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NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

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

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

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

Carteret County Landfill

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

Name: Tony Cahoon Phone: 252-240-9067

E-mail: tonyc@carteretcountygov.org

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Carteret County Landfill	Courthouse Square Beaufort, N.C.	1602	0500	04/02/07

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)

Received MAY 2007 Waste Management

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 Rules, and a 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.

Facility Representative Name (Print): Tony Cahoon Title: Public Works Director (Area Code) Telephone Number:

Signature: Date: 5-21-07

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

Revised 01/2007

Table of Values Which Exceed Established Standards
And/Or Exceed Reporting Levels

Facility Name: CARTERET CO. LANDFILL Permit #: 1602 Lab ID# 6002

Location	Collection Date	Exceeds Std	Parameter	CAS #	Result, ug/l	NC 2L STD **	NC GWP STD **	NC 2B SWS **
Well #2R	04/02/2007		Barium	7440-39-3	306	2000		
Well #2R	04/02/2007	Y	Cadmium	7440-43-9	2	1.75		
Well #2R	04/02/2007		Total Chromium	7440-47-3	15	50		

Received
JUL 2007
Solid Waste Section

** Note: NC 2L STD = NC 2L Ground Water Standard
NC GWP STD = NC Solid Waste Groundwater Protection Standard
NC 2B SWS = NC 2B Surface Water Standard

Environment 1, Inc.
P.O. Box ~~3985~~ . Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6002 **Week: 16**

CARTERET CO. LANDFILL
JOHN LANGDON
COURTHOUSE SQUARE
BEAUFORT NC 28516

(252) 728-8450

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

																						CHLORINE NEUTRALIZED AT COLLECTION
																						pH CHECK (LAB)
																						CONTAINER TYPE, P/G
																						CHEMICAL PRESERVATION
																						A - NONE D - NAOH
																						B - HNO_3 E - HCL
																						C - H_2SO_4 F - ZINC ACETATE
																						G - NA THIOSULFATE
																						PARAMETERS
SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Metals	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2									
Well #4	04 02 07	1030		16	4	G	G	G	G	G	G	G										
Well #6	04 02 07	1015		17	4	G	G	G	G	G	G	G										
Well #1R	04 02 07	1105		16	5	G	G	G	G	G	G	G	G									
Well #2R	04 02 07	1045		16	4	G	G	G	G	G	G	G										
SW-1	04 02 07	1030		18	4	G	G	G	G		G	G										
Duplicate (4)	04 02 07	1030		16	3		G				G	G										
Well #3R	04 02 07	0955		16	4	G	G	G	G	G	G	G										
Trip Blank					2																	

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY: (Please Print) Nlgoe | Fox

SAMPLES RECEIVED IN LAB AT 3.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Lagoe	04 02 07 3:05	Amelia Sadler	4/2/07 3:05
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

№ 144497

FORM #5

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: CARTERET CO. LANDFILL
JOHN LANGDON
COURTHOUSE SQUARE
BEAUFORT, NC 28516-1898

CLIENT ID: 6002

ANALYST: MAO
DATE COLLECTED: 04/02/07
DATE REPORTED: 04/18/07

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

Date Analyzed: / PARAMETERS, ug/l	04/16/07 Duplicate (WELL #4)	04/16/07 Well #3R	04/03/07 Trip Blank
1. Chloromethane	<5.00	<5.00	<5.00
2. Vinyl Chloride	<5.00	<5.00	<5.00
3. Bromomethane	<10.00	<10.00	<10.00
4. Chloroethane	<5.00	<5.00	<5.00
5. Trichlorofluoromethane	<5.00	<5.00	<5.00
6. 1,1-Dichloroethene	<5.00	<5.00	<5.00
7. Acetone	<100.00	<100.00	<100.00
8. Iodomethane	<10.00	<10.00	<10.00
9. Carbon Disulfide	<100.00	<100.00	<100.00
10. Methylene Chloride	<5.00	<5.00	<5.00
11. trans-1,2-Dichloroethene	<5.00	<5.00	<5.00
12. 1,1-Dichloroethane	<5.00	<5.00	<5.00
13. Vinyl Acetate	<50.00	<50.00	<50.00
14. Cis-1,2-Dichloroethene	<5.00	<5.00	<5.00
15. 2-Butanone	<100.00	<100.00	<100.00
16. Bromochloromethane	<3.00	<3.00	<3.00
17. Chloroform	<5.00	<5.00	<5.00
18. 1,1,1-Trichloroethane	<5.00	<5.00	<5.00
19. Carbon Tetrachloride	<5.00	<5.00	<5.00
20. Benzene	<3.00	<3.00	<3.00
21. 1,2-Dichloroethane	<3.00	<3.00	<3.00
22. Trichloroethene	<3.00	<3.00	<3.00
23. 1,2-Dichloropropane	<3.00	<3.00	<3.00
24. Bromodichloromethane	<3.00	<3.00	<3.00
25. Cis-1,3-Dichloropropene	<5.00	<5.00	<5.00
26. 4-Methyl-2-Pentanone	<100.00	<100.00	<100.00
27. Toluene	<5.00	<5.00	<5.00
28. trans-1,3-Dichloropropene	<5.00	<5.00	<5.00
29. 1,1,2-Trichloroethane	<5.00	<5.00	<5.00
30. Tetrachloroethene	<3.00	<3.00	<3.00
31. 2-Hexanone	<50.00	<50.00	<50.00
32. Dibromochloromethane	<3.00	<3.00	<3.00
33. 1,2-Dibromoethane	<3.00	<3.00	<3.00
34. Chlorobenzene	<3.00	<3.00	<3.00
35. 1,1,1,2-Tetrachloroethane	<5.00	<5.00	<5.00
36. Ethylbenzene	<5.00	<5.00	<5.00
37. Xylenes	<4.00	<4.00	<4.00
38. Dibromomethane	<10.00	<10.00	<10.00
39. Styrene	<10.00	<10.00	<10.00
40. Bromoform	<3.00	<3.00	<3.00
41. 1,1,2,2-Tetrachloroethane	<5.00	<5.00	<5.00
42. 1,2,3-Trichloropropane	<8.00	<8.00	<8.00
43. 1,4-Dichlorobenzene	<3.00	<3.00	<3.00
44. 1,2-Dichlorobenzene	<5.00	<5.00	<5.00
45. 1,2-Dibromo-3-Chloropropane	<13.00	<13.00	<13.00
46. Acrylonitrile	<200.00	<200.00	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00	<100.00	<100.00

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: CARTERET CO. LANDFILL
JOHN LANGDON
COURTHOUSE SQUARE
BEAUFORT, NC 28516-1898

CLIENT ID: 6002

ANALYST: MAO
DATE COLLECTED: 04/02/07
DATE REPORTED: 04/18/07

Page: 1

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

Date Analyzed: / PARAMETERS, ug/l	04/03/07 Well #4	04/16/07 Well #6	04/16/07 Well #1R	04/16/07 Well #2R	04/16/07 SW-1
1. Chloromethane	<5.00	<5.00	<5.00	<5.00	<5.00
2. Vinyl Chloride	<5.00	<5.00	<5.00	<5.00	<5.00
3. Bromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
4. Chloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
5. Trichlorofluoromethane	<5.00	<5.00	<5.00	<5.00	<5.00
6. 1,1-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
7. Acetone	<100.00	<100.00	<100.00	<100.00	<100.00
8. Iodomethane	<10.00	<10.00	<10.00	<10.00	<10.00
9. Carbon Disulfide	<100.00	<100.00	<100.00	<100.00	<100.00
10. Methylene Chloride	<5.00	<5.00	<5.00	<5.00	<5.00
11. trans-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
12. 1,1-Dichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
13. Vinyl Acetate	<50.00	<50.00	<50.00	<50.00	<50.00
14. Cis-1,2-Dichloroethene	<5.00	<5.00	<5.00	<5.00	<5.00
15. 2-Butanone	<100.00	<100.00	<100.00	<100.00	<100.00
16. Bromochloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
17. Chloroform	<5.00	<5.00	<5.00	<5.00	<5.00
18. 1,1,1-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
19. Carbon Tetrachloride	<5.00	<5.00	<5.00	<5.00	<5.00
20. Benzene	<3.00	<3.00	<3.00	<3.00	<3.00
21. 1,2-Dichloroethane	<3.00	<3.00	<3.00	<3.00	<3.00
22. Trichloroethene	<3.00	<3.00	<3.00	<3.00	<3.00
23. 1,2-Dichloropropane	<3.00	<3.00	<3.00	<3.00	<3.00
24. Bromodichloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
25. Cis-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00
26. 4-Methyl-2-Pentanone	<100.00	<100.00	<100.00	<100.00	<100.00
27. Toluene	<5.00	<5.00	<5.00	<5.00	<5.00
28. trans-1,3-Dichloropropene	<5.00	<5.00	<5.00	<5.00	<5.00
29. 1,1,2-Trichloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
30. Tetrachloroethene	<3.00	<3.00	<3.00	<3.00	<3.00
31. 2-Hexanone	<50.00	<50.00	<50.00	<50.00	<50.00
32. Dibromochloromethane	<3.00	<3.00	<3.00	<3.00	<3.00
33. 1,2-Dibromoethane	<3.00	<3.00	<3.00	<3.00	<3.00
34. Chlorobenzene	<3.00	<3.00	<3.00	<3.00	<3.00
35. 1,1,1,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
36. Ethylbenzene	<5.00	<5.00	<5.00	<5.00	<5.00
37. Xylenes	<4.00	<4.00	<4.00	<4.00	<4.00
38. Dibromomethane	<10.00	<10.00	<10.00	<10.00	<10.00
39. Styrene	<10.00	<10.00	<10.00	<10.00	<10.00
40. Bromoform	<3.00	<3.00	<3.00	<3.00	<3.00
41. 1,1,2,2-Tetrachloroethane	<5.00	<5.00	<5.00	<5.00	<5.00
42. 1,2,3-Trichloropropane	<8.00	<8.00	<8.00	<8.00	<8.00
43. 1,4-Dichlorobenzene	<3.00	<3.00	<3.00	<3.00	<3.00
44. 1,2-Dichlorobenzene	<5.00	<5.00	<5.00	<5.00	<5.00
45. 1,2-Dibromo-3-Chloropropane	<13.00	<13.00	<13.00	<13.00	<13.00
46. Acrylonitrile	<200.00	<200.00	<200.00	<200.00	<200.00
47. trans-1,4-Dichloro-2-Butene	<100.00	<100.00	<100.00	<100.00	<100.00

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6002

CARTERET CO. LANDFILL
JOHN LANGDON
COURTHOUSE SQUARE
BEAUFORT ,NC 28516-1898

DATE COLLECTED: 04/02/07
DATE REPORTED : 04/18/07

REVIEWED BY:

PARAMETERS	Duplicate (WELL #4)	Well #3R	Trip Blank	Analysis Date	Analyst	Method Code
PH (field measurement), Units		5.9		04/02/07	RJH	SM4500HB
Arsenic, ug/l	< 10	< 10		04/13/07	CMF	EPA200.8
Barium, ug/l	< 100	< 100		04/13/07	CMF	EPA200.8
Cadmium, ug/l	<1.0	<1.0		04/13/07	CMF	EPA200.8
Total Chromium, ug/l	< 10	< 10		04/13/07	CMF	EPA200.8
Lead, ug/l	< 10	< 10		04/13/07	CMF	EPA200.8
Mercury, ug/l	<0.2	<0.2		04/13/07	CMF	EPA200.8
Selenium, ug/l	< 10	< 10		04/13/07	CMF	EPA200.8
Silver, ug/l	< 10	< 10		04/13/07	CMF	EPA200.8
Conductivity (at 25c), uMhos		1626		04/02/07	RJH	SM2510B
Temperature, °C		16		04/02/07	RJH	SM2550B
Static Water Level, feet		6.55		04/02/07	RJH	
Well Depth, feet		20.94		04/02/07	RJH	

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
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Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6002

CARTERET CO. LANDFILL
JOHN LANGDON
COURTHOUSE SQUARE
BEAUFORT ,NC 28516-1898

DATE COLLECTED: 04/02/07
DATE REPORTED : 04/18/07

REVIEWED BY:

PARAMETERS	Well #4	Well #6	Well #1R	Well #2R	SW-1	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.4	6.1	4.3	6.1	6.7	04/02/07	RJH	SM4500HB
Arsenic, ug/l	< 10	< 10	< 10	< 10	< 10	04/13/07	CMF	EPA200.8
Barium, ug/l	< 100	< 100	< 100	306	< 100	04/13/07	CMF	EPA200.8
Cadmium, ug/l	<1.0	<1.0	<1.0	2	<1.0	04/13/07	CMF	EPA200.8
Total Chromium, ug/l	< 10	< 10	< 10	15	< 10	04/13/07	CMF	EPA200.8
Lead, ug/l	< 10	< 10	< 10	< 10	< 10	04/13/07	CMF	EPA200.8
Mercury, ug/l	<0.2	<0.2	<0.2	<0.2	<0.2	04/13/07	CMF	EPA200.8
Selenium, ug/l	< 10	< 10	< 10	< 10	< 10	04/13/07	CMF	EPA200.8
Silver, ug/l	< 10	< 10	< 10	< 10	< 10	04/13/07	CMF	EPA200.8
Conductivity (at 25c), uMhos	176	1461	70	6710	471	04/02/07	RJH	SM2510B
Temperature, °C	16	17	16	16	18	04/02/07	RJH	SM2550B
Static Water Level, feet	4.00	6.12	4.00	4.27		04/02/07	RJH	
Well Depth, feet	13.94	20.87	18.69	17.58		04/02/07	RJH	