

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



SW

INORGANIC CHEMICAL ANALYSES - PUBLIC WATER SYSTEM

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

02-01

Name of System: Alexander Co. Landfill (SW)

Type of System:  
 Community  
 Non-Community

Address: \_\_\_\_\_  
 ZIP: \_\_\_\_\_

Source of Water:  
 Ground  Both  
 Surface  Purchased

County: Alamance

Source of Sample:  
 Distribution Tap  House Tap  
 Well Tap

Report To: Gary Bono

Address: Sol Ind. Haz. Waste, PO Box 2091  
 Raleigh, N.C. ZIP: 27602

Type of Sample:  
 Raw  Treated

Telephone Number: (919) 783-2175

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

Collected By: Bob Apple

Date Collected: 3/21/83 Time: 1:30 PM

Location of Sampling Point: discharge point  
 (Address where sample was collected) below sediment basin 02-01

Type of Sample:  
 Regular  Private  
 Check  Special

Remarks: + EPA

WATER SYSTEM I.D. NUMBER (COPY FROM MAILING LABEL)

□ □ - □ □ - □ □ □ □

State Drinking Water Parameters (Required)				Optional Parameters (List as needed)			
	Results				Results		
Arsenic	<0.01	mg/l	2	<del>_____</del>	_____		
Barium	0.2	mg/l	2	<del>_____</del>	_____		
Cadmium	<0.005	mg/l	3	_____	480 $\mu$ mhos		
Chromium	<0.01	mg/l	2	_____	45		
Fluoride	<0.10	mg/l	2	_____	<0.05		
Lead	<0.03	mg/l	2	TDS	328		
Mercury	<0.0002	mg/l	4	SO <sub>4</sub>	32		
Nitrate (as N)	0.45	mg/l	2	_____	0.65		
Selenium	<0.005	mg/l	3	TOL	61		
Silver	<0.05	mg/l	2				
pH	6.8	units	1				
Iron	6.7	mg/l	2				
Manganese	2.83	mg/l	2				

Date Received \_\_\_\_\_ Date Reported 4/8/83 Reported By \_\_\_\_\_

Date Analyzed \_\_\_\_\_ Laboratory Number 07579 HAW-705

## INSTRUCTIONS

Using typewriter or ball point pen, fill in all requested information on the top portion of form front. Please print legibly if typewriter is not available.

Before taking the sample, remove the two "freeze packs" from the styrofoam mailer and place in a freezer overnight. (SAMPLES NOT PRESERVED BY ICING DURING SHIPMENT WILL NOT BE TESTED.)

### SAMPLE COLLECTION:

- 1) Remove the two 1-quart plastic containers and inflate by mouth, if uninflated.
- 2) Let the water (to be sampled) run for 5 minutes to assure that the water is from the distribution system.
- 3) Rinse each plastic container two or three times, and discard the water.
- 4) After rinsing, fill each container to within approximately one inch of top of the sampling container. Then cap the container securely. Check samples (see Types of Samples below), samples from non-community systems, and special samples may contain only one 1-quart sampling container, rather than two.

### SAMPLE SHIPMENT:

- 1) After collection of the sample(s), replace the two frozen "freeze packs" in the styrofoam mailer.
- 2) Next, place the two 1-quart samples into the mailer and cap.
- 3) After capping the styrofoam mailer, place the report form (UNFOLDED) on top, then seal the cardboard box. Mail immediately to the State Laboratory using the supplied label. The sender is required to pay shipping costs.

The analysis takes several days for completion, and the report will be mailed back as soon as possible. Please do not call the laboratory to request "early" results, unless absolutely necessary.

### LIMITS OF ALLOWABLE CONCENTRATIONS FOR DRINKING WATER ARE LISTED BELOW:

<u>Parameters</u>	<u>Limits (mg/l)</u>	<u>Methods (EPA 600/4-79-020)</u>
Arsenic	0.05	AA, furnace technique, pp. 206.2-1 - 206.2-2
Barium	1.0	AA, direct aspiration, pp. 208.1-1 - 208.1-2
Cadium	0.010	AA, furnace technique, pp. 213.2-1 - 213.2-2
Chromium	0.05	AA, furnace technlque, pp. 218.2-1 - 218.2-2
Fluoride (Temperature Dependent)	1.4-2.4	Ion Selective Electrode, pp. 340.2-1 - 340.2-3
Lead	0.05	AA, furnace technique, pp. 239.2-1 - 239.2-2
Mercury	0.002	Manual Cold Vapor technique, pp. 245.1-1 - 245.1-6
Nitrate (as N)	10.0	Colorimetric, Brucine, pp. 352.1-1 - 352.1-3
Selenium	0.01	AA, furnace technique, pp. 270.2-1 - 270.2-3
Silver	0.05	AA, direct aspiration, pp. 272.1-1 - 272.1-2
Iron	0.3	AA, direct aspiration, pp. 236.1-1 - 236.1-2
Manganese	0.05	<u>AA, direct aspiration, pp. 243.1-1 - 243.1-2</u>
pH	not less than 6.5 units	pH Electrometric, pp. 150.1-1 - 150.1-3

If sample concentrations are greater than the allowable concentrations, a check sample(s) will be required.

### TYPES OF SAMPLES

- Regular: A sample(s) submitted to meet the monitoring requirements of the North Carolina Drinking Water Act, GS 130 - Article 13D.
- Check: A sample(s) submitted when a previous sample has exceeded the allowable concentration. The check sample should be taken from the same sample distribution tap as the previous sample.
- Private: A sample(s) from a private water supply submitted by a licensed physician, sanitarian or other health department representative.
- Special: A sample(s) submitted by an engineer working with the State or the E.P.A., a sample taken by the owner/operator of a water system for a new well, a landfill test well sample or other non-categorized sample.