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Groundwater and Surface Water Monitoring Report

Old Avery County Landfill
Newland, North Carolina

ETPA Project No: 90-247

Prepared for:

County of Avery
PO Box 640
Newland, North Carolina 28657

October 31, 2001



Engineering Tectonics, P.A.
Environmental Geotechnical and Drilling Services
1720 Vargrave Street
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(336) 724-6994

Groundwater Monitoring Well and Stream Sampling

On, October 31, 2001, Engineering Tectonics, P.A. (ETPA) personnel mobilized to the old Avery County Landfill to sample three (3) groundwater monitoring wells (MW-1 through MW-3), and to collect two (2) stream samples (Stream 1 and Stream 2), as per North Carolina Department of Environment and Natural Resources (NCDENR) permit #06-02. Please refer to Figure 1 for a site location map. Stream sample 1 was collected upstream of MW-3 from a branch of Brushy Creek immediately bordering the site. Stream 2 was collected from Brushy Creek downstream of the landfill. See Figure 2 for a site map of the landfill with sample locations shown.

The depth to water was measured in each monitoring well, and each well was purged prior to sampling with a new disposable Teflon bailer. A minimum of three volumes of water was purged from each well, and water samples collected according to EPA sampling protocols. The samples were packed on ice, and sent to an analytical laboratory, using EPA approved chain of custody procedures. The samples were submitted for analysis using EPA method 8260, chloride, fluoride, nitrate, pH, TDS, sulfate, arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. A field measurement of pH was also taken. Standard Procedures for Groundwater Sampling are included in Appendix A.

Ground Water Static Levels

Static water levels were measured as 9.95, 5.92, and 6.40 feet for monitoring wells MW-1, MW-2, and MW-3, respectively (see Table 1). A groundwater contour map is included as Figure 3.

Laboratory Results

Field measurements and laboratory results for groundwater and stream samples are presented in Tables 2 and 3. Field measurements indicate that monitoring wells 1, 2 and 3 had pH readings of 5.9, 6.1 and 6.4, respectively. All three of these wells are out of the allowable range for pH of 6.5-8.5 set by NCDENR.

The levels of lead in wells 1 and 2 were reported to be 0.027 ppm and 0.073 ppm, respectively, which are both above the limit of 0.015 ppm set by NCDENR. Previously, (April 26, 2001), wells 1 and 2 contained lead in the concentrations of 0.014 ppm and 0.027 ppm, respectively. Both stream samples were within the limits set by NCDENR for pH and had no contaminants over the 2L limits for metals. All well and stream samples were ND (Not Detected) for USEPA Method 8260. A copy of the laboratory results is included in Appendix B.

Limitations and Certification

This report has been prepared for the exclusive use of **Avery County** for specific application to the subject site. The report was prepared in accordance with generally accepted standards of practice for environmental services in this region of the United States. No other warranty, either expressed or implied, is made. This report is not to be reproduced, either in whole or in part, without written consent from ENGINEERING TECTONICS, P.A.

Our on-site observations pertain only to specific locations, at specific times, on specific dates. Our observations and conclusions do not reflect variations in unverified and/or subsurface conditions that may exist at or between sampling and/or observation locations, or at times other than those represented by our observations.

In providing this report, ENGINEERING TECTONICS, P.A. does not assume any responsibilities of the party, or parties, deemed legally responsible for the subject site. It is not the responsibility of ENGINEERING TECTONICS, P.A. to report our findings to any other person or persons, including conditions that may present a potential danger to public health, safety, or the environment, as may be required by law.

Prepared by:



Kevin Puckett
Staff Geologist



Dan Bowser, P.G.
Environmental Services



TABLES

Table 1
Groundwater Elevations

Station	Total Depth	Elevation	Static	GW Elevation
MW-1	24'	76.98	9.95	67.03
MW-2	15'	79.29	5.92	73.37
MW-3	15'	100.00	6.40	93.60

Note:

Measurements are in feet and are taken from each well's top of PVC casing (TOC), with the exception of MW-2, measurements for this point were/are taken from the top of the metal outer casing of the well.

Survey conducted on 10/29/98.

MW-3 was used as a temporary bench mark with an elevation of 100.00 feet

Static measurements taken on 10/31/01.

Table 2
Old Avery County Landfill
Groundwater Monitoring Well Laboratory Results

October 31, 2001

Analysis	MW-1	MW-2	MW-3	2L Standard
Chloride	28	4.4	6.3	250
Fluoride	0.32	0.32	0.32	2.0
Nitrate	ND	0.67	ND	10.0
pH	5.9	6.1	6.4	6.5-8.5
TDS	130	98	Less Than 20	NA
Sulfate	3.3	4.6	ND	250
Arsenic	ND	0.010	0.011	0.05
Barium	0.65	0.065	0.080	2.0
Cadmium	0.003	0.001	0.001	0.005
Chromium	0.015	0.030	ND	0.05
Lead	0.027	0.073	0.006	0.015
Mercury	0.0006	ND	Less Than 0.0002	0.0011
Selenium	ND	ND	ND	0.05
Silver	ND	ND	ND	0.018

Results are presented in parts per million (ppm) unless otherwise specified.

Results presented in **BOLD** are in violation of 2L standards.

NA = Not Applicable.

ND = Not Detected at the report limit.

No VOCs detected

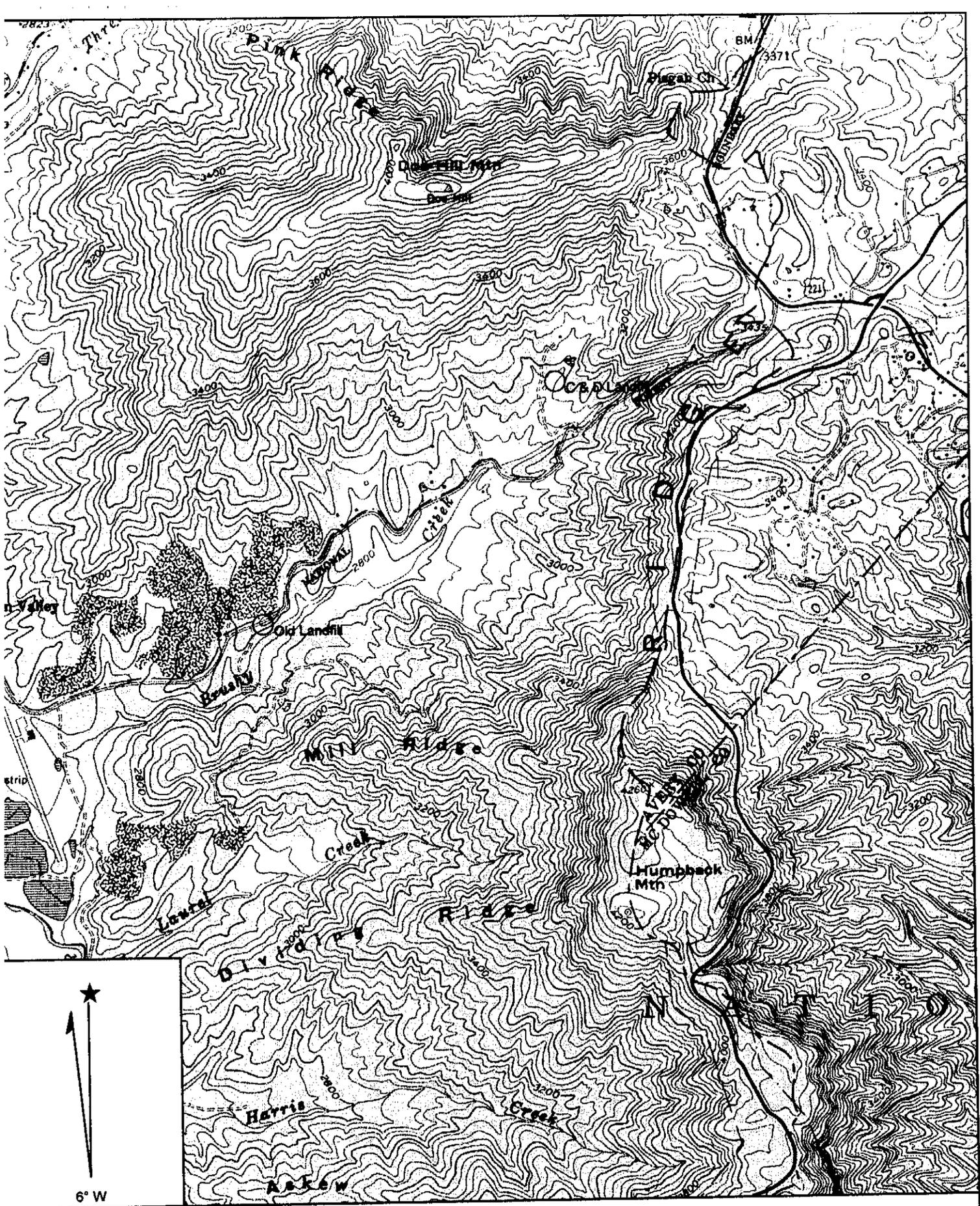
Table 3
Old Avery County Landfill
Stream Sampling Laboratory Results

October 31, 2001

Analysis	Stream 1	Stream 2	Surface Water Standards
Chloride	Less Than 1.0	1.8	230
Fluoride	0.29	0.11	1.8
Nitrate	3.1	0.82	10.0
pH	6.9	6.5	6.0-8.5
TDS	48	Less Than 20	NA
Sulfate	3.1	3.7	250
Arsenic	ND	ND	0.05
Barium	0.015	0.014	1.0
Cadmium	ND	ND	0.002
Chromium	ND	ND	0.05
Lead	ND	ND	0.025
Mercury	Less Than 0.0002	Less Than 0.0002	0.000012
Selenium	ND	ND	0.005
Silver	ND	ND	0.00006

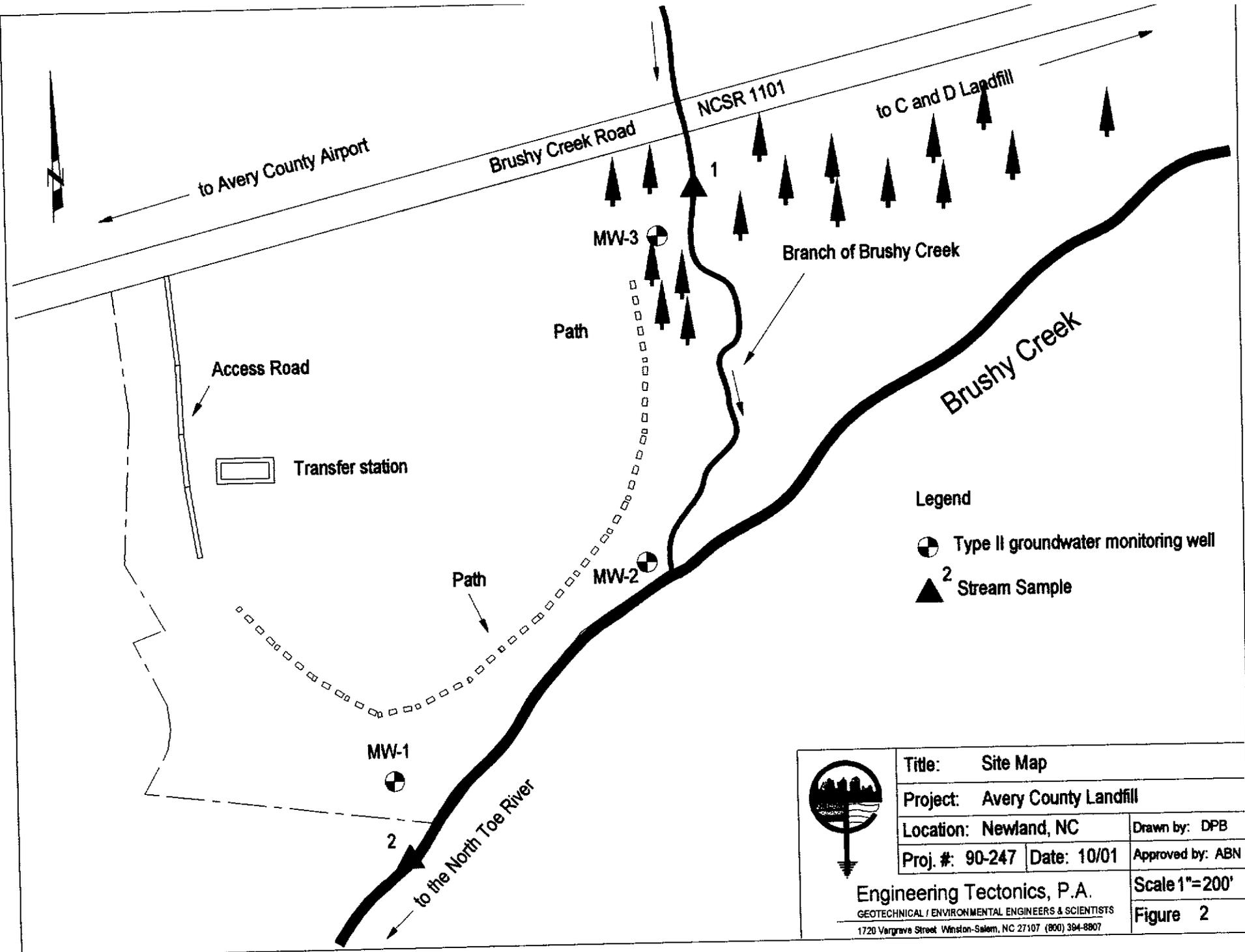
Results are presented in parts per million (ppm) unless otherwise specified.
 Results presented in **BOLD** are in violation of surface water standards.
 NA = Not Applicable.
 ND = Not Detected, Below Method Detection Limits.

FIGURES



Name: LINVILLE FALLS
 Date: 12/3/2001
 Scale: 1 inch equals 2000 feet

Location: 035° 57' 07.9" N 081° 58' 17.0" W
 Caption: FIGURE 1 SITE LOCATION MAP



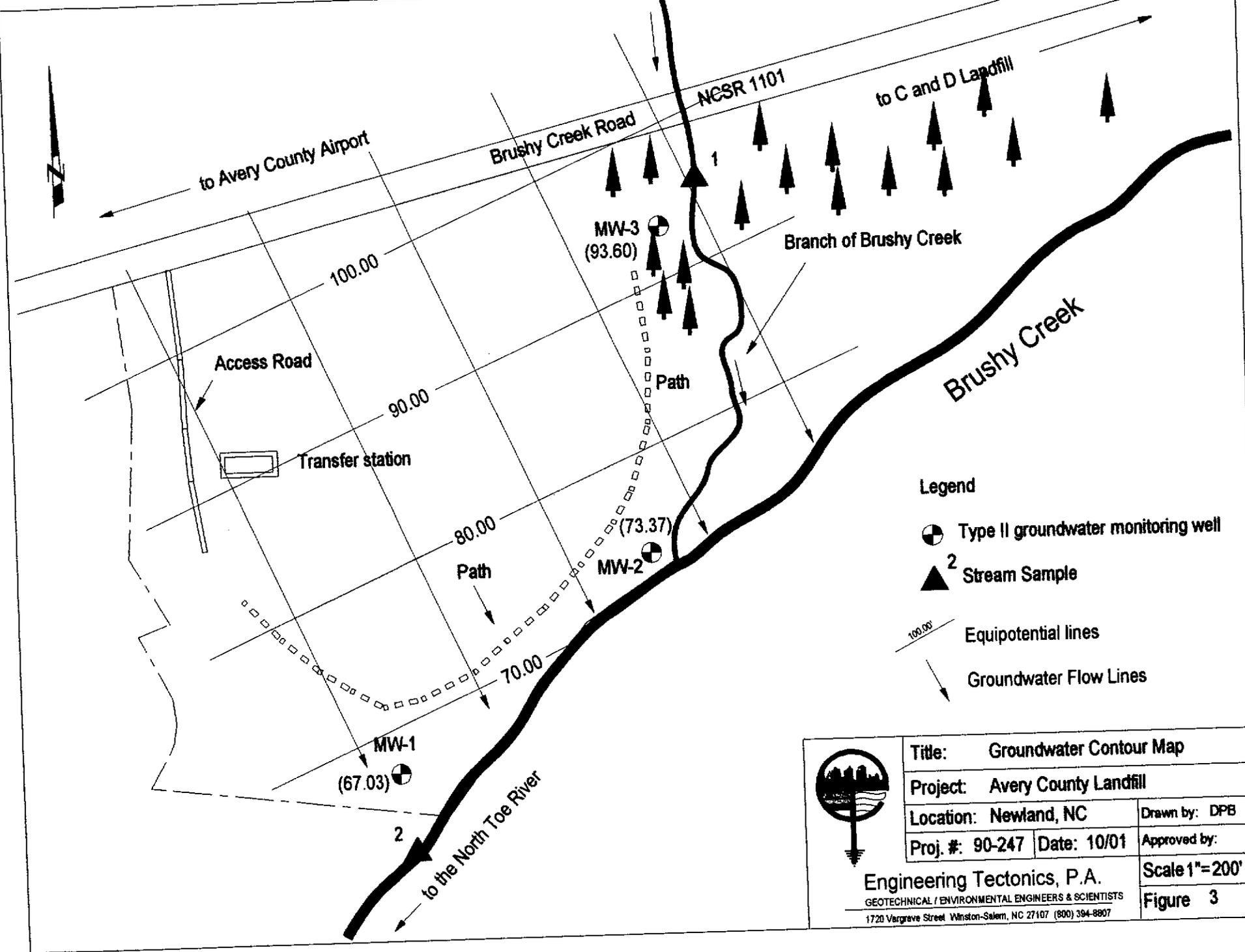
Legend

-  Type II groundwater monitoring well
-  Stream Sample



Title: Site Map	
Project: Avery County Landfill	
Location: Newland, NC	Drawn by: DPB
Proj. #: 90-247	Date: 10/01
Approved by: ABN	
Scale 1"=200'	
Figure 2	

Engineering Tectonics, P.A.
 GEOTECHNICAL / ENVIRONMENTAL ENGINEERS & SCIENTISTS
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Legend

-  Type II groundwater monitoring well
-  Stream Sample
-  Equipotential lines
-  Groundwater Flow Lines

	Title: Groundwater Contour Map	
	Project: Avery County Landfill	
	Location: Newland, NC	Drawn by: DPB
	Proj. #: 90-247	Date: 10/01
Engineering Tectonics, P.A. GEOTECHNICAL / ENVIRONMENTAL ENGINEERS & SCIENTISTS 1720 Vargrave Street, Winston-Salem, NC 27107 (800) 394-8807		Approved by:
		Scale 1"=200'
		Figure 3

APPENDIX A

ENGINEERING TECTONICS, PA

Standard Procedures SP-7

Field Procedures For Collection of Ground Water Samples



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Field Procedures for the Collection of Groundwater Samples

1.0 PURPOSE

To establish a standard procedure for collection of ground water samples.

2.0 SCOPE

The following procedure describes the logistics, collection techniques and documentation requirements for collecting ground water samples.

3.0 RESPONSIBILITY

Project Manager, Project Hydrogeologist, and Field Sampling Technicians.

4.0 SUPPORTING PROCEDURES

SP-3 Cleaning of Glassware and Equipment for Field Sampling Programs.

SP-2 Chain-of-Custody Procedures.

SP-4 Soil and Water Sample Preservation Procedures

SP-8 Filtering of Water for Dissolved Metals Analysis.

5.0 REQUIRED FORMS

Chain-of-Custody forms.

6.0 PROCEDURE

6.1 Selection of Sampling Locations

Groundwater sampling locations in and around a contaminated site are typically existing domestic, production, and groundwater monitoring wells. The location of new groundwater sampling points will be based upon the review of existing site geohydrological data, the results of preliminary site surveys, and the initial estimates of the extent of contamination. The groundwater sampling locations will be chosen by the project geologist/engineer. If

possible, one upgradient and three downgradient samples from the uppermost aquifer will be taken.

6.2 Equipment List

1. Latex gloves and any other personal safety equipment specified in the Site Health and Safety Plan.
2. Sample containers. Number and kind will depend on the analytical requirements.
3. Device to measure water levels in wells to within 0.01 feet. Typically a fiberglass tape with a "plopper" or chalk, or an electronic water level indicator, is used.
4. Field notebook.
5. Sample bottle labels.
6. A large volume bailer or pump to evacuate the wells.
7. Teflon or PVC bailer with polypropylene or stainless steel cable or a peristaltic pump with Teflon tubing, as appropriate.
8. 50-foot length of garden hose (needed only when sampling from domestic, production and other wells where the sample will be obtained from the existing well pump).

6.3 Sample Collection

Prior to the evacuation of groundwater from any well, the depth to water shall be measured to the nearest 0.01 feet. A fiberglass or steel tape marked with chalk or an electric water sensing device (e.g., Slope Indicator Water Mark) shall be used for this purpose. The device must be decontaminated to avoid contamination of the well. The depth to water is typically measured from a reference point established on the top of the inner well casing is recorded in the field notebook along with the length of casing stick-up above the ground surface. If both an inner and outer casing are present, the one used as the measurement reference point shall be identified and the vertical distance between the two measured and recorded as well as the stick-up of the outer casing. The depth of the well bottom shall be sounded and the depth recorded to ascertain the well's integrity and any siltation problems.

To introduce fresh formation water into the well, a minimum of three well volumes must be evacuated from the well prior to sampling. If a well is evacuated dry prior to removing four well volumes, the evacuation is considered complete and the well is allowed to recharge to at least 75% of its original volume prior to sampling. Field parameters (i.e., pH, specific conductance and temperature) may be measured periodically during well evacuation to aid in determining water stabilization. Evacuation is accomplished by bailing with a large volume (1.5 liter) bailer, or by pumping. Whichever method is used, it must be assured that any materials (hose, bailer, tubing, pumps, rope, etc.) entering the well be clean. If the same device is being used to evacuate a number of wells, the device must be cleaned with detergent, water, acetone and deionized water between each well to prevent cross-contamination.

The sampling procedure for groundwater is as follows:

Prior to collecting any water samples, place a waterproof sample label on each clean container with the following information:

- Project Number
- Project Name
- Sample No.
- Date
- Analysis Required
- Preservative:
- Collection Time
- Initials of Collector

Fill in the information with a waterproof ink pen. This will prevent difficulty in filling out labels on a wet jar after it is filled.

Collect the groundwater sample using a clean bailer. Latex gloves shall be worn during this procedure. The temperature, pH, and conductivity of the evacuated water should be determined immediately after sample collection. These measurements should not be taken from any sample bottles being sent to the analytical laboratory for chemical analysis.

The vials for volatile organic analysis should always be filled with the initial bailer of water. When filling the 40 ml septum vials, care should be exercised to eliminate the formation of air bubbles. Slightly over-fill the vial, and screw on the cap. Then turn the vial upside down and rap lightly to check for air bubbles. Air bubbles of any size should not rise to the bottom of the vial. (Tiny bubbles can introduce significant error.) If air bubbles are present, empty the vial and repeat the procedure with a fresh bailer of water.

Fill all the remaining containers directly from the bailer, unless the well is to be sampled in duplicate. If a duplicate water sample is required, the water should be composited in a large clean container, prior to filling the sample bottles. Samples requiring volatile organic analysis should not be composited, however, an attempt should be made to fill all the vials with the initial bailer of water.

Avoid overflow of the bottles or jars already containing preservative (pre-preserved). All samples should be gently mixed after collection and checked for proper preservation with indicator paper (i.e. pH paper).

If dissolved metals analysis are required, an extra bottle (no preservative) will be filled and the metals container (pre-preserved with nitric acid) will remain empty. After the water sample is field filtered through a 0.45 micron membrane filter, transfer the water into the pre-preserved metals container. This will constitute a sample for dissolved metals analysis. See Engineering Tectonics, PA Technical Standard No. 8, "Filtering of Water Samples for Dissolved Metals Analysis".

If samples have not been pre-preserved, preserve them as soon as possible after collection and preparation.

Place all sample containers into a shipping container, cool with ice packs and complete the Chain-of-Custody form.

Detail in the field notebook the following:

- sample identification number
- location of the sample (on the sketch map)
- time and date of sampling
- personnel performing task depth to water table, reference mark, casing(s) stick-up, and vertical distance between inner and outer casing
- Amount evacuated from well and device used for evacuation
- Visual or sensory description of the sample (color, odor, turbidity, etc.)
- Weather conditions both present and previous to sampling
- Other pertinent observations
- Sign the entry

Make sure the well is secured after sampling.

If sampling devices are to be dedicated to a particular sample location, they will be placed in a plastic bag after their use and marked or tagged:

DEDICATED TO PROJECT NO.

SAMPLE LOCATION NO.

The tags should also indicate that the dedicated equipment needs cleaning before next use. Alternatively, the sampling devices can be left hanging in the well.

Field investigations requiring more than one sampling event should include the use of a Master Sample Logbook and a Field Notebook. At the end of each day all samples shall be recorded in the Master Logbook. Calibration of field instruments and field chemistry measurements such as pH shall be recorded in the Field Notebook.

APPENDIX B

11/13/01

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ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery County
Customer Sample ID: MW-1
Prism Sample ID: AC24998
Login Group: AON8H8
Sample Collection Date/Time: 10/31/01 12:00
Lab Submittal Date/Time: 11/1/01 15:20

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
ARSENIC	Not detected	mg/L	0.010	6010B	11/7/01 16:54	MSC
BARIUM	0.65	mg/L	0.010	6010B	11/7/01 16:54	MSC
CADMIUM	0.003	mg/L	0.001	6010B	11/7/01 16:54	MSC
CHROMIUM	0.015	mg/L	0.005	6010B	11/7/01 16:54	MSC
LEAD	0.027	mg/L	0.005	6010B	11/7/01 16:54	MSC
SELENIUM	Not detected	mg/L	0.010	6010B	11/7/01 16:54	MSC
SILVER	Not detected	mg/L	0.005	6010B	11/7/01 16:54	MSC

MERCURY, TOTAL	0.0006	mg/L	0.0002	EPA 245.1	11/6/01 10:38	TAR
MERCURY DIGESTION	Completed			EPA 245.1	11/5/01 12:30	LC2
CHLORIDE	28	mg/L	1.0	EPA 300.0	11/1/01 21:33	TAR
FLUORIDE	0.32	mg/L	0.10	EPA 300.0	11/1/01 21:33	TAR
NITRATE	Less than	mg/L	0.10	EPA 300.0	11/1/01 21:33	TAR
SULFATE	3.3	mg/L	1.0	EPA 300.0	11/1/01 21:33	TAR
TOTAL DISSOLVED RESIDUE	130	mg/L	20	SM 2540C	11/2/01 21:00	RVE
METALS DIGEST-SURFACE/GROUNDW	Completed			SW846-3005	11/7/01 08:00	LC2
BENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
BROMOBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
BROMOCHLOROMETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
BROMODICHLOROMETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
BROMOFORM	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
BROMOMETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 17:09	MP
N-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
SEC-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
TERT-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
CHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
CHLORODIBROMOMETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
CHLOROETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 17:09	MP
CHLOROFORM	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
CHLOROMETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 17:09	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

11/13/01
ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery County
Customer Sample ID: MW-1
Prism Sample ID: AC24998
Login Group: AON8H8
Sample Collection Date/Time: 10/31/01 12:00
Lab Submittal Date/Time: 11/1/01 15:20

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
2-CHLOROTOLUENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
4-CHLOROTOLUENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/L	10	SW846-8260B	11/9/01 17:09	MP
1,2-DIBROMOETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
DIBROMOMETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
1,2-DICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
1,3-DICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
1,4-DICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
DICHLORODIFLUOROMETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 17:09	MP
1,1-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
1,2-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
1,1-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
CIS-1,2-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
TRANS-1,2-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
1,2-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
1,3-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
2,2-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
1,1-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
ETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
HEXACHLOROBUTADIENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
ISOPROPYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
P-ISOPROPYLTOLUENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
METHYLENE CHLORIDE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
NAPHTHALENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
N-PROPYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
STYRENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
TETRACHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
TOLUENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP

11/13/01

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Winston-Salem, NC 27107

Customer Project ID: Avery County
Customer Sample ID: MW-1
Prism Sample ID: AC24998
Login Group: AON8H8
Sample Collection Date/Time: 10/31/01 12:00
Lab Submittal Date/Time: 11/1/01 15:20

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1,2,3-TRICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
1,2,4-TRICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
1,1,1-TRICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
1,1,2-TRICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
TRICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
TRICHLOROFUOROMETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 17:09	MP
1,2,3-TRICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
1,2,4-TRIMETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
1,3,5-TRIMETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
VINYL CHLORIDE	Not detected	ug/L	10	SW846-8260B	11/9/01 17:09	MP
TOTAL XYLENES	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
cis-1,3-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
trans-1,3-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
ACETONE	Not detected	ug/L	50	SW846-8260B	11/9/01 17:09	MP
2-BUTANONE (MEK)	Not detected	ug/L	10	SW846-8260B	11/9/01 17:09	MP
CARBON DISULFIDE	Not detected	ug/L	50	SW846-8260B	11/9/01 17:09	MP
CARBON TETRACHLORIDE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
2-CHLOROETHYLVINYLETHER	Not detected	ug/L	10	SW846-8260B	11/9/01 17:09	MP
2-HEXANONE	Not detected	ug/L	10	SW846-8260B	11/9/01 17:09	MP
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/L	10	SW846-8260B	11/9/01 17:09	MP
MTBE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP
IPE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:09	MP

11/13/01
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Winston-Salem, NC 27107

Customer Project ID: Avery County
Customer Sample ID: MW-1
Prism Sample ID: AC24998
Login Group: AON8H8
Sample Collection Date/Time: 10/31/01 12:00
Lab Submittal Date/Time: 11/1/01 15:20

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
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Sample Comments:

Fluoride was not distilled, due to limited sample.



Angela D. Overcash, V.P. Laboratory Services

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ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery County
Customer Sample ID: MW-2
Prism Sample ID: AC24999
Login Group: AON8H8
Sample Collection Date/Time: 10/31/01 12:00
Lab Submittal Date/Time: 11/1/01 15:20

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
ARSENIC	0.010	mg/L	0.010	6010B	11/7/01 16:59	MSC
BARIUM	0.065	mg/L	0.010	6010B	11/7/01 16:59	MSC
CADMIUM	0.001	mg/L	0.001	6010B	11/7/01 16:59	MSC
CHROMIUM	0.030	mg/L	0.005	6010B	11/7/01 16:59	MSC
LEAD	0.073	mg/L	0.005	6010B	11/7/01 16:59	MSC
SELENIUM	Not detected	mg/L	0.010	6010B	11/7/01 16:59	MSC
SILVER	Not detected	mg/L	0.005	6010B	11/7/01 16:59	MSC

MERCURY, TOTAL	Less than	mg/L	0.0002	EPA 245.1	11/6/01 10:42	TAR
MERCURY DIGESTION	Completed			EPA 245.1	11/5/01 12:30	LC2
CHLORIDE	4.4	mg/L	1.0	EPA 300.0	11/1/01 21:52	TAR
FLUORIDE	0.32	mg/L	0.10	EPA 300.0	11/1/01 21:52	TAR
NITRATE	0.67	mg/L	0.10	EPA 300.0	11/1/01 21:52	TAR
SULFATE	4.6	mg/L	1.0	EPA 300.0	11/1/01 21:52	TAR
TOTAL DISSOLVED RESIDUE	98	mg/L	20	SM 2540C	11/2/01 20:00	RVE
METALS DIGEST-SURFACE/GROUNDW	Completed			SW846-3005	11/7/01 08:00	LC2
BENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
BROMOBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
BROMOCHLOROMETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
BROMODICHLOROMETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
BROMOFORM	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
BROMOMETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 17:49	MP
N-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
SEC-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
TERT-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
CHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
CHLORODIBROMOMETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
CHLOROETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 17:49	MP
CHLOROFORM	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
CHLOROMETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 17:49	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

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ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery County
Customer Sample ID: MW-2
Prism Sample ID: AC24999
Login Group: AON8H8
Sample Collection Date/Time: 10/31/01 12:00
Lab Submittal Date/Time: 11/1/01 15:20

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
2-CHLOROTOLUENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
4-CHLOROTOLUENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/L	10	SW846-8260B	11/9/01 17:49	MP
1,2-DIBROMOETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
DIBROMOMETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
1,2-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
1,3-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
1,4-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
DICHLORODIFLUOROMETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 17:49	MP
1,1-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
1,2-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
1,1-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
CIS-1,2-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
TRANS-1,2-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
1,2-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
1,3-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
2,2-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
1,1-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
ETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
HEXACHLOROBUTADIENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
ISOPROPYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
P-ISOPROPYLTOLUENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
METHYLENE CHLORIDE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
NAPHTHALENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
N-PROPYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
STYRENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
TETRACHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
TOLUENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

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ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery County
Customer Sample ID: MW-2
Prism Sample ID: AC24999
Login Group: AON8H8
Sample Collection Date/Time: 10/31/01 12:00
Lab Submittal Date/Time: 11/1/01 15:20

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1,2,3-TRICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
1,2,4-TRICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
1,1,1-TRICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
1,1,2-TRICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
TRICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
TRICHLOROFLUOROMETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 17:49	MP
1,2,3-TRICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
1,2,4-TRIMETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
1,3,5-TRIMETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
VINYL CHLORIDE	Not detected	ug/L	10	SW846-8260B	11/9/01 17:49	MP
TOTAL XYLENES	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
cis-1,3-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
trans-1,3-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
ACETONE	Not detected	ug/L	50	SW846-8260B	11/9/01 17:49	MP
2-BUTANONE (MEK)	Not detected	ug/L	10	SW846-8260B	11/9/01 17:49	MP
CARBON DISULFIDE	Not detected	ug/L	50	SW846-8260B	11/9/01 17:49	MP
CARBON TETRACHLORIDE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
2-CHLOROETHYL VINYLETHER	Not detected	ug/L	10	SW846-8260B	11/9/01 17:49	MP
2-HEXANONE	Not detected	ug/L	10	SW846-8260B	11/9/01 17:49	MP
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/L	10	SW846-8260B	11/9/01 17:49	MP
MTBE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP
IPE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 17:49	MP

11/13/01
ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery County
Customer Sample ID: MW-2
Prism Sample ID: AC24999
 Login Group: AON8H8
 Sample Collection Date/Time: 10/31/01 12:00
 Lab Submittal Date/Time: 11/1/01 15:20

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
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Sample Comments:

Fluoride was not distilled, due to limited sample.



Angela D. Overcash, V.P. Laboratory Services

11/13/01
ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery County
Customer Sample ID: MW-3
Prism Sample ID: AC25000
Login Group: AON8H8
Sample Collection Date/Time: 10/31/01 12:00
Lab Submittal Date/Time: 11/1/01 15:20

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
ARSENIC	0.011	mg/L	0.010	6010B	11/9/01 16:57	MSP
BARIUM	0.080	mg/L	0.010	6010B	11/9/01 16:57	MSP
CADMIUM	0.001	mg/L	0.001	6010B	11/9/01 16:57	MSP
CHROMIUM	Not detected	mg/L	0.005	6010B	11/9/01 16:57	MSP
LEAD	0.006	mg/L	0.005	6010B	11/9/01 16:57	MSP
SELENIUM	Not detected	mg/L	0.010	6010B	11/9/01 16:57	MSP
SILVER	Not detected	mg/L	0.005	6010B	11/9/01 16:57	MSP
MERCURY, TOTAL	Less than	mg/L	0.0002	EPA 245.1	11/6/01 10:46	TAR
MERCURY DIGESTION	Completed			EPA 245.1	11/5/01 12:30	LC2
CHLORIDE	6.3	mg/L	1.0	EPA 300.0	11/1/01 22:10	TAR
FLUORIDE	0.32	mg/L	0.10	EPA 300.0	11/1/01 22:10	TAR
NITRATE	Less than	mg/L	0.10	EPA 300.0	11/1/01 22:10	TAR
SULFATE	3.0	mg/L	1.0	EPA 300.0	11/1/01 22:10	TAR
TOTAL DISSOLVED RESIDUE	Less than	mg/L	20	SM 2540C	11/2/01 20:00	RVE
METALS DIGEST-SURFACE/GROUNDW	Completed			SW846-3005	11/7/01 16:00	LC2
BENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
BROMOBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
BROMOCHLOROMETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
BROMODICHLOROMETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
BROMOFORM	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
BROMOMETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 18:27	MP
N-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
SEC-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
TERT-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
CHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
CHLORODIBROMOMETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
CHLOROETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 18:27	MP
CHLOROFORM	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
CHLOROMETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 18:27	MP

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ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery County
Customer Sample ID: MW-3
Prism Sample ID: AC25000
Login Group: AON8H8
Sample Collection Date/Time: 10/31/01 12:00
Lab Submittal Date/Time: 11/1/01 15:20

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
2-CHLOROTOLUENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
4-CHLOROTOLUENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/L	10	SW846-8260B	11/9/01 18:27	MP
1,2-DIBROMOETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
DIBROMOMETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
1,2-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
1,3-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
1,4-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
DICHLORODIFLUOROMETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 18:27	MP
1,1-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
1,2-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
1,1-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
CIS-1,2-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
TRANS-1,2-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
1,2-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
1,3-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
2,2-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
1,1-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
ETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
HEXACHLOROBUTADIENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
ISOPROPYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
P-ISOPROPYLTOLUENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
METHYLENE CHLORIDE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
NAPHTHALENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
N-PROPYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
STYRENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
1,1,1,2,2-TETRACHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
TETRACHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
TOLUENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

11/13/01

ETPA

Kevin Puckett

1720 Vargrave Street

Winston-Salem, NC 27107

Customer Project ID: Avery County

Customer Sample ID: MW-3

Prism Sample ID: AC25000

Login Group: AON8H8

Sample Collection Date/Time: 10/31/01 12:00

Lab Submittal Date/Time: 11/1/01 15:20

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1,2,3-TRICHLOROENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
1,2,4-TRICHLOROENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
1,1,1-TRICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
1,1,2-TRICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
TRICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
TRICHLOROFLUOROMETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 18:27	MP
1,2,3-TRICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
1,2,4-TRIMETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
1,3,5-TRIMETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
VINYL CHLORIDE	Not detected	ug/L	10	SW846-8260B	11/9/01 18:27	MP
TOTAL XYLENES	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
cis-1,3-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
trans-1,3-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
ACETONE	Not detected	ug/L	50	SW846-8260B	11/9/01 18:27	MP
2-BUTANONE (MEK)	Not detected	ug/L	10	SW846-8260B	11/9/01 18:27	MP
CARBON DISULFIDE	Not detected	ug/L	50	SW846-8260B	11/9/01 18:27	MP
CARBON TETRACHLORIDE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
2-CHLOROETHYLVINYLETHER	Not detected	ug/L	10	SW846-8260B	11/9/01 18:27	MP
2-HEXANONE	Not detected	ug/L	10	SW846-8260B	11/9/01 18:27	MP
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/L	10	SW846-8260B	11/9/01 18:27	MP
MTBE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP
IPE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 18:27	MP

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ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery County
Customer Sample ID: MW-3
Prism Sample ID: AC25000
Login Group: AON8H8
Sample Collection Date/Time: 10/31/01 12:00
Lab Submittal Date/Time: 11/1/01 15:20

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
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Sample Comments:

Fluoride was not distilled, due to limited sample.



Angela D. Overcash, V.P. Laboratory Services

11/13/01

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ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery County
Customer Sample ID: STR-1
Prism Sample ID: AC25004
Login Group: AON8H8
Sample Collection Date/Time: 10/31/01 12:00
Lab Submittal Date/Time: 11/1/01 15:20

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
ARSENIC	Not detected	mg/L	0.010	6010B	11/7/01 16:39	MSC
BARIUM	0.015	mg/L	0.010	6010B	11/7/01 16:39	MSC
CADMIUM	Not detected	mg/L	0.001	6010B	11/7/01 16:39	MSC
CHROMIUM	Not detected	mg/L	0.005	6010B	11/7/01 16:39	MSC
LEAD	Not detected	mg/L	0.005	6010B	11/7/01 16:39	MSC
SELENIUM	Not detected	mg/L	0.010	6010B	11/7/01 16:39	MSC
SILVER	Not detected	mg/L	0.005	6010B	11/7/01 16:39	MSC

MERCURY, TOTAL	Less than	mg/L	0.0002	EPA 245.1	11/6/01 10:26	TAR
MERCURY DIGESTION	Completed			EPA 245.1	11/5/01 12:30	LC2
CHLORIDE	Less than	mg/L	1.0	EPA 300.0	11/1/01 23:25	TAR
FLUORIDE	0.29	mg/L	0.10	EPA 300.0	11/1/01 23:25	TAR
NITRATE	3.1	mg/L	0.10	EPA 300.0	11/1/01 23:25	TAR
SULFATE	3.1	mg/L	1.0	EPA 300.0	11/1/01 23:25	TAR
TOTAL DISSOLVED RESIDUE	48	mg/L	20	SM 2540C	11/2/01 21:00	RVE
METALS DIGEST-SURFACE/GROUNDW	Completed			SW846-3005	11/7/01 08:00	LC2
BENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
BROMOBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
BROMOCHLOROMETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
BROMODICHLOROMETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
BROMOFORM	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
BROMOMETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 21:03	MP
N-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
SEC-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
TERT-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
CHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
CHLORODIBROMOMETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
CHLOROETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 21:03	MP
CHLOROFORM	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
CHLOROMETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 21:03	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

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ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery County
Customer Sample ID: STR-1
Prism Sample ID: AC25004
Login Group: AON8H8
Sample Collection Date/Time: 10/31/01 12:00
Lab Submittal Date/Time: 11/1/01 15:20

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
2-CHLOROTOLUENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
4-CHLOROTOLUENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/L	10	SW846-8260B	11/9/01 21:03	MP
1,2-DIBROMOETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
DIBROMOMETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
1,2-DICHLOROENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
1,3-DICHLOROENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
1,4-DICHLOROENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
DICHLORODIFLUOROMETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 21:03	MP
1,1-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
1,2-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
1,1-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
CIS-1,2-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
TRANS-1,2-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
1,2-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
1,3-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
2,2-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
1,1-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
ETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
HEXACHLOROBUTADIENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
ISOPROPYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
P-ISOPROPYLTOLUENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
METHYLENE CHLORIDE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
NAPHTHALENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
N-PROPYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
STYRENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
TETRACHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
TOLUENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP

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ETPA
 Kevin Puckett
 1720 Vargrave Street
 Winston-Salem, NC 27107

Customer Project ID: Avery County
Customer Sample ID: STR-1
Prism Sample ID: AC25004
 Login Group: AON8H8
 Sample Collection Date/Time: 10/31/01 12:00
 Lab Submittal Date/Time: 11/1/01 15:20

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1,2,3-TRICHLOROENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
1,2,4-TRICHLOROENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
1,1,1-TRICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
1,1,2-TRICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
TRICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
TRICHLOROFLUOROMETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 21:03	MP
1,2,3-TRICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
1,2,4-TRIMETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
1,3,5-TRIMETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
VINYL CHLORIDE	Not detected	ug/L	10	SW846-8260B	11/9/01 21:03	MP
TOTAL XYLENES	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
cis-1,3-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
trans-1,3-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
ACETONE	Not detected	ug/L	50	SW846-8260B	11/9/01 21:03	MP
2-BUTANONE (MEK)	Not detected	ug/L	10	SW846-8260B	11/9/01 21:03	MP
CARBON DISULFIDE	Not detected	ug/L	50	SW846-8260B	11/9/01 21:03	MP
CARBON TETRACHLORIDE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
2-CHLOROETHYLVINYLETHER	Not detected	ug/L	10	SW846-8260B	11/9/01 21:03	MP
2-HEXANONE	Not detected	ug/L	10	SW846-8260B	11/9/01 21:03	MP
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/L	10	SW846-8260B	11/9/01 21:03	MP
MTBE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP
IPE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:03	MP

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ETPA

Kevin Puckett

1720 Vargrave Street

Winston-Salem, NC 27107

Customer Project ID: Avery County

Customer Sample ID: STR-1

Prism Sample ID: AC25004

Login Group: AON8H8

Sample Collection Date/Time: 10/31/01 12:00

Lab Submittal Date/Time: 11/1/01 15:20

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
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Sample Comments:

Fluoride was not distilled, due to limited sample.



Angela D. Overcash, V.P. Laboratory Services

11/13/01
ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery County
Customer Sample ID: STR-2
Prism Sample ID: AC25005
Login Group: AON8H8
Sample Collection Date/Time: 10/31/01 12:00
Lab Submittal Date/Time: 11/1/01 15:20

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
ARSENIC	Not detected	mg/L	0.010	6010B	11/9/01 16:42	MSP
BARIUM	0.014	mg/L	0.010	6010B	11/9/01 16:42	MSP
CADMIUM	Not detected	mg/L	0.001	6010B	11/9/01 16:42	MSP
CHROMIUM	Not detected	mg/L	0.005	6010B	11/9/01 16:42	MSP
LEAD	Not detected	mg/L	0.005	6010B	11/9/01 16:42	MSP
SELENIUM	Not detected	mg/L	0.010	6010B	11/9/01 16:42	MSP
SILVER	Not detected	mg/L	0.005	6010B	11/9/01 16:42	MSP
MERCURY, TOTAL	Less than	mg/L	0.0002	EPA 245.1	11/6/01 11:10	TAR
MERCURY DIGESTION	Completed			EPA 245.1	11/5/01 12:30	LC2
CHLORIDE	1.8	mg/L	1.0	EPA 300.0	11/1/01 23:43	TAR
FLUORIDE	0.11	mg/L	0.10	EPA 300.0	11/1/01 23:43	TAR
NITRATE	0.82	mg/L	0.10	EPA 300.0	11/1/01 23:43	TAR
SULFATE	3.7	mg/L	1.0	EPA 300.0	11/1/01 23:43	TAR
TOTAL DISSOLVED RESIDUE	Less than	mg/L	20	SM 2540C	11/2/01 21:00	RVE
METALS DIGEST-SURFACE/GROUNDW	Completed			SW846-3005	11/7/01 16:00	LC2
BENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
BROMOBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
BROMOCHLOROMETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
BROMODICHLOROMETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
BROMOFORM	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
BROMOMETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 21:42	MP
N-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
SEC-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
TERT-BUTYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
CHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
CHLORODIBROMOMETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
CHLOROETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 21:42	MP
CHLOROFORM	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
CHLOROMETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 21:42	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

11/13/01

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ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery County
Customer Sample ID: STR-2
Prism Sample ID: AC25005
Login Group: AON8H8
Sample Collection Date/Time: 10/31/01 12:00
Lab Submittal Date/Time: 11/1/01 15:20

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
2-CHLOROTOLUENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
4-CHLOROTOLUENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
1,2-DIBROMO-3-CHLOROPROPANE	Not detected	ug/L	10	SW846-8260B	11/9/01 21:42	MP
1,2-DIBROMOETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
DIBROMOMETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
1,2-DICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
1,3-DICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
1,4-DICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
DICHLORODIFLUOROMETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 21:42	MP
1,1-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
1,2-DICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
1,1-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
CIS-1,2-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
TRANS-1,2-DICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
1,2-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
1,3-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
2,2-DICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
1,1-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
ETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
HEXACHLOROBUTADIENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
ISOPROPYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
P-ISOPROPYLTOLUENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
METHYLENE CHLORIDE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
NAPHTHALENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
N-PROPYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
STYRENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
1,1,1,2-TETRACHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
1,1,2,2-TETRACHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
TETRACHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
TOLUENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP

NC Certification No. 402 - SC Certification No. 99012 - NC Drinking Water Cert. No. 37735 - FL Certification No. E87519

11/13/01
ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery County
Customer Sample ID: STR-2
Prism Sample ID: AC25005
Login Group: AON8H8
Sample Collection Date/Time: 10/31/01 12:00
Lab Submittal Date/Time: 11/1/01 15:20

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
1,2,3-TRICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
1,2,4-TRICHLOROBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
1,1,1-TRICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
1,1,2-TRICHLOROETHANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
TRICHLOROETHENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
TRICHLOROFLUOROMETHANE	Not detected	ug/L	10	SW846-8260B	11/9/01 21:42	MP
1,2,3-TRICHLOROPROPANE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
1,2,4-TRIMETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
1,3,5-TRIMETHYLBENZENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
VINYL CHLORIDE	Not detected	ug/L	10	SW846-8260B	11/9/01 21:42	MP
TOTAL XYLENES	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
cis-1,3-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
trans-1,3-DICHLOROPROPENE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
ACETONE	Not detected	ug/L	50	SW846-8260B	11/9/01 21:42	MP
2-BUTANONE (MEK)	Not detected	ug/L	10	SW846-8260B	11/9/01 21:42	MP
CARBON DISULFIDE	Not detected	ug/L	50	SW846-8260B	11/9/01 21:42	MP
CARBON TETRACHLORIDE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
2-CHLOROETHYLVINYLETHER	Not detected	ug/L	10	SW846-8260B	11/9/01 21:42	MP
2-HEXANONE	Not detected	ug/L	10	SW846-8260B	11/9/01 21:42	MP
4-METHYL-2-PENTANONE (MIBK)	Not detected	ug/L	10	SW846-8260B	11/9/01 21:42	MP
MTBE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP
IPE	Not detected	ug/L	5.0	SW846-8260B	11/9/01 21:42	MP

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ETPA
Kevin Puckett
1720 Vargrave Street
Winston-Salem, NC 27107

Customer Project ID: Avery County
Customer Sample ID: STR-2
Prism Sample ID: AC25005
Login Group: AON8H8
Sample Collection Date/Time: 10/31/01 12:00
Lab Submittal Date/Time: 11/1/01 15:20

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

TEST PARAMETER	TEST RESULT	UNITS	REPORTING LIMIT	METHOD REFERENCE	DATE/TIME STARTED	ANALYST
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Sample Comments:

Fluoride was not distilled, due to limited sample.



Angela D. Overcash, V.P. Laboratory Services