A102395

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):

Joyce Engineering, Inc.

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

Name: Jeremey J. Kerly Phone: (336) 323-0092

E-mail: jkerly@joyceengineering.com

RECEIVED 2007 Waste Management

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Wilkes County - Germanton Landfill	Mailing Address: 9219 Elkin Highway Roaring River, NC 28669	~~79-01~~ 97-01	.0500	November 9, 2006

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 or explosive methane gas limits 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.

Hannu Kemppinen — Facility Representative Name (Print)
Sr. Proj. Consultant — Title
336-323-0092 — (Area Code) Telephone Number

Hannu Kemppinen — Signature
April 26, 2007 — Date

Affix NC Licensed/ Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 1490 GEOLOGIST HANNU M. A. KEMPPINEN

Revised 10/2006

Prepared for:

Wilkes County Department of Solid Waste
9219 Elkin Highway
Roaring River, North Carolina 28669

JEI Project Number 356.00, Task 34

SECOND SEMIANNUAL GROUNDWATER MONITORING REPORT OF 2006 WILKES COUNTY, NC – GERMANTON LANDFILL

April 2007

Prepared by:

JOYCE ENGINEERING, INC.

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Greensboro, North Carolina 27407
Phone: (336) 323-0092
Fax: (336) 323-0093

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Waste Industry Experts

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fax: 336/323-0093

www.JoyceEngineering.com

April 25, 2007

Mr. Ethan Brown
Division of Waste Management/Solid Waste Section
1647 Mail Service Center
Raleigh, NC 27699-1646

RE: Second Semiannual Groundwater Monitoring Reports of 2006
Wilkes County Landfills - Roaring River, Dan Johnson and Germanton
JEI Project No. 356.00, Task 34

Dear Ethan:

On behalf of Wilkes County, Joyce Engineering, Inc. (JEI) is submitting the enclosed statistical analysis of the December 7, 2006, groundwater monitoring data for the Wilkes County (Roaring River) Landfill. The facility is monitoring in accordance with the Detection Monitoring Program described in Rule .1633. Research and Analytical Laboratories, Inc. (RAL) of Kernersville, NC performed the sampling and laboratory analysis. No organic constituents were detected at statistically significant concentrations in the downgradient monitoring wells during this sampling event. Vanadium was detected in MW-7 while zinc was detected in MW-7, MW-9, and MW-18. The inorganic detections are not considered statistically significant concentrations. The leachate results from this facility are also included in this report. These results can be found in the *Laboratory Reports and Field Data* section of the report.

Also enclosed with this letter are the compliance monitoring reports for the second semiannual monitoring events at the closed Dan Johnson and Germanton Landfills. These events took place on December 20, 2006, and November 9, 2006, respectively. Sampling and laboratory analysis were performed by RAL.

At the Dan Johnson Landfill, the following organic constituents were detected in MW-1: 1,1-dichloroethane, benzene, chloroethane, 1,4-dichlorobenzene, and cis-1,2-dichloroethene. MW-2 organic constituent detections consisted of methylene chloride, chlorobenzene, 1,4-dichlorobenzene, and cis-1,2-dichloroethene. MW-3 organic constituent detections are 1,4-dichlorobenzene and cis-1,2-dichloroethene. Detections of benzene in MW-1 and 1,4-dichlorobenzene in MW-1, -2, &-3 exceeded the NC 2L Standard. Barium, copper, and zinc were the inorganic constituents detected during the December 2006 sampling event. Copper was detected in MW-1 and zinc was detected in MW-2. Barium was detected in MW-3 and the downstream surface water sampling point. These detections are generally consistent with previous results.

At the Germanton Landfill, chlorobenzene in MW-5 was the only organic constituent reported to be present during this sampling event. This detected concentration is below the NC 2L Standard and is consistent with previous events. Cobalt was the only inorganic constituents detected during the November 2006 sampling. Cobalt was detected in MW-4 and MW-5 at concentrations below the NC 2L Standard. These detections are consistent with previous results.

The three facilities will continue monitoring for the NC Appendix I list of constituents. Two additional copies of this letter are enclosed for your files. If you have any questions, please feel free to contact me at (336) 323-0092.

Sincerely,
JOYCE ENGINEERING, INC.

Jeremey J. Kerly
Staff Consultant

Enclosure

C: Thomas D. Livingston - Wilkes County, Solid Waste Director
File

P:\Wilkes\GROUNDWATER\STAT REPORTS\Nov-Dec 2006 Stats\Wilkes County Report Letter Nov-Dec 2006.doc

Wilkes County - Closed Germanton Landfill
Summary of Detected Constituents During
the November 2006 Sampling Event

Constituent	RL	Concentrations (µg/L)			
		MW-4	MW-5	-	-
Cobalt	10	16 (15)	19	-	-
Chlorobenzene	5	ND (ND)	10	-	-

Notes:
1. ND = Non-detect
2. - = Not analyzed
3. Shaded values are above the NC 2L Groundwater Quality Standard
4. J = Estimated concentrations
5. Values in parentheses are duplicate samples.

Summary of Detected Constituents
Groundwater Monitoring Program
Germanton Landfill - Wilkes County, N.C.

Constituent [NC 2L], (EPA MCL) in µg/L	Date	RL	Concentration (µg/L) MW-1	MW-2	MW-3	MW-4	MW-5	Downstream	Upstream	Outfall #1	Outfall #2	Blanks
Barium	Apr-93	10	177	220	159	BQL	121	BQL	166	5600	799	—
[2000]	Sep-93	250	BQL	1940	BQL	BQL	BQL	BQL	BQL	—	—	—
(2000)	Apr-94	250	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—
	Oct-94	500	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	567	—
	Apr-95	500	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-95	500	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	May-96	500	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-96	500	BQL	BQL	BQL	BQL	1040	BQL	BQL	BQL	—	BQL
	Mar-97	500	BQL	BQL	BQL	BQL	531	BQL	BQL	BQL	—	BQL
	Sep-97	500	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-98	500	BQL	BQL	BQL	BQL	520	BQL	BQL	BQL	—	BQL
	Sep-98	500	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-99	500	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-99	500	BQL	BQL	BQL	BQL	549	BQL	BQL	BQL	—	BQL
	May-00	500	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-00	500	BQL	BQL	BQL	BQL(BQL)	507	BQL	BQL	BQL	—	BQL
	Mar-01	500	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-01	500	BQL	BQL	BQL	BQL(BQL)	566	BQL	BQL	BQL	—	BQL
	Apr-02	500	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-02	500	BQL	BQL	BQL(BQL)	BQL	500	BQL	BQL	BQL	—	BQL
	May-03	500	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-03	500	BQL	BQL	BQL	BQL	BQL(517)	BQL	BQL	BQL	—	BQL
	Apr-04	500	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-04	500	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-05	500	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-05	500	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	May-06	500	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Nov-06	500	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	b
Beryllium	Apr-93	2	—	—	—	—	—	—	—	—	—	—
[-]	Sep-93	2	—	—	—	—	—	—	—	—	—	—
(4)	Apr-94	2	—	—	—	—	—	—	—	—	—	—
	Oct-94	2	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	
	Apr-95	2	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-95	2	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	May-96	2	3	6	4	4	4	4	4	5	—	—
	Nov-96	2	BQL	BQL	BQL	BQL	6	BQL	BQL	BQL	—	BQL
	Mar-97	2	BQL	BQL	BQL	2	4	BQL	BQL	BQL	—	BQL
	Sep-97	2	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-98	2	BQL	BQL	6	BQL	13	BQL	BQL	BQL	—	BQL
	Sep-98	2	BQL	BQL	BQL(BQL)	2	8	BQL	BQL	2	—	BQL
	Mar-99	2	BQL	BQL	BQL(BQL)	3	9	BQL	BQL	BQL	—	BQL
	Sep-99	2	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-00	2	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-00	2	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Mar-01	2	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-01	2	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Apr-02	2	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-02	2	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-03	2	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-03	2	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	Apr-04	2	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-04	2	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-05	2	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-05	2	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	May-06	2	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Nov-06	2	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
Cadmium	Apr-93	2	BQL	6	2.1	2	5	2	2	2.3	2.8	—
[1.75]	Sep-93	2	BQL	2.1	BQL	BQL	BQL	BQL	BQL	—	—	—
(5)	Apr-94	2	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—
	Apr-95	1	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-95	1	BQL	BQL	BQL	1	BQL	BQL	BQL	BQL	—	—
	May-96	1	1	10	BQL	BQL	BQL	1	BQL	4	—	—
	Nov-96	1	BQL	4	1	1	23	BQL	BQL	BQL	—	BQL
	Mar-97	1	BQL	BQL	1	3	18	BQL	BQL	BQL	—	BQL
	Sep-97	1	1		2	4	15	BQL	BQL	BQL	—	BQL
	Mar-98	1	BQL	BQL	2	BQL	5	BQL	BQL	BQL	—	BQL
	Oct-94	1	BQL	BQL	1	BQL	BQL	BQL	BQL	BQL	BQL	—
	Sep-98	1	BQL	BQL	BQL(BQL)	1	4	BQL	BQL	3	—	BQL
	Mar-99	1	BQL	BQL	BQL(BQL)	BQL	2	BQL	BQL	BQL	—	BQL
	Sep-99	1	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-00	1	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-00	1	1	BQL	BQL	2(1)	6	1	BQL	1	—	BQL
	Mar-01	1	BQL	BQL(BQL)	BQL	1	4	BQL	BQL	BQL	—	BQL
	Oct-01	1	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Apr-02	1	BQL	2	BQL	BQL(BQL)	1	BQL	BQL	BQL	—	BQL
	Nov-02	1	BQL	BQL	BQL(BQL)	1	BQL	BQL	BQL	BQL	—	BQL
	May-03	1	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-03	1	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	Apr-04	1	BQL	1	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-04	1	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-05	1	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-05	1	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	May-06	1	BQL	BQL(BQL)	BQL	1	6	BQL	1	2	—	BQL
	Nov-06	1	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL

Summary of Detected Constituents
Groundwater Monitoring Program
Germanton Landfill - Wilkes County, N.C.

Constituent [NC 2L] {EPA MCL} in µg/L	Date	RL	Concentration (µg/L) MW-1	MW-2	MW-3	MW-4	MW-5	Downstream	Upstream	Outfall #1	Outfall #2	Blanks
Chromium	Apr-93	40	BQL	140	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--
[50]	Sep-93	20	BQL	673	BQL	BQL	BQL	BQL	BQL	--	--	--
{100}	Apr-94	20	BQL	31	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--
	Oct-94	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	16	
	Apr-95	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	--
	Nov-95	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	--
	May-96	10	BQL	118	11	BQL	BQL	BQL	BQL	BQL	--	--
	Nov-96	10	BQL	48	12	BQL	154	BQL	BQL	BQL	--	BQL
	Mar-97	10	BQL	BQL	10	BQL	38	BQL	BQL	BQL	--	BQL
	Sep-97	10	BQL	17	26	BQL	11	BQL	BQL	BQL	--	BQL
	Mar-98	10	BQL	BQL	25	BQL	16	BQL	BQL	BQL	--	BQL
	Sep-98	10	BQL	BQL	BQL(BQL)	12	17	BQL	BQL	BQL	--	BQL
	Mar-99	10	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	--	BQL
	Sep-99	10	BQL	BQL	BQL	BQL	36	BQL	BQL	BQL	BQL	BQL
	May-00	10	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	--	BQL
	Oct-00	10	BQL	BQL	BQL	BQL(BQL)	11	BQL	BQL	BQL	--	BQL
	Mar-01	10	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL
	Oct-01	10	BQL	BQL	BQL	BQL(BQL)	27	BQL	BQL	BQL	--	BQL
	Apr-02	10	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	--	BQL
	Nov-02	10	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	--	BQL
	May-03	10	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	--	BQL
	Nov-03	10	BQL	BQL	BQL	BQL	12(14)	BQL	BQL	BQL	--	BQL
	Apr-04	10	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	--	BQL
	Oct-04	10	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL
	May-05	10	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL
	Oct-05	10	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	--	BQL
	May-06	10	BQL	BQL(BQL)	BQL	BQL	12	BQL	BQL	BQL	--	BQL
	Nov-06	10	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	--	BQL
Cobalt	Apr-93	10	--	--	--	--	--	--	--	--		--
[-]	Sep-93	10	--	--	--	--	--	--	--	--	--	--
{-}	Apr-94	10	--	--	--	--	--	--	--	--	--	--
	Oct-94	10	BQL	BQL	BQL	18	BQL	BQL	BQL	BQL	24	--
	Apr-95	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	10	--	--
	Nov-95	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	--
	May-96	10	BQL	34	BQL	21	BQL	BQL	BQL	13	--	--
	Nov-96	10	BQL	11	BQL	18	86	BQL	BQL	BQL	--	BQL
	Mar-97	10	BQL	BQL	BQL	20	44	BQL	BQL	BQL	--	BQL
	Sep-97	10	BQL	BQL	0.014	31	27	BQL	BQL	BQL	--	BQL
	Mar-98	10	BQL	BQL	34	18	37	BQL	BQL	BQL	--	BQL
	Sep-98	10	BQL	BQL	BQL(BQL)	26	30	BQL	BQL	12	--	BQL
	Mar-99	10	BQL	BQL	BQL(BQL)	16	25	BQL	BQL	BQL	--	BQL
	Sep-99	10	BQL	BQL	BQL	17	33	BQL	BQL	BQL	--	BQL
	May-00	10	BQL	BQL	BQL(BQL)	18	32	BQL	BQL	BQL	--	BQL
	Oct-00	10	BQL	BQL	BQL	23(22)	32	BQL	BQL	BQL	--	BQL
	Mar-01	10	BQL	BQL(BQL)	BQL	18	24	BQL	BQL	BQL	--	BQL
	Oct-01	10	BQL	BQL	20	20(20)	35	BQL	BQL	BQL	--	BQL
	Apr-02	10	BQL	BQL	BQL	11(12)	25	BQL	BQL	BQL	--	BQL
	Nov-02	10	BQL	BQL	BQL(BQL)	20	28	BQL	BQL	BQL	--	BQL
	May-03	10	BQL	BQL	BQL	19(19)	22	BQL	BQL	BQL	--	BQL
	Nov-03	10	BQL	BQL	BQL	16	28(29)	BQL	BQL	BQL	--	BQL
	Apr-04	10	BQL	BQL	BQL(BQL)	13	23	BQL	BQL	12	--	BQL
	Oct-04	10	BQL	BQL (BQL)	BQL	14	19	BQL	BQL	BQL	--	BQL
	May-05	10	BQL	BQL (BQL)	BQL	11	23	BQL	BQL	11	--	BQL
	Oct-05	10	BQL	BQL	BQL	19	19(20)	BQL	BQL	BQL	--	BQL
	May-06	10	BQL	BQL(BQL)	BQL	15	24	BQL	BQL	10	--	BQL
	Nov-06	10	BQL	BQL	BQL	16(15)	19	BQL	BQL	BQL	--	BQL
Copper	Apr-93	20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	263	BQL	--
[1000]	Sep-93	10	BQL	138	BQL	BQL	BQL	BQL	BQL	--	--	--
{1300}*	Apr-94	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--
	Oct-94	200	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--
	Apr-95	200	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	--
	Nov-95	200	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	--
	May-96	200	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	--
	Nov-96	200	BQL	BQL	BQL	BQL	114	BQL	BQL	BQL	--	BQL
	Mar-97	200	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL
	Sep-97	200	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL
	Mar-98	200	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL
	Sep-98	10	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	--	BQL
	Mar-99	10	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	--	BQL
	Sep-99	200	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL
	May-00	200	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	--	BQL
	Oct-00	200	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	--	BQL
	Mar-01	200	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL
	Oct-01	200	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	--	BQL
	Apr-02	200	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	--	BQL
	Nov-02	200	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	--	BQL
	May-03	200	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	--	BQL
	Nov-03	200	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	--	BQL
	Apr-04	200	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	--	BQL
	Oct-04	200	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL
	May-05	200	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL
	Oct-05	200	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	--	BQL
	May-06	200	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	--	BQL
	Nov-06	200	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	--	BQL

Summary of Detected Constituents
Groundwater Monitoring Program
Germanton Landfill - Wilkes County, N.C.

Constituent [NC 2L], [EPA MCL] in µg/L	Date	RL	Concentration (µg/L) MW-1	MW-2	MW-3	MW-4	MW-5	Downstream	Upstream	Outfall #1	Outfall #2	Blanks
Lead	Apr-93	5	BQL	497	22	BQL	18.1	BQL	BQL	163	BQL	—
[15]	Sep-93	5	BQL	224	16	5	BQL	BQL	BQL	—	—	—
{15}#	Apr-94	5	BQL	14.2	6	13	6	BQL	BQL	BQL	BQL	BQL
	Oct-94	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—
	Apr-95	10	BQL	BQL	11	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-95	10	BQL	BQL	13	BQL	BQL	BQL	BQL	BQL	—	—
	May-96	10	BQL	41	21	11	BQL	BQL	BQL	BQL	—	—
	Nov-96	10	BQL	20	22	BQL	96	BQL	BQL	BQL	—	BQL
	Mar-97	10	BQL	BQL	19	BQL	57	BQL	BQL	BQL	—	BQL
	Sep-97	10	BQL	12	51	BQL	12	BQL	19	BQL	—	BQL
	Mar-98	10	BQL	BQL	130	BQL	30	BQL	BQL	BQL	—	BQL
	Sep-98	10	BQL	BQL	BQL(BQL)	11	14	BQL	BQL	BQL	—	BQL
	Mar-99	10	BQL	BQL	BQL(BQL)	BQL	8	BQL	BQL	BQL	—	BQL
	Sep-99	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-00	10	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-00	10	BQL	BQL	BQL	18(10)	15	BQL	BQL	BQL	—	BQL
	Mar-01	10	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-01	10	BQL	BQL	BQL	BQL(BQL)	19	BQL	BQL	BQL	—	BQL
	Apr-02	10	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-02	10	BQL	BQL	BQL(BQL)	BQL	16	BQL	BQL	BQL	—	BQL
	May-03	10	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-03	10	BQL	BQL	BQL	BQL	16(20)	BQL	BQL	BQL	—	BQL
	Apr-04	10	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-04	10	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	13	—	BQL
	May-05	10	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-05	10	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	May-06	10	BQL	BQL(BQL)	BQL	BQL	12	BQL	BQL	BQL	—	BQL
	Nov-06	10	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
Nickel	Apr-93	50	—	—	—	—	—	—	—	—	—	—
[100]	Sep-93	50	—	—	—	—	—	—	—	—	—	—
{-}	Apr-94	50	—	—	—	—	—	—	—	—	—	—
	Oct-94	50	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—
	Apr-95	50	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-95	50	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	May-96	50	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-96	50	BQL	BQL	BQL	BQL	76	BQL	BQL	BQL	—	BQL
	Mar-97	50	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-97	50	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-98	50	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-98	50	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-99	50	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-99	50	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-00	50	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-00	50	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Mar-01	50	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-01	50	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Apr-02	50	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-02	50	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-03	50	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-03	50	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	Apr-04	50	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-04	50	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-05	50	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-05	50	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	May-06	50	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Nov-06	50	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
Selenium	Apr-93	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—
[50]	Sep-93	5	BQL	25	BQL	5	BQL	BQL	BQL	—	—	—
{50}	Apr-94	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—
	Oct-94	20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—
	Apr-95	20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-95	20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	May-96	20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-96	20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-97	20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-97	20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-98	20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-98	20	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-99	20	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-99	20	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-00	20	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-00	20	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Mar-01	20	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-01	20	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Apr-02	20	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-02	20	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-03	20	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-03	20	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	Apr-04	20	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-04	20	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-05	20	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-05	20	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	May-06	20	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Nov-06	20	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL

Summary of Detected Constituents
Groundwater Monitoring Program
Germanton Landfill - Wilkes County, N.C.

Constituent [NC 2L], [EPA MCL] in µg/L	Date	RL	Concentration (µg/L) MW-1	MW-2	MW-3	MW-4	MW-5	Downstream	Upstream	Outfall #1	Outfall #2	Blanks
Silver	Apr-93	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—
[17.5]	Sep-93	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—	—
(100)^	Apr-94	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—
	Oct-94	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—
	Apr-95	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-95	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	May-96	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-96	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-97	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-97	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-98	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-98	10	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-99	10	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-99	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-00	10	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-00	10	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Mar-01	10	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-01	10	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Apr-02	10	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-02	10	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-03	10	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-03	10	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	Apr-04	10	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-04	10	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-05	10	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-05	10	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	May-06	10	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Nov-06	10	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
Thallium	Apr-93	10	—	—	—	—	—	—	—	—	—	—
[-]	Sep-93	10	—	—	—	—	—	—	—	—	—	—
(2)	Apr-94	10	—	—	—	—	—	—	—	—	—	—
	Oct-94	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—
	Apr-95	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-95	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	May-96	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-96	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-97	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-97	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-98	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-98	10	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-99	10	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-99	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-00	10	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-00	10	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Mar-01	10	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-01	10	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Apr-02	10	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-02	10	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-03	20	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL
	Nov-03	20	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL
	Apr-04	20	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-04	10	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-05	10	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-05	10	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	May-06	10	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Nov-06	10	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
Vanadium	Apr-93	40	—	—	—	—	—	—	—	—	—	—
[-]	Sep-93	40	—	—	—	—	—	—	—	—	—	—
(-)	Apr-94	40	—	—	—	—	—	—	—	—	—	—
	Oct-94	40	BQL	BQL	BQL	174	62	BQL	BQL	127	256	—
	Apr-95	40	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-95	40	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	May-96	40	BQL	152	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-96	40	BQL	59	BQL	BQL	203	BQL	BQL	BQL	—	BQL
	Mar-97	40	BQL	BQL	BQL	BQL	66	BQL	BQL	BQL	—	BQL
	Sep-97	40	BQL	BQL	55	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-98	40	BQL	BQL	87	BQL	48	BQL	BQL	BQL	—	BQL
	Sep-98	40	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-99	40	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-99	40	BQL	BQL	BQL	BQL	92	BQL	BQL	BQL	BQL	BQL
	May-00	40	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-00	40	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Mar-01	40	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-01	40	BQL	BQL	BQL	BQL(BQL)	57	BQL	BQL	BQL	—	BQL
	Apr-02	40	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-02	40	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-03	40	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-03	40	BQL	BQL	BQL	BQL	41(47)	BQL	BQL	BQL	—	BQL
	Apr-04	40	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-04	40	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-05	40	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-05	40	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	May-06	40	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Nov-06	40	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL

Summary of Detected Constituents
Groundwater Monitoring Program
Germanton Landfill - Wilkes County, N.C.

Constituent [NC 2L] {EPA MCL} in µg/L	Date	RL	Concentration (µg/L) MW-1	MW-2	MW-3	MW-4	MW-5	Downstream	Upstream	Outfall #1	Outfall #2	Blanks
Zinc	Apr-93	20	49	312	78	44	59	BQL	34	4290	83	—
[1050]	Sep-93	20	BQL	1640	BQL	BQL	BQL	BQL	BQL	—	—	—
{5000}	Apr-94	20	25	88	BQL	BQL	BQL	26	26	54	60	—
	Oct-94	50	BQL	68	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—
	Apr-95	50	BQL	BQL	98	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-95	50	BQL	BQL	BQL	BQL	81	BQL	50	84	—	—
	May-96	50	97	327	159	68	70	73	BQL	91	—	—
	Nov-96	50	90	159	84	BQL	41B	50	86	BQL	—	BQL
	Mar-97	50	BQL	99	88	56	130	BQL	BQL	BQL	—	BQL
	Sep-97	50	70	560	200	72	171	118	200	BQL	—	BQL
	Mar-98	50	BQL	168	197	BQL	94	BQL	BQL	BQL	—	BQL
	Sep-98	50	BQL	BQL	BQL(BQL)	BQL	BQL	159	BQL	123	—	BQL
	Mar-99	50	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-99	50	BQL	BQL	BQL	BQL	61	BQL	BQL	BQL	—	BQL
	May-00	50	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	—
	Oct-00	50	BQL	63	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Mar-01	50	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-01	50	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Apr-02	50	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-02	50	52	70	57(BQL)	50	69	BQL	BQL	BQL	—	BQL
	May-03	50	BQL	77	BQL	BQL(BQL)	BQL	50	BQL	61	—	BQL
	Nov-03	50	BQL	BQL	BQL	78	52(89)	BQL	51	135	—	BQL
	Apr-04	50	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-04	50	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	138	—	BQL
	May-05	50	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-05	50	137	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	79	—	BQL
	May-06	50	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Nov-06	50	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	74
Chlorobenzene	Apr-95	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
[50]	Nov-95	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
{100}	May-96	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Nov-96	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-97	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-97	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-98	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-98	5	BQL	BQL	BQL(BQL)	BQL	9	BQL	BQL	BQL	—	BQL
	Mar-99	5	BQL	BQL	BQL(BQL)	BQL	8	BQL	BQL	BQL	—	BQL
	Oct-99	5	BQL	BQL	BQL	BQL(BQL)	5.9	BQL	BQL	BQL	—	BQL
	May-00	5	BQL	BQL	BQL(BQL)	5.6	9.6	BQL	BQL	BQL	—	BQL
	Oct-00	5	BQL	BQL	BQL	BQL(BQL)	8.7	BQL	BQL	BQL	—	BQL
	Mar-01	5	BQL	BQL(BQL)	BQL	BQL	8.8	BQL	BQL	BQL	—	BQL
	Oct-01	5	BQL	BQL	BQL	BQL(BQL)	11	BQL	BQL	BQL	—	BQL
	Apr-02	5	BQL	BQL	BQL	BQL(BQL)	11	BQL	BQL	BQL	—	BQL
	Nov-02	5	BQL	BQL	BQL(BQL)	BQL	8.1	BQL	BQL	BQL	—	BQL
	May-03	5	BQL	BQL	BQL	BQL(BQL)	9.1	BQL	BQL	BQL	—	BQL
	Nov-03	5	BQL	BQL	BQL	BQL	8.9(9.7)	BQL	BQL	BQL	—	BQL
	Apr-04	5	BQL	BQL	BQL(BQL)	BQL	9.3	BQL	BQL	BQL	—	BQL
	Oct-04	5	BQL	BQL (BQL)	BQL	BQL	12	BQL	BQL	BQL	—	BQL
	May-05	5	BQL	BQL (BQL)	BQL	BQL	6.6	BQL	BQL	BQL	—	BQL
	Oct-05	5	BQL	BQL	BQL	BQL	8.1(7.8)	BQL	BQL	BQL	—	BQL
	May-06	5	BQL	BQL(BQL)	BQL	BQL	6.3	BQL	BQL	BQL	—	BQL
	Nov-06	5	BQL	BQL	BQL	BQL(BQL)	10	BQL	BQL	BQL	—	BQL
Cis-1,2-Dichloroethylene	Oct-94	5	8	BQL	BQL	BQL	11	BQL	BQL	BQL	BQL	BQL
[-]	Apr-95	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
{70}	Nov-95	5	BQL	BQL	BQL	BQL	8	BQL	BQL	BQL	—	—
	May-96	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-96	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-97	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-97	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-98	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-98	5	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-99	5	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-99	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-00	5	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-00	5	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Mar-01	5	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-01	5	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Apr-02	5	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-02	5	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-03	5	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-03	5	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	Apr-04	5	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-04	-	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-05	5	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-05	5	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	May-06	5	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Nov-06	5	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL

Summary of Detected Constituents
Groundwater Monitoring Program
Germanton Landfill - Wilkes County, N.C.

Constituent [NC 2L], {EPA MCL} in µg/L	Date	RL	Concentration (µg/L) MW-1	MW-2	MW-3	MW-4	MW-5	Downstream	Upstream	Outfall #1	Outfall #2	Blanks
1,2-Dichlorobenzene	Apr-94	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—
[24]	Oct-94	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—
{600}	Apr-95	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-95	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	May-96	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-96	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-97	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-97	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-98	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-98	5	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-99	5	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-99	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-00	5	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-00	5	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Mar-01	5	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-01	5	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Apr-02	5	BQL	BQL	BQL	BQL(BQL)	5.4	BQL	BQL	BQL	—	BQL
	Nov-02	5	BQL	BQL	BQL(BQL)	BQL	5.2	BQL	BQL	BQL	—	BQL
	May-03	5	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-03	5	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	Apr-04	5	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-04	5	BQL	BQL (BQL)	BQL	BQL	6.7	BQL	BQL	BQL	—	BQL
	May-05	5	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-05	5	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	May-06	5	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Nov-06	5	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
1,4-Dichlorobenzene	Oct-94	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—
[1.4]	Apr-95	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
{75}	Nov-95	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	May-96	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-96	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-97	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-97	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-98	5	BQL	BQL	BQL	6	7	BQL	BQL	BQL	—	BQL
	Sep-98	5	BQL	BQL	BQL(BQL)	5	5	BQL	BQL	BQL	—	BQL
	Mar-99	5	BQL	BQL	BQL(BQL)	BQL	5	BQL	BQL	BQL	—	BQL
	Sep-99	5	BQL	BQL	BQL	7.8	BQL	BQL	BQL	BQL	—	BQL
	May-00	5	BQL	BQL	BQL(BQL)	6.9	6	BQL	BQL	BQL	—	BQL
	Oct-00	5	BQL	BQL	BQL	6.1(5.7)	5	BQL	BQL	BQL	—	BQL
	Mar-01	5	BQL	BQL(BQL)	BQL	BQL	5.5	BQL	BQL	BQL	—	BQL
	Oct-01	5	BQL	BQL	BQL	BQL(BQL)	5.3	BQL	BQL	BQL	—	BQL
	Apr-02	5	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-02	5	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-03	5	BQL	BQL	BQL	5.0(5.1)	5.8	BQL	BQL	BQL	—	BQL
	Nov-03	5	BQL	BQL	BQL	BQL	5.5(5.0)	BQL	BQL	BQL	—	BQL
	Apr-04	5	BQL	BQL	BQL(BQL)	BQL	6.0	BQL	BQL	BQL	—	BQL
	Oct-04	-	BQL	BQL (BQL)	BQL	BQL	5.3	BQL	BQL	BQL	—	BQL
	May-05	5	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-05	5	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	May-06	5	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Nov-06	5	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
Xylenes (Total)	Apr-94	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—
[530]	Oct-94	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—
{10,000}	Apr-95	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-95	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	May-96	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	—
	Nov-96	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-97	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-97	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-98	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-98	5	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Mar-99	5	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Sep-99	5	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-00	5	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-00	5	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Mar-01	5	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-01	5	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Apr-02	5	BQL	9.3	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-02	5	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-03	5	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL
	Nov-03	5	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	Apr-04	5	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-04	-	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	May-05	5	BQL	BQL (BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Oct-05	5	BQL	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	—	BQL
	May-06	5	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	BQL	BQL	—	BQL
	Nov-06	5	BQL	BQL	BQL	BQL(BQL)	BQL	BQL	BQL	BQL	—	BQL

NOTES:
1. All concentrations are reported in micrograms per liter (mg/L).
2. Values shown in parentheses are from duplicate samples.
3. MW- = groundwater monitoring well
4. DL = laboratory detection limit
5. QL = laboratory quantitation limit
4. RL = laboratory reporting limit (= NC PQL)
5. BQL = not detected above laboratory quantitation limit
6. — = not sampled
7. Shaded values are above the NC 2L Groundwater Quality Standards.
8. Bolded values are above the EPA MCLs.
9. [-] = no standard established
10. ' = EPA Action Level
11. ^ = Secondary EPA Drinking Water Standard
12. NC 2L = North Carolina's groundwater quality Standard established under 15A NCAC 2L, .0202.
13. Estimated concentrations.

Research & Analytical Laboratories, Inc.
Analytical/Process Consultations

able 1 - Volatile Organic Analysis (Appendix I-Subtitle D) for Selected Monitoring Wells at the Wilkes County - Germanton Landfill - 09 November 2006

olatile Organics PA Method 8260 arameter	**Quantitation Limits (mg/L)**	**MW-1 (mg/L)**	**MW-2 (mg/L)**	**MW-3 (mg/L)**	**MW-4 (mg/L)**	**MW-4 Duplicate (mg/L)**	**MW-5 (mg/L)**	**Upstream (mg/L)**	**Downstream (mg/L)**	**Outfall #1 (mg/L)**	**Field Blank (mg/L)**	**Travel Blank (mg/L)**
lethylene Chloride	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
richlorofluoromethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
1-Dichloroethene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
1-Dichloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
hloroform	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
arbon Tetrachloride	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
,2-Dichloropropane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
richloroethene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
ibromochloromethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
,1,2-Trichloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
etrachloroethene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
hlorobenzene	0.005	BQL	BQL	BQL	BQL	BQL	0.010	BQL	BQL	BQL	BQL	BQL
rans-1,2-Dichloroethene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
,2-Dichloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
,1,1-Trichloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
romodichloromethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
is-1,3-Dichloropropene	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
enzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
rans-1,3-Dichloropropene	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
romoform	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
,1,2,2-Tetrachloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
oluene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
thyl Benzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
hloromethane	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
romomethane	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
inyl Chloride	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
hloroethane	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
cetone	0.100	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
arbon Disulfide	0.100	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
inyl Acetate	0.050	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
-Butanone	0.100	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
-Methyl-2-Pentanone	0.100	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
-Hexanone	0.050	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
tyrene	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
otal Xylenes	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
crylonitrile	0.200	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
,2-Dichlorobenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
,4-Dichlorobenzene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
rans-1,4-Dichloro-2-butene	0.100	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
is-1,2-Dichloroethene	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
ethyl Iodide	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
romochloromethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
ibromomethane	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
,1,1,2-Tetrachloroethane	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
,2,3-Trichloropropane	0.015	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
,2-Dibromo-3-Chloropropane(DBCP)	0.025	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
,2-Dibromoethane (EDB)	0.005	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Sample Number		575698	575699	575700	575701	575703	575702	575704	575705	575706	575707	575708
Sample Date		11/09/06	11/09/06	11/09/06	11/09/06	11/09/06	11/09/06	11/09/06	11/09/06	11/09/06	11/09/06	11/09/06
Sample Time		1210	1225	0935	1008	1008	1045	1059	1041	1040	1240	0600
Surrogate recoveries:		%	%	%	%	%	%	%	%	%	%	%
Dibromofluoromethane		101	104	105	107	106	106	103	104	103	107	103
Toluene-D8		100	100	99	100	101	100	100	100	100	100	100
4-bromofluorobenzene		103	102	100	100	105	100	104	102	101	102	101

mg/L = milligrams per Liter = parts per million

* = RO water used instead of Carbon filtered

BQL = Below Quantitation Limits

NR = Not Requested

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Table 2 - Inorganic Analysis (Appendix I - Subtitle D) for Selected Monitoring Wells at the Wilkes County - Germanton Landfill - 09 November 2006

Inorganics Parameter	EPA Method	Quantitation Limit (mg/L)	MW-1 (mg/L)	MW-2 (mg/L)	MW-3 (mg/L)	MW-4 (mg/L)	MW-4 Duplicate (mg/L)	MW-5 (mg/L)	Upstream (mg/L)	Downstream (mg/L)	Outfall #1 (mg/L)	Field Blank (mg/L)	Travel Blank (mg/L)
Arsenic	7060	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Antimony	7041	0.030	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Barium	6010	0.500	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Beryllium	6010	0.002	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Cadmium	7131	0.001	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Chromium	7191	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Cobalt	7201	0.010	BQL	BQL	BQL	**0.016**	**0.015**	**0.019**	BQL	BQL	BQL	BQL	BQL
Copper	6010	0.200	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Lead	7421	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Nickel	6010	0.050	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Selenium	7740	0.020	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Silver	6010	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Thallium	7841	0.010	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Vanadium	6010	0.040	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Zinc	6010	0.050	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Sample Number			575698	575699	575700	575701	575703	575702	575704	575705	575706	575707	575708
Sample Date			11/09/06	11/09/06	11/09/06	11/09/06	11/09/06	11/09/06	11/09/06	11/09/06	11/09/06	11/09/06	11/09/06
Sample Time			1210	1225	0935	1008	1008	1045	1059	1041	1040	1240	0600

mg/L = milligrams per Liter = parts per million

BQL = Below Quantitation Limits

NR = Not Requested

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Quality Control Summary Results for Project Identified as Germanton Landfill (A Wilkes County Project, 09 November 2006)

Volatile Organics EPA Method 8260 Parameter	Method Blank (mg/L)	Matrix Spike % Recovery	Spike Diplicate % Recovery	Quality Control Limits	Analyst
Methylene Chloride	ND	N/A	N/A	N/A	SA
Trichlorofluoromethane	ND	N/A	N/A	N/A	SA
1,1-Dichloroethene	ND	**106**	**107**	61-145	SA
1,1-Dichloroethane	ND	N/A	N/A	N/A	SA
Chloroform	ND	N/A	N/A	N/A	SA
Carbon Tetrachloride	ND	N/A	N/A	N/A	SA
1,2-Dichloropropane	ND	N/A	N/A	N/A	SA
Trichloroethene	ND	**104**	**103**	71-120	SA
Dibromochloromethane	ND	N/A	N/A	N/A	SA
1,1,2-Trichloroethane	ND	N/A	N/A	N/A	SA
Tetrachloroethene	ND	N/A	N/A	N/A	SA
Chlorobenzene	ND	**114**	**113**	75-130	SA
Trans-1,2-Dichloroethene	ND	N/A	N/A	N/A	SA
1,2-Dichloroethane	ND	N/A	N/A	N/A	SA
1,1,1-Trichloroethane	ND	N/A	N/A	N/A	SA
Bromodichloromethane	ND	N/A	N/A	N/A	SA
Cis-1,3-Dichloropropene	ND	N/A	N/A	N/A	SA
Benzene	ND	**112**	**111**	76-127	SA
Trans-1,3-Dichloropropene	ND	N/A	N/A	N/A	SA
Bromoform	ND	N/A	N/A	N/A	SA
1,1,2,2-Tetrachloroethane	ND	N/A	N/A	N/A	SA
Toluene	ND	**99**	**99**	76-125	SA
Ethyl Benzene	ND	N/A	N/A	N/A	SA
Chloromethane	ND	N/A	N/A	N/A	SA
Bromomethane	ND	N/A	N/A	N/A	SA
Vinyl Chloride	ND	N/A	N/A	N/A	SA
Chloroethane	ND	N/A	N/A	N/A	SA
Acetone	ND	N/A	N/A	N/A	SA
Carbon Disulfide	ND	N/A	N/A	N/A	SA
Vinyl Acetate	ND	N/A	N/A	N/A	SA
2-Butanone	ND	N/A	N/A	N/A	SA
4-Methyl-2-Pentanone	ND	N/A	N/A	N/A	SA
2-Hexanone	ND	N/A	N/A	N/A	SA
Styrene	ND	N/A	N/A	N/A	SA
Total Xylenes	ND	N/A	N/A	N/A	SA
Acrylonitrile	ND	N/A	N/A	N/A	SA
1,2-Dichlorobenzene	ND	N/A	N/A	N/A	SA
1,4-Dichlorobenzene	ND	N/A	N/A	N/A	SA
Trans-1,4-Dichloro-2-butene	ND	N/A	N/A	N/A	SA
Cis-1,2-Dichloroethene	ND	N/A	N/A	N/A	SA
Methyl Iodide	ND	N/A	N/A	N/A	SA
Bromochloromethane	ND	N/A	N/A	N/A	SA
Dibromomethane	ND	N/A	N/A	N/A	SA
1,1,1,2-Tetrachloroethane	ND	N/A	N/A	N/A	SA
1,2,3-Trichloropropane	ND	N/A	N/A	N/A	SA
1,2-Dibromo-3-Chloropropane(DBCP)	ND	N/A	N/A	N/A	SA
1,2-Dibromoethane (EDB)	ND	N/A	N/A	N/A	SA

COMMENTS:

Corresponding Samples: **575698-708**

% = Percent

ND = Non Detected

N/A = Not Available

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RESEARCH & ANALYTICAL LABS SIDNEY L. CHAMPION NC #34 DIRECTOR CERTIFIED ANALYSIS

Quality Control Summary Results for Project Identified as Germanton Landfill (A Wilkes County Project, 09 November 2006)

Inorganics Appendix I Parameter	Prep. Blank %	ICV Recovery %	CCV Recovery %	LCS Recovery %	Spike Recovery %	% Difference
Arsenic	BDL	100	101 100 99.0	94.4	80.4	0
Antimony	BDL	106	99.2 94.4 96.8	90.0	94.5	0
Barium	BDL	103	101 99.7 102	95.2	92.3	4
Berryllium	BDL	101	99.8 100 100	94.5	96.8	0
Cadmium	BDL	103	101 99.1 101	97.3	97.0	0
Chromium	BDL	102	101 100 103	95.6	94.7	0
Cobalt	BDL	103	101 101 102	96.3	92.3	0
Copper	BDL	99.2	100 100 100	95.4	93.6	0
Lead	BDL	100	100 99.9 102	92.5	88.7	0
Nickel	BDL	99.9	101 99.5 101	94.3	90.3	0
Selenium	BDL	100	101 102 102	95.4	99.4	0
Silver	BDL	98.9	110 109 110	90.8	90.5	0
Thallium	BDL	102	99.9 101 99.7	94.1	87.6	0
Vanandium	BDL	106	100 98.9 100	93.4	98.8	0
Zinc	0.074	103	101 99.4 101	94.4	106	0

COMMENTS: 575698-708

% = Percent
ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification
LCS = Laboratory Control Sample
N/A = Not Available

*** Post Spike**

GROUNDWATER MONITORING FIELD LOG

			Personnel Present:	COMMENTS:
Facility	Wilkes County		Glenn Price	Duplicate MW-4
	Germanton Landfill	November 9, 2006	Joe Baskin	
Weather		Date		

Monitoring Well No..	MW-1	MW-2	MW-3	MW-4	MW-5	Upstream	Downstream	Outfall #1				
Total Depth (FT.)	89.69	81.54	64.00	28.21	23.47							
Surface Depth (FT.)	61.10	51.70	44.34	14.28	9.35							
Water Depth (FT.)	28.59	29.84	19.66	13.93	14.12							
Diameter (IN.)	4"	4"	4"	4"	2"							
Conversion Factor	0.65	0.65	0.65	0.65	0.16							
Well Volume (GAL.)	18.58	19.40	12.78	9.05	2.26							
Volume (GAL.) X 3	55.75	58.19	38.34	27.16	6.78							
# Bails (L)	224	234	154	110	28							
Purge Date	11/09/06	11/09/06	11/09/06	11/09/06	11/09/06							
Purge Time (hrs.)	0845	1135	0957	0945	1024							
Purge Method	Bailer	Bailer	Bailer	Bailer	Bailer							
Volume Removed (GAL.)	56.00	26.00 - Dry	38.50	27.50	7.00							
Sampling Date	11/09/06	11/09/06	11/09/06	11/09/06	11/09/06	11/09/06	11/09/06	11/09/06				
Sampling Time (hrs.)	1210	1225	0935	1008	1045	1059	1041	1040				
Sampling Method	Bailer	Bailer	Bailer	Bailer	Bailer	Grab-direct	Grab-direct	Grab-direct				
pH (Standard Units)	5.30	6.81	5.61	6.00	6.10	7.11	7.63	6.96				
Temperature (EC)	20.8	16.4	16.7	18.9	18.2	14.9	16.1	18.7				
Conductivity (µmhos/cm)	78.2	174.6	44.6	463	887	50.7	51.0	762				
Dissolved Oxygen (mg/L)												
Observations\Sampling												

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical / Process Consultations
Phone (336) 996-2841

CHAIN OF CUSTODY RECORD

COMPANY: Wilkes County Landfills
STREET ADDRESS:
CITY, STATE, ZIP:
CONTACT: PHONE:

JOB NO.:
PROJECT: Germanton
SAMPLER NAME (PLEASE PRINT): Glenn Price
SAMPLER SIGNATURE:

SAMPLE NUMBER (LAB USE ONLY)	DATE	TIME	COMP	GRAB	TEMP °C	RES Cl	CHLORINE REMOVED (Y or N)	SAMPLE MATRIX (S or W)	SAMPLE LOCATION / I.D.	NO. OF CONTAINERS	2L G (BNA, Herb. / Pest.)	2 40ml Vials (VOA) HCL	250ml G (TOX)	250ml P (TOC) H_2SO_4	1L P.G (BOD, TSS, Unpreserved, etc.)	1L G (Phenol, Oil & Grease) H_2SO_4	1L P.G (COD, N, P) H_2SO_4	1L P.G (Metals, Hardness) HNO_3	1L P.G (CYANIDE) NaOH	Sterile P.G (Coliform)	REQUESTED ANALYSIS
75698	11/9/06	1210		✓				W	MW-1	5		4					1				* See Remarks
699		1225		✓				W	MW-2	5		4					1				
700		0935		✓				W	MW-3	5		4					1				
701		1008		✓				W	MW-4	5		4					1				
702		1045		✓				W	MW-5	5		4					1				
703		1008		✓				W	Duplicate (MW-4)	5		4					1				
704		1059		✓				W	upstream	5		4					1				
705		1041		✓				W	Downstream	5		4					1				
706		1040		✓				W	outfall # 1	5		4					1				
707		1240		✓				W	FB	5		4					1				
708		0600		✓				W	TB	5		4					1				

WATER / WASTEWATER | MISC.

RELINQUISHED BY	DATE/TIME	RECEIVED BY
[signature]	11/9/06	[signature]
RELINQUISHED BY	DATE/TIME	RECEIVED BY
	11-9-06 1447	

REMARKS: * Sb, As, Ba, Be, Cd, Cr, Cu, Co, Pb, Ni, Se, Ag, Tl, V, Zn, VOA 8260

SAMPLE TEMPERATURE AT RECEIPT _____ °C