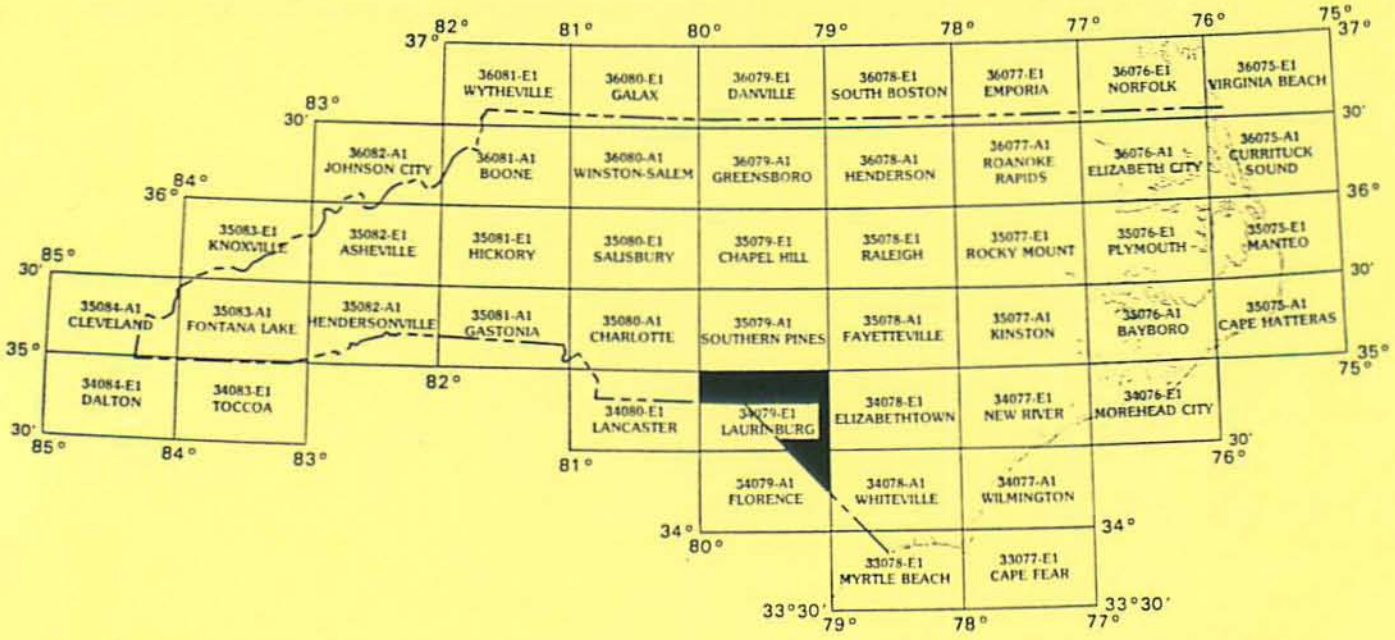
Listing of Concentrations of Variables of Stream Sediment, Stream Water, and Groundwater for the Laurinburg and Florence 30 x 60 - Minute Quadrangles -NURE Database

by
Robert H. Carpenter and Jeffrey C. Reid



NORTH CAROLINA GEOLOGICAL SURVEY
OPEN-FILE REPORT 93-19

State of North Carolina
James B. Hunt, Jr., Governor

Department of Environment, Health and Natural Resources
Jonathan B. Howes, Secretary
Division of Land Resources
Charles H. Gardner,
Director and State Geologist

July, 1993

GEOLOGICAL SURVEY SECTION

The Geological Survey Section examines, surveys and maps the geology, mineral resources, and topography of the State to encourage the wise conservation and use of these resources by industry, commerce, agriculture and government agencies for the general welfare of the citizens of North Carolina.

The Section conducts basic and applied research projects in environmental geology, mineral resources exploration and systematic geologic mapping. Services include identifying rock and mineral samples submitted by citizens and providing consulting services and specially prepared reports to agencies that need geological information.

The geological Survey section publishes Bulletins, Economic Papers, Information Circulars, Educational Series, Geologic Maps and Special Publications. For a list of publications or more information about the Section contact the Geological Survey Section, Division of Land Resources, at Post Office Box 27687, Raleigh, North Carolina 27611-7687.

Jeffrey C. Reid
Chief Geologist

Listing of Concentrations of Variables of Stream Sediment, Stream Water, and Groundwater for the Laurinburg and Florence 30 x 60 - Minute Quadrangles -NURE Database

by
Robert H. Carpenter and Jeffrey C. Reid

INTRODUCTION

This report is a compilation of geochemical data for stream sediment and groundwater for the Laurinburg and Florence 30 x 60 - minute quadrangles (Figure 1). Maps and tables were prepared from statewide data obtained by the Savannah River Laboratory under sponsorship of the U.S. Dept. of Energy in its National Uranium Resources Evaluation (NURE) program (Sargent and others, 1982). Sampling and analysis were performed during the period 1976 - 1980.

Because of the large size of the database, the North Carolina Geological Survey is presenting the database in both statewide and 30 x 60 - minute quadrangle formats. Statewide formats currently available include atlases of stream sediment and hydrogeochemical data which contain maps showing quartile distribution of concentrations of variables (Reid, 1991; Reid, 1993). Reid and Carpenter (1993a, 1993b) present listings of concentrations of variables which equal or exceed the 90th percentile (and pH and conductivity below the 10th percentile) for stream sediment and groundwater-stream water.

This open-file report is part of a series of reports that present sample-location maps and listings of analyses of all variables in all of the 30 x 60 - minute quadrangles that comprise the state of North Carolina. Subsequent reports will review the NURE data for individual 30 x 60 - minute quadrangles. These reviews will contain the following: 1) maps showing concentrations of all the variables in up to eight class intervals; 2) geologic review of the quadrangle and discussion of relationship of geochemical variables to rock units and structural features; 3) review of mineral resources and discussion of relationship of geochemical variables to mineral occurrences; and 4) discussion of outliers that may relate to anthropogenic contamination.

In this report, site-location maps use state boundaries, county boundaries and 7-1/2 - minute quadrangle boundaries as references to site-locations. The North Carolina Index to Topographic and Other Map Coverage, prepared by the U.S. Geological Survey, is a useful reference document. The List of Publications of the North Carolina Geological Survey indicates areas within the state for which some geologic and geophysical maps, and reports, are available.

Listings in this report are in the same basic format as those presented in microfiche by Sargent

and others (1982). Column 1 lists the laboratory numbers applied to each analyzed sample. Column 2 lists site identification codes. The first two characters are the codes for the county name. The next three digits are sample numbers. They are listed sequentially for each county in the order they were collected. The next two columns list the latitude and longitude of the sampling sites in decimal degree format. The remaining columns are data columns and analyses are given in parts per million (stream sediment) and parts per billion (groundwater). In these columns, a minus (-) sign indicates that a value is below the detection limit. If background is high, and an accurate estimate of minimum detection limit could not be made, a period (.) indicates that the element was not detected and that the detection limit is unusually high. Missing data are denoted by the letter "M". For gold, analyses are listed only for those samples in which gold was detected. For arsenic, a value of 0 is assigned for samples in which arsenic was analyzed, but not detected.

For stream sediment, two listings are presented. The first listing is for elements analyzed by neutron activation as well as field measurements for pH and conductivity of stream water. Variables included in this listing are pH, conductivity, uranium (U), thorium (Th), hafnium (Hf), cerium (Ce), iron (Fe), manganese (Mn), sodium (Na), scandium (Sc), titanium (Ti), vanadium (V), aluminum (Al), dysprosium (Dy), europium (Eu), lanthanum (La), samarium (Sm), ytterbium (Yb), and lutetium (Lu). The second listing is for supplemental elements analyzed by a variety of techniques. These include extractable uranium (Ux), silver (Ag), arsenic (As), barium (Ba), beryllium (Be), calcium (Ca), cobalt (Co), chromium (Cr), copper (Cu), potassium (K), lithium (Li), magnesium (Mg), molybdenum (Mo), niobium (Nb), nickel (Ni), phosphorous (P), lead (Pb), selenium (Se), tin (Sn), strontium (Sr), tungsten (W), yttrium (Y), and zinc (Zn). Stream sediment analyses are for the minus 100 mesh fraction (< 149 microns) unless otherwise noted.

Groundwater, normally samples of water from wells, was also analyzed by neutron activation. Field measurements were made of pH and conductivity. Variables included in listings of groundwater analyses include pH, conductivity, uranium (U), bromine (Br), chlorine (Cl), fluorine (F), magnesium (Mg), manganese (Mn), sodium (Na), vanadium (V), uranium/conductivity, aluminum (Al), and dysprosium (Dy). Stream water was also analyzed for these variables at 295 sites in North Carolina. Listings for stream water are included for areas in which these sites are located.

Although the data was acquired with considerable attention to quality control, some errors exist. These include uncertainties of sample locations due to the use of county road maps as base maps for field use and digitizing sampling sites. Malfunction of field equipment used in measurement of pH and conductivity has also been recognized in some areas. Some of the analyses are also in error. Some of these errors are apparent when concentrations show systematic "breaks" at county boundaries. This suggests that conditions of analysis for different batches of samples were not uniform. In general, analyses of stream sediment by neutron activation are more reliable than analyses of sediment by other supplemental methods.

For a number of counties, supplemental analyses were not made. Thus elements of interest for mineral exploration and environmental geochemistry are lacking for large areas.

REFERENCES

Reid, Jeffrey C., 1991 (revised 1993), A geochemical atlas of North Carolina: North Carolina Geological Survey, Bulletin 93, text plus 45 plates.

Reid, Jeffrey C., 1993, A hydrogeochemical atlas of North Carolina: North Carolina Geological Survey, Bulletin 94, text plus 26 plates.

Reid, Jeffrey C., and Carpenter, Robert H.,1993a, Listings of concentrations (stream sediments) of variables which equal or exceed the 90th percentile, and pH and conductivity below the 10th percentile in the North Carolina portion of the NURE database: North Carolina Geological Survey, Open-File Report 93-1, introductory text plus 178 pages of data.

Reid, Jeffrey C., and Carpenter, Robert H., 1993b, Listing of concentrations (groundwater and stream water) of variables which equal or exceed the 90th percentile, and pH and conductivity below the 10th percentile in the North Carolina portion of the NURE data base: North Carolina Geological Survey, Open-File Report 93-2, introductory text plus 162 pages of data.

Sargent, K.A., Cook, J.R., and Fay, W.M., 1982, Data report: North and South Carolina, National Uranium Resource Evaluation Program, Hydrochemical and stream sediment reconnaissance: E.I. du Pont de Nemours & Co., Savannah River Laboratory, Aiken, S.C., under contract to the U.S. Dept of Energy, contract DE-AC09-76SR000001 (DPST-81-146-22; GBJX-102), 45 p. plus microfiche.

CONTENTS

COUNTY CODES

Code	County
AN	Anson
CB	Columbus
HO	Hoke
RB	Robeson
RI	Richmond
SC	Scotland

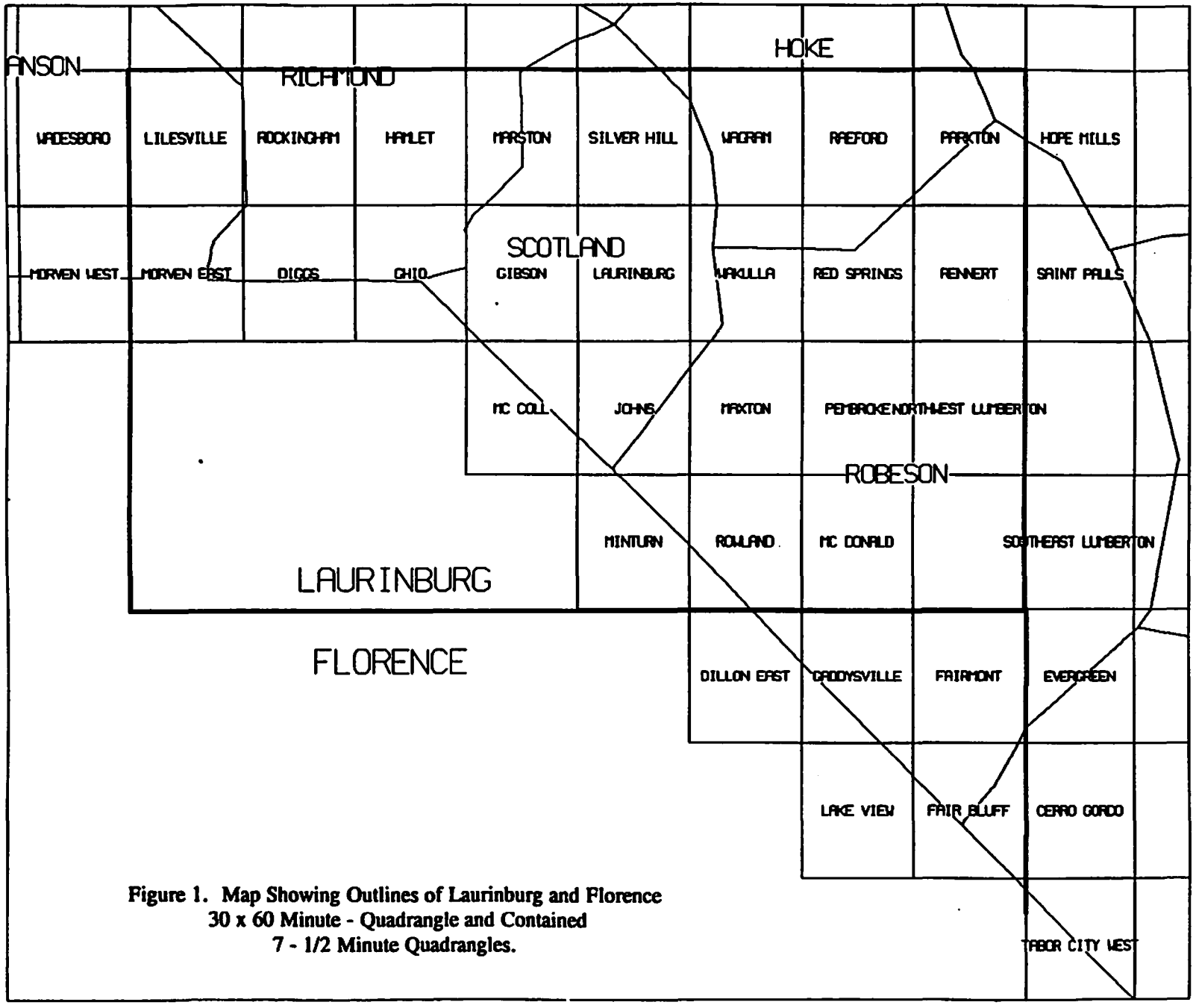


Figure 1. Map Showing Outlines of Laurinburg and Florence 30 x 60 Minute - Quadrangle and Contained 7 - 1/2 Minute Quadrangles.

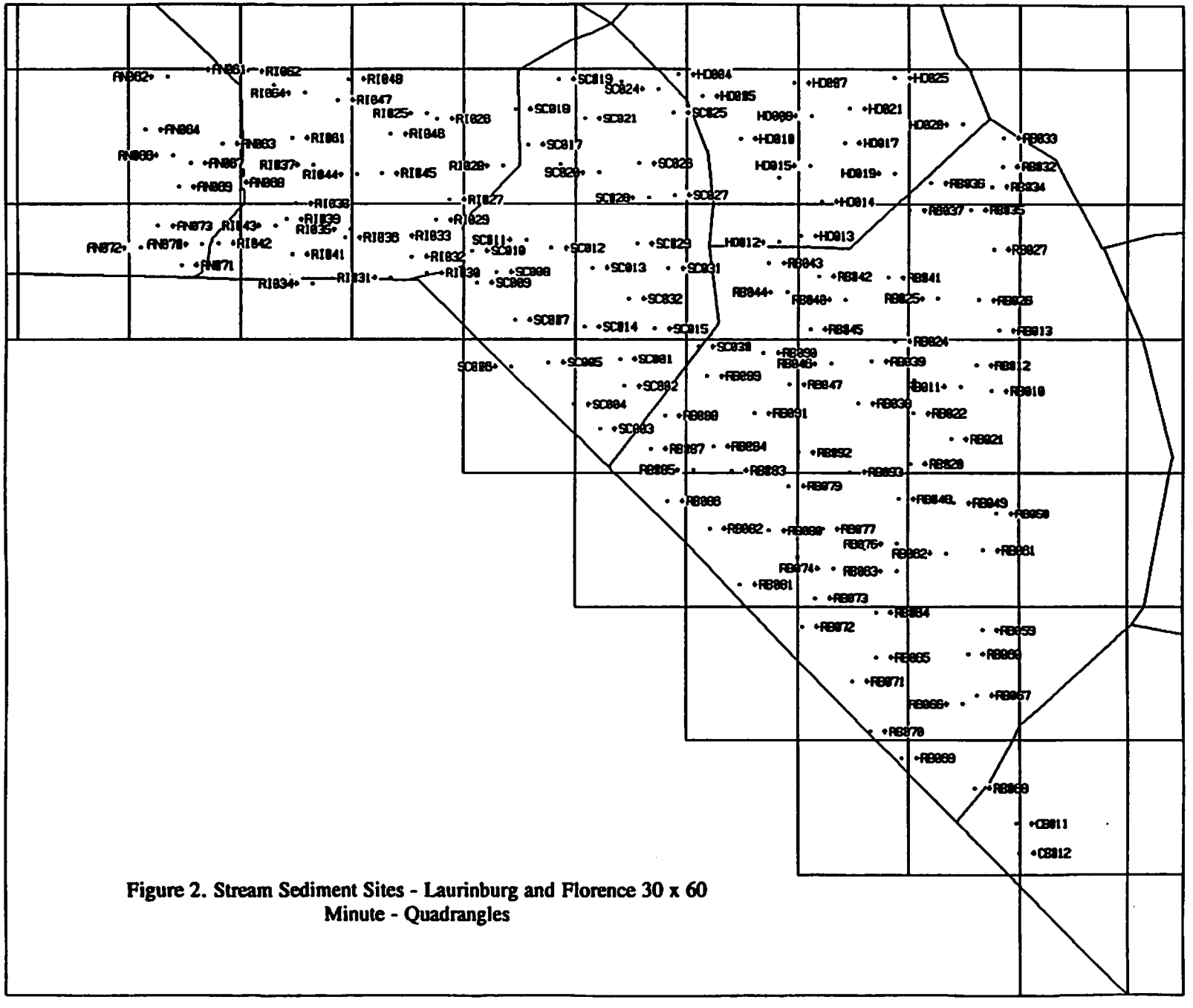


Figure 2. Stream Sediment Sites - Laurinburg and Florence 30 x 60 Minute - Quadrangles

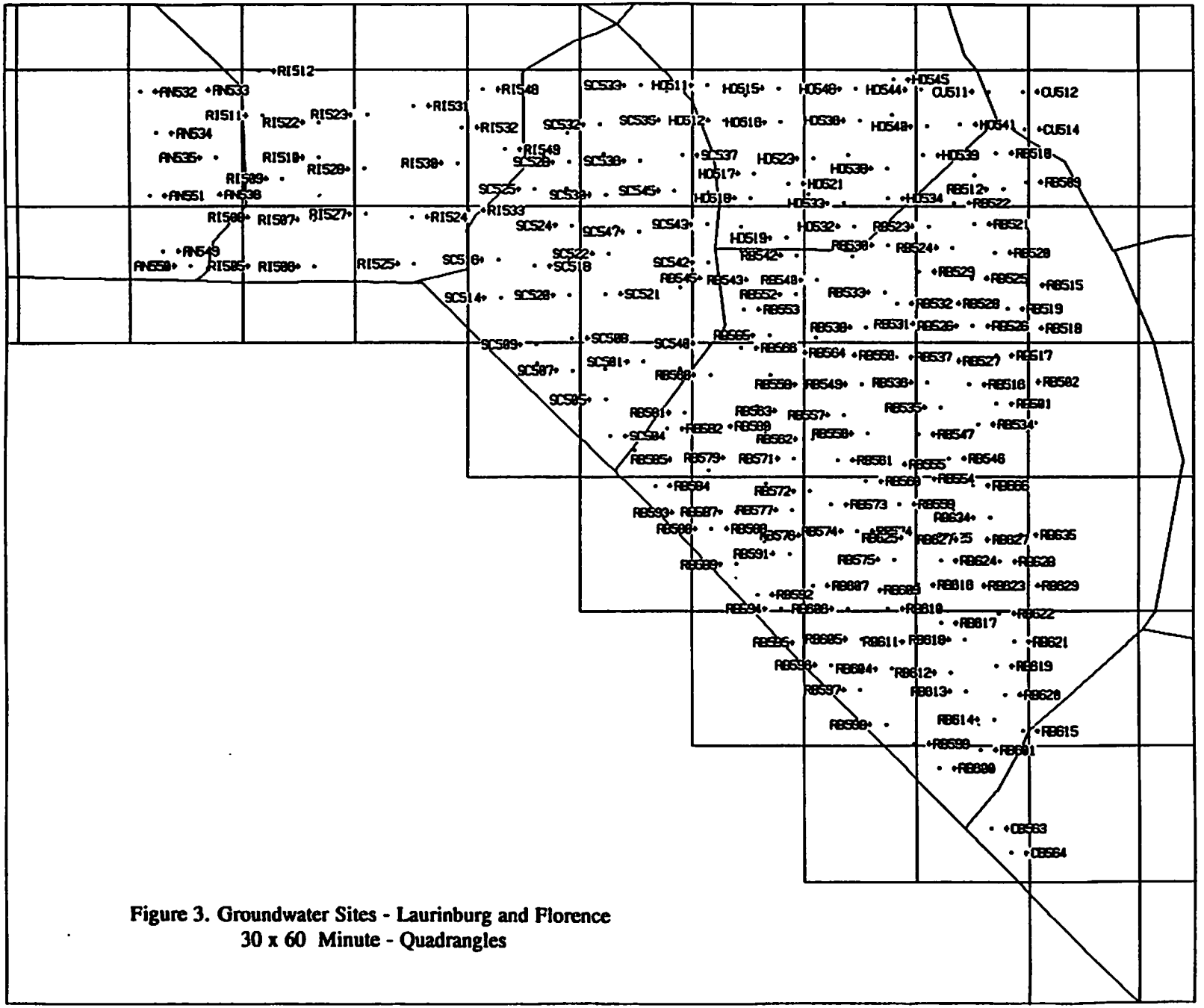


Figure 3. Groundwater Sites - Laurinburg and Florence
30 x 60 Minute - Quadrangles

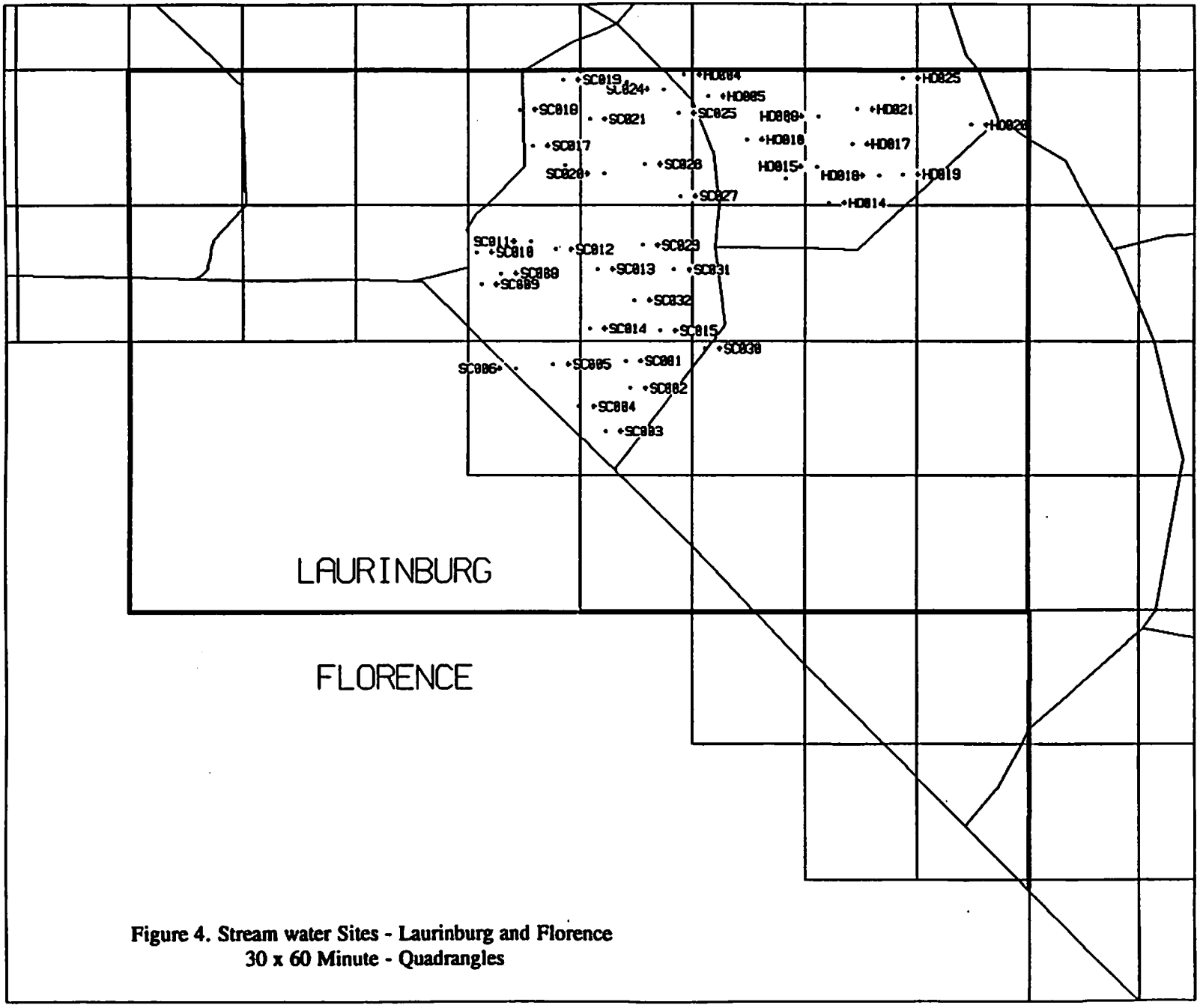


Figure 4. Stream water Sites - Laurinburg and Florence
30 x 60 Minute - Quadrangles

LAURINBURG 100K QUADRANGLE - STREAM SEDIMENT

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppm	Th ppm	Hf ppm	Al ppm	Ce ppm	Fe ppm	Mn ppm	Na ppm	Sc ppm	Ti ppm	V ppm	Dy ppm	Eu ppm	La ppm	Sm ppm	Yb ppm	Lu ppm	Au ppm
236	AN061	34.9999	79.9279	7.5	60	5.3	50	31	50500	244	32200	1200	14500	6.9	4700	50	9.6	1.1	M	M	M	1.0	
237	AN062	34.9929	79.9561	7.6	40	26.0	221	166	56900	889	26000	1280	12500	9.0	12500	90	35.0	0.7	M	M	M	3.3	
238	AN063	34.9305	79.8952	7.5	30	4.2	38	33	21500	146	19600	440	4900	5.6	9300	40	7.2	-1.0	M	M	M	1.0	
239	AN064	34.9435	79.9805	7.2	450	36.3	251	344	49600	1020	153900	4860	15100	26.5	55800	570	25.9	2.4	M	M	M	6.2	
241	AN066	34.9198	79.9512	7.6	25	4.1	23	19	25500	57	22000	450	3400	9.5	6200	60	9.9	0.4	M	M	M	-0.4	
242	AN067	34.9127	79.9315	7.5	30	16.3	132	95	13800	636	303000	2190	2900	67.4	49600	990	35.3	9.8	M	M	M	1.8	
243	AN068	34.8950	79.8853	7.4	50	5.4	24	35	37000	155	35600	1130	7200	13.8	15000	100	7.0	0.9	M	M	M	-0.4	
244	AN069	34.8909	79.9445	7.5	35	3.6	22	20	20500	114	27400	390	2600	8.4	6200	70	3.3	-1.0	M	M	M	0.5	
245	AN070	34.8376	79.9186	7.5	45	3.1	13	14	32200	92	26700	430	5400	10.8	3500	60	4.5	2.8	M	M	M	-0.4	
246	AN071	34.8185	79.9415	7.5	45	3.2	18	14	21400	73	14600	210	3600	8.1	4700	40	4.4	0.9	M	M	M	-0.2	
247	AN072	34.8345	79.9865	7.1	35	17.1	84	69	19100	393	15100	220	3700	7.5	9700	50	22.8	5.5	M	M	M	0.9	
248	AN073	34.8543	79.9673	7.1	50	20.8	204	89	17300	869	25200	350	3000	8.9	11700	50	33.7	5.3	M	M	M	2.1	
2791	HO004	34.9952	79.3839	5.2	23	50.6	333	M	4900	-26	6200	100	100	8.6	M	30	44.2	M	897	M	M	-0.2	
2792	HO005	34.9752	79.3574	4.9	32	12.9	57	57	10000	227	-5000	100	100	3.9	10100	40	23.6	1.0	123	42	9.0	1.3	
2794	HO007	34.9875	79.2550	M	M	5.1	16	33	17000	79	-5000	70	100	3.0	8100	40	7.8	M	32	12	3.4	0.5	
2795	HO008	34.9570	79.2353	6.4	70	11.6	55	80	11100	240	10500	70	100	3.2	6600	30	8.8	-1.3	123	5	8.5	1.3	
2796	HO009	34.9518	79.2691	5.8	29	24.4	130	144	3000	585	6000	100	100	3.8	9600	30	24.4	-1.0	309	46	16.8	2.5	
2797	HO010	34.9353	79.3142	6.8	117	7.8	42	46	4500	202	-5000	40	M	2.0	5900	10	7.1	M	95	14	5.3	0.8	
2798	HO011	34.8432	79.2948	M	M	5.4	22	28	14500	90	-5000	30	100	2.4	4200	20	4.9	-1.0	55	8	3.4	0.5	
2799	HO012	34.8398	79.2711	M	M	8.0	34	42	13600	149	5600	30	100	1.9	4100	20	6.7	-1.1	88	13	4.2	0.4	
2800	HO013	34.8454	79.2470	M	M	9.1	47	50	8200	224	6900	30	100	2.4	4400	20	9.2	-1.0	115	18	4.0	0.7	
2801	HO014	34.8773	79.2233	6.0	62	8.7	42	56	4600	177	-5000	30	100	3.2	4700	20	6.1	1.0	88	5	5.4	0.9	
2802	HO015	34.9107	79.2366	5.7	48	9.3	53	47	7600	204	6200	60	100	1.5	6000	20	9.0	-1.0	120	20	4.6	0.5	
2803	HO016	34.8995	79.2712	5.9	42	5.5	28	22	51900	100	15800	40	100	7.7	7600	60	2.0	-1.3	52	8	4.4	0.6	
2804	HO017	34.9315	79.1974	5.5	82	7.1	35	47	3300	167	-5000	20	100	2.2	4700	10	7.1	-1.3	82	13	5.3	0.7	
2805	HO018	34.9025	79.1674	6.2	56	8.5	39	52	7100	175	5900	90	100	2.9	7800	30	9.0	-1.2	96	14	3.7	0.7	
2806	HO019	34.9037	79.1407	6.3	79	5.6	23	39	12700	80	8500	40	100	2.5	5800	30	4.9	-1.0	44	6	3.3	0.4	
2807	HO020	34.9487	79.0651	6.0	32	40.1	198	223	3900	925	8800	190	100	5.3	13400	40	36.9	M	512	74	14.3	2.8	
2808	HO021	34.9637	79.1914	6.3	78	8.9	42	60	7100	164	7000	90	100	5.2	7900	30	9.7	-1.5	92	15	6.3	1.0	
2812	HO025	34.9923	79.1407	5.9	43	18.0	74	150	4900	306	8800	140	100	4.4	10200	30	14.5	-1.5	170	11	10.5	1.7	
4993	RB010	34.7023	79.0310	5.8	40	2.4	10	24	3800	30	-5000	50	100	1.1	3600	10	1.5	-1.0	44	8	M	M	
4994	RB011	34.7064	79.0660	5.2	47	4.2	25	32	10700	119	-5000	50	100	1.4	5400	20	4.4	-1.0	48	15	M	0.6	
4995	RB012	34.7261	79.0482	5.6	45	3.6	13	34	3900	62	-5000	50	100	0.9	4100	10	2.1	-1.0	33	9	M	0.3	
4996	RB013	34.7585	79.0230	4.6	70	3.0	11	16	9200	36	-5000	20	100	2.5	3400	20	M	-1.0	22	7	2.7	M	
5003	RB020	34.6337	79.1222	5.8	40	4.2	24	29	3000	98	-5000	40	100	1.0	3500	10	4.4	-1.0	52	10	3.6	0.4	
5004	RB021	34.6566	79.0762	5.9	63	4.4	26	36	4700	98	-5000	50	100	1.5	3600	30	4.3	-1.0	65	9	2.9	0.5	

LAURINBURG 100K QUADRANGLE - STREAM SEDIMENT

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppm	Th ppm	Hf ppm	Al ppm	Ce ppm	Fe ppm	Mn ppm	Na ppm	Sc ppm	Ti ppm	V ppm	Dy ppm	Eu ppm	La ppm	Sm ppm	Yb ppm	Lu ppm	Au ppm
5005	RB022	34.6814	79.1192	5.5	80	3.6	16	19	5200	73	-5000	30	100	1.3	4500	20	4.6	-1.0	36	11	M	0.5	
5006	RB023	34.7125	79.1183	5.6	40	4.7	20	34	4300	66	-5000	40	100	1.6	4600	20	3.6	-1.0	51	6	2.5	0.3	
5007	RB024	34.7488	79.1400	4.7	35	4.3	20	18	13300	89	-5000	70	200	3.3	3800	20	4.0	-1.0	35	11	M	0.4	
5008	RB025	34.7881	79.0917	4.3	30	8.1	42	45	6500	169	-5000	50	100	2.9	4000	M	7.1	-1.0	124	15	4.0	0.5	
5009	RB026	34.7863	79.0459	3.9	100	2.6	17	14	13500	32	-5000	20	100	3.1	4200	30	3.7	-1.0	21	4	M	M	
5010	RB027	34.8333	79.0295	5.1	38	5.8	39	41	3900	176	-5000	30	100	2.4	4900	20	6.0	-1.0	78	16	4.9	0.5	
5015	RB032	34.9099	79.0199	5.0	41	12.9	43	91	3200	178	-5000	60	100	2.8	8300	20	15.0	-1.3	101	22	12.1	1.2	
5016	RB033	34.9361	79.0186	4.6	108	5.7	18	31	35600	76	7600	30	100	8.0	6700	50	0.9	-1.0	41	8	2.4	0.5	
5017	RB034	34.8914	79.0320	5.9	58	26.6	128	165	2500	578	-5000	80	M	4.2	9600	30	18.5	-1.0	327	46	3.2	1.7	
5018	RB035	34.8697	79.0556	5.7	31	5.5	12	18	40200	103	9700	80	400	5.6	7500	50	4.0	6.6	41	8	M	0.5	
5019	RB036	34.8945	79.1005	5.9	38	5.4	23	26	10200	111	7600	30	100	1.6	4900	20	5.9	-1.0	59	10	4.0	0.4	
5020	RB037	34.8691	79.1241	5.6	35	21.0	90	133	4600	436	-5000	60	100	4.0	6700	20	12.7	M	222	37	7.6	0.9	
5021	RB038	34.6907	79.1810	5.7	50	9.4	38	49	5600	148	-5000	30	100	2.6	4300	20	6.2	-1.2	86	20	4.0	0.6	
5022	RB039	34.7299	79.1660	5.3	38	18.8	112	123	6700	485	-5000	60	100	4.4	10000	40	20.8	-1.3	249	44	13.2	2.1	
5023	RB040	34.7869	79.1967	5.5	40	8.9	36	56	3000	147	-5000	30	100	2.4	3900	10	5.6	-1.1	89	15	4.5	0.7	
5024	RB041	34.8073	79.1477	5.3	38	7.3	35	40	2400	149	-5000	40	100	1.3	4300	10	6.9	-1.0	87	17	5.9	0.8	
5025	RB042	34.8084	79.2266	4.9	40	7.9	29	52	3900	118	-5000	30	M	2.2	5400	20	6.8	-1.2	76	19	5.0	0.6	
5026	RB043	34.8207	79.2828	5.3	29	4.9	25	36	5400	87	-5000	40	100	3.0	4500	20	3.9	-1.0	60	14	M	0.4	
5027	RB044	34.7936	79.2624	5.3	35	7.2	29	41	3900	121	-5000	40	100	1.7	5300	20	7.6	-1.0	128	9	M	0.6	
5028	RB045	34.7598	79.2361	5.1	50	4.2	19	21	24400	48	10100	30	100	4.2	4900	50	4.2	M	33	11	M	0.2	
5029	RB046	34.7277	79.2127	5.2	62	5.9	26	33	13500	115	-5000	30	100	3.2	6400	30	6.3	0.8	103	9	M	0.4	
5030	RB047	34.7083	79.2597	5.3	100	11.1	49	54	14800	199	5900	70	200	5.1	7400	40	11.8	1.3	202	26	8.8	0.7	
5031	RB048	34.6008	79.1356	4.9	65	27.7	133	101	5900	564	6700	130	100	5.2	9900	40	26.2	-1.0	558	55	7.9	2.1	
5032	RB049	34.5971	79.0730	5.0	50	7.1	35	38	8900	114	-5000	50	100	2.8	6400	20	3.6	-1.0	102	8	M	M	
5033	RB050	34.5869	79.0251	5.9	50	12.3	53	62	4100	217	-5000	90	100	2.7	6100	20	11.7	-1.0	230	23	5.8	0.9	
5044	RB061	34.5522	79.0403	6.1	55	4.5	15	29	22900	71	10300	70	200	3.4	8000	50	5.2	0.6	77	7	3.5	0.3	
5045	RB062	34.5494	79.0818	6.5	60	3.5	16	43	4500	47	-5000	90	100	1.9	4800	10	2.8	-1.0	52	5	2.4	0.3	
5046	RB063	34.5331	79.1375	6.9	50	3.0	10	30	7800	39	5100	100	100	2.0	5100	20	3.3	-1.0	27	4	M	0.2	
5056	RB073	34.5079	79.2301	6.4	70	3.5	9	30	2800	45	8600	50	M	0.7	2700	10	2.1	-1.0	28	4	M	M	
5057	RB074	34.5357	79.2095	6.2	60	4.2	22	30	9600	65	9000	80	300	2.4	6000	10	0.3	-1.0	59	M	M	M	
5058	RB075	34.5543	79.1738	6.2	70	3.9	12	33	4600	53	6700	110	200	2.1	5900	M	2.7	-1.0	54	M	3.7	0.3	
5059	RB076	34.5583	79.1371	5.3	50	3.9	16	36	6400	78	6500	90	300	2.2	3200	20	M	1.1	53	M	M	0.4	
5060	RB077	34.5722	79.2215	5.0	45	M	36	44	31300	173	8900	60	400	5.3	10600	60	20.8	-1.0	116	14	5.2	1.0	
5061	RB078	34.5463	79.2499	6.2	60	5.5	20	36	5000	80	-5000	120	300	1.8	5000	10	3.7	-1.0	46	13	2.6	0.4	
5062	RB079	34.6130	79.2601	5.9	50	6.4	28	42	3400	130	-5000	40	100	1.2	4200	20	1.2	0.4	92	M	3.9	0.6	
5063	RB080	34.5706	79.2817	6.0	100	1.6	6	10	7400	16	8300	70	100	1.5	3400	10	2.3	-1.0	16	2	M	0.3	

LAURINBURG 100K QUADRANGLE - STREAM SEDIMENT

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppm	Th ppm	Hf ppm	Al ppm	Ce ppm	Fe ppm	Mn ppm	Na ppm	Sc ppm	Ti ppm	V ppm	Dy ppm	Eu ppm	La ppm	Sm ppm	Yb ppm	Lu ppm	Au ppm
5064	RB081	34.5207	79.3138	6.3	70	5.3	9	14	44000	66	22800	270	300	6.9	10200	70	0.2	1.2	29	3	4.2	0.5	
5065	RB082	34.5727	79.3479	5.2	40	5.5	35	30	6000	166	5800	30	M	1.5	6600	20	11.2	-1.0	82	16	M	0.8	
5066	RB083	34.6274	79.3233	6.0	80	6.0	30	40	2600	105	-5000	60	100	1.5	3000	10	5.9	-1.0	70	11	M	0.4	
5067	RB084	34.6499	79.3441	5.3	70	4.5	23	33	4400	77	7600	50	100	1.5	4800	20	4.7	-1.0	58	7	M	M	
5068	RB085	34.6280	79.3661	4.7	30	8.4	41	45	1800	169	-5000	50	M	1.9	3500	10	8.5	-1.0	123	16	3.1	0.6	
5069	RB086	34.5990	79.3955	5.8	70	9.1	51	61	4200	191	6500	80	100	1.4	5800	20	8.9	-1.0	179	19	4.1	0.7	
5070	RB087	34.6475	79.4145	5.9	65	3.0	8	15	12000	49	6500	160	200	1.8	5300	20	2.7	-1.0	23	4	1.5	0.3	
5071	RB088	34.6791	79.3988	4.8	80	5.6	26	27	9700	107	8600	40	100	3.5	5500	20	4.4	-1.0	79	8	M	0.3	
5072	RB089	34.7162	79.3510	5.5	110	8.0	29	37	8500	138	5500	40	100	3.5	4900	20	4.8	-1.0	97	9	M	0.6	
5073	RB090	34.7381	79.2883	5.4	45	6.6	10	46	M	40	-5000	M	M	1.2	1000	M	1.6	M	33	1	M	0.2	
5074	RB091	34.6814	79.2983	5.0	60	5.8	21	21	6300	79	-5000	60	100	2.6	6700	30	5.8	-1.0	143	9	M	0.5	
5075	RB092	34.6440	79.2492	5.1	60	14.5	66	62	5400	307	8900	100	100	3.4	9200	40	14.6	-1.0	210	27	6.5	1.3	
5076	RB093	34.6262	79.1907	6.0	80	17.1	94	64	8300	409	7700	90	200	4.9	7000	30	15.9	-1.0	215	34	7.5	1.3	0.035
5184	RI025	34.9591	79.6658	6.7	20	5.0	34	20	23500	149	12500	70	M	5.3	6400	40	8.8	1.5	67	11	5.3	0.9	
5185	RI026	34.9538	79.6545	6.4	15	5.4	33	22	2500	125	6400	80	400	4.0	6600	20	4.9	-1.0	66	8	3.0	-0.2	
5186	RI027	34.8787	79.6408	5.7	15	3.9	18	18	3300	82	-5000	40	200	2.8	4300	20	5.0	-1.0	52	12	3.0	0.7	
5187	RI028	34.9100	79.5803	5.7	10	2.6	13	13	1600	29	-5000	50	M	2.0	4600	10	2.7	-1.0	28	4	2.0	0.3	
5188	RI029	34.8600	79.6562	5.7	20	7.5	51	47	5400	234	5300	60	M	3.4	6100	20	7.7	3.5	99	25	4.7	1.2	
5189	RI030	34.8114	79.6663	5.2	22	3.4	17	22	7200	67	-5000	40	200	3.5	3700	20	3.5	-1.0	40	5	2.6	0.2	0.040
5190	RI031	34.8068	79.7061	5.5	25	2.1	13	10	17500	60	10300	30	100	5.9	3500	30	1.3	-1.0	30	5	1.6	0.2	
5191	RI032	34.8263	79.6828	5.5	20	2.6	6	13	3200	62	-5000	40	100	2.4	3600	10	3.2	-1.0	29	3	1.3	-0.2	
5192	RI033	34.8452	79.6993	5.3	20	11.7	85	81	5700	389	-5000	50	100	4.7	5000	20	10.3	-1.0	185	42	9.0	1.2	
5193	RI034	34.8016	79.7937	5.1	25	7.5	31	32	3900	124	-5000	70	100	2.5	7100	20	7.8	-1.4	95	15	1.8	0.5	
5194	RI035	34.8512	79.7513	5.7	20	13.1	91	62	2300	440	-5000	100	1300	4.5	8600	30	17.6	-1.6	207	50	13.5	1.7	
5195	RI036	34.8437	79.7575	5.7	20	16.3	97	50	3900	352	-5000	130	M	2.8	6900	30	14.5	-1.2	204	31	6.5	1.1	
5196	RI037	34.9112	79.7926	6.2	30	23.6	239	69	12900	1080	12600	290	M	8.1	10300	40	19.6	-1.0	543	122	19.7	2.2	
5197	RI038	34.8752	79.8126	5.4	30	1.4	3	8	10100	29	-5000	100	200	1.4	3600	10	1.3	-1.0	11	2	M	M	
5198	RI039	34.8608	79.8232	5.6	35	3.6	19	16	8800	80	-5000	150	500	3.4	6600	30	4.1	-1.7	42	8	M	0.6	
5199	RI040	34.8516	79.7752	5.2	25	21.3	107	85	2600	448	-5000	100	200	4.6	9800	30	21.0	5.3	258	32	13.4	1.2	
5200	RI041	34.8286	79.8166	5.3	25	5.1	35	26	3900	178	-5000	20	100	2.3	3700	10	4.6	M	81	18	2.2	0.4	
5201	RI042	34.8386	79.9000	6.1	50	10.3	62	56	40300	226	21100	670	2700	12.3	8400	70	17.3	7.2	144	21	8.7	1.5	
5202	RI043	34.8547	79.8357	5.9	40	7.2	42	25	47000	215	23000	100	500	7.9	4200	50	8.9	-1.0	93	21	8.4	0.9	
5203	RI044	34.9023	79.7438	5.8	25	47.2	247	162	15500	1119	17100	320	200	10.3	21000	100	74.0	M	601	98	25.3	4.4	
5204	RI045	34.9033	79.7160	6.0	30	20.8	155	56	4100	781	-7700	100	200	5.6	9100	30	29.0	-1.2	342	90	14.1	2.7	
5205	RI046	34.9396	79.7063	5.6	20	15.6	110	44	6000	375	5800	80	200	4.3	7100	30	21.6	-1.0	228	39	10.8	1.5	
5206	RI047	34.9718	79.7655	5.6	40	49.9	477	110	11300	2424	10900	150	1600	5.0	6500	30	47.9	6.1	954	269	29.4	3.1	

LAURINBURG 100K QUADRANGLE - STREAM SEDIMENT

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppm	Th ppm	Hf ppm	Al ppm	Ce ppm	Fe ppm	Mn ppm	Na ppm	Sc ppm	Ti ppm	V ppm	Dy ppm	Eu ppm	La ppm	Sm ppm	Yb ppm	Lu ppm	Au ppm
5207	RI048	34.9908	79.7530	6.1	45	17.0	111	55	8000	439	13500	240	1400	6.5	13000	40	23.1	3.1	232	48	11.2	0.6	
5220	RI061	34.9361	79.8166	6.6	70	8.7	34	32	97500	251	82400	M	M	13.4	M	M	M	3.7	60	14	7.4	1.1	
5221	RI062	34.9982	79.8671	6.9	45	12.1	117	65	6700	463	43800	70	1000	7.7	1000	10	4.9	2.0	285	39	11.6	2.5	
5222	RI063	34.9853	79.8374	6.8	40	5.4	39	14	8900	216	34200	270	1900	11.2	1400	20	2.1	1.8	82	20	4.9	1.7	
5223	RI064	34.9781	79.8025	M	M	6.8	48	17	24700	153	20200	70	200	4.4	6600	40	6.0	-1.0	87	12	3.6	0.5	
5498	SC001	34.7321	79.4495	5.5	190	7.5	38	57	18700	144	11500	60	100	2.4	8400	40	9.0	-1.0	73	13	4.5	0.8	
5499	SC002	34.7068	79.4440	5.3	248	7.2	29	53	5000	127	-5000	M	M	3.1	2900	10	0.9	-1.0	65	9	6.0	0.8	
5500	SC003	34.6667	79.4717	6.3	55	7.6	31	54	10500	120	-5000	M	M	3.1	3200	30	M	-1.0	72	9	3.7	0.6	
5501	SC004	34.6896	79.5015	5.4	111	8.0	36	49	5900	168	10000	60	100	2.5	6300	20	6.3	-1.4	84	13	4.4	0.5	
5502	SC005	34.7290	79.5297	5.5	122	10.3	63	61	5800	287	7500	M	M	2.8	23100	20	0.4	-1.0	139	25	5.8	1.2	
5503	SC006	34.7250	79.5710	5.2	59	6.2	25	42	6400	92	-5000	60	100	2.8	4700	20	4.5	-1.0	56	8	4.3	0.7	
5504	SC007	34.7683	79.5668	M	M	2.4	11	11	3700	44	6100	60	100	2.1	5300	20	1.9	-1.0	21	1	1.2	0.2	
5505	SC008	34.8125	79.5879	5.9	141	5.3	M	M	16100	M	M	40	M	M	5900	40	7.0	M	M	M	M	M	
5506	SC009	34.8022	79.6098	5.6	18	18.4	87	67	3400	378	8700	90	100	3.8	7000	20	18.0	-1.4	210	12	10.0	1.7	
5507	SC010	34.8318	79.6151	5.6	61	23.5	103	73	3300	482	5900	90	100	5.1	5900	20	19.3	2.8	241	22	13.3	2.1	
5508	SC011	34.8416	79.5548	5.1	27	18.5	100	90	8900	437	8500	M	M	4.7	7000	30	M	-1.0	233	37	11.2	1.6	
5509	SC012	34.8343	79.5269	6.1	62	15.2	62	56	2100	260	-5000	50	100	2.4	4300	10	11.8	-1.1	158	23	6.9	1.0	
5510	SC013	34.8163	79.4811	6.3	44	14.1	68	103	7000	311	-5000	40	100	2.6	6500	20	12.1	-1.9	170	12	7.6	1.1	
5511	SC014	34.7619	79.4897	6.3	62	10.2	47	55	10800	192	9000	M	M	4.6	9700	20	0.5	M	109	2	5.8	0.8	
5512	SC015	34.7601	79.4104	6.3	112	10.9	54	65	17500	238	8300	M	M	4.1	M	30	0.4	-1.3	125	15	7.1	1.5	
5513	SC016	34.9122	79.5169	4.7	12	18.0	99	96	2300	455	-5000	70	100	3.6	8000	20	14.7	3.1	234	30	12.1	1.6	
5514	SC017	34.9298	79.5528	5.0	15	13.2	68	50	8000	300	7600	60	100	3.6	5000	20	11.0	-1.7	148	22	6.0	1.0	
5515	SC018	34.9633	79.5666	5.2	10	33.6	151	131	2600	699	-5000	50	100	3.8	5400	20	25.3	M	400	55	12.2	1.7	
5516	SC019	34.9908	79.5188	5.5	11	31.0	144	86	7800	679	-5000	120	100	9.2	10500	50	27.7	-1.0	362	47	16.9	2.9	
5517	SC020	34.9041	79.4737	5.1	19	8.7	35	37	7500	152	-5000	M	M	3.7	4700	20	M	-1.0	86	12	5.0	0.9	
5518	SC021	34.9541	79.4899	4.7	9	20.2	95	55	28100	438	8400	70	100	6.2	8100	50	19.9	-1.0	217	32	11.5	2.2	
5519	SC022	34.9881	79.4485	4.9	10	29.7	155	156	2400	683	10400	120	100	3.4	10400	30	34.0	-1.9	366	59	17.2	2.3	
5521	SC024	34.9817	79.4067	4.9	11	26.8	131	107	1300	594	5000	80	100	4.2	6900	20	21.9	3.5	306	46	15.0	2.1	
5522	SC025	34.9598	79.3901	4.9	10	27.4	168	135	1700	745	6400	M	M	3.2	5900	20	1.8	-1.7	400	31	15.7	2.3	
5523	SC026	34.9126	79.4280	6.1	26	6.9	28	38	1900	114	-5000	M	M	1.6	M	20	0.3	-1.0	62	10	4.1	0.8	
5524	SC027	34.8835	79.3885	5.7	28	42.6	182	216	3300	859	5600	80	M	4.4	9200	30	26.5	M	460	29	10.7	2.1	
5525	SC028	34.8807	79.4176	M	M	M	53	70	6500	230	-5000	M	M	1.5	M	M	0.6	-1.3	121	19	5.4	1.2	
5526	SC029	34.8382	79.4305	6.1	44	10.9	49	65	3100	215	5100	50	100	2.0	5600	20	9.9	-1.6	111	20	5.8	0.8	
5527	SC030	34.7438	79.3612	6.5	250	55.4	311	307	7600	1340	-5000	110	500	5.4	12300	40	43.6	3.8	751	104	20.6	3.9	
5528	SC031	34.8159	79.3952	6.4	58	8.0	32	51	3200	138	-5000	40	100	4.1	4700	10	7.9	1.9	78	11	4.5	0.8	
5529	SC032	34.7876	79.4395	5.9	81	10.0	42	75	15300	174	14500	50	100	2.3	6500	40	6.9	-1.7	99	15	4.4	0.9	

FLORENCE 100K QUADRANGLE - STREAM SEDIMENT

Lab #	County ID	Lat	Long	pH	Cond	U	Th	Hf	Al	Ce	Fe	Mn	Na	Sc	Ti	V	Dy	Eu	La	Sm	Yb	Lu
					um/cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
895	CB011	34.2977	79.0036	5.8	65	7.0	27	90	6600	87	9000	180	100	1.2	12300	40	4.7	-1.0	46	9	5.0	0.8
896	CB012	34.2703	79.0012	6.2	60	5.7	28	75	5600	125	13200	500	300	2.5	13300	30	6.4	-1.0	61	12	3.4	0.6
5042	RB059	34.4779	79.0417	4.6	55	1.9	6	17	3500	52	-5000	40	100	1.4	4100	10	1.1	M	14	2	M	0.2
5043	RB060	34.4557	79.0574	4.7	40	6.9	32	104	6500	97	8500	670	200	1.2	10400	30	5.4	M	86	9	M	0.6
5047	RB064	34.4945	79.1609	6.2	55	4.9	24	47	3400	99	9200	120	100	1.8	5400	10	5.1	-1.0	51	7	3.6	0.6
5048	RB065	34.4528	79.1604	6.3	50	3.1	11	15	15700	40	5100	130	200	3.5	7500	30	3.2	M	18	4	6.4	0.2
5049	RB066	34.4091	79.0637	5.4	35	3.7	21	42	9000	81	7000	70	200	1.5	4500	20	3.0	M	29	1	M	0.3
5050	RB067	34.4174	79.0475	5.2	35	3.8	15	42	9000	76	-5000	90	300	1.0	7800	30	5.0	-1.0	55	5	M	0.9
5051	RB068	34.3307	79.0509	5.8	35	46.4	251	270	5200	1152	10600	220	100	6.9	14800	50	39.9	2.3	705	20	17.8	2.9
5052	RB069	34.3583	79.1324	6.1	50	3.9	12	34	5700	36	-5000	100	100	1.4	6400	20	3.8	-1.0	28	5	M	0.4
5053	RB070	34.3835	79.1674	5.7	35	5.6	23	47	4900	135	7500	120	200	1.7	6000	20	5.4	-1.1	129	11	M	0.3
5054	RB071	34.4303	79.1877	5.2	40	5.3	17	34	6000	59	7100	20	100	1.5	4600	10	4.2	0.7	31	5	M	0.4
5055	RB072	34.4813	79.2451	5.6	30	3.7	16	32	4800	88	-5000	70	100	2.5	4400	10	2.6	-1.0	75	5	M	0.4

LAURINBURG 100K QUADRANGLE - SUPPLEMENTAL STREAM SEDIMENT

Lab #	County ID	Lat	Long	Ux ppm	Ag ppm	As ppm	Ba ppm	Be ppm	Ca ppm	Co ppm	Cr ppm	Cu ppm	K ppm	Li ppm	Mg ppm	Mo ppm	Nb ppm	Ni ppm	P ppm	Pb ppm	Se ppm	Sn ppm	Sr ppm	W ppm	Y ppm	Zn ppm
236	AN061	34.9999	79.9279	1.2	0.2		120	1.0	200	5	14	6	15000	8	550	-2	-5	7	1000	25	-1	-5	.	-2	5	17
237	AN062	34.9929	79.9561	1.2	0.3		182	1.5	100	-5	5	6	13000	6	300	-2	45	-5	1200	-10	-1	-5	.	-2	265	20
238	AN063	34.9305	79.8952	1.2	0.2		27	1.0	100	-5	9	5	7000	10	650	-2	5	5	800	10	-1	5	.	-2	20	17
239	AN064	34.9435	79.9805	2.5	0.2	1	62	1.5	100	5	35	6	11000	9	3250	3	15	7	1500	17	-1	-5	.	-2	360	37
241	AN066	34.9198	79.9512	1.4	0.3	2	85	1.5	600	12	17	13	10000	13	2300	2	30	10	1000	12	-1	-5	.	-2	100	30
242	AN067	34.9127	79.9315	1.6	0.2		-5	1.0	100	10	8	8	3000	11	1850	-2	15	10	700	10	-1	-5	.	-2	25	32
243	AN068	34.8950	79.8853	1.2	0.2	0	7	0.5	-100	7	42	6	1000	8	1300	-2	-5	5	1200	12	-1	-5	.	-2	165	15
244	AN069	34.8909	79.9445	1.1	0.4		47	1.0	200	10	10	10	7000	12	2000	-2	50	7	800	-10	-1	-5	.	-2	90	30
245	AN070	34.8376	79.9186	1.1	0.1	0	12	0.5	100	7	5	7	2000	12	2100	4	90	5	1000	-10	-1	-5	.	-2	65	25
246	AN071	34.8185	79.9415	1.2	0.4	0	5	1.0	200	12	18	11	5000	13	2300	2	75	10	700	-10	-1	-5	.	-2	45	30
247	AN072	34.8345	79.9865	1.2	0.2	5	-5	0.5	-100	10	5	9	2000	10	1000	2	100	-5	700	10	-1	-5	.	-2	30	17
248	AN073	34.8543	79.9673	2.7	0.2	2	5	1.0	100	5	7	8	1000	10	1350	3	-5	-5	1100	10	-1	-5	.	-2	150	20
1902	HO004	34.9952	79.3839	0.3	-0.1	0	12	-0.5	-100	-5	5	3	1000	-5	950	-2	20	-5	1200	-10	2	-5	.	-2	445	5
1903	HO005	34.9752	79.3574	0.1	-0.1	0	20	-0.5	-100	5	-5	3	1000	5	300	-2	20	-5	900	15	-1	-5	.	-2	60	5
1905	HO007	34.9875	79.2550	0.1	-0.1	5	15	-0.5	100	-5	-5	4	-1000	8	500	3	-5	-5	800	15	-1	-5	.	-2	10	8
1906	HO008	34.9570	79.2353	0.1	-0.1	4	5	-0.5	100	-5	-5	3	-1000	7	650	-2	10	-5	700	10	-1	-5	.	-2	5	12
1907	HO009	34.9518	79.2691	0.1	-0.1	1	22	0.5	100	-5	5	4	-1000	7	1000	3	15	-5	800	-10	-1	-5	.	-2	35	5
1908	HO010	34.9353	79.3142	0.4	-0.1	1	12	-0.5	100	-5	-5	3	-1000	5	700	-2	10	-5	700	-10	5	-5	.	-2	25	-5
1909	HO011	34.8432	79.2948	0.1	0.1	2	12	5.0	-100	-5	-5	6	-1000	8	550	-2	10	-5	900	15	6	-5	.	-2	5	7
1910	HO012	34.8398	79.2711	0.2	-0.1	2	5	-0.5	-100	-5	-5	6	-1000	8	1050	-2	15	-5	1400	62	-1	-5	.	-2	-5	7
1911	HO013	34.8454	79.2470	0.3	-0.1	1	15	5.0	-100	-5	-5	4	-1000	7	550	-2	-5	-5	200	10	1	5	.	-2	-5	5
1912	HO014	34.8773	79.2233	0.1	-0.1	3	12	-0.5	-100	-5	-5	3	-1000	5	350	-2	-5	-5	1000	-10	-1	5	.	-2	-5	7
1913	HO015	34.9107	79.2366	-0.1	-0.1	3	12	-0.5	-100	5	-5	3	-1000	-5	300	-2	-5	-5	1000	15	6	-5	.	-2	10	10
1914	HO016	34.8995	79.2712	-0.1	-0.1	4	10	0.5	-100	-5	-5	4	-1000	15	450	2	-5	-5	500	-10	7	10	.	-2	-5	-5
1915	HO017	34.9315	79.1974	0.1	0.1	1	12	0.5	-100	-5	-5	2	-1000	-5	400	-2	-5	-5	500	-10	-1	-5	.	-2	5	5
1916	HO018	34.9025	79.1674	0.1	0.1	3	7	-0.5	-100	-5	-5	3	-1000	5	500	-2	5	-5	900	20	1	-5	.	-2	-5	20
1917	HO019	34.9037	79.1407	0.1	-0.1	4	7	0.5	-100	-5	-5	5	-1000	6	750	-2	10	-5	700	-10	-1	-5	.	-2	-5	5
1918	HO020	34.9487	79.0651	0.1	-0.1	1	10	0.5	-100	-5	-5	3	-1000	-5	550	3	10	-5	700	-10	1	5	.	-2	15	-5
1919	HO021	34.9637	79.1914	0.4	-0.1	2	10	0.5	-100	-5	5	3	-1000	-5	650	4	30	-5	1100	-10	-1	10	.	-2	50	-5
1923	HO025	34.9923	79.1407	0.1	-0.1	6	15	-0.5	-100	-5	5	2	-1000	-5	200	5	10	-5	700	-10	1	-5	.	-2	10	5

LAURINBURG 100K QUADRANGLE - SUPPLEMENTAL STREAM SEDIMENT

Lab #	County ID	Lat	Long	Ux ppm	Ag ppm	As ppm	Ba ppm	Be ppm	Ca ppm	Co ppm	Cr ppm	Cu ppm	K ppm	Li ppm	Mg ppm	Mo ppm	Nb ppm	Ni ppm	P ppm	Pb ppm	Se ppm	Sn ppm	Sr ppm	W ppm	Y ppm	Zn ppm

LAURINBURG 100K QUADRANGLE - SUPPLEMENTAL STREAM SEDIMENT

Lab #	County ID	Lat	Long	Ux ppm	Ag ppm	As ppm	Ba ppm	Be ppm	Ca ppm	Co ppm	Cr ppm	Cu ppm	K ppm	Li ppm	Mg ppm	Mo ppm	Nb ppm	Ni ppm	P ppm	Pb ppm	Se ppm	Sn ppm	Sr ppm	W ppm	Y ppm	Zn ppm
3317	RI025	34.9591	79.6658	11.2	-0.1	6	5	0.5	-100	-5	-5	-2	-1000	-5	-200	-2	5	-5	1000	-10	-1	-5	.	-2	-5	5
3318	RI026	34.9538	79.6545	1.7	0.2	2	7	0.5	-100	-5	-5	3	1000	-5	-200	-2	25	-5	1000	-10	-1	-5	.	-2	-5	-5
3319	RI027	34.8787	79.6408	3.3	0.3		-5	-0.5	-100	-5	-5	-2	-1000	5	-200	-2	5	-5	700	-10	-1	-5	.	-2	-5	-5
3320	RI028	34.9100	79.5803	2.6	0.1	1	5	-0.5	-100	5	-5	-2	1000	-5	-200	2	20	-5	700	-10	-1	-5	.	-2	-5	-5
3321	RI029	34.8600	79.6562	2.4	0.2	1	5	-0.5	-100	-5	-5	-2	-1000	-5	-200	-2	5	-5	700	-10	-1	-5	.	-2	-5	-5
3322	RI030	34.8114	79.6663	2.5	0.2	8	-5	-0.5	-100	-5	-5	-2	-1000	-5	-200	-2	5	-5	800	-10	1	-5	.	-2	5	-5
3323	RI031	34.8068	79.7061	1.4	0.3	2	7	-0.5	-100	-5	-5	-2	1000	-5	-200	-2	10	-5	700	-10	-1	-5	.	-2	-5	-5
3324	RI032	34.8263	79.6828	1.2	0.2	2	7	-0.5	-100	-5	-5	-2	-1000	-5	200	-2	25	-5	700	-10	-1	-5	.	-2	5	-5
3325	RI033	34.8452	79.6993	2.9	-0.1	1	-5	-0.5	-100	-5	-5	-2	1000	-5	450	-2	25	10	1000	17	-1	-5	.	2	20	-5
3326	RI034	34.8016	79.7937	2.9	-0.1	4	-5	0.5	-100	-5	-5	-2	1000	-5	350	-2	25	10	800	-10	-1	-5	.	-2	-5	-5
3327	RI035	34.8512	79.7513	7.3	-0.1	1	5	-0.5	-100	-5	7	2	-1000	5	250	-2	40	10	1000	-10	-1	-5	.	-2	-5	-5
3328	RI036	34.8437	79.7575	3.7	-0.1	2	7	-0.5	-100	-5	5	6	2000	-5	350	-2	40	10	1100	-10	-1	-5	.	-2	15	-5
3329	RI037	34.9112	79.7926	10.9	-0.1	2	5	0.5	100	5	-5	4	2000	5	1650	-2	25	10	1100	10	1	-5	.	-2	10	7
3330	RI038	34.8752	79.8126	1.3	-0.1	1	7	0.5	-100	5	-5	2	-1000	-5	200	-2	40	5	900	-10	-1	-5	.	-2	-5	-5
3331	RI039	34.8608	79.8232	2.2	-0.1		7	-0.5	-100	5	5	2	2000	5	450	-2	25	5	700	-10	1	5	.	-2	-5	-5
3332	RI040	34.8516	79.7752	12.8	-0.1		15	-0.5	-100	5	6	2	1000	5	300	-2	50	-5	1100	-10	-1	-5	.	-2	5	-5
3333	RI041	34.8286	79.8166	1.4	-0.1	3	-5	-0.5	-100	5	-5	-2	-1000	-5	-200	-2	25	7	700	-10	-1	-5	.	-2	-5	-5
3334	RI042	34.8386	79.9000	1.8	-0.1	2	5	1.0	100	10	12	9	4000	10	3250	-2	25	20	800	10	1	-5	.	-2	10	25
3335	RI043	34.8547	79.8357	0.8	-0.1	3	5	0.5	-100	7	7	3	-1000	10	550	-2	10	-5	900	-10	1	-5	.	-2	10	5
3336	RI044	34.9023	79.7438	12.1	-0.1	2	7	0.5	-100	-5	8	3	1000	5	250	-2	50	-5	1200	15	1	-5	.	-2	5	-5
3337	RI045	34.9033	79.7160	9.5	-0.1	1	5	-0.5	-100	-5	-5	-2	-1000	5	250	-2	15	15	1000	10	2	-5	.	-2	35	-5
3338	RI046	34.9396	79.7063	7.8	-0.1	0	-5	0.5	-100	-5	8	2	1000	6	200	3	20	-5	900	15	-1	-5	.	-2	5	-5
3339	RI047	34.9718	79.7655	7.6	-0.1	1	10	0.5	-100	-5	5	2	2000	5	750	3	25	5	1500	10	1	-5	.	-2	150	-5

LAURINBURG 100K QUADRANGLE - SUPPLEMENTAL STREAM SEDIMENT

Lab #	County ID	Lat	Long	Ux ppm	Ag ppm	As ppm	Ba ppm	Be ppm	Ca ppm	Co ppm	Cr ppm	Cu ppm	K ppm	Li ppm	Mg ppm	Mo ppm	Nb ppm	Ni ppm	P ppm	Pb ppm	Se ppm	Sn ppm	Sr ppm	W ppm	Y ppm	Zn ppm
3340	R1048	34.9908	79.7530	5.6	-0.1	3	15	0.5	-100	5	8	2	3000	6	800	-2	45	5	1000	12	1	-5	.	-2	25	5
3352	R1061	34.9361	79.8166	2.0	0.2	1	292	2.5	100	12	6	11	11000	12	1650	-2	25	7	800	27	-1	-5	.	-2	-5	45
3353	R1062	34.9982	79.8671	2.6	-0.1	1	47	1.5	100	7	74	7	14000	9	1750	-2	15	10	1100	12	-1	5	.	-2	5	25
3354	R1063	34.9853	79.8374	1.3	0.1	4	5	1.0	300	12	23	7	11000	11	3600	-2	15	15	1000	12	1	10	.	-2	-5	27
3355	R1064	34.9781	79.8025	1.2	-0.1	3	-5	0.5	-100	-5	11	4	1000	8	450	-2	35	7	700	12	1	15	.	2	5	10
3600	SC001	34.7321	79.4495	-0.1	0.1	5	20	-0.5	-100	-5	-5	15	-1000	9	450	3	5	-5	800	17	-1	-5	.	-2	-5	12
3601	SC002	34.7068	79.4440	-0.1	-0.1	4	20	-0.5	-100	-5	-5	3	-1000	-5	-200	-2	5	-5	800	12	1	-5	.	-2	-5	5
3602	SC003	34.6667	79.4717	-0.1	-0.1	4	12	0.5	-100	-5	-5	5	-1000	6	300	-2	5	-5	800	80	3	-5	.	-2	35	15
3603	SC004	34.6896	79.5015	-0.1	-0.1	9	12	0.5	-100	-5	-5	4	-1000	5	700	-2	15	-5	900	12	5	-5	.	-2	65	5
3604	SC005	34.7290	79.5297	-0.1	-0.1	4	17	-0.5	-100	-5	-5	3	-1000	5	700	-2	15	-5	900	-10	3	10	.	-2	15	5
3605	SC006	34.7250	79.5710	0.1	-0.1	2	12	0.5	-100	-5	-5	3	-1000	7	650	3	10	-5	900	-10	-1	5	.	-2	70	7
3606	SC007	34.7683	79.5668	-0.1	-0.1	3	5	0.5	-100	-5	-5	2	1000	6	650	-2	-5	5	500	-10	4	-5	.	-2	45	7
3607	SC008	34.8125	79.5879	0.2	-0.1	4	7	-0.5	-100	-5	-5	4	1000	6	300	-2	-5	-5	500	-10	1	-5	.	-2	-5	5
3608	SC009	34.8022	79.6098	0.1	-0.1	1	5	0.5	-100	-5	-5	2	1000	5	750	2	5	-5	800	-10	-1	-5	.	-2	55	-5
3609	SC010	34.8318	79.6151	0.3	-0.1	2	-5	0.5	-100	-5	-5	2	1000	-5	550	-2	10	-5	700	-10	3	-5	.	-2	95	-5
3610	SC011	34.8416	79.5548	0.1	-0.1	2	7	-0.5	-100	-5	-5	15	1000	5	500	3	10	-5	800	-10	2	-5	.	-2	15	65
3611	SC012	34.8343	79.5269	0.1	-0.1	2	5	1.0	-100	-5	-5	2	1000	-5	550	2	-5	-5	800	-10	1	-5	.	-2	20	-5
3612	SC013	34.8163	79.4811	0.1	-0.1	2	-5	0.5	-100	-5	-5	3	1000	6	650	2	15	-5	900	-10	1	5	.	-2	20	10
3613	SC014	34.7619	79.4897	-0.1	-0.1	3	10	0.5	-100	-5	-5	3	1000	5	950	-2	10	7	1000	-10	3	-5	.	-2	10	7
3614	SC015	34.7601	79.4104	-0.1	-0.1	3	-5	0.5	-100	-5	-5	3	1000	7	700	3	10	-5	800	-10	1	5	.	-2	10	10
3615	SC016	34.9122	79.5169	0.3	-0.1	1	12	0.5	-100	-5	-5	2	-1000	-5	200	-2	5	-5	800	-10	3	-5	.	-2	120	5
3616	SC017	34.9298	79.5528	0.1	-0.1	0	5	0.5	-100	-5	-5	3	1000	6	350	2	5	-5	900	17	-1	-5	.	-2	45	10
3617	SC018	34.9633	79.5666	0.3	-0.1	3	5	0.5	-100	-5	-5	3	1000	5	550	-2	15	5	1200	10	-1	-5	.	-2	170	-5
3618	SC019	34.9908	79.5188	0.3	-0.1	4	-5	0.5	-100	-5	-5	5	1000	5	650	-2	5	-5	1000	-10	3	5	.	2	95	-5
3619	SC020	34.9041	79.4737	0.1	-0.1	2	-5	0.5	-100	-5	-5	2	-1000	-5	350	2	5	-5	500	-10	1	-5	.	-2	5	-5
3620	SC021	34.9541	79.4899	0.2	-0.1	4	-5	0.5	-100	-5	-5	4	1000	5	650	3	5	-5	1000	-10	-1	-5	.	-2	10	-5
3621	SC022	34.9881	79.4485	0.2	-0.1	3	-5	0.5	-100	-5	6	2	1000	-5	500	-2	5	-5	1100	-10	-1	-5	.	-2	100	-5
3623	SC024	34.9817	79.4067	0.4	-0.1	1	-5	-0.5	-100	-5	5	-2	-1000	-5	650	-2	5	-5	1000	-10	1	-5	.	-2	185	-5
3624	SC025	34.9598	79.3901	4.2	-0.1	2	-5	0.5	-100	5	-5	3	1000	-5	750	-2	5	-5	1000	10	1	-5	.	-2	295	-5
3625	SC026	34.9126	79.4280	0.1	-0.1	1	7	-0.5	-100	-5	-5	2	1000	-5	400	-2	5	-5	700	-10	2	-5	.	-2	45	-5
3626	SC027	34.8835	79.3885	0.5	-0.1	1	10	-0.5	100	-5	7	3	-1000	5	500	-2	10	-5	1000	12	1	5	.	-2	295	-5
3627	SC028	34.8807	79.4176	0.1	-0.1	2	-5	-0.5	-100	-5	-5	3	1000	5	400	-2	-5	17	800	-10	3	-5	.	-2	-5	7
3628	SC029	34.8382	79.4305	0.1	0.1	1	7	-0.5	-100	-5	-5	2	1000	-5	450	-2	-5	5	600	-10	3	10	.	-2	5	5
3629	SC030	34.7438	79.3612	0.4	0.1	0	12	-0.5	100	-5	-5	7	2000	-5	1300	-2	15	7	1000	32	3	5	.	-2	220	65
3630	SC031	34.8159	79.3952	0.1	-0.1		5	0.5	-100	-5	.	2	1000	-5	450	.	.	-5	.	-10		10	.	.	.	-5
3631	SC032	34.7876	79.4395	-0.1	0.1	3	12	0.5	-100	-5	-5	6	1000	11	400	-2	15	5	700	35	1	-5	.	-2	10	22

LAURINBURG 100K QUADRANGLE - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
129	AN532	34.9802	79.9865	6.5	110	0.077	.	16400	.	2610	29	12000	-0.1	0.7	18	-0.001
130	AN533	34.9818	79.9287	5.6	72	0.053	25	11000	.	2730	36	6540	-0.1	0.7	306	0.060
131	AN534	34.9417	79.9692	8.8	169	0.069	.	M	.	M	10	M	-0.1	0.4	81	-0.001
132	AN535	34.9196	79.9036	6.5	58	0.044	25	7000	41	1740	.	4550	0.8	0.7	39	-0.001
133	AN536	34.8858	79.9163	7.0	60	0.044	9	7800	.	700	.	2760	0.4	0.7	220	-0.001
146	AN549	34.8339	79.9626	4.6	98	0.174	11	12300	.	1480	66	10540	-0.1	1.7	613	3.620
147	AN550	34.8207	79.9326	6.1	67	0.054	23	6900	.	2460	.	4550	-0.1	0.8	420	0.070
148	AN551	34.8848	79.9771	6.4	89	0.034	51	12700	.	1800	23	M	-0.1	0.3	180	0.290
1428	CU511	34.9803	79.0444	4.9	25	0.053	31	5300	.	.	26	3130	-0.1	2.1	57	-0.001
1429	CU512	34.9801	79.0068	5.0	198	0.068	16	7000	.	.	36	6530	-0.1	0.3	138	-0.001
1431	CU514	34.9453	79.0047	4.8	42	0.008	.	6800	.	.	29	3430	-0.1	0.1	131	-0.001
2559	HO511	34.9859	79.3577	5.6	21	0.007	20	4200	.	.	13	2600	-0.1	0.3	46	-0.001
2560	HO512	34.9539	79.3390	5.5	24	-0.002	27	4300	.	.	19	3000	-0.1	0.0	34	-0.001
2561	HO513	34.9492	79.3069	4.9	119	0.160	.	11400	.	.	43	5920	-0.1	1.3	148	-0.001
2562	HO514	34.9771	79.3153	5.3	17	-0.002	21	2800	.	.	16	2620	-0.1	-0.1	45	-0.001
2563	HO515	34.9832	79.2785	5.5	115	0.027	34	6700	.	.	37	3390	-0.1	0.2	93	-0.001
2564	HO516	34.9520	79.2758	5.7	24	-0.002	28	4100	17	.	18	2290	-0.1	0.0	57	-0.001
2565	HO517	34.9050	79.3058	5.4	43	-0.002	.	4400	.	.	24	2670	-0.1	0.0	57	-0.001
2566	HO518	34.8828	79.3099	4.9	23	-0.002	18	5100	.	.	11	2810	-0.1	0.0	47	-0.001
2567	HO519	34.8458	79.2700	4.9	49	0.034	.	6400	.	.	15	3380	-0.1	0.6	78	-0.001
2568	HO520	34.8560	79.3204	5.6	38	0.020	16	4300	.	.	18	2660	-0.1	0.5	60	-0.001
2569	HO521	34.8958	79.2675	5.3	71	0.023	29	7800	.	.	28	3750	-0.1	0.3	105	-0.001
2570	HO522	34.9227	79.2696	5.0	30	0.016	18	5100	.	.	16	3020	-0.1	0.5	58	0.080
2571	HO523	34.9185	79.2398	4.5	189	0.102	.	16400	.	.	26	7910	0.4	0.5	1135	-0.001
2572	HO524	34.9533	79.2372	5.6	215	0.002	.	17400	.	.	.	11530	-0.1	0.0	52	-0.001
2578	HO530	34.8866	79.2453	4.6	700	0.657	64	107100	.	.	.	47520	-0.1	0.9	1126	-0.001
2579	HO531	34.8554	79.2315	5.0	45	0.089	15	6500	.	.	32	3660	-0.1	1.9	65	-0.001
2580	HO532	34.8565	79.1943	4.6	304	0.422	.	26500	.	.	32	10760	-0.1	1.3	1304	-0.001
2581	HO533	34.8776	79.2058	4.5	92	0.724	.	9600	.	.	44	4150	-0.1	7.8	494	0.260
2582	HO534	34.8824	79.1569	4.7	79	0.177	.	6300	.	.	21	4260	2.8	2.2	341	-0.001
2583	HO535	34.9218	79.2012	5.1	85	0.028	9	4900	.	.	30	4230	-0.1	0.3	111	-0.001
2584	HO536	34.9536	79.1883	4.3	252	0.617	20	27800	.	.	.	10110	-0.1	2.4	1335	-0.001
2585	HO537	34.9588	79.1518	4.7	79	0.430	.	8400	.	.	37	3060	-0.1	5.4	251	0.440
2586	HO538	34.9099	79.1578	4.8	69	0.044	.	6100	.	.	21	3750	-0.1	0.6	79	0.250
2587	HO539	34.9217	79.1174	4.6	71	0.068	14	6700	.	.	26	3710	-0.1	0.9	184	-0.001
2588	HO540	34.9481	79.1130	5.3	39	-0.002	17	3800	.	.	15	2200	-0.1	0.0	32	0.070

LAURINBURG 100K QUADRANGLE - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
2589	HO541	34.9500	79.0757	5.3	29	-0.002	.	3500	.	.	30	3090	-0.1	0.0	30	0.070
2591	HO543	34.9843	79.0747	5.7	72	0.083	.	5700	.	.	33	4030	-0.1	1.1	64	-0.001
2592	HO544	34.9823	79.1190	6.3	59	0.023	5	3000	.	.	26	2300	-0.1	0.3	20	-0.001
2593	HO545	34.9914	79.1504	5.5	24	0.032	.	3100	.	.	18	2100	-0.1	1.3	32	0.030
2594	HO546	34.9827	79.1924	5.8	31	-0.002	.	3900	.	.	32	2980	-0.1	0.0	37	-0.001
2595	HO547	34.9835	79.2227	6.0	229	0.287	101	14100	.	.	82	11390	-0.1	1.2	206	-0.001
4314	RB501	34.6936	79.0354	4.4	169	0.675	.	18600	41	5320	61	19480	-0.1	3.9	1467	0.470
4315	RB502	34.7139	79.0053	6.7	130	0.038	100	5200	77	4360	38	16690	-0.1	0.2	56	-0.001
4322	RB509	34.8974	79.0032	4.9	30	0.056	.	4000	17	.	35	15680	-0.1	1.8	158	0.040
4323	RB510	34.9238	79.0362	4.6	70	0.086	.	6000	44	2290	58	14180	-0.1	1.2	612	0.090
4324	RB511	34.9036	79.0598	4.8	49	0.131	.	6900	15	.	26	18230	-0.1	2.6	167	-0.001
4325	RB512	34.8909	79.0287	5.2	99	0.066	13	7800	41	1550	49	15090	-0.1	0.6	358	0.060
4328	RB515	34.8027	79.0011	5.6	132	0.039	.	8400	21	6140	87	14990	-0.1	0.3	102	0.050
4329	RB516	34.7114	79.0657	7.6	170	0.171	.	7100	.	.	25	16710	-0.1	1.0	64	-0.001
4330	RB517	34.7384	79.0354	5.3	22	0.023	.	4300	25	3020	26	15660	-0.1	1.0	80	-0.001
4331	RB518	34.7636	79.0022	5.6	40	0.012	.	8900	.	.	56	17630	-0.1	0.3	53	-0.001
4332	RB519	34.7811	79.0239	6.1	30	-0.002	.	4000	31	.	34	14690	-0.1	0.0	129	-0.001
4333	RB520	34.8323	79.0375	5.0	72	0.076	.	5100	34	.	33	19240	-0.1	1.0	236	0.010
4334	RB521	34.8587	79.0603	4.8	89	0.227	59	6500	60	3380	71	14050	-0.1	2.5	818	0.080
4335	RB522	34.8781	79.0826	5.0	145	0.070	42	19600	.	.	67	27500	-0.1	0.4	505	0.100
4336	RB523	34.8565	79.1110	5.9	100	0.014	36	9000	44	.	61	14350	-0.1	0.1	175	0.060
4337	RB524	34.8370	79.0845	5.1	45	0.092	.	5000	20	1870	47	15250	-0.1	2.0	207	0.020
4338	RB525	34.8094	79.0633	4.8	49	0.145	59	5200	.	.	32	14240	0.9	2.9	420	0.030
4339	RB526	34.7655	79.0617	5.4	25	0.058	.	4300	.	.	34	14760	-0.1	2.3	84	-0.001
4340	RB527	34.7333	79.0938	5.0	90	0.027	25	9100	.	2810	70	17030	-0.1	0.3	182	0.030
4341	RB528	34.7859	79.0945	5.5	35	0.038	.	4800	.	.	49	15080	-0.1	1.0	120	-0.001
4342	RB529	34.8152	79.1217	6.4	39	0.006	.	4200	.	.	41	15380	-0.1	0.1	66	-0.001
4343	RB530	34.8394	79.1567	5.7	31	0.045	.	5400	.	1350	37	15860	-0.1	1.4	94	-0.001
4344	RB531	34.7675	79.1100	4.5	122	0.126	50	8900	88	3320	112	16050	-0.1	1.0	1304	0.110
4345	RB532	34.7861	79.1469	5.4	48	0.051	.	5500	23	2180	34	14790	-0.1	1.0	239	0.040
4346	RB533	34.7961	79.1609	5.6	38	0.010	15	5500	.	.	25	15420	-0.1	0.2	90	0.010
4347	RB534	34.6745	79.0557	4.7	91	0.103	49	11600	17	2160	53	19560	-0.1	1.1	582	0.130
4348	RB535	34.6901	79.0977	5.1	319	0.225	83	36400	.	.	52	31460	-0.1	0.7	1528	0.780
4349	RB536	34.7133	79.1124	4.8	65	0.225	25	7100	.	.	26	16260	-0.1	3.4	347	0.280
4350	RB537	34.7371	79.1474	5.1	41	0.019	34	5500	.	.	30	16490	-0.1	0.4	155	0.030
4351	RB538	34.7646	79.1809	5.1	68	0.103	.	10900	.	1250	32	16740	-0.1	1.5	184	0.070

LAURINBURG 100K QUADRANGLE - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
4352	RB539	34.7921	79.2009	5.6	29	-0.002	.	4000	22	.	37	14310	0.3	0.0	137	-0.001
4353	RB540	34.8074	79.2357	4.5	82	0.157	.	8600	48	2090	55	14870	0.4	1.9	481	0.110
4354	RB541	34.8291	79.1964	5.3	46	0.031	21	6600	.	.	54	15650	-0.1	0.6	146	0.020
4355	RB542	34.8300	79.2584	5.2	50	0.028	20	4400	28	1020	60	13800	-0.1	0.5	275	-0.001
4356	RB543	34.8077	79.2965	5.0	50	0.034	.	2900	.	1270	39	13360	-0.1	0.6	306	-0.001
4357	RB544	34.8335	79.3202	4.9	19	0.083	17	2700	17	.	26	13430	-0.1	4.3	195	0.020
4358	RB545	34.8093	79.3484	4.7	47	0.069	.	4700	22	.	52	13760	-0.1	1.4	279	0.010
4359	RB546	34.6423	79.0879	5.4	65	0.038	.	11600	.	.	30	18920	-0.1	0.5	168	0.010
4360	RB547	34.6653	79.1223	5.9	272	0.034	74	40300	.	3420	52	42120	1.2	0.1	527	-0.001
4361	RB548	34.6920	79.1437	4.8	101	0.254	.	11500	26	1580	59	16460	-0.1	2.5	379	0.150
4362	RB549	34.7117	79.1862	6.3	40	0.021	.	4300	16	.	57	14110	-0.1	0.5	71	-0.001
4363	RB550	34.7390	79.2108	6.7	99	0.026	20	8900	45	.	75	16190	-0.1	0.2	115	-0.001
4364	RB551	34.7553	79.2366	5.0	80	0.125	.	12400	.	1310	39	21000	-0.1	1.5	178	0.060
4365	RB552	34.7942	79.2592	4.9	90	0.228	15	7600	.	2650	86	15030	-0.1	2.5	499	0.150
4366	RB553	34.7807	79.3172	4.8	53	0.101	52	6700	.	1560	42	14560	-0.1	1.9	442	0.060
4367	RB554	34.6233	79.1210	4.9	100	0.199	.	5400	60	1820	51	13480	-0.1	1.9	407	0.070
4368	RB555	34.6370	79.1544	4.8	50	0.106	.	6000	.	.	45	17790	-0.1	2.1	296	0.060
4369	RB556	34.6660	79.1790	6.2	40	0.009	.	3900	37	.	39	13750	-0.1	0.2	90	-0.001
4370	RB557	34.6831	79.2055	7.7	190	0.010	56	3800	72	.	30	15150	-0.1	0.0	95	-0.001
4371	RB558	34.7115	79.2424	6.4	91	0.012	.	3700	31	1180	38	14490	-0.1	0.1	82	-0.001
4372	RB559	34.5998	79.1437	7.6	200	0.017	.	4000	68	.	55	14240	-0.1	0.0	51	-0.001
4373	RB560	34.6211	79.1811	6.0	110	0.016	.	7300	.	3870	61	16740	10.1	0.1	129	-0.001
4374	RB561	34.6407	79.2124	5.8	70	0.014	.	7200	71	1550	68	14940	1.3	0.2	134	0.020
4375	RB562	34.6606	79.2410	6.7	205	-0.002	40	9600	27	.	43	19300	0.5	0.0	46	-0.001
4376	RB563	34.6870	79.2645	7.7	215	0.011	.	3000	55	.	142	14080	-0.1	0.0	46	-0.001
4377	RB564	34.7411	79.2656	5.4	28	0.033	.	4700	.	.	33	14220	-0.1	1.1	103	-0.001
4378	RB565	34.7570	79.2889	5.2	55	0.047	.	7800	.	.	36	16890	-0.1	0.8	102	0.020
4379	RB566	34.7455	79.3200	4.9	60	0.035	.	6100	22	1900	55	14420	1.2	0.5	386	0.020
4380	RB567	34.7202	79.2877	5.3	29	0.014	.	5000	36	.	42	13860	-0.1	0.4	65	-0.001
4381	RB568	34.7203	79.3546	5.0	51	0.100	.	6600	.	1230	33	17440	-0.1	1.9	101	-0.001
4382	RB569	34.6913	79.3028	6.1	58	0.031	.	7300	27	.	29	15530	-0.1	0.5	110	-0.001
4383	RB570	34.6676	79.2928	7.7	192	0.007	.	3400	72	.	35	14440	-0.1	0.0	71	-0.001
4384	RB571	34.6421	79.2608	5.2	71	0.067	27	5600	34	2200	37	13930	-0.1	0.9	166	0.040
4385	RB572	34.6118	79.2429	5.5	31	0.014	.	5300	.	.	32	14630	-0.1	0.4	120	-0.001
4386	RB573	34.5993	79.2197	4.5	72	-0.002	22	7000	75	3450	45	15720	-0.1	0.0	727	0.140
4387	RB574	34.5743	79.1904	7.6	310	0.015	.	6700	97	2580	57	14100	-0.1	0.0	63	-0.001

LAURINBURG 100K QUADRANGLE - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
4388	RB575	34.5481	79.1497	6.7	100	0.035	14	3800	102	.	42	16230	0.3	0.3	51	-0.001
4389	RB576	34.5702	79.2375	6.3	50	0.035	17	7400	26	2280	41	15930	-0.1	0.7	152	0.020
4390	RB577	34.5943	79.2629	5.3	50	-0.002	.	6500	.	1310	53	15090	2.7	0.0	474	0.160
4391	RB578	34.6188	79.2923	7.5	65	0.033	.	5300	.	880	26	14280	-0.1	0.5	183	-0.001
4392	RB579	34.6432	79.3219	6.8	110	0.004	39	3800	45	.	47	13730	-0.1	0.0	165	-0.001
4393	RB580	34.6728	79.3488	5.6	30	0.071	.	6000	.	.	40	13750	16.3	2.3	194	-0.001
4394	RB581	34.6854	79.3830	4.8	50	0.139	41	6300	22	1110	50	13170	-0.1	2.7	362	0.060
4395	RB582	34.6704	79.4029	4.7	170	0.313	.	18800	.	5130	90	19920	-0.1	1.8	742	0.250
4396	RB583	34.6497	79.4401	5.0	50	0.070	.	7600	19	.	51	16610	-0.1	1.4	312	0.020
4397	RB584	34.6168	79.4166	5.8	91	0.070	.	18500	.	.	66	23600	-0.1	0.7	148	-0.001
4398	RB585	34.6413	79.3816	5.5	31	0.016	19	4200	.	.	35	15050	-0.1	0.5	136	-0.001
4399	RB586	34.6311	79.3563	7.0	200	0.021	.	4600	86	.	67	13010	0.4	0.1	155	-0.001
4400	RB587	34.5923	79.3249	6.7	140	0.011	.	3400	108	.	48	13820	-0.1	0.0	152	-0.001
4401	RB588	34.5764	79.3528	6.4	69	0.007	25	3800	34	.	60	13970	0.4	0.1	123	-0.001
4402	RB589	34.5435	79.3249	5.3	24	0.007	13	4400	.	.	37	13680	0.4	0.2	171	-0.001
4403	RB590	34.5647	79.2942	4.9	55	0.089	.	6300	.	.	37	16960	-0.1	1.6	207	0.030
4404	RB591	34.5532	79.2663	6.3	85	0.003	.	11500	.	.	64	19640	-0.1	0.0	138	-0.001
4405	RB592	34.5156	79.3017	5.6	59	0.042	19	8700	.	.	44	16620	0.6	0.7	174	0.030
4406	RB593	34.5920	79.3792	6.0	369	0.055	34	34400	.	.	55	34460	-0.1	0.1	286	0.070
4407	RB594	34.5019	79.2749	6.2	68	0.049	40	4100	69	.	42	13220	-0.1	0.7	89	-0.001
4419	RB606	34.5021	79.2008	5.3	27	0.257	.	4200	.	.	63	12900	-0.1	9.5	144	-0.001
4420	RB607	34.5240	79.2401	5.9	120	0.056	36	28700	.	2120	45	27180	0.6	0.4	87	-0.001
4421	RB608	34.5472	79.1995	5.5	60	0.037	16	8800	18	.	50	16860	0.4	0.6	152	-0.001
4422	RB609	34.5197	79.1822	7.1	119	0.005	.	3700	131	.	77	15980	-0.1	0.0	161	-0.001
4423	RB610	34.5021	79.1569	6.7	70	0.024	.	3300	42	.	71	14320	-0.1	0.3	123	-0.001
4429	RB616	34.5244	79.1226	6.6	80	0.025	25	5000	.	.	70	13870	-0.1	0.3	140	-0.001
4436	RB623	34.5238	79.0657	5.3	39	0.007	.	7300	32	.	70	15560	-0.1	0.1	141	-0.001
4437	RB624	34.5467	79.0970	7.7	180	0.025	.	3900	17	.	56	13010	-0.1	0.1	137	-0.001
4438	RB625	34.5681	79.1235	5.7	128	0.014	.	13400	.	.	76	18980	-0.1	0.1	95	-0.001
4439	RB626	34.5951	79.0831	5.7	49	0.051	17	7800	17	.	58	16710	-0.1	1.0	57	-0.001
4440	RB627	34.5663	79.0617	7.1	16	0.105	.	6400	64	.	58	13760	0.7	6.5	112	-0.001
4441	RB628	34.5459	79.0318	5.5	69	0.108	14	10000	.	.	67	16690	-0.1	1.5	199	0.010
4442	RB629	34.5240	79.0057	6.1	43	0.020	.	3600	31	.	59	12760	-0.1	0.4	66	-0.001
4447	RB634	34.5869	79.0424	6.7	65	0.020	.	6200	34	.	70	13500	-0.1	0.3	134	-0.001
4448	RB635	34.5707	79.0081	5.5	180	0.013	64	10700	.	.	59	20930	-0.1	0.0	100	-0.001
4479	RB666	34.6170	79.0614	6.3	109	-0.002	.	8400	31	1090	152	13380	2.1	0.0	162	-0.001

LAURINBURG 100K QUADRANGLE - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
4483	R1504	34.8249	79.8836	8.0	50	0.024	.	8200	.	1160	112	1860	-0.1	0.4	57	-0.001
4484	R1505	34.8204	79.8510	6.4	50	0.023	.	11800	.	.	20	7070	-0.1	0.4	101	0.510
4485	R1506	34.8201	79.7948	5.8	20	0.022	.	M	.	7170	.	M	-0.1	1.1	21	-0.001
4486	R1507	34.8625	79.7951	6.6	30	0.018	14	5400	.	450	11	1090	-0.1	0.6	21	-0.001
4487	R1508	34.8651	79.8507	6.2	20	0.011	27	5900	93	2260	.	4620	0.2	0.5	16	-0.001
4488	R1509	34.9006	79.8301	6.6	40	0.015	.	6300	.	1070	16	2110	-0.1	0.3	61	-0.001
4489	R1510	34.9196	79.7894	6.6	85	0.015	51	7800	.	3530	397	8650	-0.1	0.1	18	-0.001
4490	R1511	34.9583	79.8523	6.5	60	0.040	16	8500	20	460	15	4470	-0.1	0.6	65	0.230
4491	R1512	34.9991	79.8563	6.9	90	0.036	37	9700	42	4100	114	9280	-0.1	0.4	14	-0.001
4501	R1522	34.9516	79.7891	6.5	100	0.013	.	9200	224	4270	867	9720	-0.1	0.1	23	-0.001
4502	R1523	34.9589	79.7357	7.5	99	0.038	17	3900	60	6510	248	M	-0.1	0.3	17	-0.001
4503	R1524	34.8651	79.6868	6.7	34	0.025	20	6100	.	.	17	M	-0.1	0.7	15	-0.001
4504	R1525	34.8226	79.6847	6.2	36	0.071	13	4100	.	430	108	2770	-0.1	1.9	25	0.290
4505	R1526	34.8210	79.7272	6.2	11	0.034	.	2200	.	.	14	1010	-0.1	3.0	22	-0.001
4506	R1527	34.8675	79.7373	7.0	29	0.027	18	2900	.	660	9	1880	0.1	0.9	23	-0.001
4507	R1528	34.9092	79.7394	5.3	48	0.040	30	7200	.	520	24	5640	-0.1	0.8	112	0.160
4508	R1529	34.9117	79.6812	5.2	17	0.040	50	4800	.	.	6	190	-0.1	2.3	27	0.050
4509	R1530	34.9143	79.6364	5.8	9	0.015	17	2400	9	.	14	730	-0.1	1.6	19	-0.001
4510	R1531	34.9669	79.6845	6.0	11	0.028	18	2900	19	530	11	1250	-0.1	2.5	32	0.030
4511	R1532	34.9470	79.6311	6.7	16	0.016	14	3100	.	330	81	1750	-0.1	1.0	21	-0.001
4512	R1533	34.8710	79.6240	6.0	24	0.078	.	3700	.	1070	8	2270	-0.1	3.2	31	0.170
4527	R1548	34.9823	79.6076	5.5	96	0.160	11	5600	.	9670	20	5260	-0.1	1.6	146	5.600
4528	R1549	34.9270	79.5839	6.2	13	0.053	19	3100	11	320	6	1070	-0.1	4.0	25	0.100
4892	SC501	34.7324	79.4303	3.4	260	0.198	79	21400	47	2980	169	16430	-0.1	0.7	701	1.630
4893	SC502	34.7252	79.4722	5.3	120	0.203	.	17700	.	.	77	19390	-0.1	1.6	76	-0.001
4894	SC503	34.3877	79.4306	3.9	99	0.110	41	8300	.	.	58	14630	-0.1	1.1	76	-0.001
4895	SC504	34.6635	79.4669	4.1	75	0.217	20	10900	.	.	66	15190	-0.1	2.8	111	-0.001
4896	SC505	34.6974	79.4718	3.0	380	0.113	10	26700	45	4450	127	23540	-0.1	0.3	1130	-0.001
4897	SC506	34.6937	79.5119	4.2	50	0.085	35	8000	.	.	53	13850	-0.1	1.7	109	-0.001
4898	SC507	34.7244	79.5079	4.5	50	0.004	44	6900	12	.	43	12150	-0.1	0.0	102	-0.001
4899	SC508	34.7545	79.5090	3.4	82	0.315	25	11100	41	1160	50	16190	-0.1	3.8	215	-0.001
4900	SC509	34.7487	79.5482	7.7	99	0.032	33	9100	21	.	75	14550	-0.1	0.3	81	-0.001
4901	SC510	34.7308	79.5474	4.5	38	0.036	62	8000	.	.	43	12780	-0.1	0.9	122	-0.001
4902	SC511	34.7526	79.5832	4.4	125	0.162	.	16600	21	2140	96	16660	-0.1	1.3	192	1.450
4903	SC512	34.7889	79.6256	3.8	168	0.080	17	21100	.	1780	72	22470	-0.1	0.4	308	-0.001
4904	SC513	34.7905	79.5592	3.8	102	0.141	26	10600	59	3520	67	13830	-0.1	1.3	802	1.280

LAURINBURG 100K QUADRANGLE - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond us/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
4905	SC514	34.7911	79.5886	3.4	70	0.118	16	11500	.	1720	50	13700	-0.1	1.6	294	23.620
4906	SC515	34.8264	79.6338	7.0	40	0.025	46	7700	.	.	47	12870	-0.1	0.6	88	22.870
4907	SC516	34.8261	79.5910	6.1	82	0.045	30	15800	.	.	53	16010	-0.1	0.5	79	-0.001
4908	SC517	34.8538	79.5484	7.1	92	0.030	27	9600	.	1610	75	11340	-0.1	0.3	89	-0.001
4909	SC518	34.8203	79.5503	3.9	30	0.110	53	7200	.	.	50	11770	2.2	3.6	78	-0.001
4910	SC519	34.8265	79.5126	3.4	73	0.094	40	11800	.	840	56	15760	0.5	1.2	130	20.090
4911	SC520	34.7935	79.5116	3.2	62	0.074	19	11500	.	2030	66	13990	-0.1	1.1	127	-0.001
4912	SC521	34.7947	79.4725	5.1	40	0.031	51	8700	18	.	40	12020	-0.1	0.7	118	-0.001
4913	SC522	34.8317	79.4685	4.2	45	0.043	49	8300	34	.	57	13060	0.3	0.9	89	21.290
4914	SC523	34.8566	79.4617	4.3	63	0.058	29	9700	17	.	51	14970	-0.1	0.9	162	13.540
4915	SC524	34.8574	79.5092	4.2	71	0.029	75	11500	.	780	63	14600	-0.1	0.4	60	22.570
4916	SC525	34.8910	79.5503	3.9	15	0.038	34	6300	15	.	39	11680	-0.1	2.5	71	-0.001
4917	SC526	34.9222	79.5399	4.3	17	0.028	45	6300	.	.	47	11120	-0.1	1.6	93	-0.001
4918	SC527	34.9424	79.5140	4.5	20	0.004	27	5900	.	.	40	11900	-0.1	0.2	81	-0.001
4919	SC528	34.9156	79.5123	3.9	39	0.057	21	8400	.	.	34	13280	0.2	1.4	83	-0.001
4920	SC529	34.8917	79.5149	4.2	28	0.006	.	6400	.	.	42	11310	-0.1	0.2	77	-0.001
4921	SC530	34.8856	79.4718	4.0	25	0.025	50	7700	.	.	42	12120	-0.1	1.0	85	-0.001
4922	SC531	34.9226	79.4744	3.7	52	0.100	.	9800	.	.	41	13390	-0.1	1.9	147	1.280
4923	SC532	34.9495	79.4783	3.5	39	0.079	31	6600	.	1290	42	11340	-0.1	2.0	126	-0.001
4924	SC533	34.9858	79.4334	3.4	50	0.254	.	6400	13	970	45	11480	-0.1	5.0	214	1.860
4925	SC534	34.9807	79.4037	4.4	20	0.035	.	5700	.	670	33	11200	-0.1	1.7	78	-0.001
4926	SC535	34.9538	79.3947	3.8	50	0.140	46	8900	.	.	48	13770	0.3	2.8	115	-0.001
4927	SC536	34.9164	79.4341	3.7	20	0.020	36	6500	.	.	39	11570	-0.1	1.0	83	-0.001
4928	SC537	34.9217	79.3866	3.4	40	0.056	16	7400	.	.	42	11980	-0.1	1.4	168	8.550
4929	SC538	34.8879	79.3570	3.2	200	0.134	26	15700	.	.	61	17030	-0.1	0.6	770	-0.001
4930	SC539	34.7265	79.3886	3.2	49	0.045	.	5700	12	.	49	12770	-0.1	0.9	145	-0.001
4931	SC540	34.7497	79.3556	3.3	39	0.018	.	6700	.	.	50	12060	-0.1	0.4	134	-0.001
4932	SC541	34.8004	79.3891	4.1	138	0.049	23	10800	.	2390	52	18990	-0.1	0.3	78	-0.001
4933	SC542	34.8237	79.3568	4.6	100	0.027	.	9800	.	.	66	14020	-0.1	0.2	97	32.010
4934	SC543	34.8583	79.3582	3.3	139	0.077	.	7900	10	3260	96	11730	-0.1	0.5	333	28.220
4935	SC544	34.8567	79.3959	3.7	50	0.069	.	7500	.	.	44	12930	-0.1	1.3	126	-0.001
4936	SC545	34.8895	79.3955	3.6	55	0.089	29	8700	15	1020	45	12340	-0.1	1.6	153	10.040
4937	SC546	34.8886	79.4334	4.0	30	0.008	.	5600	.	.	42	11270	-0.1	0.2	69	-0.001
4938	SC547	34.8513	79.4353	4.8	117	0.261	.	9000	25	2690	51	14910	-0.1	2.2	269	0.910
4939	SC548	34.8262	79.3982	4.3	43	0.042	26	5400	.	.	49	12230	0.3	0.9	91	-0.001

FLORENCE 100K QUADRANGLE - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond us/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
881	CB563	34.2996	79.0427	6.9	152	0.033	.	4500	207	3060	46	30230	-0.1	0.2	82	-0.001
882	CB564	34.2769	79.0204	6.5	100	0.004	.	3800	248	.	73	17400	-0.1	0.0	115	-0.001
4408	RB595	34.4711	79.2447	4.6	106	0.207	.	8200	56	3960	59	15640	-0.1	1.9	899	0.070
4409	RB596	34.4504	79.2197	5.7	34	0.017	.	4100	.	.	31	14150	-0.1	0.5	171	-0.001
4410	RB597	34.4273	79.1879	5.0	89	0.128	39	6400	.	.	64	15120	3.0	1.4	467	-0.001
4411	RB598	34.3948	79.1590	7.0	149	0.014	.	3600	168	3450	67	21760	0.3	0.0	131	-0.001
4412	RB599	34.3770	79.1277	4.5	119	0.273	.	15900	178	.	66	21330	-0.1	2.2	874	0.070
4413	RB600	34.3543	79.0995	7.1	109	0.030	.	4300	64	3300	78	20880	-0.1	0.2	182	-0.001
4414	RB601	34.3716	79.0538	6.8	101	0.020	.	4100	224	2770	59	25380	-0.1	0.2	122	-0.001
4415	RB602	34.4010	79.0891	4.9	122	0.052	.	12500	.	.	75	16340	0.9	0.4	1070	-0.001
4416	RB603	34.4275	79.1182	5.6	119	0.075	68	9400	.	.	75	15180	0.6	0.6	241	-0.001
4417	RB604	34.4470	79.1526	7.6	190	0.010	.	4300	83	.	69	13920	-0.1	0.0	114	-0.001
4418	RB605	34.4743	79.1860	5.2	125	0.058	.	8500	41	1880	58	11180	-0.1	0.4	354	0.020
4424	RB611	34.4717	79.1221	4.7	72	0.069	18	8300	21	.	62	14690	-0.1	0.9	323	0.040
4425	RB612	34.4434	79.0866	6.5	71	0.056	.	4300	42	1080	67	12690	-0.1	0.7	142	-0.001
4426	RB613	34.4257	79.0692	5.6	128	0.045	31	7300	43	2870	81	15690	-0.1	0.3	215	-0.001
4427	RB614	34.3996	79.0390	7.0	110	0.028	.	3600	213	.	77	19580	-0.1	0.2	124	-0.001
4428	RB615	34.3889	79.0069	5.4	56	0.030	.	4000	.	2410	89	12780	-0.1	0.5	303	0.010
4430	RB617	34.4888	79.0972	6.5	65	0.006	.	3900	70	1530	88	14030	0.4	0.0	109	-0.001
4431	RB618	34.4736	79.0705	5.4	32	0.028	.	7500	20	.	70	14840	-0.1	0.8	137	-0.001
4432	RB619	34.4495	79.0354	6.1	62	0.035	.	7000	171	.	93	14270	-0.1	0.5	124	-0.001
4433	RB620	34.4228	79.0264	6.8	101	0.015	10	4000	204	.	83	13820	0.6	0.1	99	-0.001
4434	RB621	34.4716	79.0161	6.0	42	-0.002	.	3700	89	.	80	13840	0.3	0.0	129	-0.001
4435	RB622	34.4978	79.0329	6.1	200	0.023	.	18100	176	1700	104	24720	0.5	0.1	124	-0.001

LAURINBURG 100K QUADRANGLE - STREAM WATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Al ppb	Br ppb	Cl ppb	Dy ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x 1000
128	HO004	34.9952	79.3839	5.2	23	0.047	235	.	7900	-0.001	41	.	25	3760	0.6	2.0
129	HO005	34.9752	79.3574	4.9	32	0.070	379	16	7700	-0.001	40	.	43	4090	1.4	2.2
131	HO008	34.9570	79.2353	6.4	70	0.058	404	26	13400	-0.001	138	3130	143	6260	0.8	0.8
132	HO009	34.9518	79.2691	5.8	29	0.043	262	.	8000	-0.001	37	.	39	4300	1.2	1.5
133	HO010	34.9353	79.3142	6.8	117	0.161	1573	42	11600	0.090	50	.	63	5970	3.0	1.4
134	HO014	34.8773	79.2233	6.0	62	0.048	310	13	14500	-0.001	.	.	46	6170	0.9	0.8
135	HO015	34.9107	79.2366	5.7	48	0.031	130	25	9500	0.210	36	1310	38	5020	-0.1	0.7
136	HO016	34.8995	79.2712	5.9	42	0.034	146	21	11100	-0.001	27	.	105	4870	1.1	0.8
137	HO017	34.9315	79.1974	5.5	82	0.169	1161	20	14500	-0.001	95	.	22	6870	3.0	2.1
138	HO018	34.9025	79.1674	6.2	56	0.045	128	.	11600	-0.001	.	2540	112	4640	-0.1	0.8
139	HO019	34.9037	79.1407	6.3	79	5.013	210	48	12200	-0.001	.	.	195	6150	-0.1	63.5
140	HO020	34.9487	79.0651	6.0	32	0.075	164	.	9700	0.060	16	.	19	5120	0.7	2.3
141	HO021	34.9637	79.1914	6.3	78	0.079	284	.	12300	-0.001	.	3810	.	5250	0.6	1.0
145	HO025	34.9923	79.1407	5.9	43	0.061	200	.	9400	-0.001	40	1670	25	4820	-0.1	1.4
242	SC001	34.7321	79.4495	5.5	190	0.024	193	23	11400	-0.001	35	4310	280	7570	-0.1	0.1
243	SC002	34.7068	79.4440	5.3	248	0.055	154	23	14600	-0.001	70	5210	560	10150	-0.1	0.2
244	SC003	34.6667	79.4717	6.3	55	0.073	612	14	7900	0.050	86	.	176	6430	1.1	1.3
245	SC004	34.6896	79.5015	5.4	111	0.048	403	25	10900	-0.001	48	2330	436	9360	0.9	0.4
246	SC005	34.7290	79.5297	5.5	122	0.092	767	26	9900	-0.001	.	.	446	9540	2.4	0.8
247	SC006	34.7250	79.5710	5.2	59	0.052	254	.	6900	-0.001	30	.	161	7530	1.0	0.9
248	SC008	34.8125	79.5879	5.9	141	0.052	150	34	11600	-0.001	78	1890	335	9360	0.6	0.4
249	SC009	34.8022	79.6098	5.6	18	0.038	279	564	6600	-0.001	23	.	91	7740	0.9	2.1
250	SC010	34.8318	79.6151	5.6	61	0.051	263	1314	7100	-0.001	.	.	99	7910	0.9	0.8
251	SC011	34.8416	79.5548	5.1	27	0.036	277	19	5900	-0.001	.	.	96	7170	-0.1	1.3
252	SC012	34.8343	79.5269	6.1	62	0.074	250	.	11400	-0.001	.	.	99	9900	0.9	1.2
253	SC013	34.8163	79.4811	6.3	44	0.048	281	.	10400	-0.001	30	.	122	8580	1.3	1.1
254	SC014	34.7619	79.4897	6.3	62	0.095	467	18	9800	-0.001	65	1910	212	9080	1.9	1.5
255	SC015	34.7601	79.4104	6.3	112	0.280	4851	.	16400	-0.001	.	.	356	9910	3.8	2.5
256	SC016	34.9122	79.5169	4.7	12	0.060	705	.	6700	-0.001	.	.	101	7270	0.4	5.0
257	SC017	34.9298	79.5528	5.0	15	0.066	607	.	6500	-0.001	.	.	110	7440	1.5	4.4
258	SC018	34.9633	79.5666	5.2	10	0.058	703	.	5200	-0.001	26	.	103	7490	1.1	5.8
259	SC019	34.9908	79.5188	5.5	11	0.159	531	.	6200	-0.001	.	.	92	7630	-0.1	14.5
260	SC020	34.9041	79.4737	5.1	19	0.021	407	20	7200	-0.001	.	2490	112	7810	1.0	1.1
261	SC021	34.9541	79.4899	4.7	9	0.090	1759	.	6400	-0.001	.	.	109	8070	-0.1	10.0
262	SC022	34.9881	79.4485	4.9	10	0.079	520	.	6000	-0.001	.	.	91	7720	-0.1	7.9
264	SC024	34.9817	79.4067	4.9	11	0.043	331	384	6000	-0.001	.	.	89	7770	1.0	3.9

LAURINBURG 100K QUADRANGLE - STREAM WATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Al ppb	Br ppb	Cl ppb	Dy ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x 1000
265	SC025	34.9598	79.3901	4.9	10	0.028	323	12	5800	-0.001	.	.	93	7790	-0.1	2.8
266	SC026	34.9126	79.4280	6.1	26	0.032	323	3089	7300	-0.001	29	.	123	8280	0.9	1.2
267	SC027	34.8835	79.3885	5.7	28	0.045	254	18	7700	-0.001	.	.	115	8980	-0.1	1.6
268	SC029	34.8382	79.4305	6.1	44	0.017	308	.	5200	-0.001	.	.	104	7990	-0.1	0.4
269	SC030	34.7438	79.3612	6.5	250	0.130	215	74	11800	-0.001	44	.	168	12860	-0.1	0.5
270	SC031	34.8159	79.3952	6.4	58	0.027	265	.	10600	-0.001	100	.	443	9490	0.9	0.5
271	SC032	34.7876	79.4395	5.9	81	0.092	275	.	14500	-0.001	.	.	266	10880	0.5	1.1