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STATE LABORATORY OF PUBLIC HEALTH
 DIVISION OF HEALTH SERVICES
 N. C. DEPARTMENT OF HUMAN RESOURCES
 P.O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

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INORGANIC CHEMICAL ANALYSES-PRIVATE WATER SYSTEM

Fac/Perm/Co ID # <u>PC</u>	Date <u>07, 08, 09</u>	DOC ID# <u>DIN</u>
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Complete All Items Above Heavy Line
 (See Instructions on Reverse Side)

RECEIVED JUL 23 1985

Name of System Alamance County LandfillAddress Well # 1GrahamZIP 27253County AlamanceReport To: Albert MillsAddress: Alamance County Health Dept.Graham-Hopedale RdBurlingtonZIP 27215Collected By: A. MillsDate Collected: 7/10/85 Time: 11:15AM
PMLocation of Sampling Point: monitoring well

Source of Water:

 Ground
 Surface

 Both
 Purchased

Source of Sample:

 House Tap
 Well Tap
Monitoring well

Type of Sample:

 Raw Treated

Type of Treatment:

 None
 Chlorinated
 Fluoridated
 Filtered
 Alum

 Lime
 Soda Ash
 Polyphosphate
 Water Softener
 Other

Type of Analysis Desired:

 Regular Parameters
 Optional Parameters
 BothRemarks: Lower well

Regular Parameters			Optional Parameters (List as needed)	
	Results			Results
pH	<u>6.4</u>	units		
Arsenic	<u><0.01</u>	mg/l	<u>Mercury</u>	<u><0.0002</u>
Lead	<u><0.03</u>	mg/l		
Iron	<u>1.16</u>	mg/l		
Manganese	<u>0.07</u>	mg/l		
Copper	<u><0.05</u>	mg/l		
Zinc	<u>0.06</u>	mg/l		
Calcium	<u>6.5</u>	mg/l		
Magnesium	<u>4.1</u>	mg/l		
Hardness-CaCO ₃ (Ca, Mg)	<u>21</u>	mg/l		
Alkalinity-CaCO ₃	<u>24</u>	mg/l		
Chloride	<u>5</u>	mg/l		
Color	<u>15</u>	units		
Turbidity	<u>21</u>	NTU units		
Fluoride	<u><0.10</u>	mg/l		

Date Received _____

Date Reported 7-19-85

Reported By _____

Date Analyzed _____

Laboratory Number _____

3024 JUL 11 1985

STATE LABORATORY OF PUBLIC HEALTH
 DIVISION OF HEALTH SERVICES
 N. C. DEPARTMENT OF HUMAN RESOURCES
 P.O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

Final Section

INORGANIC CHEMICAL ANALYSES-PRIVATE WATER SYSTEM

Complete All Items Above Heavy Line
 (See Instructions on Reverse Side)

RECEIVED JUL 23 1985

Name of System: Alamance County Landfill

Address: Well # 1
Graham ZIP 27253

County: Alamance

Report To: Albert Mills

Address: Alamance County Health Dept.
Graham-Hopedale Rd
Burlington ZIP 27215

Collected By: A. Mills

Date Collected: 7/10/85 Time: 11:15 AM

Location of Sampling Point: monitoring well

Source of Water:
 Ground Both
 Surface Purchased

Source of Sample:
 House Tap Monitoring well
 Well Tap

Type of Sample:
 Raw Treated

Type of Treatment:
 None Lime
 Chlorinated Soda Ash
 Fluoridated Polyphosphate
 Filtered Water Softener
 Alum Other

Type of Analysis Desired:
 Regular Parameters Both
 Optional Parameters

Remarks: Lower well

Regular Parameters			Optional Parameters (List as needed)	
	Results	units		Results
pH	<u>6.4</u>			
Arsenic	<u>20.01</u>	mg/l	<u>Mercury</u>	<u>< 0.0002</u>
Lead	<u>< 0.03</u>	mg/l		
Iron	<u>1.16</u>	mg/l		
Manganese	<u>0.07</u>	mg/l		
Copper	<u>< 0.05</u>	mg/l		
Zinc	<u>0.06</u>	mg/l		
Calcium	<u>6.5</u>	mg/l		
Magnesium	<u>1</u>	mg/l		
Hardness-CaCO ₃ (Ca, Mg)	<u>21</u>	mg/l		
Alkalinity-CaCO ₃	<u>24</u>	mg/l		
Chloride	<u>5</u>	mg/l		
Color	<u>15</u>	units		
Turbidity	<u>21</u>	NTU units		
Fluoride	<u>< 0.10</u>	mg/l		

Date Received _____ Date Reported 7-19-85 Reported By _____

Date Analyzed _____ Laboratory Number 1324 JUL 11 85

STATE LABORATORY OF PUBLIC HEALTH
 DIVISION OF HEALTH SERVICES
 N. C. DEPARTMENT OF HUMAN RESOURCES
 P.O. BOX 28047 - 306 N. WILMINGTON ST., RALEIGH 27611

Final Section

INORGANIC CHEMICAL ANALYSES-PRIVATE WATER SYSTEM

Complete All Items Above Heavy Line
 (See Instructions on Reverse Side)

RECEIVED JUL 23 1985

Name of System: Alamance County Landfill

Address: Well #2
Graham ZIP 27253

County: Alamance

Report To: Albert Mills

Address: Alamance County Health Dept
Graham - Hopedale Rd
Burlington ZIP 27215

Collected By: A. Mills

Date Collected: 7/10/85 Time: 11:20 ^{AM} _{PM}

Location of Sampling Point: monitoring well

Source of Water:
 Ground () Both
 Surface () Purchased

Source of Sample:
 House Tap () monitoring well
 Well Tap

Type of Sample:
 Raw () Treated

Type of Treatment:
 None () Lime
 Chlorinated () Soda Ash
 Fluoridated () Polyphosphate
 Filtered () Water Softener
 Alum () Other

Type of Analysis Desired:
 Regular Parameters () Both
 Optional Parameters

Remarks: upper well

Regular Parameters			Optional Parameters (List as needed)	
	Results	units		Results
pH	<u>6.8</u>			
Arsenic	<u><0.01</u>	mg/l	<u>Mercury</u>	<u><0.0002</u>
Lead	<u><0.03</u>	mg/l		
Iron	<u>7.30</u>	mg/l		
Manganese	<u>0.34</u>	mg/l		
Copper	<u><0.05</u>	mg/l		
Zinc	<u><0.105</u>	mg/l		
Calcium	<u>16.8</u>	mg/l		
Magnesium	<u>3.9</u>	mg/l		
Hardness-CaCO ₃ (Ca, Mg)	<u>53</u>	mg/l		
Alkalinity-CaCO ₃	<u>60</u>	mg/l		
Chloride	<u>7.0</u>	mg/l		
Color	<u>140</u>	units		
Turbidity	<u>380</u>	NTU units		
Fluoride	<u><0.10</u>	mg/l		

Date Received _____ Date Reported 7-19-85 Reported By 14323 JUL 11 85

Date Analyzed _____ Laboratory Number _____

SAMPLE ANALYSES REQUEST



State of Public Health
P. O. Box 28047
Wilmington Street
Raleigh, 27611

Site Number 01000000001 Field Sample Number 617
Name of Site Alamance Co. LF Site Location SR 2178
Collected By Byrdé Will ID# 56 & 57 Date Collected 4-2-87 Time 12:30

Type of Sample:

Environmental	Concentrate	Comments
<input checked="" type="checkbox"/> Groundwater (1)	<input type="checkbox"/> Solid (5)	<u>W-1</u>
<input type="checkbox"/> Surface Water (2)	<input type="checkbox"/> Liquid (6)	
<input type="checkbox"/> Soil (3)	<input type="checkbox"/> Sludge (7)	
<input type="checkbox"/> Other (4)	<input type="checkbox"/> Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
— Arsenic		<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Silver	<u><0.05</u>
— Barium		<input checked="" type="checkbox"/> Barium	<u>0.2</u>	<input checked="" type="checkbox"/> Sulfates	<u>5</u>
— Cadmium		<input checked="" type="checkbox"/> Cadmium	<u><0.005</u>	<input checked="" type="checkbox"/> Zinc	<u>0.05</u>
— Chromium		<input checked="" type="checkbox"/> Chloride	<u>3</u>	<input checked="" type="checkbox"/> Ph	<u>6.2</u>
— Lead		<input checked="" type="checkbox"/> Chromium	<u>0.06</u>	<input checked="" type="checkbox"/> Conductivity	<u>88 uhas</u>
— Mercury		<input checked="" type="checkbox"/> Copper	<u>0.08</u>	<input checked="" type="checkbox"/> TDS	<u>96</u>
— Selenium		<input checked="" type="checkbox"/> Fluoride	<u><0.10</u>	<input checked="" type="checkbox"/> TOC	<u>12</u>
— Silver		<input checked="" type="checkbox"/> Iron	<u>27.60</u>		
		<input checked="" type="checkbox"/> Lead	<u><0.03</u>		
		<input checked="" type="checkbox"/> Manganese	<u>0.39</u>		
		<input checked="" type="checkbox"/> Mercury	<u><0.0003</u>		
		<input checked="" type="checkbox"/> Nitrate	<u><1.00</u>		
		<input checked="" type="checkbox"/> Selenium	<u><0.005</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
— P&T:GC/MS		— EDB		— Methoxychlor	
— Acid:B/N Ext.		— PCB's		— Toxaphene	
— TOX		— Petroleum		— 2,4-D	
		— Endrin		— 2,4,5-TP (silvex)	
		— Lindane			

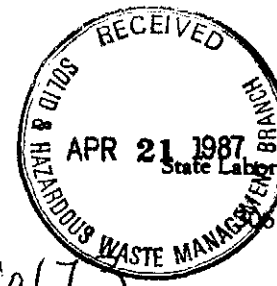
MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCI/1
— (MF) Coliform Colonies/100mls	— Gross Alpha	
— (MPN) Coliform Colonies/100mls	— Gross Beta	

Date Received _____ Date Reported 4-13-87
Date Extracted _____ Date Analyzed _____
Reported By _____ Lab Number 006867 APR 387

SAMPLE ANALYSES REQUEST



State Laboratory of Public Health
P. O. Box 28047
606 N. Wilmington Street
Raleigh, 27611

Site Number 01000000001 Field Sample Number 6175
Name of Site Alamance Co. LF Site Location SR 2150
Collected By Burd & Will ID# 56457 Date Collected 4-2-87 Time 1:00

Type of Sample:

Environmental	Concentrate	Comments
<input checked="" type="checkbox"/> Groundwater (1)	<input type="checkbox"/> Solid (5)	<u>W-4</u>
<input type="checkbox"/> Surface Water (2)	<input type="checkbox"/> Liquid (6)	
<input type="checkbox"/> Soil (3)	<input type="checkbox"/> Sludge (7)	
<input type="checkbox"/> Other (4)	<input type="checkbox"/> Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input type="checkbox"/> Arsenic		<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Silver	<u><0.05</u>
<input type="checkbox"/> Barium		<input checked="" type="checkbox"/> Barium	<u>0.3</u>	<input checked="" type="checkbox"/> Sulfates	<u>13</u>
<input type="checkbox"/> Cadmium		<input checked="" type="checkbox"/> Cadmium	<u><0.005</u>	<input checked="" type="checkbox"/> Zinc	<u>0.05</u>
<input type="checkbox"/> Chromium		<input checked="" type="checkbox"/> Chloride	<u>2</u>	<input checked="" type="checkbox"/> Ph	<u>6.2</u>
<input type="checkbox"/> Lead		<input checked="" type="checkbox"/> Chromium	<u>0.02</u>	<input checked="" type="checkbox"/> Conductivity	<u>84 umhos</u>
<input type="checkbox"/> Mercury		<input checked="" type="checkbox"/> Copper	<u>0.05</u>	<input checked="" type="checkbox"/> TDS	<u>84</u>
<input type="checkbox"/> Selenium		<input checked="" type="checkbox"/> Fluoride	<u><0.10</u>	<input checked="" type="checkbox"/> TOC	<u>10</u>
<input type="checkbox"/> Silver		<input checked="" type="checkbox"/> Iron	<u>26.90</u>		
		<input checked="" type="checkbox"/> Lead	<u><0.03</u>		
		<input checked="" type="checkbox"/> Manganese	<u>0.04</u>		
		<input checked="" type="checkbox"/> Mercury	<u><0.0002</u>		
		<input checked="" type="checkbox"/> Nitrate	<u>3.80</u>		
		<input checked="" type="checkbox"/> Selenium	<u><0.005</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input type="checkbox"/> P&T:GC/MS		<input type="checkbox"/> EDB		<input type="checkbox"/> Methoxychlor	
<input type="checkbox"/> Acid:B/N Ext.		<input type="checkbox"/> PCB's		<input type="checkbox"/> Toxaphene	
<input type="checkbox"/> TOX		<input type="checkbox"/> Petroleum		<input type="checkbox"/> 2,4-D	
		<input type="checkbox"/> Endrin		<input type="checkbox"/> 2,4,5-TP (silvex)	
		<input type="checkbox"/> Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/1
<input type="checkbox"/> (MF) Coliform Colonies/100mls	<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> (MPN) Coliform Colonies/100mls	<input type="checkbox"/> Gross Beta	

Date Received _____ Date Reported 4-13-87
Date Extracted _____ Date Analyzed _____
Reported By _____ Lab Number 006868 APR 387

SAMPLE ANALYSES REQUEST



State Laboratory of Public Health
P. O. Box 28047
106 N. Wilmington Street
Raleigh, 27611

Site Number 01000000001 Field Sample Number 174
Name of Site Alamance Co. LF Site Location SR
Collected By Byrd & Will ID# 56857 Date Collected 4-2-87 Time 1:30

Type of Sample:

Environmental	Concentrate	Comments
<input checked="" type="checkbox"/> Groundwater (1)	<input type="checkbox"/> Solid (5)	<u>W-5</u>
<input type="checkbox"/> Surface Water (2)	<input type="checkbox"/> Liquid (6)	
<input type="checkbox"/> Soil (3)	<input type="checkbox"/> Sludge (7)	
<input type="checkbox"/> Other (4)	<input type="checkbox"/> Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
— Arsenic		<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Silver	<u><0.05</u>
— Barium		<input checked="" type="checkbox"/> Barium	<u><0.1</u>	<input checked="" type="checkbox"/> Sulfates	<u>23</u>
— Cadmium		<input checked="" type="checkbox"/> Cadmium	<u>32.005</u>	<input checked="" type="checkbox"/> Zinc	<u><0.05</u>
— Chromium		<input checked="" type="checkbox"/> Chloride	<u>5</u>	<input checked="" type="checkbox"/> Ph	<u>6.3</u>
— Lead		<input checked="" type="checkbox"/> Chromium	<u><0.01</u>	<input checked="" type="checkbox"/> Conductivity	<u>120 u/mkcs</u>
— Mercury		<input checked="" type="checkbox"/> Copper	<u>20.05</u>	<input checked="" type="checkbox"/> TDS	<u>136</u>
— Selenium		<input checked="" type="checkbox"/> Fluoride	<u>20.10</u>	<input type="checkbox"/> TOC	<u>12</u>
— Silver		<input checked="" type="checkbox"/> Iron	<u>3.12</u>		
		<input checked="" type="checkbox"/> Lead	<u><0.03</u>		
		<input checked="" type="checkbox"/> Manganese	<u>0.08</u>		
		<input checked="" type="checkbox"/> Mercury	<u><0.10000</u>		
		<input checked="" type="checkbox"/> Nitrate	<u><1.00</u>		
		<input checked="" type="checkbox"/> Selenium	<u><0.005</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
— P&T:GC/MS		— EDB		— Methoxychlor	
— Acid:B/N Ext.		— PCB's		— Toxaphene	
— TOX		— Petroleum		— 2,4-D	
		— Endrin		— 2,4,5-TP (silvex)	
		— Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCI/1
— (MF) Coliform Colonies/100mls	— Gross Alpha	
— (MPN) Coliform Colonies/100mls	— Gross Beta	

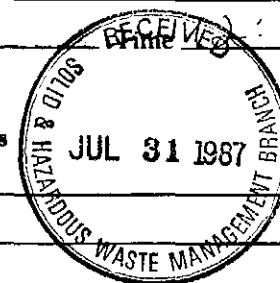
Date Received _____ Date Reported 4-13-87
Date Extracted _____ Date Analyzed _____
Reported By _____ Lab Number 006869 APR 387

SAMPLE ANALYSES REQUEST

Site Number 01000000001 Field Sample Number 4163
Name of Site Alamance Co. LF Site Location SR 2158
Collected By Byrd / Will ID# 56657 Date Collected 4-2-87

Type of Sample:

<input checked="" type="checkbox"/> Environmental	<input type="checkbox"/> Concentrate	Comments <u>W-1</u>
<input checked="" type="checkbox"/> Groundwater (1)	<input type="checkbox"/> Solid (5)	
<input type="checkbox"/> Surface Water (2)	<input type="checkbox"/> Liquid (6)	
<input type="checkbox"/> Soil (3)	<input type="checkbox"/> Sludge (7)	
<input type="checkbox"/> Other (4)	<input type="checkbox"/> Other (8)	



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
— Arsenic	—	— Arsenic	—	— Silver	—
— Barium	—	— Barium	—	— Sulfates	—
— Cadmium	—	— Cadmium	—	— Zinc	—
— Chromium	—	— Chloride	—	— Ph	—
— Lead	—	— Chromium	—	— Conductivity	—
— Mercury	—	— Copper	—	— TDS	—
— Selenium	—	— Fluoride	—	— TOC	—
— Silver	—	— Iron	—		
—	—	— Lead	—		
—	—	— Manganese	—		
—	—	— Mercury	—		
—	—	— Nitrate	—		
—	—	— Selenium	—		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
✓ P&T:GC/MS	✓	— EDB	—	— Methoxychlor	—
✓ Acid:B/N Ext.	—	— PCB's	—	— Toxaphene	—
— TOX	—	— Petroleum	—	— 2,4-D	—
—	—	— Endrin	—	— 2,4,5-TP (silvex)	—
—	—	— Lindane	—		

MICROBIOLOGY

Parameter
— (MF) Coliform Colonies/100mls
— (MPN) Coliform Colonies/100mls
—
—

RADIOCHEMISTRY

Parameter	Results PCI/1
— Gross Alpha	—
— Gross Beta	—
—	—
—	—

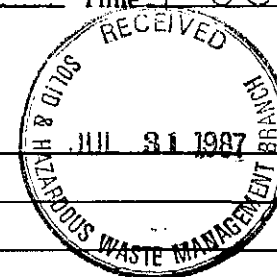
Date Received 4-2-87 NW Date Reported 7-24-87
Date Extracted 4-13-87 V.P. F.B. Date Analyzed 4-16-87 NW 4-16-87 BNA
Reported By John P. Neal Lab Number 701017 HALF PEP 6/19/87

SAMPLE ANALYSES REQUEST

Site Number 01000000001 Field Sample Number 4164
Name of Site Alamance Co. LF Site Location SR 2158
Collected By Burd/Will ID# 56557 Date Collected 4-2-87 Time 1:00

Type of Sample:

Environmental	Concentrate	Comments
<input checked="" type="checkbox"/> Groundwater (1)	<input type="checkbox"/> Solid (5)	<u>W-4</u>
<input type="checkbox"/> Surface Water (2)	<input type="checkbox"/> Liquid (6)	
<input type="checkbox"/> Soil (3)	<input type="checkbox"/> Sludge (7)	
<input type="checkbox"/> Other (4)	<input type="checkbox"/> Other (8)	



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
___ Arsenic	_____	___ Arsenic	_____	___ Silver	_____
___ Barium	_____	___ Barium	_____	___ Sulfates	_____
___ Cadmium	_____	___ Cadmium	_____	___ Zinc	_____
___ Chromium	_____	___ Chloride	_____	___ Ph	_____
___ Lead	_____	___ Chromium	_____	___ Conductivity	_____
___ Mercury	_____	___ Copper	_____	___ TDS	_____
___ Selenium	_____	___ Fluoride	_____	___ TOC	_____
___ Silver	_____	___ Iron	_____		
___	_____	___ Lead	_____		
___	_____	___ Manganese	_____		
___	_____	___ Mercury	_____		
___	_____	___ Nitrate	_____		
___	_____	___ Selenium	_____		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input checked="" type="checkbox"/> P&T:GC/MS	<input checked="" type="checkbox"/>	___ EDB	_____	___ Methoxychlor	_____
<input checked="" type="checkbox"/> Acid:B/N Ext.	_____	___ PCB's	_____	___ Toxaphene	_____
___ TOX	_____	___ Petroleum	_____	___ 2,4-D	_____
___	_____	___ Endrin	_____	___ 2,4,5-TP (silvex)	_____
___	_____	___ Lindane	_____		

MICROBIOLOGY

Parameter
___ (MF) Coliform Colonies/100mls
___ (MPN) Coliform Colonies/100mls

RADIOCHEMISTRY

Parameter	Results PCI/1
___ Gross Alpha	_____
___ Gross Beta	_____
___	_____
___	_____

Date Received 4-2-87 NW Date Reported _____
Date Extracted 4-13-87 VP Date Analyzed 4-16-87 BR
Reported By _____ Lab Number 7:1018

SAMPLE ANALYSES REQUEST

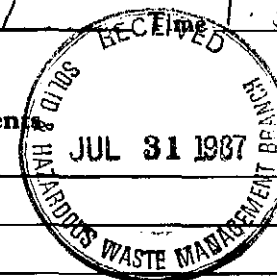
Site Number 01000000001 Field Sample Number 4165
Name of Site Alamance Co. LF Site Location SR 2158
Collected By Byrd & Will ID# 56857 Date Collected 4-2-87 1:30

Type of Sample:

Environmental **Concentrate**
 Groundwater (1) _____ Solid (5)
_____ Surface Water (2) _____ Liquid (6)
_____ Soil (3) _____ Sludge (7)
_____ Other (4) _____ Other (8)

Comments

W-5



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
_____ Arsenic	_____	_____ Arsenic	_____	_____ Silver	_____
_____ Barium	_____	_____ Barium	_____	_____ Sulfates	_____
_____ Cadmium	_____	_____ Cadmium	_____	_____ Zinc	_____
_____ Chromium	_____	_____ Chloride	_____	_____ Ph	_____
_____ Lead	_____	_____ Chromium	_____	_____ Conductivity	_____
_____ Mercury	_____	_____ Copper	_____	_____ TDS	_____
_____ Selenium	_____	_____ Fluoride	_____	_____ TOC	_____
_____ Silver	_____	_____ Iron	_____		
_____	_____	_____ Lead	_____		
_____	_____	_____ Manganese	_____		
_____	_____	_____ Mercury	_____		
_____	_____	_____ Nitrate	_____		
_____	_____	_____ Selenium	_____		

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input checked="" type="checkbox"/> P&T:GC/MS	<input checked="" type="checkbox"/>	_____ EDB	_____	_____ Methoxychlor	_____
<input checked="" type="checkbox"/> Acid:B/N Ext.	_____	_____ PCB's	_____	_____ Toxaphene	_____
_____ TOX	_____	_____ Petroleum	_____	_____ 2,4-D	_____
_____	_____	_____ Endrin	_____	_____ 2,4,5-TP (silvex)	_____
_____	_____	_____ Lindane	_____		

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/1
_____ (MF) Coliform Colonies/100mls	_____ Gross Alpha	_____
_____ (MPN) Coliform Colonies/100mls	_____ Gross Beta	_____

Date Received _____ Date Reported _____
Date Extracted 4-21-87 EB Date Analyzed PT 4-16-87 TW BN 4-28-87 BD
Reported By _____ Lab Number 7-1019

N. C. DEPARTMENT OF HUMAN RESOURCES
DIVISION OF HEALTH SERVICES
SOLID AND HAZARDOUS WASTE MANAGEMENT BRANCH



Chain of Custody Record

Hazardous Waste Materials

Location of Sampling: Generator Transporter Treatment Facility
 Storage Facility Disposal Facility Landfill
 Other:

Company's Name Alamance Co. Telephone () _____

Address SR 2178

Collector's Name Paula Byrd / Shon Will Telephone () 733-2178
signature

Date Sampled 4-2-87 Time Sampled 12:30/1:00/1:30

Type of Process Generating Waste _____

Field Information

Field Sample No. 4163 4164 4165 _____

Chain of Possession:

1. Paula Byrd / Shon Will Hydrogeological Tech 4-2-87
signature title inclusive dates

2. Jude Byrd _____ 4-2-87
signature title inclusive dates

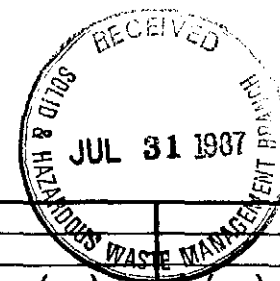
3. _____ _____ _____
signature title inclusive dates

Results reported

_____ _____ _____
signature title date

Instructions: Complete all applicable information including signatures, and submit with analysis request forms.

STATE LABORATORY OF PUBLIC HEALTH
 DIVISION OF HEALTH SERVICES, N.C. DEPARTMENT OF HUMAN RESOURCES
 P.O. BOX 28047 - 306 N. WILMINGTON, ST., RALEIGH, N.C. 27611



ORGANIC CHEMICAL ANALYSIS

BASE/NEUTRAL AND ACID EXTRACTABLES	LAB NO	701017	701018	701019			
	FIELD #	4163	4164	4165			
COMPOUND	TYPE	(1)	(1)	(1)	()	()	()
	UNITS	μg/l μg/kg	μg/l μg/kg	μg/l μg/kg	μg/l μg/kg	μg/l μg/kg	μg/l μg/kg
N-nitrosodimethylamine	10	U	U	U			
bis(2-chloroethyl)ether							
2-chlorophenol							
phenol							
1,3-dichlorobenzene							
1,4-dichlorobenzene							
1,2-dichlorobenzene							
bis(2-chloroisopropyl)ether							
hexachloroethane							
N-nitroso-di-n-propylamine							
nitrobenzene							
isophorone							
2-nitrophenol							
2,4-dimethylphenol							
bis(2-chloroethoxy)methane							
2,4-dichlorophenol							
1,2,4-trichlorobenzene							
naphthalene							
hexachlorobutadiene							
4-chloro-m-cresol							
hexachlorocyclopentadiene							
2,4,6-trichlorophenol							
2-chloronaphthalene							
acenaphthylene							
dimethyl phthalate							
2,6-dinitrotoluene							
acenaphthene	✓						
2,4-dinitrophenol	50						
2,4-dinitrotoluene	10						
4-nitrophenol	50						
fluorene	10						
4-chlorophenylphenylether	10	✓					
diethyl phthalate	10	10K					
4,6-dinitro-o-cresol	50	U					
diphenylamine	50						
azobenzene	50						
4-bromophenylphenylether	10						
hexachlorobenzene	10						
pentachlorophenol	50						
phenanthrene	10						
anthracene	10	✓	✓				
dibutyl phthalate	10	10K	10K				
fluoranthene	10	U	U	✓			

MDL
μg/l

- J - Estimated value.
- K - Actual value is known to be less than value given.
- L - Actual value is known to be greater than value given.
- U - Material was analyzed for but not detected. The number is the Minimum Detection Limit. = MDL
- NA - Not analyzed.
- 1/ - Tentative identification.
- 2/ - On NRDC List of Priority Pollutants.



North Carolina Department of Human Resources
Division of Health Services
P.O. Box 2091 • Raleigh, North Carolina 27602-2091

James G. Martin, Governor
David T. Flaherty, Secretary

Ronald H. Levine, M.D., M.P.H.
State Health Director

August 4, 1987

MEMORANDUM

TO: Perry Nelson, Chief Ground-Water Section
Division of Environmental Management

FROM: Paula Byrd, Solid Waste Unit
Solid & Hazardous Waste Management Branch

SUBJECT: Analytical results from Alamance County Landfill Solid Waste
Facility #01-01.

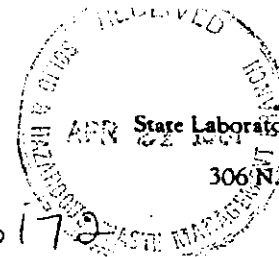
Per the MOA dated June 4, 1987 between NRCD and DHR, enclosed are copies of recent analytical results from the above referenced facility that may indicate contravention or potential contravention of ground-water standards. If any additional information is required please advise.

PDB/mj/6369pg5

cc: ✓R.C. Smith, Alamance County Manager
Terry Waddell
Julian Foscue
Michael Babuin

68-11-23
1987
AUG 11 9 05
RECEIVED

SAMPLE ANALYSES REQUEST



State Laboratory of Public Health
P. O. Box 28047
306 N. Wilmington Street
Raleigh, 27611

Site Number 01000000001 Field Sample Number 6172
Name of Site Alamance Co. LF Site Location SR 2178
Collected By Byrd E. Will ID# 56 E 57 Date Collected 4-2-87 Time 12:30

Type of Sample:

<input checked="" type="checkbox"/> Environmental	<input type="checkbox"/> Concentrate	W-1	Comments
<input checked="" type="checkbox"/> Groundwater (1)	<input type="checkbox"/> Solid (5)		
<input type="checkbox"/> Surface Water (2)	<input type="checkbox"/> Liquid (6)		
<input type="checkbox"/> Soil (3)	<input type="checkbox"/> Sludge (7)		
<input type="checkbox"/> Other (4)	<input type="checkbox"/> Other (8)		

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> Arsenic		<input checked="" type="checkbox"/> Arsenic	<u>0.01</u>	<input checked="" type="checkbox"/> Silver	<u><0.05</u>
<input type="checkbox"/> Barium		<input checked="" type="checkbox"/> Barium	<u>0.2</u>	<input checked="" type="checkbox"/> Sulfates	<u>5</u>
<input type="checkbox"/> Cadmium		<input checked="" type="checkbox"/> Cadmium	<u><0.005</u>	<input checked="" type="checkbox"/> Zinc	<u>0.05</u>
<input type="checkbox"/> Chromium		<input checked="" type="checkbox"/> Chloride	<u>3</u>	<input checked="" type="checkbox"/> Ph	<u>6.2</u>
<input type="checkbox"/> Lead		<input checked="" type="checkbox"/> Chromium	<u>0.06</u>	<input checked="" type="checkbox"/> Conductivity	<u>88 uMhos</u>
<input type="checkbox"/> Mercury		<input checked="" type="checkbox"/> Copper	<u>0.08</u>	<input checked="" type="checkbox"/> TDS	<u>96</u>
<input type="checkbox"/> Selenium		<input checked="" type="checkbox"/> Fluoride	<u>20.10</u>	<input checked="" type="checkbox"/> TOC	<u>12</u>
<input type="checkbox"/> Silver		<input checked="" type="checkbox"/> Iron	<u>27.60</u>		
		<input checked="" type="checkbox"/> Lead	<u><0.03</u>		
		<input checked="" type="checkbox"/> Manganese	<u>0.39</u>		
		<input checked="" type="checkbox"/> Mercury	<u><0.0003</u>		
		<input checked="" type="checkbox"/> Nitrate	<u><1.00</u>		
		<input checked="" type="checkbox"/> Selenium	<u><0.005</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> P&T:GC/MS		<input type="checkbox"/> EDB		<input type="checkbox"/> Methoxychlor	
<input type="checkbox"/> Acid:B/N Ext.		<input type="checkbox"/> PCB's		<input type="checkbox"/> Toxaphene	
<input type="checkbox"/> TOX		<input type="checkbox"/> Petroleum		<input type="checkbox"/> 2,4-D	
		<input type="checkbox"/> Endrin		<input type="checkbox"/> 2,4,5-TP (silvex)	
		<input type="checkbox"/> Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/l
<input type="checkbox"/> (MF) Coliform Colonies/100mls	<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> (MPN) Coliform Colonies/100mls	<input type="checkbox"/> Gross Beta	

Date Received _____ Date Reported 4-13-87
Date Extracted _____ Date Analyzed _____
Reported By _____ Lab Number 006867 APR 387

Site Number 0100000001
Name of Site Alamance Co. L
Collected By Byrd & Will ID# 5

Type of Sample:
 Environmental
 Groundwater (1)
 Surface Water (2)
 Soil (3)
 Other (4)
 Concentrate
 Solid (5)
 Liquid (6)
 Sludge (7)
 Other (8)

Parameter	Results mg/l	Parameter	Results mg/l
Arsenic		Arsenic	50.0
Barium		Barium	0.3
Cadmium		Cadmium	50.003
Chromium		Chloride	2
Lead		Chromium	0.002
Mercury		Copper	0.05
Selenium		Fluoride	0.10
Silver		Iron	26.90
		Lead	0.03
		Manganese	0.002
		Mercury	3.80
		Nitrate	0.005
		Selenium	

Parameter	Results mg/l
P&T:GC/MS	
Acid:B/N Ext.	
TOX	

Parameter	Results mg/l
(MF) Coliform Colonies/100mls	
(MPN) Coliform Colonies/100mls	

Parameter	Results mg/l
EDB	
PCB's	
Petroleum	
Endrin	
Lindane	

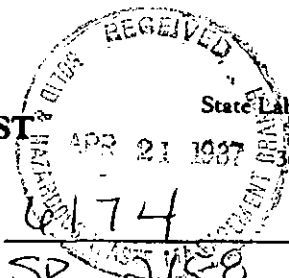
Parameter	Results PCI/l
Methoxychlor	
Toxaphene	
2,4-D	
2,4,5-TP (silver)	

Date Received _____
 Date Extracted _____
 Reported By _____
 DHS 3191 (Revised 7/85)
 Solid and Hazardous Waste (Review 7/87)

Date Reported _____
 Date Analyzed _____
 Lab Number 412

SAMPLE ANALYSES REQUEST

State Laboratory of Public Health
P. O. Box 28047
306 N. Wilmington Street
Raleigh, 27611



Site Number 01000000001 Field Sample Number 174
Name of Site Alamance Co. LF Site Location SR 2158
Collected By Byrd & Will ID# 56457 Date Collected 4-2-87 Time 1:30

Type of Sample:

Environmental	Concentrate	Comments
<input checked="" type="checkbox"/> Groundwater (1)	<input type="checkbox"/> Solid (5)	
<input type="checkbox"/> Surface Water (2)	<input type="checkbox"/> Liquid (6)	
<input type="checkbox"/> Soil (3)	<input type="checkbox"/> Sludge (7)	
<input type="checkbox"/> Other (4)	<input type="checkbox"/> Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> Arsenic		<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Silver	<u><0.05</u>
<input type="checkbox"/> Barium		<input checked="" type="checkbox"/> Barium	<u><0.1</u>	<input checked="" type="checkbox"/> Sulfates	<u>23</u>
<input type="checkbox"/> Cadmium		<input checked="" type="checkbox"/> Cadmium	<u>30.005</u>	<input checked="" type="checkbox"/> Zinc	<u><0.05</u>
<input type="checkbox"/> Chromium		<input checked="" type="checkbox"/> Chloride	<u>5</u>	<input checked="" type="checkbox"/> Ph	<u>6.3</u>
<input type="checkbox"/> Lead		<input checked="" type="checkbox"/> Chromium	<u><0.01</u>	<input checked="" type="checkbox"/> Conductivity	<u>120 umhos</u>
<input type="checkbox"/> Mercury		<input checked="" type="checkbox"/> Copper	<u>20.05</u>	<input checked="" type="checkbox"/> TDS	<u>136</u>
<input type="checkbox"/> Selenium		<input checked="" type="checkbox"/> Fluoride	<u>20.10</u>	<input checked="" type="checkbox"/> TOC	<u>12</u>
<input type="checkbox"/> Silver		<input checked="" type="checkbox"/> Iron	<u>3.12</u>		
		<input checked="" type="checkbox"/> Lead	<u><0.03</u>		
		<input checked="" type="checkbox"/> Manganese	<u>0.08</u>		
		<input checked="" type="checkbox"/> Mercury	<u><0.0002</u>		
		<input checked="" type="checkbox"/> Nitrate	<u><1.00</u>		
		<input checked="" type="checkbox"/> Selenium	<u><0.005</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> P&T:GC/MS		<input type="checkbox"/> EDB		<input type="checkbox"/> Methoxychlor	
<input type="checkbox"/> Acid:B/N Ext.		<input type="checkbox"/> PCB's		<input type="checkbox"/> Toxaphene	
<input type="checkbox"/> TOX		<input type="checkbox"/> Petroleum		<input type="checkbox"/> 2,4-D	
		<input type="checkbox"/> Endrin		<input type="checkbox"/> 2,4,5-TP (silvex)	
		<input type="checkbox"/> Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/l
<input type="checkbox"/> (MF) Coliform Colonies/100mls	<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> (MPN) Coliform Colonies/100mls	<input type="checkbox"/> Gross Beta	

Received _____ Date Reported 4-13-87
 Extracted _____ Date Analyzed _____
 Reported By _____ Lab Number 006869 APR 387

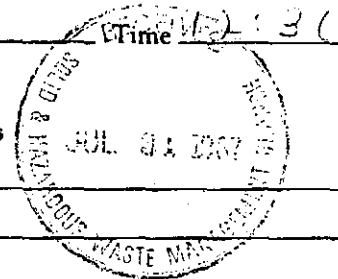
SAMPLE ANALYSES REQUEST

Site Number 01000000001 Field Sample Number 4163
Name of Site Alamance Co. LF Site Location SR 2158
Collected By Byrd / Will ID# 56557 Date Collected 4-2-87 Time 1:30

Type of Sample:

<input checked="" type="checkbox"/> Environmental	<input type="checkbox"/> Concentrate
<input checked="" type="checkbox"/> Groundwater (1)	<input type="checkbox"/> Solid (5)
<input type="checkbox"/> Surface Water (2)	<input type="checkbox"/> Liquid (6)
<input type="checkbox"/> Soil (3)	<input type="checkbox"/> Sludge (7)
<input type="checkbox"/> Other (4)	<input type="checkbox"/> Other (8)

Comments W-1



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
— Arsenic	_____	— Arsenic	_____	— Silver	_____
— Barium	_____	— Barium	_____	— Sulfates	_____
— Cadmium	_____	— Cadmium	_____	— Zinc	_____
— Chromium	_____	— Chloride	_____	— Ph	_____
— Lead	_____	— Chromium	_____	— Conductivity	_____
— Mercury	_____	— Copper	_____	— TDS	_____
— Selenium	_____	— Fluoride	_____	— TOC	_____
— Silver	_____	— Iron	_____		
—		— Lead	_____		
—		— Manganese	_____		
—		— Mercury	_____		
—		— Nitrate	_____		
—		— Selenium	_____		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
✓ P&T:GC/MS	✓	— EDB	_____	— Methoxychlor	_____
✓ Acid:B/N Ext.	_____	— PCB's	_____	— Toxaphene	_____
— TOX	_____	— Petroleum	_____	— 2,4-D	_____
—		— Endrin	_____	— 2,4,5-TP (silvex)	_____
—		— Lindane	_____		

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/l
— (MF) Coliform Colonies/100mls	— Gross Alpha	_____
— (MPN) Coliform Colonies/100mls	— Gross Beta	_____
—		
—		

ate Received 4-2-87 NW Date Reported 7-24-87
ate Extracted 4-13-87 V.P. F.B. Date Analyzed 4-16-87 NW 4-16-87 BWA
eported By John P. Neal Lab Number 701017 HAL/PEP 6/19/87

SAMPLE ANALYSES REQUEST

Site Number 01000000001 Field Sample Number 4164
Name of Site Alamance Co. LF Site Location SZ 2158
Collected By Byrd/Will ID# 56557 Date Collected 4-2-87 Time 1:00

Type of Sample:

Environmental	Concentrate	Comments
<input checked="" type="checkbox"/> Groundwater (1)	<input type="checkbox"/> Solid (5)	<u>W-4</u>
<input type="checkbox"/> Surface Water (2)	<input type="checkbox"/> Liquid (6)	
<input type="checkbox"/> Soil (3)	<input type="checkbox"/> Sludge (7)	
<input type="checkbox"/> Other (4)	<input type="checkbox"/> Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
_____ Arsenic	_____	_____ Arsenic	_____	_____ Silver	_____
_____ Barium	_____	_____ Barium	_____	_____ Sulfates	_____
_____ Cadmium	_____	_____ Cadmium	_____	_____ Zinc	_____
_____ Chromium	_____	_____ Chloride	_____	_____ Ph	_____
_____ Lead	_____	_____ Chromium	_____	_____ Conductivity	_____
_____ Mercury	_____	_____ Copper	_____	_____ TDS	_____
_____ Selenium	_____	_____ Fluoride	_____	_____ TOC	_____
_____ Silver	_____	_____ Iron	_____		
_____	_____	_____ Lead	_____		
_____	_____	_____ Manganese	_____		
_____	_____	_____ Mercury	_____		
_____	_____	_____ Nitrate	_____		
_____	_____	_____ Selenium	_____		

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input checked="" type="checkbox"/> P&T:GC/MS	<input checked="" type="checkbox"/>	_____ EDB	_____	_____ Methoxychlor	_____
<input checked="" type="checkbox"/> Acid:B/N Ext.	_____	_____ PCB's	_____	_____ Toxaphene	_____
_____ TOX	_____	_____ Petroleum	_____	_____ 2,4-D	_____
_____	_____	_____ Endrin	_____	_____ 2,4,5-TP (silvex)	_____
_____	_____	_____ Lindane	_____		

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results pCi/1
_____ (MF) Coliform Colonies/100mls	_____ Gross Alpha	_____
_____ (MPN) Coliform Colonies/100mls	_____ Gross Beta	_____

Date Received 4-2-87 NW Date Reported _____
Date Extracted 4-13-87 V.P. F.B. Date Analyzed 4-10-87 NW 4-16-87 BR
Reported By _____ Lab Number 701018

SAMPLE ANALYSES REQUEST

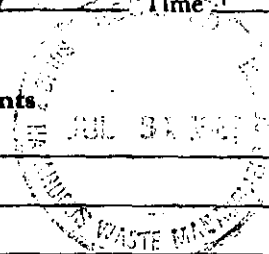
Site Number 01000000001 Field Sample Number 4165
Name of Site Alamance Co. LF Site Location SR 2158
Collected By Burd & Will ID# 56857 Date Collected 4-2-87 Time 1:30

Type of Sample:

Environmental **Concentrate**
 Groundwater (1) _____ Solid (5)
 Surface Water (2) _____ Liquid (6)
 Soil (3) _____ Sludge (7)
 Other (4) _____ Other (8)

Comments

W-5



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
_____ Arsenic	_____	_____ Arsenic	_____	_____ Silver	_____
_____ Barium	_____	_____ Barium	_____	_____ Sulfates	_____
_____ Cadmium	_____	_____ Cadmium	_____	_____ Zinc	_____
_____ Chromium	_____	_____ Chloride	_____	_____ Ph	_____
_____ Lead	_____	_____ Chromium	_____	_____ Conductivity	_____
_____ Mercury	_____	_____ Copper	_____	_____ TDS	_____
_____ Selenium	_____	_____ Fluoride	_____	_____ TOC	_____
_____ Silver	_____	_____ Iron	_____		
_____	_____	_____ Lead	_____		
_____	_____	_____ Manganese	_____		
_____	_____	_____ Mercury	_____		
_____	_____	_____ Nitrate	_____		
_____	_____	_____ Selenium	_____		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input checked="" type="checkbox"/> P&T:GC/MS	<input checked="" type="checkbox"/>	_____ EDB	_____	_____ Methoxychlor	_____
_____ Acid:B/N Ext.	_____	_____ PCB's	_____	_____ Toxaphene	_____
_____ TOX	_____	_____ Petroleum	_____	_____ 2,4-D	_____
_____	_____	_____ Endrin	_____	_____ 2,4,5-TP (silvex)	_____
_____	_____	_____ Lindane	_____		

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results-PCi/l
_____ (MF) Coliform Colonies/100mls	_____ Gross Alpha	_____
_____ (MPN) Coliform Colonies/100mls	_____ Gross Beta	_____

Date Received _____ Date Reported _____
Date Extracted 4-21-87 EB Date Analyzed 4-10-87 MW BA 4-28-87 RD
Reported By _____ Lab Number 7-1019

N. C. DEPARTMENT OF HUMAN RESOURCES
DIVISION OF HEALTH SERVICES
SOLID AND HAZARDOUS WASTE MANAGEMENT BRANCH



Chain of Custody Record

Hazardous Waste Materials

Location of Sampling: Generator Transporter Treatment Facility
 Storage Facility Disposal Facility Landfill
 Other:

Company's Name Alamance Co. Telephone () _____

Address SR 2178

Collector's Name Paula Byrd / Stone Hill Telephone () 733-2178
signature

Date Sampled 4-2-87 Time Sampled 12:30/1:00/1:30

Type of Process Generating Waste _____

Field Information

Field Sample No. 4163 4164 4165

Chain of Possession:

Paula Byrd / Stone Hill Hydrogeological Dept 4-2-87
signature title inclusive dates

Paula Byrd _____ 4-2-87
signature title inclusive dates

signature title inclusive dates

Results reported

signature title date

Instructions: Complete all applicable information including signatures, and submit with analysis request forms.

STATE LABORATORY OF PUBLIC HEALTH
 DIVISION OF HEALTH SERVICES, N.C. DEPARTMENT OF HUMAN RESOURCES
 P.O. BOX 28047 - 306 N. WILMINGTON, ST., RALEIGH, N.C. 27611

JUL 31 1987

ORGANIC CHEMICAL ANALYSIS

BASE/NEUTRAL AND ACID EXTRACTABLES	LAB NO	701017	701018	701019				
	FIELD #	4163	4164	4165				
COMPOUND	TYPE	(1)	(1)	(1)	()	()	()	()
	UNITS	(µg/l) µg/kg	(µg/l) µg/kg	(µg/l) µg/kg	µg/l µg/kg	µg/l µg/kg	µg/l µg/kg	µg/l µg/kg
N-nitrosodimethylamine	10	U	U	U				
bis(2-chloroethyl)ether								
2-chlorophenol								
phenol								
1,3-dichlorobenzene								
1,4-dichlorobenzene								
1,2-dichlorobenzene								
bis(2-chloroisopropyl)ether								
hexachloroethane								
N-nitroso-di-n-propylamine								
nitrobenzene								
isophorone								
2-nitrophenol								
2,4-dimethylphenol								
bis(2-chloroethoxy)methane								
2,4-dichlorophenol								
1,2,4-trichlorobenzene								
naphthalene								
hexachlorobutadiene								
4-chloro-m-cresol								
hexachlorocyclopentadiene								
2,4,6-trichlorophenol								
2-chloronaphthalene								
acenaphthylene								
dimethyl phthalate								
2,6-dinitrotoluene	✓							
acenaphthene	✓							
2,4-dinitrophenol	50							
2,4-dinitrotoluene	10							
1-nitrophenol	50							
fluorene	10							
1-chlorophenylphenylether	10	✓						
diethyl phthalate	10	10K						
1,6-dinitro-o-cresol	50	U						
diphenylamine	50							
isobenzene	50							
1-bromophenylphenylether	10							
hexachlorobenzene	10							
pentachlorophenol	50							
phenanthrene	10							
anthracene	10	✓	✓					
diethyl phthalate	10	10K	10K					
fluoranthene	10	U	U	✓				

MDL

µg/l

- () - Estimated value.
- (-) - Actual value is known to be less than value given.
- (+) - Actual value is known to be greater than value given.
- (/) - Material was analyzed for but not detected. The number is the Minimum Detection Limit. = MDL
- NA - Not analyzed.
- 1/ - Tentative identification.
- 1/ - On NRDC List of Priority Pollutants.

.C. Division of Health Services
 HS 3068-0 (4/86 Laboratory)

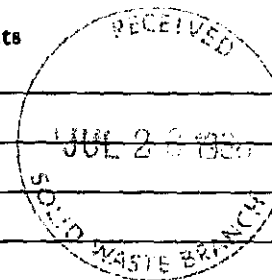
SAMPLE ANALYSES REQUEST

Site Number 01-01 Field Sample Number 007351
Name of Site Alamance Co. Landfill Site Location Swepsonville, NC
Collected By Myers ID# 56 Date Collected 7/12/88 Time 10:45

Type of Sample:

Environmental **Concentrate**
 Groundwater (1) Solid (5)
 Surface Water (2) Liquid (6)
 Soil (3) Sludge (7)
 Other (4) Other (8)

Comments Sample #1



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> Arsenic		<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Silver	<u><0.05</u>
<input type="checkbox"/> Barium		<input checked="" type="checkbox"/> Barium	<u>0.3</u>	<input checked="" type="checkbox"/> Sulfates	<u>23</u>
<input type="checkbox"/> Cadmium		<input checked="" type="checkbox"/> Cadmium	<u><0.005</u>	<input checked="" type="checkbox"/> Zinc	<u>0.28</u>
<input type="checkbox"/> Chromium		<input checked="" type="checkbox"/> Chloride	<u>13</u>	<input checked="" type="checkbox"/> Ph	<u>5.9</u>
<input type="checkbox"/> Lead		<input checked="" type="checkbox"/> Chromium	<u><0.01</u>	<input checked="" type="checkbox"/> Conductivity	<u>135 uS</u>
<input type="checkbox"/> Mercury		<input checked="" type="checkbox"/> Copper	<u><0.05</u>	<input checked="" type="checkbox"/> TDS	<u>104</u>
<input type="checkbox"/> Selenium		<input checked="" type="checkbox"/> Fluoride	<u><0.10</u>	<input checked="" type="checkbox"/> TOC	<u>12</u>
<input type="checkbox"/> Silver		<input checked="" type="checkbox"/> Iron	<u>7.07</u>		
		<input checked="" type="checkbox"/> Lead	<u><0.03</u>		
		<input checked="" type="checkbox"/> Manganese	<u>0.54</u>		
		<input checked="" type="checkbox"/> Mercury	<u><0.0002</u>		
		<input checked="" type="checkbox"/> Nitrate (as N)	<u>2.14</u>		
		<input checked="" type="checkbox"/> Selenium	<u><0.005</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/l	Parameter	Results mg/l	Parameter	Results mg/l
<input type="checkbox"/> P&T:GC/MS		<input type="checkbox"/> EDB		<input type="checkbox"/> Methoxychlor	
<input type="checkbox"/> Acid:B/N Ext.		<input type="checkbox"/> PCB's		<input type="checkbox"/> Toxaphene	
<input type="checkbox"/> TOX		<input type="checkbox"/> Petroleum		<input type="checkbox"/> 2,4-D	
		<input type="checkbox"/> Endrin		<input type="checkbox"/> 2,4,5-TP (silvex)	
		<input type="checkbox"/> Lindane			

MICROBIOLOGY

Parameter
<input type="checkbox"/> (MF) Coliform Colonies/100mls
<input type="checkbox"/> (MPN) Coliform Colonies/100mls

RADIOCHEMISTRY

Parameter	Results PCi/1
<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> Gross Beta	

Date Received _____ Date Reported 7/27/88
Date Extracted _____ Date Analyzed _____
Reported By _____ Lab Number 013651 JUL 13 88

SAMPLE ANALYSES REQUEST

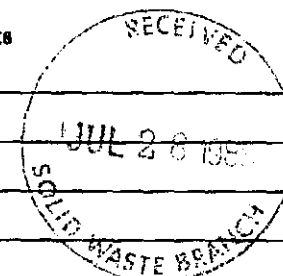
Site Number 01-01 Field Sample Number 007352
Name of Site Alamance Co. Landfill Site Location Swepsonville, NC
Collected By Myers ID# 56 Date Collected 7/12/88 Time 12:25

Type of Sample:

Environmental **Concentrate**
 Groundwater (1) Solid (5)
 Surface Water (2) Liquid (6)
 Soil (3) Sludge (7)
 Other (4) Other (8)

Sample #2

Comments



INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
— Arsenic		<input checked="" type="checkbox"/> Arsenic	<u><0.01</u>	<input checked="" type="checkbox"/> Silver	<u><0.05</u>
— Barium		<input checked="" type="checkbox"/> Barium	<u>0.1</u>	<input checked="" type="checkbox"/> Sulfates	<u>17</u>
— Cadmium		<input checked="" type="checkbox"/> Cadmium	<u><0.005</u>	<input checked="" type="checkbox"/> Zinc	<u>0.29</u>
— Chromium		<input checked="" type="checkbox"/> Chloride	<u>LS</u>	<input checked="" type="checkbox"/> Ph	<u>7.1</u>
— Lead		<input checked="" type="checkbox"/> Chromium	<u><0.01</u>	<input checked="" type="checkbox"/> Conductivity	<u>117 μS</u>
— Mercury		<input checked="" type="checkbox"/> Copper	<u><0.05</u>	<input checked="" type="checkbox"/> TDS	<u>148</u>
— Selenium		<input checked="" type="checkbox"/> Fluoride	<u>0.13</u>	<input checked="" type="checkbox"/> TOC	<u>12</u>
— Silver		<input checked="" type="checkbox"/> Iron	<u>2.96</u>		
		<input checked="" type="checkbox"/> Lead	<u><0.03</u>		
		<input checked="" type="checkbox"/> Manganese	<u>0.37</u>		
		<input checked="" type="checkbox"/> Mercury	<u><0.0002</u>		
		<input checked="" type="checkbox"/> Nitrate (as N)	<u>21</u>		
		<input checked="" type="checkbox"/> Selenium	<u><0.005</u>		

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
— P&T:GC/MS		— EDB		— Methoxychlor	
— Acid:B/N Ext.		— PCB's		— Toxaphene	
— TOX		— Petroleum		— 2,4-D	
		— Endrin		— 2,4,5-TP (silvex)	
		— Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

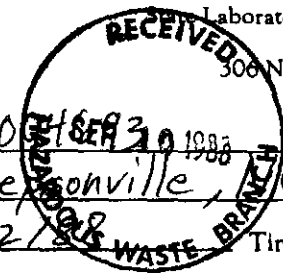
Parameter	Parameter	Results PCi/1
— (MF) Coliform Colonies/100mls	— Gross Alpha	
— (MPN) Coliform Colonies/100mls	— Gross Beta	

Date Received _____ Date Reported 7/27/88
Date Extracted _____ Date Analyzed _____
Reported By _____ Lab Number 013652 JUL 1388

SAMPLE ANALYSES REQUEST

Laboratory of Public Health
P. O. Box 28047
300 N. Wilmington Street
Raleigh, 27611

Site Number 01-01 Field Sample Number 01-01-01
Name of Site Alamance Co. Landfill Site Location Sweptownville, NC
Collected By Myers ID# 56 Date Collected 7/12/88 Time 10:45



Type of Sample:

<input checked="" type="checkbox"/> Environmental	<input type="checkbox"/> Concentrate	Comments <u>Sample # 1</u>
<input type="checkbox"/> Groundwater (1)	<input type="checkbox"/> Solid (5)	
<input type="checkbox"/> Surface Water (2)	<input type="checkbox"/> Liquid (6)	
<input type="checkbox"/> Soil (3)	<input type="checkbox"/> Sludge (7)	
<input type="checkbox"/> Other (4)	<input type="checkbox"/> Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
— Arsenic	—	— Arsenic	—	— Silver	—
— Barium	—	— Barium	—	— Sulfates	—
— Cadmium	—	— Cadmium	—	— Zinc	—
— Chromium	—	— Chloride	—	— Ph	—
— Lead	—	— Chromium	—	— Conductivity	—
— Mercury	—	— Copper	—	— TDS	—
— Selenium	—	— Fluoride	—	— TOC	—
— Silver	—	— Iron	—		
—	—	— Lead	—		
—	—	— Manganese	—		
—	—	— Mercury	—		
—	—	— Nitrate	—		
—	—	— Selenium	—		

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input checked="" type="checkbox"/> P&T:GC/MS	—	— EDB	—	— Methoxychlor	—
<input checked="" type="checkbox"/> Acid:B/N Ext.	—	— PCB's	—	— Toxaphene	—
— TOX	—	— Petroleum	—	— 2,4-D	—
—	—	— Endrin	—	— 2,4,5-TP (silvex)	—
—	—	— Lindane	—		

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/1
— (MF) Coliform Colonies/100mls	— Gross Alpha	—
— (MPN) Coliform Colonies/100mls	— Gross Beta	—
—		
—		

Date Received 7-12-88 MW Date Reported 9-9-88
Date Extracted 7-14-88 JP Date Analyzed 7-20-88 BNA 7-29-88 MW
Reported By Jim P. Neal Lab Number 801719

#801719-801720

SAMPLE ANALYSES REQUEST

Site Number 01-01 Field Sample Number 004694
Name of Site Alamance Co. Landfill Site Location Swepsonville, NC
Collected By Myers ID# 56 Date Collected 7/12/88 Time 12:25

Type of Sample:

Environmental	Concentrate	Comments
<input checked="" type="checkbox"/> Groundwater (1)	<input type="checkbox"/> Solid (5)	<u>Sample #2</u>
<input type="checkbox"/> Surface Water (2)	<input type="checkbox"/> Liquid (6)	
<input type="checkbox"/> Soil (3)	<input type="checkbox"/> Sludge (7)	
<input type="checkbox"/> Other (4)	<input type="checkbox"/> Other (8)	

INORGANIC CHEMISTRY

Extractables		Total			
Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input type="checkbox"/> Arsenic		<input type="checkbox"/> Arsenic		<input type="checkbox"/> Silver	
<input type="checkbox"/> Barium		<input type="checkbox"/> Barium		<input type="checkbox"/> Sulfates	
<input type="checkbox"/> Cadmium		<input type="checkbox"/> Cadmium		<input type="checkbox"/> Zinc	
<input type="checkbox"/> Chromium		<input type="checkbox"/> Chloride		<input type="checkbox"/> Ph	
<input type="checkbox"/> Lead		<input type="checkbox"/> Chromium		<input type="checkbox"/> Conductivity	
<input type="checkbox"/> Mercury		<input type="checkbox"/> Copper		<input type="checkbox"/> TDS	
<input type="checkbox"/> Selenium		<input type="checkbox"/> Fluoride		<input type="checkbox"/> TOC	
<input type="checkbox"/> Silver		<input type="checkbox"/> Iron			
		<input type="checkbox"/> Lead			
		<input type="checkbox"/> Manganese			
		<input type="checkbox"/> Mercury			
		<input type="checkbox"/> Nitrate			
		<input type="checkbox"/> Selenium			

ORGANIC CHEMISTRY

Parameter	Results mg/1	Parameter	Results mg/1	Parameter	Results mg/1
<input checked="" type="checkbox"/> P&T:GC/MS		<input type="checkbox"/> EDB		<input type="checkbox"/> Methoxychlor	
<input checked="" type="checkbox"/> Acid:B/N Ext.		<input type="checkbox"/> PCB's		<input type="checkbox"/> Toxaphene	
<input type="checkbox"/> TOX		<input type="checkbox"/> Petroleum		<input type="checkbox"/> 2,4-D	
		<input type="checkbox"/> Endrin		<input type="checkbox"/> 2,4,5-TP (silvex)	
		<input type="checkbox"/> Lindane			

MICROBIOLOGY

RADIOCHEMISTRY

Parameter	Parameter	Results PCi/1
<input type="checkbox"/> (MF) Coliform Colonies/100mls	<input type="checkbox"/> Gross Alpha	
<input type="checkbox"/> (MPN) Coliform Colonies/100mls	<input type="checkbox"/> Gross Beta	

Date Received 7-12-88 MJ Date Reported _____
Date Extracted 7-26-88 BO NW JM Date Analyzed 7-27-88 BO PT 7-29-88 NW
Reported By _____ Lab Number 801720

Chain of Custody Record

Hazardous Waste Materials

Location of Sampling: Generator Transporter Treatment Facility
 Storage Facility Disposal Facility Landfill
 Other:

Company's Name Alamake Co. Landfill Telephone () _____

Address Sweepsonville, NC

Collector's Name Sharon A. Myers Telephone () 733-0692
 -signature

Date Sampled 7/12/88 Time Sampled 10:45-12:30

Type of Process Generating Waste _____

Field Information

Field Sample No. 004693 004694 _____

Chain of Possession:

Sharon A. Myers Hydrogeological Technician 7/12/88
 signature title inclusive dates

Michelle Witz Org Lab Techn 7/13/88
 signature title inclusive dates

 signature title inclusive dates

Results reported

 signature title date

Instructions: Complete all applicable information including signatures, and submit with analysis request forms.

STATE LABORATORY OF PUBLIC HEALTH
 DIVISION OF HEALTH SERVICES, N.C. DEPARTMENT OF HUMAN RESOURCES
 P.O. BOX 28047 - 306 N. WILMINGTON, ST., RALEIGH, N.C. 27611

ORGANIC CHEMICAL ANALYSIS

BASE/NEUTRAL AND ACID EXTRACTABLES	LAB NO	801719	801720				
	FIELD #	4693	4694				
COMPOUND	TYPE	(1)	(1)	()	()	()	()
	UNITS	μg/l	μg/l	μg/l μg/kg	μg/l μg/kg	μg/l μg/kg	μg/l μg/kg
N-nitrosodimethylamine	10/330	U	U				
bis(2-chloroethyl)ether							
2-chlorophenol							
phenol							
1,3-dichlorobenzene							
1,4-dichlorobenzene							
1,2-dichlorobenzene							
bis(2-chloroisopropyl)ether							
hexachloroethane							
N-nitroso-di-n-propylamine							
nitrobenzene							
isophorone							
2-nitrophenol							
2,4-dimethylphenol							
bis(2-chloroethoxy)methane							
2,4-dichlorophenol							
1,2,4-trichlorobenzene							
naphthalene							
hexachlorobutadiene							
4-chloro-m-cresol							
hexachlorocyclopentadiene							
2,4,6-trichlorophenol							
2-chloronaphthalene							
acenaphthylene							
dimethyl phthalate							
2,6-dinitrotoluene							
acenaphthene							
2,4-dinitrophenol	50/1650						
2,4-dinitrotoluene	10/330						
4-nitrophenol	50/1650						
fluorene	10/330						
4-chlorophenylphenylether							
diethyl phthalate							
4,6-dinitro-o-cresol	50/1650						
diphenylamine							
azobenzene							
4-bromophenylphenylether	10/330						
hexachlorobenzene	10/330						
pentachlorophenol	50/1650						
phenanthrene	10/330						
anthracene							
dibutyl phthalate							
fluoranthene							

MDL

H₂O/501L

- J - Estimated value.
 K - Actual value is known to be less than value given.
 L - Actual value is known to be greater than value given.
 U - Material was analyzed for but not detected. The number is the Minimum Detection Limit. MDL
 NA - Not analyzed.
 1/ - Tentative identification.
 2/ - On NRDC List of Priority Pollutants.

STATE LABORATORY OF PUBLIC HEALTH
 DIVISION OF HEALTH SERVICES, N.C. DEPARTMENT OF HUMAN RESOURCES
 P.O. BOX 28047 - 306 N. WILMINGTON, ST., RALEIGH, N.C. 27611

ORGANIC CHEMICAL ANALYSIS

BASE/NEUTRAL AND ACID EXTRACTABLES	LAB NO	801719	801720				
	FIELD #	4693	4694				
COMPOUND	TYPE	(1)	(1)	()	()	()	()
	UNITS	µg/l	µg/l	µg/l	µg/kg	µg/l	µg/kg
pyrene	10/330	U	U				
benzidine	50/1650						
butyl benzyl phthalate	10/330						
benz(a)anthracene	↓						
chrysene	↓						
3,3-dichlorobenzidine	50/1650						
bis(2-ethylhexyl)phthalate	10/330						
di-n-octyl phthalate	10/330						
benzo(b)fluoranthene	50/1650						
benzo(k)fluoranthene	↓						
benzo(a)pyrene	↓						
indeno(1,2,3-cd)pyrene	↓						
dibenzo(a,h)anthracene	↓						
benzo(g,h,i)perylene	↓						
aniline	50/1650	U	U				
benzoic acid	↓						
benzyl alcohol	↓						
4-chloroaniline	10/330						
dibenzofuran	↓						
2-methylnaphthalene	↓						
2-methylphenol	↓						
4-methylphenol	↓						
2-nitroaniline	50/1650						
3-nitroaniline	↓						
4-nitroaniline	↓						
2,4,5-trichlorophenol	↓						
HYDROCARBONS	+/-	⊖	⊕				

MDL

H₂O/SOIL

J - Estimated value.

K - Actual value is known to be less than value given.

L - Actual value is known to be greater than value given.

U - Material was analyzed for but not detected. The number is the Minimum Detection Limit. MDL

NA - Not analyzed.

1/ - Tentative identification.

2/ - On NRDC List of Priority Pollutants.

STATE LABORATORY OF PUBLIC HEALTH
 DIVISION OF HEALTH SERVICES, N.C. DEPARTMENT OF HUMAN RESOURCES
 P.O. BOX 28047 - 306 N. WILMINGTON, ST., RALEIGH, N.C. 27611

ORGANIC CHEMICAL ANALYSIS

PURGEABLE COMPOUNDS	LAB NO	801719	801720				
	FIELD #	004693	004694				
COMPOUND	TYPE	(1)	(1)	()	()	()	()
	UNITS	μg/l μg/kg	μg/l μg/kg	μg/l μg/kg	μg/l μg/kg	μg/l μg/kg	μg/l μg/kg
chloromethane	5	u	u				
bromomethane							
dichlorodifluoromethane							
vinyl chloride							
chloroethane							
methylene chloride							
trichlorofluoromethane							
ethene, 1,1-dichloro		✓					
ethane, 1,1-dichloro		25					
1,2-trans-dichloroethene		trace					
chloroform		u					
ethane, 1,2-dichloro		✓	✓				
ethane, 1,1,1-trichloro		35	trace				
carbontetrachloride		u	u				
bromodichloromethane							
propane, 1,2-dichloro							
1,3-trans-dichloropropene		✓	✓				
trichloroethylene		trace	trace				
chlorodibromomethane		u	u				
benzene							
ethane, 1,1,2-trichloro							
1,3-cis-dichloropropene							
2-chloroethyl vinyl ether							
bromoform							
ethane, 1,1,2,2-tetrachloro		✓					
ethene, tetrachloro		7					
toluene		u					
chlorobenzene							
ethylbenzene	✓	✓	✓				
acetone	5	u	u				
2-butanone							
carbondisulfide							
2-hexanone							
4-methyl-2-pentanone							
styrene							
vinyl acetate							
xylenes (total)	✓	✓	✓				

J - Estimated value.
 K - Actual value is known to be less than value given.
 L - Actual value is known to be greater than value given.
 U - Material was analyzed for but not detected. The number is the Minimum Detection Limit.
 NA - Not analyzed.
 1/ - Tentative identification.
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