MW-7			WW	250	HNO3	1						X		
ANLF15-MW-7			WW	250	None	2		X						
ANLF15-MW-7			WW	40	HCl	2	X							
ANLF15-MW-7			WW	40	None	2					X			

Turnaround Time Requested (please circle): (Standard) RUSH Number of days: 8

Special Instructions:

Bottles Relinquished by: Douglas S. Montgomery	Date 3/17/15	Time 1535	Bottles Received by: JERRY BRADLEY	Date: 3-25-15	Time: 1000
Bottles Relinquished by: [signature]	Date 3-26-15	Time 1400	Bottles Received by:	Date:	Time:
Bottles Relinquished by:	Date	Time	Bottles Received by:	Date:	Time:
Bottles Relinquished by:	Date	Time	Bottles Received by: [signature]	Date: 3/27/15	Time: 1420

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Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only
Group No.: 1548954 Sample Nos.: 7824856-72
Acc't: 06643 SF: 204063 SCR No.: 168508 Cooler No.: C21815 **31411**
Cooler Temperature upon receipt: 0.4 °C Container No.: 3

Facility Name: DuPont Cape Fear
Facility Contact: Marc Harder
Facility Address: State Road 1426
Leland NC 28451
Sampler(s):
Project Name: LANDFILL ANNUAL 15

Project Manager: Marc Harder
Facility Contact Phone No.: 704-858-4116
Job No.: 9267-7720100C-WH06504182
Release No.:
PO Number: LBIO-67047

Analyses Required

Comments: Metals = Sb, As, Ba, Cd, Cr, Pb, Se, Ag (6010C); Hg (7470)

Condition upon receipt: Intact

Sample Identification	Date Collected	Time Collected	Matrix	Containers Volume (ml)	Containers Preserv	Containers No.	MeOH (8015C)	GC/MS Semivolatiles (8270D)	Cl- (300.0)	F- (300.0)	Glycols (8015C)	Metals	SO4 (300.0)	TDS (2540 C)
ANLF15-MW-3	3-22-15	1700	WW	500	None	1			X	X			X	X
ANLF15-MW-3			WW	250	HNO3	1						X		
ANLF15-MW-3			WW	250	None	2		X						
ANLF15-MW-3			WW	40	HCl	2	X							
ANLF15-MW-3			WW	40	None	2					X			
ANLF15-MW-9		1815	WW	500	None	1			X	X			X	X
ANLF15-MW-9			WW	250	HNO3	1						X		
ANLF15-MW-9			WW	250	None	2		X						
ANLF15-MW-9			WW	40	HCl	2	X							
ANLF15-MW-9			WW	40	None	2					X			

Turnaround Time Requested (please circle): (Standard) RUSH Number of days: 8

Special Instructions:

Bottles Relinquished by:	Date	Time	Bottles Received by:	Date:	Time:
Angelyn Montgomery	3/17/15	1345	Verly Bailey	3-23-15	1000
Bottles Relinquished by:	Date	Time	Bottles Received by:	Date:	Time:
[illegible]	3-26-15	1400			
Bottles Relinquished by:	Date	Time	Bottles Received by:	Date:	Time:
Bottles Relinquished by:	Date	Time	Bottles Received by:	Date:	Time:
			[illegible]	3/27/15	920

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Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only
Group No.: 1548954 Sample Nos.: 7824856-72 22291 31404
Acc't: 06643 SF: 204063 SCR No.: 168507 Cooler No.:
Cooler Temperature upon receipt: 1.2 °C Container No.: 4

Facility Name: DuPont Cape Fear	Project Manager: Marc Harder
Facility Contact: Marc Harder	Facility Contact Phone No.: 910-371-5216
Facility Address: State Road 1426	Job No.: 9267-7720100C-WH06504182
Leland NC 28451	Release No.:
	PO Number: LBIO-67047
Sampler(s):	
Project Name: LANDFILL ANNUAL 15	

Analyses Required: GC/MS Volatiles (8260)

Comments:

Condition upon receipt: intact

Sample Identification	Date Collected	Time Collected	Matrix	Containers Volume (ml)	Preserv	No.	GC/MS Volatiles (8260)
ANLF15-MW-4	3-25-15	1015	WW	40	HCl	3	X
ANLF15-MW-5	"	1100	WW	40	HCl	3	X
ANLF15-MW-6	3-25-15	0905	WW	40	HCl	3	X
ANLF15-MW-7	↓	1210	WW	40	HCl	3	X
ANLF15-MW-22	↓	1705	WW	40	HCl	3	X
~~FB-03 15~~			~~WW~~	~~40~~	~~HCl~~	~~2~~	~~X~~

Turnaround Time Requested (please circle): (Standard) RUSH Number of days: 8

Special Instructions:

	Date	Time		Date	Time
Bottles Relinquished by:	3/17/15	15:00	Bottles Received by: JERRY BARLEY	3-23-15	1000
Bottles Relinquished by:	3-26-15	1400	Bottles Received by:		
Bottles Relinquished by:			Bottles Received by:		
Bottles Relinquished by:			Bottles Received by:	3/27/15	920

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Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only
Group No.: 1548954 Sample Nos.: 7824856-72
Acc't: 06643 SF: 204063 SCR No.: 168902 Cooler No.: 618367 **31414**
Cooler Temperature upon receipt: 0.9 °C Container No.: 1

Facility Name: DuPont Cape Fear
Facility Contact: Marc Harder
Facility Address: State Road 1426
Leland NC 28451
Sampler(s):
Project Name: LANDFILL ANNUAL 15

Project Manager: Marc Harder
Facility Contact Phone No.: 704-858-4116
Job No.: 9267-7720100C-WH06504182
Release No.:
PO Number: LBIO-67047

Analyses Required

Comments: Metals = Sb, As, Ba, Cd, Cr, Pb, Se, Ag (6010C); Hg (7470)

Condition upon receipt: Intact

Sample Identification	Date Collected	Time Collected	Matrix	Containers Volume (ml)	Preserv	No.	MeOH (8015C)	GC/MS Semivolatiles (8270D)	Cl- (300.0)	F- (300.0)	Glycols (8015C)	Metals	SO4 (300.0)	TDS (2540 C)
ANLF15-MW-22	3-25-15	1705	WW	500	None	1			X	X			X	X
ANLF15-MW-22			WW	250	HNO3	1						X		
ANLF15-MW-22			WW	250	None	2		X						
ANLF15-MW-22			WW	40	HCl	2	X							
ANLF15-MW-22			WW	40	None	2					X			

Turnaround Time Requested (please circle): (Standard) RUSH Number of days: 8

Special Instructions:

Bottles Relinquished by:	Date	Time	Bottles Received by:	Date:	Time:
Angela S. Montgomery	3/17/15	1525	JERRY BARLEY	3-23-15	1000
[illegible]	3-26-15	1400			
				3/27/15	920

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Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only
Group No.: 1548954 Sample Nos.: 7824856-72 2229 1
Acc't: 06643 SF: 204063 SCR No.: 168507 Cooler No.: 31405
Cooler Temperature upon receipt: 1.2 °C Container No.: 1

Facility Name: DuPont Cape Fear	Project Manager: Marc Harder
Facility Contact: Marc Harder	Facility Contact Phone No.: 910-371-5216
Facility Address: State Road 1426	Job No.: 9267-7720100C-WH06504182
Leland NC 28451	Release No.:
	PO Number: LBIO-67047
Sampler(s):	
Project Name: LANDFILL ANNUAL 15	

Analyses Required: GC/MS Volatiles (8260)

Comments:

Condition upon receipt: Intact

Sample Identification	Date Collected	Time Collected	Matrix	Containers Volume (ml)	Preserv	No.	GC/MS Volatiles (8260)
ANLF15-MW-23	3-25-15	1500	WW	40	HCl	3	X
ANLF15-MW-24	"	1600	WW	40	HCl	3	X
TB-0326 20 15	3-26-15	1015	WW	40	HCl	2	X

Turnaround Time Requested (please circle): Standard RUSH Number of days: 8

Special Instructions:

	Date	Time		Date	Time
Bottles Relinquished by: [signature]	3/17/15	15:00	Bottles Received by: JERRY BAILEY	3-26-15	1000
Bottles Relinquished by: [signature]	3-26-15	1400	Bottles Received by:		
Bottles Relinquished by:			Bottles Received by:		
Bottles Relinquished by:			Bottles Received by: [signature]	3/27/15	0920

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Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only
Group No.: 1548954 Sample Nos.: 7824856-72 C13485
Acc't: 06643 SF: 204063 SCR No.: 168903 Cooler No.: 31415
Cooler Temperature upon receipt: 1.2 °C Container No.: 4

Facility Name: DuPont Cape Fear	Project Manager: Marc Harder
Facility Contact: Marc Harder	Facility Contact Phone No.: 704-858-4116
Facility Address: State Road 1426	Job No.: 9267-7720100C-WH06504182
Leland NC 28451	Release No.:
	PO Number: LBIO-67047
Sampler(s):	
Project Name: LANDFILL ANNUAL 15	

Comments: Metals = Sb, As, Ba, Cd, Cr, Pb, Se, Ag (6010C); Hg (7470)

Condition upon receipt: Intact

Sample Identification	Date Collected	Time Collected	Matrix	Containers Volume (ml)	Preserv	No.	MeOH (8015C)	GC/MS Semivolatiles (8270D)	Cl- (300.0)	F- (300.0)	Glycols (8015C)	Metals	SO4 (300.0)	TDS (2540 C)
ANLF15-MW-23	3-25-15	1500	WW	500	None	1			X	X			X	X
ANLF15-MW-23			WW	250	HNO3	1						X		
ANLF15-MW-23			WW	250	None	2		X						
ANLF15-MW-23			WW	40	HCl	2	X							
ANLF15-MW-23			WW	40	None	2					X			
ANLF15-MW-24		1600	WW	500	None	1			X	X			X	X
ANLF15-MW-24			WW	250	HNO3	1						X		
ANLF15-MW-24			WW	250	None	2		X						
ANLF15-MW-24			WW	40	HCl	2	X							
ANLF15-MW-24			WW	40	None	2					X			

Turnaround Time Requested (please circle): Standard RUSH Number of days: 8

Special Instructions:

Bottles Relinquished by: Ron Mizashko	Date 3/17/15	Time 13:18	Bottles Received by: JERRY BEELER	Date: 3-23-15	Time: 1000
Bottles Relinquished by: [signature]	Date 3-26-15	Time 1400	Bottles Received by:	Date:	Time:
Bottles Relinquished by:	Date	Time	Bottles Received by:	Date:	Time:
Bottles Relinquished by:	Date	Time	Bottles Received by: [signature]	Date: 3/27/15	Time: 920

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Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only
Group No.: 1548954 Sample Nos.: 7824856-72 22291
Acc't: 06643 SF: 204063 SCR No.: 168507 Cooler No.: 31407
Cooler Temperature upon receipt: 1.2 °C Container No.: 4

Facility Name: DuPont Cape Fear	Project Manager: Marc Harder
Facility Contact: Marc Harder	Facility Contact Phone No.: 910-371-5216
Facility Address: State Road 1426	Job No.: 9267-7720100C-WH06504182
Leland NC 28451	Release No.:
	PO Number: LBIO-67047
Sampler(s):	
Project Name: LANDFILL ANNUAL 15	

Analyses Required: GC/MS Volatiles (8260)

Comments:

Condition upon receipt: Intact

Sample Identification	Date Collected	Time Collected	Matrix	Containers Volume (ml)	Preserv	No.	GC/MS Volatiles (8260)
EB-03 262015	3-26-15	0845	WW	40	HCl	3	X

Turnaround Time Requested (please circle): Standard RUSH Number of days: 8

Special Instructions:

	Date	Time		Date	Time
Bottles Relinquished by:	3/17/15	15:00	Bottles Received by:		
Bottles Relinquished by:	3-26-15	1400	Bottles Received by:		
Bottles Relinquished by:			Bottles Received by:		
Bottles Relinquished by:			Bottles Received by:	3/27/15	920

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Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only
Group No.: 1548954 Sample Nos.: 7824856-72 C14066
Acc't: 06643 SF: 204063 SCR No.: 168903 Cooler No.: 31416
Cooler Temperature upon receipt: 1.2 °C Container No.: 4

Facility Name: DuPont Cape Fear	Project Manager: Marc Harder
Facility Contact: Marc Harder	Facility Contact Phone No.: 704-858-4116
Facility Address: State Road 1426	Job No.: 9267-7720100C-WH06504182
Leland NC 28451	Release No.:
	PO Number: LBIO-67047
Sampler(s):	
Project Name: LANDFILL ANNUAL 15	

Comments: Metals = Sb, As, Ba, Cd, Cr, Pb, Se, Ag (6010C); Hg (7470)

Condition upon receipt: Intact

Sample Identification	Date Collected	Time Collected	Matrix	Containers Volume (ml)	Preserv	No.	MeOH (8015C)	GC/MS Semivolatiles (8270D)	Cl- (300.0)	F- (300.0)	Glycols (8015C)	Metals	SO4 (300.0)	TDS (2540 C)
EB-03032620155	3-26-15	0845	WW	500	None	1			X	X			X	X
EB-03032620155	3-26-15	0845	WW	250	HNO3	1						X		
EB-03032620155	3-26-15	0845	WW	250	None	2		X						
EB-03032620155	3-26-15	0845	WW	40	HCl	2	X							
EB-03032620155	3-26-15	0845	WW	40	None	2					X			

Turnaround Time Requested (please circle): Standard RUSH Number of days: 8

Special Instructions:

Bottles Relinquished by: Nici Mizaki	Date 3/17/15	Time 13:18	Bottles Received by: JERRY BAGLEY	Date: 3-23-15	Time: 1000
Bottles Relinquished by: [signature]	Date 3-26-15	Time 1400	Bottles Received by:	Date:	Time:
Bottles Relinquished by:	Date	Time	Bottles Received by:	Date:	Time:
Bottles Relinquished by:	Date	Time	Bottles Received by:	Date: 3/27/15	Time: 420

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Sample Administration Receipt Documentation Log

Doc Log ID: 63473

Group Number(s): 1548954

Client: Dupont Cape Fear

Delivery and Receipt Information

Delivery Method:	Fed Ex	Arrival Timestamp:	03/27/2015 9:20
Number of Packages:	4	Number of Projects:	1
State/Province of Origin:	NC		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCl
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Wesley Miller (2308) at 14:34 on 03/27/2015

Samples Chilled Details

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	0.9	DT	Wet	Y	Loose	N
2	DT121	0.3	DT	Wet	Y	Loose	N
3	DT121	0.4	DT	Wet	Y	Loose	N
4	DT121	1.2	DT	Wet	Y	Loose	N

2425 New Holland Pike
Lancaster, PA 17605-2425
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-67043-1
TestAmerica Sample Delivery Group: 280-67043-1
Client Project/Site: CAP-LANDFILL Annual 15

For:
E.I. du Pont de Nemours and Company ADQM
c/o AECOM
Sabre Building, Suite 300
4051 Ogletown Road
Newark, Delaware 19713

Attn: Ms. Wanda M Davis

Authorized for release by:
4/17/2015 9:57:44 AM

Michelle Johnston, Project Manager II
(303)736-0110
michelle.johnston@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 280-67043-1

Laboratory: TestAmerica Denver

Narrative

CASE NARRATIVE
Client: E.I. du Pont de Nemours and Company
Project: CAP-LANDFILL Annual 15
Report Number: 280-67043-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Sample Arrival and Receipt

The samples presented in this report were received at the TestAmerica Savannah laboratory at temperatures of 1.6°C, 3.2°C and 1.0°C and at the TestAmerica Canton laboratory at a temperature of 2.9°C on March 27, 2015. The sample containers were received in an acceptable condition.

TestAmerica Denver subcontracted the 8270D analyses to TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, 912-354-7858.

TestAmerica Denver subcontracted the Aromatic Acids analyses to TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, 330-497-9396.

No other anomalies were observed during sample receipt.

Semivolatile Organic Compounds - Method 8270D

Samples ANLF15-MW-1 (280-67043-1), ANLF15-MW-2 (280-67043-2), ANLF15-MW-2-D (280-67043-3), ANLF15-MW-3 (280-67043-4), ANLF15-MW-9 (280-67043-5), ANLF15-MW-4 (280-67043-6), ANLF15-MW-5 (280-67043-7), ANLF15-MW-6 (280-67043-8), ANLF15-MW-7 (280-67043-9), ANLF15-MW-22 (280-67043-10), ANLF15-MW-23 (280-67043-11), ANLF15-MW-24 (280-67043-12) and EB-03262015 (280-67043-13) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 03/29/2015 and analyzed on 04/13/2015.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Aromatic Acids

Samples ANLF15-MW-1 (280-67043-1), ANLF15-MW-2 (280-67043-2), ANLF15-MW-2-D (280-67043-3), ANLF15-MW-3 (280-67043-4), ANLF15-MW-9 (280-67043-5), ANLF15-MW-4 (280-67043-6), ANLF15-MW-5 (280-67043-7), ANLF15-MW-6 (280-67043-8), ANLF15-MW-7 (280-67043-9), ANLF15-MW-22 (280-67043-10), ANLF15-MW-23 (280-67043-11), ANLF15-MW-24 (280-67043-12) and EB-03262015 (280-67043-13) were analyzed for Aromatic Acids in accordance with Aromatic Acids. The samples were analyzed on 04/14/2015 and 04/15/2015.

Please note the 1.11 dilution factor listed for each sample is a part of the method; therefore, reporting limits and method detection limits were not affected.

The MS/MSD associated with analytical batch 240-176402680-279729 was performed on sample ANLF15-MW-2 (280-67043-2). The MS/MSD exhibited spike compound recoveries and RPD data outside the QC control limits for Terephthalic acid. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: E.I. du Pont de Nemours and Company ADQM
Project/Site: CAP-LANDFILL Annual 15

TestAmerica Job ID: 280-67043-1
SDG: 280-67043-1

Client Sample ID: ANLF15-MW-1 — **Lab Sample ID: 280-67043-1**

No Detections.

Client Sample ID: ANLF15-MW-2 — **Lab Sample ID: 280-67043-2**

No Detections.

Client Sample ID: ANLF15-MW-2-D — **Lab Sample ID: 280-67043-3**

No Detections.

Client Sample ID: ANLF15-MW-3 — **Lab Sample ID: 280-67043-4**

No Detections.

Client Sample ID: ANLF15-MW-9 — **Lab Sample ID: 280-67043-5**

No Detections.

Client Sample ID: ANLF15-MW-4 — **Lab Sample ID: 280-67043-6**

No Detections.

Client Sample ID: ANLF15-MW-5 — **Lab Sample ID: 280-67043-7**

No Detections.

Client Sample ID: ANLF15-MW-6 — **Lab Sample ID: 280-67043-8**

No Detections.

Client Sample ID: ANLF15-MW-7 — **Lab Sample ID: 280-67043-9**

No Detections.

Client Sample ID: ANLF15-MW-22 — **Lab Sample ID: 280-67043-10**

No Detections.

Client Sample ID: ANLF15-MW-23 — **Lab Sample ID: 280-67043-11**

No Detections.

Client Sample ID: ANLF15-MW-24 — **Lab Sample ID: 280-67043-12**

No Detections.

Client Sample ID: EB-03262015 — **Lab Sample ID: 280-67043-13**

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: E.I. du Pont de Nemours and Company ADQM
Project/Site: CAP-LANDFILL Annual 15

TestAmerica Job ID: 280-67043-1
SDG: 280-67043-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL SAV
Aromatic Acids	Aromatic Acids (HPLC)	TAL-NC	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL-NC = TestAmerica Laboratories, North Canton, Facility Standard Operating Procedure.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: E.I. du Pont de Nemours and Company ADQM
Project/Site: CAP-LANDFILL Annual 15

TestAmerica Job ID: 280-67043-1
SDG: 280-67043-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-67043-1	ANLF15-MW-1	Water	03/24/15 11:40	03/27/15 09:54
280-67043-2	ANLF15-MW-2	Water	03/24/15 09:55	03/27/15 09:54
280-67043-3	ANLF15-MW-2-D	Water	03/24/15 09:55	03/27/15 09:54
280-67043-4	ANLF15-MW-3	Water	03/24/15 17:00	03/27/15 09:54
280-67043-5	ANLF15-MW-9	Water	03/24/15 18:15	03/27/15 09:54
280-67043-6	ANLF15-MW-4	Water	03/24/15 10:15	03/27/15 09:54
280-67043-7	ANLF15-MW-5	Water	03/24/15 11:00	03/27/15 09:54
280-67043-8	ANLF15-MW-6	Water	03/25/15 09:05	03/27/15 09:54
280-67043-9	ANLF15-MW-7	Water	03/25/15 12:10	03/27/15 09:54
280-67043-10	ANLF15-MW-22	Water	03/25/15 17:05	03/27/15 09:54
280-67043-11	ANLF15-MW-23	Water	03/25/15 15:00	03/27/15 09:54
280-67043-12	ANLF15-MW-24	Water	03/25/15 16:00	03/27/15 09:54
280-67043-13	EB-03262015	Water	03/26/15 08:45	03/27/15 09:54

Client Sample Results

Client: E.I. du Pont de Nemours and Company ADQM
Project/Site: CAP-LANDFILL Annual 15

TestAmerica Job ID: 280-67043-1
SDG: 280-67043-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: ANLF15-MW-1
Date Collected: 03/24/15 11:40
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl terephthalate	5.1	U	10	5.1	ug/L		03/29/15 14:54	04/13/15 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	73		39 - 124	03/29/15 14:54	04/13/15 16:00	1
2-Fluorobiphenyl	63		32 - 113	03/29/15 14:54	04/13/15 16:00	1
2-Fluorophenol (Surr)	49		26 - 109	03/29/15 14:54	04/13/15 16:00	1
Nitrobenzene-d5 (Surr)	60		32 - 118	03/29/15 14:54	04/13/15 16:00	1
Phenol-d5 (Surr)	52		27 - 110	03/29/15 14:54	04/13/15 16:00	1
Terphenyl-d14 (Surr)	41		10 - 126	03/29/15 14:54	04/13/15 16:00	1

Client Sample ID: ANLF15-MW-2
Date Collected: 03/24/15 09:55
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl terephthalate	5.0	U	10	5.0	ug/L		03/29/15 14:54	04/13/15 16:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	59		39 - 124	03/29/15 14:54	04/13/15 16:23	1
2-Fluorobiphenyl	48		32 - 113	03/29/15 14:54	04/13/15 16:23	1
2-Fluorophenol (Surr)	41		26 - 109	03/29/15 14:54	04/13/15 16:23	1
Nitrobenzene-d5 (Surr)	48		32 - 118	03/29/15 14:54	04/13/15 16:23	1
Phenol-d5 (Surr)	44		27 - 110	03/29/15 14:54	04/13/15 16:23	1
Terphenyl-d14 (Surr)	73		10 - 126	03/29/15 14:54	04/13/15 16:23	1

Client Sample ID: ANLF15-MW-2-D
Date Collected: 03/24/15 09:55
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl terephthalate	5.2	U	10	5.2	ug/L		03/29/15 14:54	04/13/15 16:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	65		39 - 124	03/29/15 14:54	04/13/15 16:47	1
2-Fluorobiphenyl	56		32 - 113	03/29/15 14:54	04/13/15 16:47	1
2-Fluorophenol (Surr)	45		26 - 109	03/29/15 14:54	04/13/15 16:47	1
Nitrobenzene-d5 (Surr)	54		32 - 118	03/29/15 14:54	04/13/15 16:47	1
Phenol-d5 (Surr)	50		27 - 110	03/29/15 14:54	04/13/15 16:47	1
Terphenyl-d14 (Surr)	80		10 - 126	03/29/15 14:54	04/13/15 16:47	1

Client Sample ID: ANLF15-MW-3
Date Collected: 03/24/15 17:00
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl terephthalate	5.3	U	11	5.3	ug/L		03/29/15 14:54	04/13/15 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	75		39 - 124	03/29/15 14:54	04/13/15 17:11	1
2-Fluorobiphenyl	69		32 - 113	03/29/15 14:54	04/13/15 17:11	1
2-Fluorophenol (Surr)	51		26 - 109	03/29/15 14:54	04/13/15 17:11	1
Nitrobenzene-d5 (Surr)	63		32 - 118	03/29/15 14:54	04/13/15 17:11	1
Phenol-d5 (Surr)	57		27 - 110	03/29/15 14:54	04/13/15 17:11	1
Terphenyl-d14 (Surr)	54		10 - 126	03/29/15 14:54	04/13/15 17:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: ANLF15-MW-9
Date Collected: 03/24/15 18:15
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl terephthalate	5.0	U	10	5.0	ug/L		03/29/15 14:54	04/13/15 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*39 - 124*	*03/29/15 14:54*	*04/13/15 17:34*	*1*
2-Fluorobiphenyl	*73*		*32 - 113*	*03/29/15 14:54*	*04/13/15 17:34*	*1*
2-Fluorophenol (Surr)	*53*		*26 - 109*	*03/29/15 14:54*	*04/13/15 17:34*	*1*
Nitrobenzene-d5 (Surr)	*66*		*32 - 118*	*03/29/15 14:54*	*04/13/15 17:34*	*1*
Phenol-d5 (Surr)	*57*		*27 - 110*	*03/29/15 14:54*	*04/13/15 17:34*	*1*
Terphenyl-d14 (Surr)	*52*		*10 - 126*	*03/29/15 14:54*	*04/13/15 17:34*	*1*

Client Sample ID: ANLF15-MW-4
Date Collected: 03/24/15 10:15
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl terephthalate	5.4	U	11	5.4	ug/L		03/29/15 14:54	04/13/15 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*61*		*39 - 124*	*03/29/15 14:54*	*04/13/15 17:58*	*1*
2-Fluorobiphenyl	*57*		*32 - 113*	*03/29/15 14:54*	*04/13/15 17:58*	*1*
2-Fluorophenol (Surr)	*44*		*26 - 109*	*03/29/15 14:54*	*04/13/15 17:58*	*1*
Nitrobenzene-d5 (Surr)	*58*		*32 - 118*	*03/29/15 14:54*	*04/13/15 17:58*	*1*
Phenol-d5 (Surr)	*50*		*27 - 110*	*03/29/15 14:54*	*04/13/15 17:58*	*1*
Terphenyl-d14 (Surr)	*83*		*10 - 126*	*03/29/15 14:54*	*04/13/15 17:58*	*1*

Client Sample ID: ANLF15-MW-5
Date Collected: 03/24/15 11:00
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl terephthalate	5.0	U	10	5.0	ug/L		03/29/15 14:54	04/13/15 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*49*		*39 - 124*	*03/29/15 14:54*	*04/13/15 18:21*	*1*
2-Fluorobiphenyl	*49*		*32 - 113*	*03/29/15 14:54*	*04/13/15 18:21*	*1*
2-Fluorophenol (Surr)	*43*		*26 - 109*	*03/29/15 14:54*	*04/13/15 18:21*	*1*
Nitrobenzene-d5 (Surr)	*50*		*32 - 118*	*03/29/15 14:54*	*04/13/15 18:21*	*1*
Phenol-d5 (Surr)	*48*		*27 - 110*	*03/29/15 14:54*	*04/13/15 18:21*	*1*
Terphenyl-d14 (Surr)	*82*		*10 - 126*	*03/29/15 14:54*	*04/13/15 18:21*	*1*

Client Sample ID: ANLF15-MW-6
Date Collected: 03/25/15 09:05
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl terephthalate	5.1	U	10	5.1	ug/L		03/29/15 14:54	04/13/15 18:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*39 - 124*	*03/29/15 14:54*	*04/13/15 18:44*	*1*
2-Fluorobiphenyl	*63*		*32 - 113*	*03/29/15 14:54*	*04/13/15 18:44*	*1*
2-Fluorophenol (Surr)	*51*		*26 - 109*	*03/29/15 14:54*	*04/13/15 18:44*	*1*
Nitrobenzene-d5 (Surr)	*64*		*32 - 118*	*03/29/15 14:54*	*04/13/15 18:44*	*1*
Phenol-d5 (Surr)	*56*		*27 - 110*	*03/29/15 14:54*	*04/13/15 18:44*	*1*
Terphenyl-d14 (Surr)	*52*		*10 - 126*	*03/29/15 14:54*	*04/13/15 18:44*	*1*

Method: Aromatic Acids - Aromatic Acids (HPLC)

Client Sample ID: ANLF15-MW-1
Date Collected: 03/24/15 11:40
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Terephthalic acid	100	U	100	100	ug/L			04/14/15 15:38	1.11

Client Sample ID: ANLF15-MW-2
Date Collected: 03/24/15 09:55
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Terephthalic acid	100	U F1 F2	100	100	ug/L			04/14/15 16:20	1.11

Client Sample ID: ANLF15-MW-2-D
Date Collected: 03/24/15 09:55
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Terephthalic acid	100	U	100	100	ug/L			04/14/15 18:46	1.11

Client Sample ID: ANLF15-MW-3
Date Collected: 03/24/15 17:00
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Terephthalic acid	100	U	100	100	ug/L			04/14/15 19:27	1.11

Client Sample ID: ANLF15-MW-9
Date Collected: 03/24/15 18:15
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Terephthalic acid	100	U	100	100	ug/L			04/14/15 20:09	1.11

Client Sample ID: ANLF15-MW-4
Date Collected: 03/24/15 10:15
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Terephthalic acid	100	U	100	100	ug/L			04/14/15 20:51	1.11

Client Sample ID: ANLF15-MW-5
Date Collected: 03/24/15 11:00
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Terephthalic acid	100	U	100	100	ug/L			04/14/15 21:12	1.11

Client Sample ID: ANLF15-MW-6
Date Collected: 03/25/15 09:05
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Terephthalic acid	100	U	100	100	ug/L			04/14/15 21:32	1.11

Client Sample ID: ANLF15-MW-7
Date Collected: 03/25/15 12:10
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Terephthalic acid	100	U	100	100	ug/L			04/14/15 21:53	1.11

Client Sample Results

Client: E.I. du Pont de Nemours and Company ADQM
Project/Site: CAP-LANDFILL Annual 15

TestAmerica Job ID: 280-67043-1
SDG: 280-67043-1

Method: Aromatic Acids - Aromatic Acids (HPLC)

Client Sample ID: ANLF15-MW-22
Date Collected: 03/25/15 17:05
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Terephthalic acid	100	U	100	100	ug/L			04/15/15 07:09	1.11

Client Sample ID: ANLF15-MW-23
Date Collected: 03/25/15 15:00
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Terephthalic acid	100	U	100	100	ug/L			04/15/15 08:12	1.11

Client Sample ID: ANLF15-MW-24
Date Collected: 03/25/15 16:00
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Terephthalic acid	100	U	100	100	ug/L			04/15/15 09:14	1.11

Client Sample ID: EB-03262015
Date Collected: 03/26/15 08:45
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Terephthalic acid	100	U	100	100	ug/L			04/15/15 09:35	1.11

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: ANLF15-MW-7
Date Collected: 03/25/15 12:10
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl terephthalate	5.1	U	10	5.1	ug/L		03/29/15 14:54	04/13/15 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	49		39 - 124	03/29/15 14:54	04/13/15 19:08	1
2-Fluorobiphenyl	46		32 - 113	03/29/15 14:54	04/13/15 19:08	1
2-Fluorophenol (Surr)	39		26 - 109	03/29/15 14:54	04/13/15 19:08	1
Nitrobenzene-d5 (Surr)	48		32 - 118	03/29/15 14:54	04/13/15 19:08	1
Phenol-d5 (Surr)	44		27 - 110	03/29/15 14:54	04/13/15 19:08	1
Terphenyl-d14 (Surr)	70		10 - 126	03/29/15 14:54	04/13/15 19:08	1

Client Sample ID: ANLF15-MW-22
Date Collected: 03/25/15 17:05
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl terephthalate	5.0	U	10	5.0	ug/L		03/29/15 14:54	04/13/15 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	48		39 - 124	03/29/15 14:54	04/13/15 19:31	1
2-Fluorobiphenyl	47		32 - 113	03/29/15 14:54	04/13/15 19:31	1
2-Fluorophenol (Surr)	39		26 - 109	03/29/15 14:54	04/13/15 19:31	1
Nitrobenzene-d5 (Surr)	50		32 - 118	03/29/15 14:54	04/13/15 19:31	1
Phenol-d5 (Surr)	43		27 - 110	03/29/15 14:54	04/13/15 19:31	1
Terphenyl-d14 (Surr)	81		10 - 126	03/29/15 14:54	04/13/15 19:31	1

Client Sample ID: ANLF15-MW-23
Date Collected: 03/25/15 15:00
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl terephthalate	5.2	U	10	5.2	ug/L		03/29/15 14:54	04/13/15 19:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		39 - 124	03/29/15 14:54	04/13/15 19:55	1
2-Fluorobiphenyl	59		32 - 113	03/29/15 14:54	04/13/15 19:55	1
2-Fluorophenol (Surr)	44		26 - 109	03/29/15 14:54	04/13/15 19:55	1
Nitrobenzene-d5 (Surr)	62		32 - 118	03/29/15 14:54	04/13/15 19:55	1
Phenol-d5 (Surr)	48		27 - 110	03/29/15 14:54	04/13/15 19:55	1
Terphenyl-d14 (Surr)	25		10 - 126	03/29/15 14:54	04/13/15 19:55	1

Client Sample ID: ANLF15-MW-24
Date Collected: 03/25/15 16:00
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl terephthalate	5.1	U	10	5.1	ug/L		03/29/15 14:54	04/13/15 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	72		39 - 124	03/29/15 14:54	04/13/15 20:18	1
2-Fluorobiphenyl	61		32 - 113	03/29/15 14:54	04/13/15 20:18	1
2-Fluorophenol (Surr)	45		26 - 109	03/29/15 14:54	04/13/15 20:18	1
Nitrobenzene-d5 (Surr)	56		32 - 118	03/29/15 14:54	04/13/15 20:18	1
Phenol-d5 (Surr)	46		27 - 110	03/29/15 14:54	04/13/15 20:18	1
Terphenyl-d14 (Surr)	30		10 - 126	03/29/15 14:54	04/13/15 20:18	1

Client Sample Results

Client: E.I. du Pont de Nemours and Company ADQM
Project/Site: CAP-LANDFILL Annual 15

TestAmerica Job ID: 280-67043-1
SDG: 280-67043-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: EB-03262015
Date Collected: 03/26/15 08:45
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl terephthalate	4.9	U	9.9	4.9	ug/L		03/29/15 14:54	04/13/15 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*45*		*39 - 124*	*03/29/15 14:54*	*04/13/15 20:42*	*1*
2-Fluorobiphenyl	*45*		*32 - 113*	*03/29/15 14:54*	*04/13/15 20:42*	*1*
2-Fluorophenol (Surr)	*38*		*26 - 109*	*03/29/15 14:54*	*04/13/15 20:42*	*1*
Nitrobenzene-d5 (Surr)	*46*		*32 - 118*	*03/29/15 14:54*	*04/13/15 20:42*	*1*
Phenol-d5 (Surr)	*42*		*27 - 110*	*03/29/15 14:54*	*04/13/15 20:42*	*1*
Terphenyl-d14 (Surr)	*82*		*10 - 126*	*03/29/15 14:54*	*04/13/15 20:42*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-376578/20-A
Matrix: Water
Analysis Batch: 378469

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 376578

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl terephthalate	5.0	U	10	5.0	ug/L		03/29/15 14:54	04/13/15 15:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	70		39 - 124	03/29/15 14:54	04/13/15 15:36	1
2-Fluorobiphenyl	65		32 - 113	03/29/15 14:54	04/13/15 15:36	1
2-Fluorophenol (Surr)	56		26 - 109	03/29/15 14:54	04/13/15 15:36	1
Nitrobenzene-d5 (Surr)	71		32 - 118	03/29/15 14:54	04/13/15 15:36	1
Phenol-d5 (Surr)	66		27 - 110	03/29/15 14:54	04/13/15 15:36	1
Terphenyl-d14 (Surr)	85		10 - 126	03/29/15 14:54	04/13/15 15:36	1

Lab Sample ID: LCS 680-376578/27-A
Matrix: Water
Analysis Batch: 378469

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 376578

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dimethyl terephthalate	100	70.1		ug/L		70	35 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	54		39 - 124
2-Fluorobiphenyl	50		32 - 113
2-Fluorophenol (Surr)	46		26 - 109
Nitrobenzene-d5 (Surr)	58		32 - 118
Phenol-d5 (Surr)	50		27 - 110
Terphenyl-d14 (Surr)	78		10 - 126

Lab Sample ID: 280-67043-2 MS
Matrix: Water
Analysis Batch: 378469

Client Sample ID: ANLF15-MW-2
Prep Type: Total/NA
Prep Batch: 376578

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dimethyl terephthalate	5.0	U	105	74.0		ug/L		71	35 - 121

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	55		39 - 124
2-Fluorobiphenyl	53		32 - 113
2-Fluorophenol (Surr)	45		26 - 109
Nitrobenzene-d5 (Surr)	63		32 - 118
Phenol-d5 (Surr)	53		27 - 110
Terphenyl-d14 (Surr)	80		10 - 126

Lab Sample ID: 280-67043-2 MSD
Matrix: Water
Analysis Batch: 378469

Client Sample ID: ANLF15-MW-2
Prep Type: Total/NA
Prep Batch: 376578

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dimethyl terephthalate	5.0	U	103	76.6		ug/L		74	35 - 121	3	50

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-67043-2 MSD
Matrix: Water
Analysis Batch: 378469

Client Sample ID: ANLF15-MW-2
Prep Type: Total/NA
Prep Batch: 376578

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	58		39 - 124
2-Fluorobiphenyl	56		32 - 113
2-Fluorophenol (Surr)	47		26 - 109
Nitrobenzene-d5 (Surr)	61		32 - 118
Phenol-d5 (Surr)	53		27 - 110
Terphenyl-d14 (Surr)	86		10 - 126

Method: Aromatic Acids - Aromatic Acids (HPLC)

Lab Sample ID: MB 240-176402/4
Matrix: Water
Analysis Batch: 176402

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Terephthalic acid	90	U	90	90	ug/L			04/14/15 14:57	1

Lab Sample ID: LCS 240-176402/5
Matrix: Water
Analysis Batch: 176402

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Terephthalic acid	1180	1270		ug/L		108	80 - 120

Lab Sample ID: 280-67043-2 MS
Matrix: Water
Analysis Batch: 176402

Client Sample ID: ANLF15-MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Terephthalic acid	100	U F1 F2	1180	290	F1	ug/L		25	80 - 120

Lab Sample ID: 280-67043-2 MSD
Matrix: Water
Analysis Batch: 176402

Client Sample ID: ANLF15-MW-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Terephthalic acid	100	U F1 F2	1180	770	F1 F2	ug/L		65	80 - 120	90	20

Lab Sample ID: MB 240-176453/5
Matrix: Water
Analysis Batch: 176453

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Terephthalic acid	90	U	90	90	ug/L			04/15/15 07:30	1

Method: Aromatic Acids - Aromatic Acids (HPLC) (Continued)

Lab Sample ID: LCS 240-176453/6
Matrix: Water
Analysis Batch: 176453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Terephthalic acid	1180	1150		ug/L		97	80 - 120

Lab Sample ID: 280-67043-11 MS
Matrix: Water
Analysis Batch: 176453

Client Sample ID: ANLF15-MW-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Terephthalic acid	100	U	1180	1130		ug/L		96	80 - 120

Lab Sample ID: 280-67043-11 MSD
Matrix: Water
Analysis Batch: 176453

Client Sample ID: ANLF15-MW-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Terephthalic acid	100	U	1180	1120		ug/L		95	80 - 120	1	20

QC Association Summary

Client: E.I. du Pont de Nemours and Company ADQM
Project/Site: CAP-LANDFILL Annual 15

TestAmerica Job ID: 280-67043-1
SDG: 280-67043-1

GC/MS Semi VOA

Prep Batch: 376578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-67043-1	ANLF15-MW-1	Total/NA	Water	3520C	
280-67043-2	ANLF15-MW-2	Total/NA	Water	3520C	
280-67043-2 MS	ANLF15-MW-2	Total/NA	Water	3520C	
280-67043-2 MSD	ANLF15-MW-2	Total/NA	Water	3520C	
280-67043-3	ANLF15-MW-2-D	Total/NA	Water	3520C	
280-67043-4	ANLF15-MW-3	Total/NA	Water	3520C	
280-67043-5	ANLF15-MW-9	Total/NA	Water	3520C	
280-67043-6	ANLF15-MW-4	Total/NA	Water	3520C	
280-67043-7	ANLF15-MW-5	Total/NA	Water	3520C	
280-67043-8	ANLF15-MW-6	Total/NA	Water	3520C	
280-67043-9	ANLF15-MW-7	Total/NA	Water	3520C	
280-67043-10	ANLF15-MW-22	Total/NA	Water	3520C	
280-67043-11	ANLF15-MW-23	Total/NA	Water	3520C	
280-67043-12	ANLF15-MW-24	Total/NA	Water	3520C	
280-67043-13	EB-03262015	Total/NA	Water	3520C	
LCS 680-376578/27-A	Lab Control Sample	Total/NA	Water	3520C	
MB 680-376578/20-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 378469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-67043-1	ANLF15-MW-1	Total/NA	Water	8270D	376578
280-67043-2	ANLF15-MW-2	Total/NA	Water	8270D	376578
280-67043-2 MS	ANLF15-MW-2	Total/NA	Water	8270D	376578
280-67043-2 MSD	ANLF15-MW-2	Total/NA	Water	8270D	376578
280-67043-3	ANLF15-MW-2-D	Total/NA	Water	8270D	376578
280-67043-4	ANLF15-MW-3	Total/NA	Water	8270D	376578
280-67043-5	ANLF15-MW-9	Total/NA	Water	8270D	376578
280-67043-6	ANLF15-MW-4	Total/NA	Water	8270D	376578
280-67043-7	ANLF15-MW-5	Total/NA	Water	8270D	376578
280-67043-8	ANLF15-MW-6	Total/NA	Water	8270D	376578
280-67043-9	ANLF15-MW-7	Total/NA	Water	8270D	376578
280-67043-10	ANLF15-MW-22	Total/NA	Water	8270D	376578
280-67043-11	ANLF15-MW-23	Total/NA	Water	8270D	376578
280-67043-12	ANLF15-MW-24	Total/NA	Water	8270D	376578
280-67043-13	EB-03262015	Total/NA	Water	8270D	376578
LCS 680-376578/27-A	Lab Control Sample	Total/NA	Water	8270D	376578
MB 680-376578/20-A	Method Blank	Total/NA	Water	8270D	376578

HPLC/IC

Analysis Batch: 176402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-67043-1	ANLF15-MW-1	Total/NA	Water	Aromatic Acids	
280-67043-2	ANLF15-MW-2	Total/NA	Water	Aromatic Acids	
280-67043-2 MS	ANLF15-MW-2	Total/NA	Water	Aromatic Acids	
280-67043-2 MSD	ANLF15-MW-2	Total/NA	Water	Aromatic Acids	
280-67043-3	ANLF15-MW-2-D	Total/NA	Water	Aromatic Acids	
280-67043-4	ANLF15-MW-3	Total/NA	Water	Aromatic Acids	
280-67043-5	ANLF15-MW-9	Total/NA	Water	Aromatic Acids	
280-67043-6	ANLF15-MW-4	Total/NA	Water	Aromatic Acids	

HPLC/IC (Continued)

Analysis Batch: 176402 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-67043-7	ANLF15-MW-5	Total/NA	Water	Aromatic Acids	
280-67043-8	ANLF15-MW-6	Total/NA	Water	Aromatic Acids	
280-67043-9	ANLF15-MW-7	Total/NA	Water	Aromatic Acids	
LCS 240-176402/5	Lab Control Sample	Total/NA	Water	Aromatic Acids	
MB 240-176402/4	Method Blank	Total/NA	Water	Aromatic Acids	

Analysis Batch: 176453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-67043-10	ANLF15-MW-22	Total/NA	Water	Aromatic Acids	
280-67043-11	ANLF15-MW-23	Total/NA	Water	Aromatic Acids	
280-67043-11 MS	ANLF15-MW-23	Total/NA	Water	Aromatic Acids	
280-67043-11 MSD	ANLF15-MW-23	Total/NA	Water	Aromatic Acids	
280-67043-12	ANLF15-MW-24	Total/NA	Water	Aromatic Acids	
280-67043-13	EB-03262015	Total/NA	Water	Aromatic Acids	
LCS 240-176453/6	Lab Control Sample	Total/NA	Water	Aromatic Acids	
MB 240-176453/5	Method Blank	Total/NA	Water	Aromatic Acids	

Lab Chronicle

Client: E.I. du Pont de Nemours and Company ADQM
Project/Site: CAP-LANDFILL Annual 15

TestAmerica Job ID: 280-67043-1
SDG: 280-67043-1

Client Sample ID: ANLF15-MW-1

Lab Sample ID: 280-67043-1
Matrix: Water

Date Collected: 03/24/15 11:40
Date Received: 03/27/15 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			990 mL	1.0 mL	376578	03/29/15 14:54	RBS	TAL SAV
Total/NA	Analysis	8270D		1	990 mL	1.0 mL	378469	04/13/15 16:00	RAM	TAL SAV
Total/NA	Analysis	Aromatic Acids		1.11	1 mL		176402	04/14/15 15:38	KMG	TAL CAN

Client Sample ID: ANLF15-MW-2

Lab Sample ID: 280-67043-2
Matrix: Water

Date Collected: 03/24/15 09:55
Date Received: 03/27/15 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1004.4 mL	1.0 mL	376578	03/29/15 14:54	RBS	TAL SAV
Total/NA	Analysis	8270D		1	1004.4 mL	1.0 mL	378469	04/13/15 16:23	RAM	TAL SAV
Total/NA	Analysis	Aromatic Acids		1.11	1 mL		176402	04/14/15 16:20	KMG	TAL CAN

Client Sample ID: ANLF15-MW-2-D

Lab Sample ID: 280-67043-3
Matrix: Water

Date Collected: 03/24/15 09:55
Date Received: 03/27/15 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			963.1 mL	1.0 mL	376578	03/29/15 14:54	RBS	TAL SAV
Total/NA	Analysis	8270D		1	963.1 mL	1.0 mL	378469	04/13/15 16:47	RAM	TAL SAV
Total/NA	Analysis	Aromatic Acids		1.11	1 mL		176402	04/14/15 18:46	KMG	TAL CAN

Client Sample ID: ANLF15-MW-3

Lab Sample ID: 280-67043-4
Matrix: Water

Date Collected: 03/24/15 17:00
Date Received: 03/27/15 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			944.4 mL	1.0 mL	376578	03/29/15 14:54	RBS	TAL SAV
Total/NA	Analysis	8270D		1	944.4 mL	1.0 mL	378469	04/13/15 17:11	RAM	TAL SAV
Total/NA	Analysis	Aromatic Acids		1.11	1 mL		176402	04/14/15 19:27	KMG	TAL CAN

Client Sample ID: ANLF15-MW-9

Lab Sample ID: 280-67043-5
Matrix: Water

Date Collected: 03/24/15 18:15
Date Received: 03/27/15 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			993.1 mL	1.0 mL	376578	03/29/15 14:54	RBS	TAL SAV
Total/NA	Analysis	8270D		1	993.1 mL	1.0 mL	378469	04/13/15 17:34	RAM	TAL SAV
Total/NA	Analysis	Aromatic Acids		1.11	1 mL		176402	04/14/15 20:09	KMG	TAL CAN

Lab Chronicle

Client: E.I. du Pont de Nemours and Company ADQM
Project/Site: CAP-LANDFILL Annual 15

TestAmerica Job ID: 280-67043-1
SDG: 280-67043-1

Client Sample ID: ANLF15-MW-4

Date Collected: 03/24/15 10:15
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			930 mL	1.0 mL	376578	03/29/15 14:54	RBS	TAL SAV
Total/NA	Analysis	8270D		1	930 mL	1.0 mL	378469	04/13/15 17:58	RAM	TAL SAV
Total/NA	Analysis	Aromatic Acids		1.11	1 mL		176402	04/14/15 20:51	KMG	TAL CAN

Client Sample ID: ANLF15-MW-5

Date Collected: 03/24/15 11:00
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			992.5 mL	1.0 mL	376578	03/29/15 14:54	RBS	TAL SAV
Total/NA	Analysis	8270D		1	992.5 mL	1.0 mL	378469	04/13/15 18:21	RAM	TAL SAV
Total/NA	Analysis	Aromatic Acids		1.11	1 mL		176402	04/14/15 21:12	KMG	TAL CAN

Client Sample ID: ANLF15-MW-6

Date Collected: 03/25/15 09:05
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			971.1 mL	1.0 mL	376578	03/29/15 14:54	RBS	TAL SAV
Total/NA	Analysis	8270D		1	971.1 mL	1.0 mL	378469	04/13/15 18:44	RAM	TAL SAV
Total/NA	Analysis	Aromatic Acids		1.11	1 mL		176402	04/14/15 21:32	KMG	TAL CAN

Client Sample ID: ANLF15-MW-7

Date Collected: 03/25/15 12:10
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			982 mL	1.0 mL	376578	03/29/15 14:54	RBS	TAL SAV
Total/NA	Analysis	8270D		1	982 mL	1.0 mL	378469	04/13/15 19:08	RAM	TAL SAV
Total/NA	Analysis	Aromatic Acids		1.11	1 mL		176402	04/14/15 21:53	KMG	TAL CAN

Client Sample ID: ANLF15-MW-22

Date Collected: 03/25/15 17:05
Date Received: 03/27/15 09:54

Lab Sample ID: 280-67043-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			994.8 mL	1.0 mL	376578	03/29/15 14:54	RBS	TAL SAV
Total/NA	Analysis	8270D		1	994.8 mL	1.0 mL	378469	04/13/15 19:31	RAM	TAL SAV
Total/NA	Analysis	Aromatic Acids		1.11	1 mL		176453	04/15/15 07:09	KMG	TAL CAN

Lab Chronicle

Client: E.I. du Pont de Nemours and Company ADQM
Project/Site: CAP-LANDFILL Annual 15

TestAmerica Job ID: 280-67043-1
SDG: 280-67043-1

Client Sample ID: ANLF15-MW-23

Lab Sample ID: 280-67043-11
Matrix: Water

Date Collected: 03/25/15 15:00
Date Received: 03/27/15 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			963.4 mL	1.0 mL	376578	03/29/15 14:54	RBS	TAL SAV
Total/NA	Analysis	8270D		1	963.4 mL	1.0 mL	378469	04/13/15 19:55	RAM	TAL SAV
Total/NA	Analysis	Aromatic Acids		1.11	1 mL		176453	04/15/15 08:12	KMG	TAL CAN

Client Sample ID: ANLF15-MW-24

Lab Sample ID: 280-67043-12
Matrix: Water

Date Collected: 03/25/15 16:00
Date Received: 03/27/15 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			979.3 mL	1.0 mL	376578	03/29/15 14:54	RBS	TAL SAV
Total/NA	Analysis	8270D		1	979.3 mL	1.0 mL	378469	04/13/15 20:18	RAM	TAL SAV
Total/NA	Analysis	Aromatic Acids		1.11	1 mL		176453	04/15/15 09:14	KMG	TAL CAN

Client Sample ID: EB-03262015

Lab Sample ID: 280-67043-13
Matrix: Water

Date Collected: 03/26/15 08:45
Date Received: 03/27/15 09:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1010.9 mL	1.0 mL	376578	03/29/15 14:54	RBS	TAL SAV
Total/NA	Analysis	8270D		1	1010.9 mL	1.0 mL	378469	04/13/15 20:42	RAM	TAL SAV
Total/NA	Analysis	Aromatic Acids		1.11	1 mL		176453	04/15/15 09:35	KMG	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Login Sample Receipt Checklist

Client: E.I. du Pont de Nemours and Company ADQM

Job Number: 280-67043-1
SDG Number: 280-67043-1

Login Number: 67043
List Number: 1
Creator: Johnston, Michelle A

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Field on COC is blank.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS

280-67043 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 tel 330.497.9396 fax 330.497.0772 www.testamericainc.com

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

241 C2-9

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information

Client Contact: Ms. Wanda Davis
Company: E.I. du Pont de Nemours and Company
Address: 4417 Lancaster Pike Barley Mill Plaza Building 27
City: Wilmington
State, Zip: DE, 19805
Phone: 302-992-2568(Tel) 302-892-1533(Fax)
Email: wanda.davis@urs.com
Project Name: CAP-LANDFILL Annual 15
Site:

Sampler:
Phone:
Due Date Requested:
TAT Requested (days): 15 Business Days
PO #: LBIO-67048/9267-7720100C-WH06504182
WO #:
Project #: 28011586
SSOW#:

Lab PM: Johnston, Michelle A (TA Denver)
E-Mail: michelle.johnston@testamericainc.com
Carrier Tracking No(s):
COC No: 280-40809-16054.1
Page:
Job #:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wwater, Ssolid, Ooil/oil, BTtissue, Aair)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Aromatic_Acids - Terephthalic acid (ship to TA North Canton)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
ANLF15-MW-1	3-24-15	1140		Water			X		
ANLF15-MW-2	3-24-15	0955		Water		X	X		
ANLF15-MW-2-MS	↓	↓		Water			X		
ANLF15-MW-2-MSD	↓	↓		Water			X		
ANLF15-MW-2-D	↓	↓		Water			X		
ANLF15-MW-3	↓	1700		Water			X		
ANLF15-MW-9	↓	1815		Water			X		
ANLF15-MW-4	↓	1015		Water			X		
ANLF15-MW-5	↓	1100		Water			X		
ANLF15-MW-6	3-25-15	0905		Water			X		
ANLF15-MW-7	↓	1210		Water			X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: [signature] Date: 3/13/15 Time: 1320 Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	3-26-15 1400	Parson	[signature]	3-26-15 1000	Parson
			[signature]	3-27-15 930	TA

Relinquished by: Date/Time: Company Received by: Date/Time: Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: Johnston, Michelle A (TA Denver)	Carrier Tracking No(s):	COC No: 280-40609-16054.2
Client Contact: Ms. Wanda Davis	Phone:	E-Mail: michelle.johnston@testamericainc.com		Page:
Company: E.I. du Pont de Nemours and Company				Job #:
Address: 4417 Lancaster Pike Barley Mill Plaza Building 27	Due Date Requested:			
City: Wilmington	TAT Requested (days): 15 Business Days			
State, Zip: DE, 19805				
Phone: 302-992-2568(Tel) 302-892-1533(Fax)	PO #: LBIO-67048/9267-7720100C-WH06504182			
Email: wanda.davis@urs.com	WO #:			
Project Name: CAP-LANDFILL Annual 15	Project #: 28011586			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA
M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Aromatic_Acids - Terephthalic acid (ship to TA North Canton)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
ANLF15-MW-22	3-25-15	1705		Water			X		
ANLF15-MW-23	3-25-15	1500		Water			X		
ANLF15-MW-24	↓	1600		Water			X		
EB-03262015	3-26-15	0845		Water			X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: [signature]	Date: 3/13/15	Time: 1320	Method of Shipment:		
Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time: 3-23-15 10:00	Company Parson
Relinquished by: [signature]	Date/Time: 3-26-15 1400	Company	Received by: [signature]	Date/Time: 3-27-15 930	Company TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

TestAmerica Canton Sample Receipt Form/Narrative Login # : 280-07043
Canton Facility

Client Dupont Site Name _____ Cooler unpacked by:

Cooler Received on 3-27-15 Opened on 3-27-15

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box (Client Cooler) Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt
   - ~~IR GUN# A (CF +4.0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~
   - IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. 2.4 °C Corrected Cooler Temp. 2.9 °C
   - ~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~
   - IR GUN# 8 (CF -1.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

☐ See Multiple Cooler Form

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity ___/___ (Yes) No
   - -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   - -Were custody seals on the bottle(s)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the sampler(s) clearly identified on the COC? Yes (No)
7. Did all bottles arrive in good condition (Unbroken)? (Yes) No
8. Could all bottle labels be reconciled with the COC? (Yes) No
9. Were correct bottle(s) used for the test(s) indicated? (Yes) No
10. Sufficient quantity received to perform indicated analyses? (Yes) No
11. Were sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# HC425511
12. Were VOAs on the COC? (Yes) No
13. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes (No)

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

TestA nerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler	Lab PM: Johnston, Michelle A (TA Denver)	Carrier Tracking No(s):	COC No: 280-40610-16055.2
Client Contact: Ms. Wanda Davis	Phone:	E-Mail: michelle.johnston@testamericainc.com		Page:
Company: E I du Pont de Nemours and Company				Job #:
Address: 4417 Lancaster Pike Barley Mill Plaza Building 27	Due Date Requested:			
City: Wilmington	TAT Requested (days): 15 Business Days			
State, Zip: DE, 19805				
Phone: 302-992-2568(Tel) 302-892-1533(Fax)	PO #: LBIO-67048/9267-7720100C-WH06504182			
Email: wanda.davis@urs.com	WO #:			
Project Name: CAP-LANDFILL Annual 15	Project #: 28011586			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - Dimethylphthalate (ship to TA Savannah)	Total Number of containers	Special Instructions/Note:
				Preservation Code:					
ANLF15-MW-3	3-24-15	1700	G	WATER			X		
ANLF15-MW-9	3-24-15	1815	G	WATER			X		
ANLF15-MW-4	3-24-15	1015	G	WATER			X		
ANLF15-MW-5	3-25-15	1100	G	WATER			X		
ANLF15-MW-6	3-25-15	0905	G	WATER			X		

280-67043 Chain of Custody

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may ... samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: [signature] Date: 3/13/15 Time: 1340 Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	3-26-15 1400	PARSONS	JERRY BOULEY	3-23-15 100	PARSONS
Relinquished by:	Date/Time	Company	Received by: [signature]	3/27/15 09:54	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 12/1.6

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: Johnston, Michelle A (TA Denver)	Carrier Tracking No(s):	COC No: 280-40610-16055.2
Client Contact: Ms. Wanda Davis	Phone:	E-Mail: michelle.johnston@testamericainc.com		Page:
Company: E.I. du Pont de Nemours and Company				Job #:
Address: 4417 Lancaster Pike Barley Mill Plaza Building 27	Due Date Requested:			
City: Wilmington	TAT Requested (days): 15 Business Days			
State, Zip: DE, 19805				
Phone: 302-992-2568(Tel) 302-892-1533(Fax)	PO #: LBIO-67048/9267-7720100C-WH06504182			
Email: wanda.davis@urs.com	WO #:			
Project Name: CAP-LANDFILL Annual 15	Project #: 28011586			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	8270D - Dimethylphthalate (ship to TA Savannah)	Special Instructions/Note:
ANLF15-MW-22	3-25-15	~~1500~~ 1705	C	Water	X	
ANLF15-MW-23	3-25-15	1500	C	Water	X	
ANLF15-MW-24	3-25-15	1600	C	Water	X	
EB-03262015	3-26-15	0845	C	Water	X	
ANLF15-MW-7	3-25-15	1210	C	Water	X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: [signature] Date: 3/23/15 Time: 1340 Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	3-26-15 1400	Parsons	[signature]	3-26-15 1000	Parsons
Relinquished by:	Date/Time:	Company	Received by: [signature]	3/27/15 0954	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 2.8 / 3.2

merica Denver
arrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: Johnston, Michelle A (TA Denver)	Carrier Tracking No(s):	COC No: 280-40610-16055.1
Client Contact: Ms. Wanda Davis	Phone:	E-Mail: michelle.johnston@testamericainc.com		Page:
Company: E.I du Pont de Nemours and Company				Job #:
Address: 4417 Lancaster Pike Barley Mill Plaza Building 27	Due Date Requested:			
City: Wilmington	TAT Requested (days): 15 Business Days			
State, Zip: DE, 19805				
Phone: 302-992-2568(Tel) 302-892-1533(Fax)	PO #: LBIO-67048/9267-7720100C-WH06504182			
Email: wanda.davis@urs.com	WO #			
Project Name: CAP-LANDFILL Annual 15	Project #: 28011586			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - Dimethylphthalate (ship to TA Savannah)	Total Number of containers	Special Instructions/Note:
ANLF15-MW-1	3-24-15	1140		Water			X		
ANLF15-MW-2	3-24-15	0955		Water		X	X		
ANLF15-MW-2-MS				Water			X		
ANLF15-MW-2-MSD				Water			X		
ANLF15-MW-2-D				Water			X		
~~ANLF15-MW-3~~		1700		Water			X		
~~ANLF15-MW-8~~		1815		Water			X		
~~ANLF15-MW-4~~		1005		Water			X		
~~ANLF15-MW-5~~	3-25-15	1100		Water			X		
~~ANLF15-MW-6~~	3-25-15	0905		Water			X		
~~ANLF15-MW-7~~		1210		Water			X		

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: [signature] Date: 3/13/15 Time: 1340 Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	3-26-15 1400	[illegible]	[signature]	3-23-15 1000	[illegible]
			[signature]	3/27/15 09:54	TA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 0.6 / 1.0