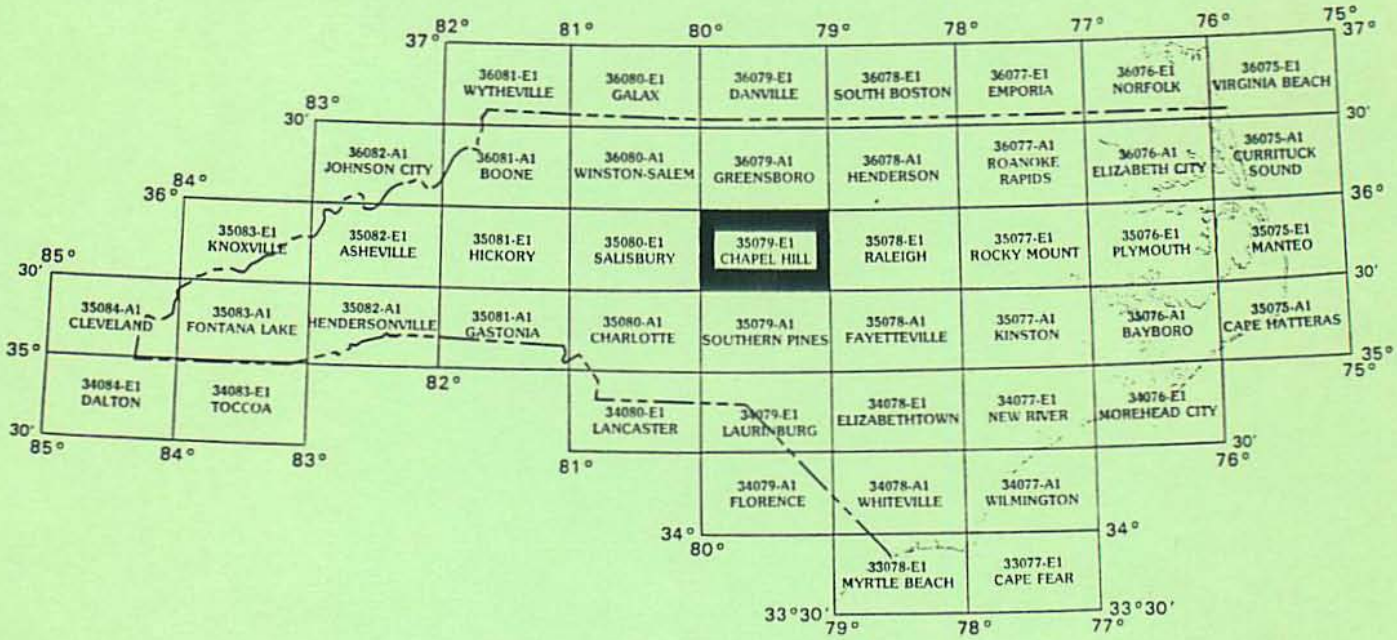
Listing of Concentrations of Variables of Stream Sediment, Stream Water, and Groundwater for the Chapel Hill 30 x 60 - Minute Quadrangle -NURE Database

by
Robert H. Carpenter and Jeffrey C. Reid



NORTH CAROLINA GEOLOGICAL SURVEY
OPEN-FILE REPORT 93-17

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.

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Jeffrey C. Reid
Chief Geologist

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INTRODUCTION

This report is a compilation of geochemical data for stream sediment and groundwater for the Chapel Hill 30 x 60 - minute quadrangle (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
AL	Alamance
CH	Chatham
GU	Guilford
LE	Lee
MG	Montgomery
MO	Moore
OR	Orange
RA	Randolph

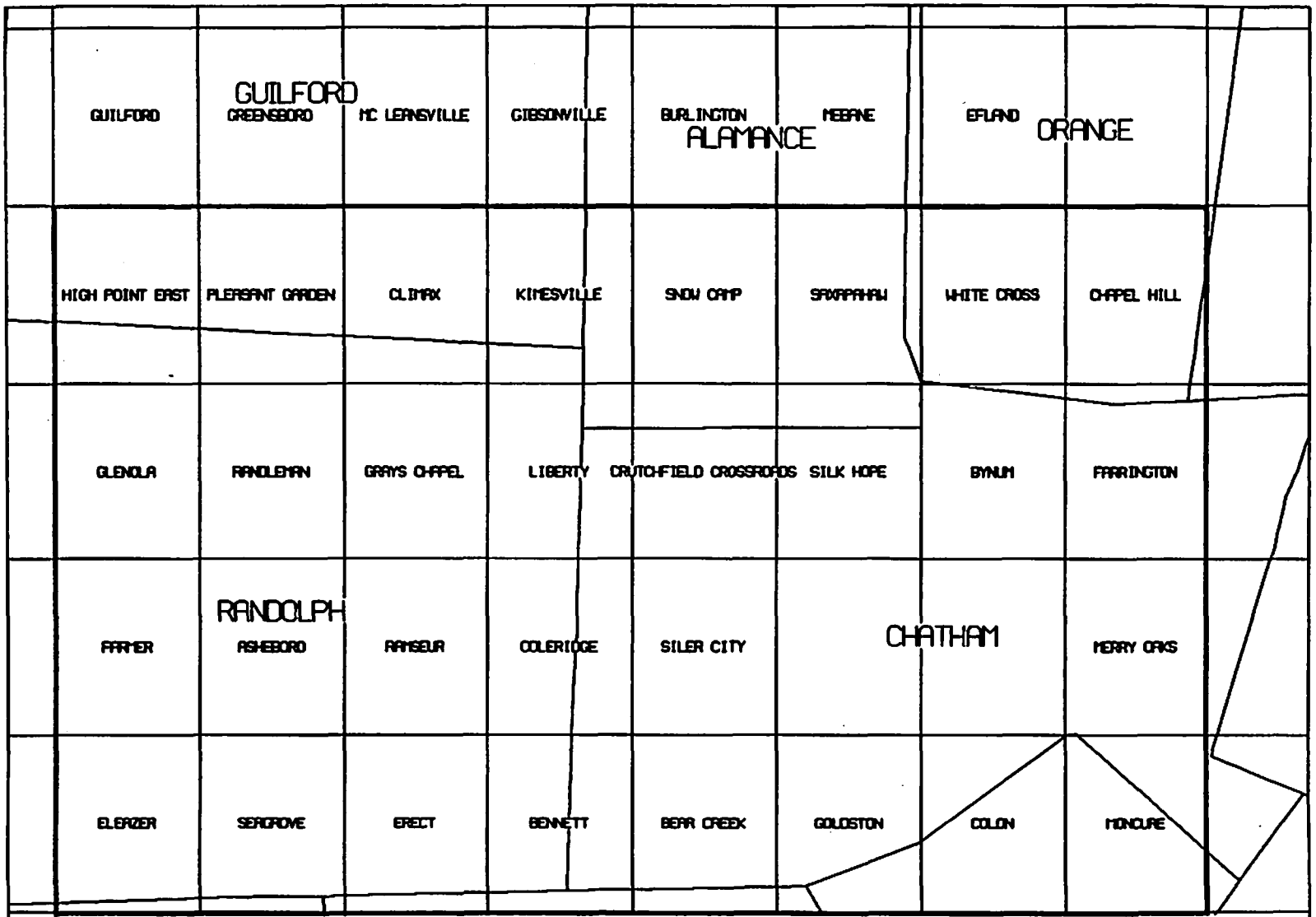

Figure 1. Map Showing Outlines of Chapel Hill 30 x 60 Minute - Quadrangle and Contained 7 - 1/2 Minute Quadrangle.

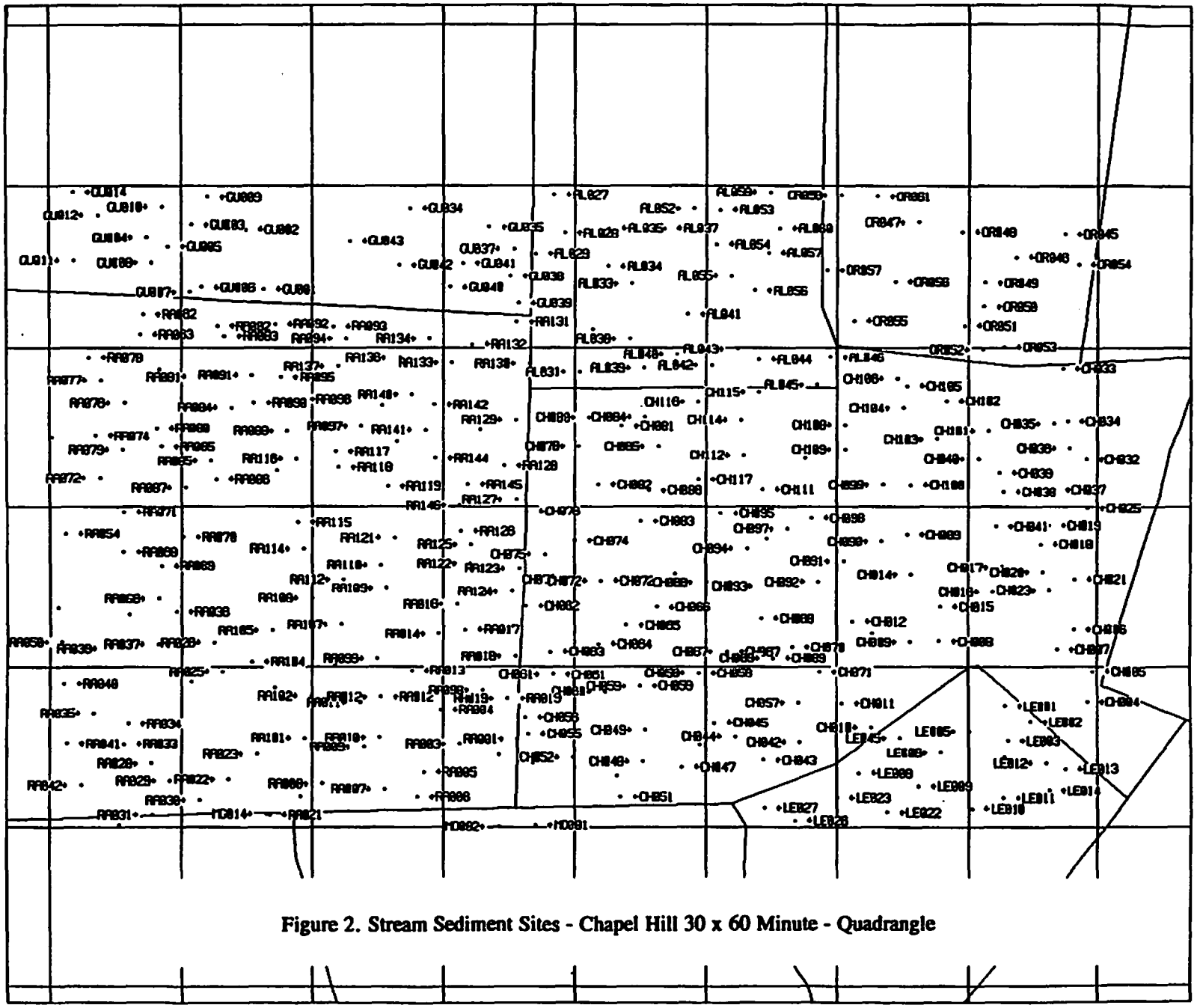

Figure 2. Stream Sediment Sites - Chapel Hill 30 x 60 Minute - Quadrangle

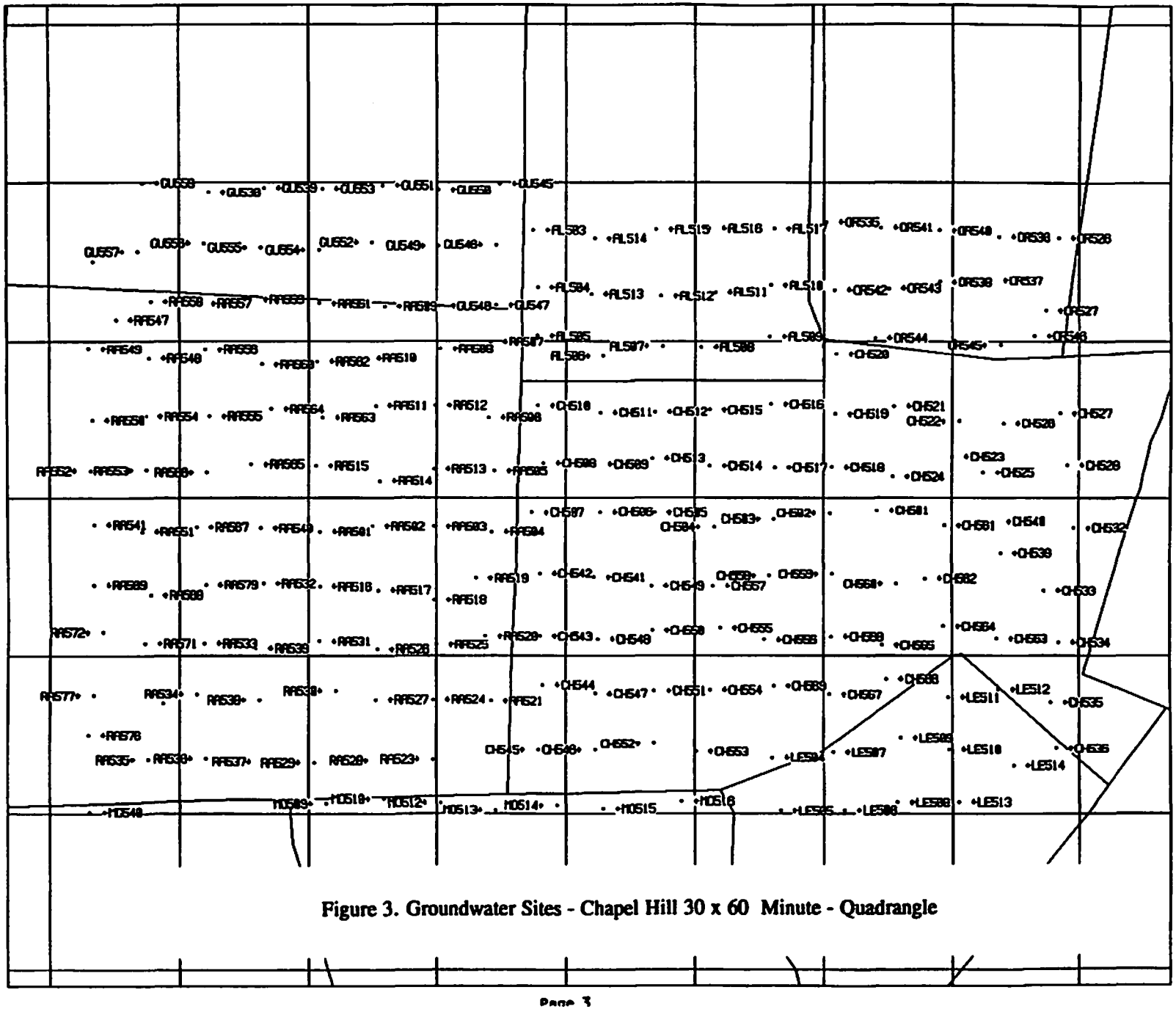

Figure 3. Groundwater Sites - Chapel Hill 30 x 60 Minute - Quadrangle

CHAPEL HILL 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
142	AL027	35.9929	79.5195	7.5	110	1.2	-3	11	68200	53	53500	2290	24300	19.2	21000	290	3.6	6.1	25	2	3.0	0.5	
143	AL028	35.9633	79.5097	7.3	90	0.9	4	11	54700	-20	7100	440	30600	5.5	1600	40	M	-1.0	19	2	2.6	-0.2	
144	AL029	35.9473	79.5371	7.2	110	1.8	5	25	62500	44	26900	1520	31600	10.7	13400	130	2.7	-1.0	18	2	2.8	M	
145	AL030	35.8554	79.5290	7.3	280	2.3	-3	47	20600	41	16800	830	9800	4.1	6100	30	2.5	-1.0	19	1	7.5	0.7	
146	AL031	35.8563	79.4950	M	M	2.1	-3	35	27400	-20	12700	570	14900	3.2	5100	30	2.8	-1.0	12	2	5.3	0.5	
147	AL032	35.8895	79.4832	7.5	85	2.4	6	12	71400	49	60600	2820	15400	16.4	22900	260	M	-1.0	14	4	3.5	0.5	
148	AL033	35.9245	79.4459	7.6	45	5.0	6	25	56400	-20	54500	740	21300	9.6	4800	220	M	-1.0	8	M	5.7	1.2	
149	AL034	35.9379	79.4686	7.7	90	1.7	-3	8	62900	21	37300	1130	20500	9.8	8600	120	4.3	-1.0	17	3	2.8	0.3	
150	AL035	35.9671	79.4674	M	M	1.0	-2	22	41400	-20	9400	310	26700	5.7	2500	40	M	6.6	10	1	M	0.6	
152	AL037	35.9671	79.4149	7.2	70	2.8	M	29	36700	M	M	760	9400	3.6	2100	50	1.3	M	10	1	4.1	M	
153	AL038	35.8823	79.4478	7.2	115	1.8	M	6	49200	M	M	1100	16700	M	10900	170	5.8	M	M	M	M	M	
154	AL039	35.8596	79.4339	7.2	120	2.8	8	6	45300	35	23600	300	3000	9.5	3900	70	2.3	5.0	13	1	3.6	0.5	
155	AL040	35.8701	79.4025	7.0	70	3.0	M	34	48200	M	M	530	29000	6.0	4300	50	2.4	M	M	M	M	M	
156	AL041	35.9010	79.3925	7.2	90	4.1	-3	26	42600	63	44200	1770	4300	10.1	10400	110	3.9	-1.7	16	5	2.7	0.6	
157	AL042	35.8615	79.3695	7.3	90	2.5	-2	14	41800	9	-5000	640	16300	6.9	6200	50	1.0	-1.0	M	M	M	-0.2	
158	AL043	35.8743	79.3453	7.0	130	1.8	8	7	38700	-20	33900	520	6900	10.3	4700	60	2.5	13.6	11	35	M	-0.2	
159	AL044	35.8663	79.3247	7.4	90	1.4	M	2	50800	M	M	660	25500	16.5	5300	110	2.3	M	M	M	M	M	0.015
160	AL045	35.8464	79.2688	M	M	0.7	-3	4	33600	-20	23800	360	9900	6.2	3500	20	M	M	3	M	M	-0.2	
161	AL046	35.8678	79.2561	7.2	70	1.5	M	6	44400	M	M	670	27800	9.8	3900	60	2.0	M	M	M	M	M	
167	AL052	35.9824	79.3867	7.5	70	1.9	M	23	30000	M	M	560	21300	6.5	6900	60	1.1	M	M	M	M	M	
168	AL053	35.9814	79.3620	M	M	2.2	-3	11	51800	-20	27400	730	8800	9.2	6400	70	3.5	5.9	15	M	M	-0.2	
169	AL054	35.9546	79.3652	M	M	2.2	2	16	48900	-20	-5000	970	400	3.6	3200	40	M	2.8	M	M	M	M	
170	AL055	35.9305	79.3511	7.4	80	2.2	-3	25	36100	-20	13300	520	5100	5.4	4700	60	2.9	8.8	13	2	M	M	
171	AL056	35.9191	79.3292	7.3	95	2.0	9	22	30600	27	19900	450	6000	5.5	3200	50	M	-1.9	10	2	2.0	M	
172	AL057	35.9482	79.3158	7.9	320	1.9	-3	5	57200	190	56700	1490	4800	15.3	5900	160	6.7	-1.0	20	5	2.3	M	
174	AL059	35.9951	79.3140	M	M	2.1	4	8	52500	34	44700	730	7300	11.5	5600	130	M	2.8	12	3	M	0.2	
175	AL060	35.9671	79.3048	7.3	70	1.9	-2	6	46300	51	32900	1490	9900	10.4	7700	150	M	M	15	5	M	0.2	0.358
1047	CH004	35.5973	79.0095	M	M	1.7	8	4	41600	34	17700	430	10200	7.2	6300	40	M	1.0	19	4	1.9	0.4	
1048	CH005	35.6210	79.0036	7.6	81	1.4	3	5	35100	51	30000	530	9100	9.3	5200	80	M	-1.0	12	8	M	0.4	0.036
1049	CH006	35.6538	79.0223	7.1	70	1.5	M	6	18300	M	M	230	4100	1.9	10200	40	3.8	M	M	M	M	M	
1050	CH007	35.6384	79.0387	7.1	70	3.5	27	32	16600	113	7700	310	5800	4.5	13800	30	7.5	M	72	6	5.7	0.5	
1051	CH008	35.6447	79.1524	7.2	75	1.1	-3	4	52900	-20	38600	1090	13400	19.2	M	140	M	M	10	M	M	-0.2	0.043
1052	CH009	35.6441	79.1799	M	M	1.2	-3	6	62200	49	45200	1700	16300	13.6	4600	100	3.0	-1.8	12	3	M	0.3	
1053	CH010	35.5775	79.2168	7.1	68	2.1	5	17	26500	22	15900	440	6800	6.0	4800	40	4.1	-1.0	16	3	2.3	0.4	
1054	CH011	35.5961	79.2447	7.2	70	1.8	7	10	34400	46	22600	300	7700	6.8	4100	60	M	-1.4	13	3	4.0	0.4	
1055	CH012	35.6601	79.2342	7.6	80	0.8	-1	2	54900	26	44400	1130	11500	19.8	5300	150	M	-1.0	11	M	M	-0.2	

CHAPEL HILL 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
1056	CH013	35.6511	79.2164	7.6	60	2.0	-2	3	47600	50	35900	1480	12500	16.7	5400	100	M	M	9	3	M	0.5	
1057	CH014	35.6968	79.1791	M	M	0.8	-2	M	51600	-22	46700	810	10400	19.4	7000	170	M	M	12	3	M	0.7	
1058	CH015	35.6717	79.1513	M	M	0.8	M	M	60500	M	M	790	19700	19.0	3900	130	7.0	M	M	M	M	M	
1059	CH016	35.6835	79.1013	7.4	100	0.5	-1	1	63100	25	72400	1220	6200	24.6	6400	190	M	-1.0	10	4	M	0.5	
1060	CH017	35.7027	79.0930	7.6	25	1.0	4	2	57900	65	60500	1240	9600	20.5	6900	210	6.0	2.5	15	4	M	0.4	
1061	CH018	35.7207	79.0549	7.0	50	1.1	6	M	55500	61	51500	1350	6600	17.2	6200	130	M	-1.0	17	3	M	0.3	
1062	CH019	35.7354	79.0469	7.4	70	1.2	-1	3	65500	48	57300	1330	5300	14.2	8000	200	M	-1.0	10	2	M	M	
1063	CH020	35.6987	79.0531	7.0	115	1.9	2	11	32700	31	17600	250	9000	4.8	3000	30	M	M	12	1	M	0.4	
1064	CH021	35.6932	79.0213	6.8	51	2.2	13	15	23700	46	10300	190	4800	4.6	5800	30	2.7	M	34	4	M	0.5	
1066	CH023	35.6846	79.0467	7.1	61	1.4	10	12	16400	30	16800	300	4400	4.0	6700	40	2.5	2.2	22	3	5.3	0.4	
1068	CH025	35.7495	79.0090	7.1	41	6.0	53	21	61800	188	22800	560	16000	10.2	6300	70	13.1	M	101	9	2.3	0.4	
1075	CH032	35.7878	79.0104	7.3	89	4.4	24	19	51900	69	22300	490	13700	10.3	5300	80	M	M	44	4	M	0.3	
1076	CH033	35.8592	79.0330	7.5	61	2.6	5	21	36800	32	12700	820	10000	5.1	5500	30	M	-1.0	15	2	2.3	0.4	
1077	CH034	35.8181	79.0287	6.7	75	4.0	31	31	39500	147	17200	750	11300	8.1	4500	50	2.4	-1.0	59	4	2.2	0.6	
1078	CH035	35.8160	79.0423	7.2	55	3.2	10	29	37900	49	14800	750	9300	4.0	4600	30	M	-1.0	19	3	3.6	0.5	
1079	CH036	35.7966	79.0273	7.0	111	1.2	M	8	34000	M	M	610	6600	6.7	5700	100	M	M	M	M	M	M	
1080	CH037	35.7639	79.0423	7.4	78	1.7	M	6	46500	-20	48200	1420	7600	9.8	6100	110	M	M	16	2	M	0.5	
1081	CH038	35.7623	79.0910	7.5	91	1.4	-4	13	43400	-51	65100	3060	5000	8.8	29100	210	M	M	8	2	M	0.3	
1082	CH039	35.7772	79.0947	7.6	65	1.8	3	17	18100	18	20000	1150	2900	2.5	16000	60	M	-1.0	8	1	M	0.3	
1083	CH040	35.7880	79.1154	7.4	85	3.6	8	77	31700	56	11000	1330	10100	2.2	8400	30	M	-1.0	9	M	5.9	1.0	
1084	CH041	35.7346	79.0985	7.4	75	1.5	-1	4	43800	42	43500	1670	7000	8.6	6600	100	M	-1.0	10	2	1.7	M	
1085	CH042	35.5657	79.2846	7.6	120	1.8	6	10	41000	45	33000	500	7000	9.8	5000	80	2.5	-1.0	24	4	2.6	0.4	
1086	CH043	35.5518	79.3200	7.5	68	3.2	12	22	28000	37	21900	460	4800	5.1	4900	50	3.7	-1.0	25	4	6.2	0.6	
1087	CH044	35.5704	79.3466	7.6	111	1.5	4	5	47300	42	37500	970	7000	8.2	3700	90	M	M	12	2	M	0.2	
1088	CH045	35.5809	79.3666	7.6	100	1.4	-3	5	61900	-34	54700	1170	10000	20.9	6400	150	M	M	11	3	M	0.4	
1089	CH046	35.5634	79.3803	7.6	85	1.7	M	M	62800	M	M	1610	16900	M	2900	130	6.3	M	M	M	M	M	
1090	CH047	35.5463	79.3979	7.7	100	1.8	3	3	58300	40	45400	1110	10600	17.2	4600	100	M	-1.7	12	2	M	0.2	
1091	CH048	35.5509	79.4347	7.5	90	1.2	-2	5	56400	-20	33600	1500	22200	14.4	4800	140	M	-1.0	11	M	M	0.5	
1092	CH049	35.5756	79.4324	7.1	102	1.5	-1	5	49600	41	33400	1330	17700	12.5	5000	90	M	-1.0	11	4	4.3	0.4	
1093	CH050	35.5399	79.4593	7.4	105	1.5	4	5	53900	-20	46900	1060	9100	12.7	4500	140	M	1.8	11	3	M	-0.2	
1094	CH051	35.5234	79.4562	7.5	110	1.5	6	3	59400	18	49700	1350	8500	13.7	3100	140	M	-1.0	13	2	1.8	0.1	
1095	CH052	35.5541	79.5012	7.3	90	1.9	3	7	55700	33	35400	1390	20300	7.6	7000	100	M	-1.6	12	3	M	0.2	
1096	CH053	35.5519	79.5130	7.2	70	2.3	6	3	50800	45	28100	1240	4800	10.7	6500	80	M	-1.0	14	3	3.2	0.4	0.018
1097	CH054	35.5492	79.5395	6.5	75	1.7	5	11	43200	29	19800	470	20000	6.1	3600	40	M	-1.0	11	2	1.9	0.3	
1098	CH055	35.5724	79.5439	6.2	70	2.5	5	14	39100	-20	7200	560	19700	2.2	3800	20	M	-2.0	7	1	2.0	0.1	
1099	CH056	35.5854	79.5468	6.3	72	1.8	-2	9	48600	-20	22100	700	17900	9.1	5000	50	M	-1.2	7	1	M	0.3	

CHAPEL HILL 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
1100	CH057	35.5967	79.2865	7.7	62	1.8	4	10	31300	35	17100	290	8400	5.0	5500	40	4.0	M	18	3	M	-0.2	
1101	CH058	35.6199	79.3813	7.1	75	1.9	M	13	29100	M	M	500	4800	4.7	2900	60	M	M	M	M	M	M	
1102	CH059	35.6099	79.4374	7.0	89	2.3	4	25	56100	35	38100	1170	19400	9.3	6100	90	M	3.9	12	3	2.8	0.4	
1103	CH060	35.6056	79.4708	7.0	80	1.6	2	8	47000	-20	29600	1250	9900	6.6	6300	90	2.3	-1.0	10	2	M	M	
1104	CH061	35.6189	79.5201	7.3	60	1.6	4	8	34000	-20	49800	820	4300	6.7	6700	120	M	-1.1	7	1	M	-0.2	
1105	CH062	35.6723	79.5461	7.3	50	1.6	5	11	45600	39	38600	1430	6600	7.4	10000	110	M	-1.0	9	2	3.8	0.4	
1106	CH063	35.6368	79.5226	7.3	60	1.6	5	3	37400	26	39900	730	6000	10.3	4300	110	M	M	12	2	M	-0.6	
1107	CH064	35.6426	79.4771	7.3	75	2.0	M	6	46000	M	55700	870	3100	8.7	4500	100	M	-1.2	5	1	M	-0.9	
1108	CH065	35.6572	79.4507	7.3	106	1.1	-1	M	58800	-20	61900	1050	5800	38.8	5700	250	M	1.5	15	4	M	0.5	
1109	CH066	35.6713	79.4214	7.6	69	1.0	M	M	63300	M	M	1580	8200	18.9	M	190	M	M	M	M	M	M	
1110	CH067	35.6365	79.3550	7.5	62	1.8	2	8	40200	25	33500	550	5300	7.4	6400	90	M	-1.0	12	2	M	0.2	
1111	CH068	35.6627	79.3219	7.5	55	1.2	-1	4	49300	24	56000	1730	M	18.0	4700	100	M	5.9	14	M	M	-0.2	
1112	CH069	35.6316	79.3105	7.2	98	0.8	-2	3	67000	41	68200	1490	15600	19.5	5700	150	M	-1.1	12	3	M	-0.3	
1113	CH070	35.6403	79.2923	7.4	79	1.5	-3	3	44100	-23	37900	670	8500	9.1	6100	80	M	M	10	3	3.4	-0.2	
1114	CH071	35.6208	79.2658	7.4	110	1.5	5	3	57600	37	48400	1160	7200	13.2	5900	130	M	-1.0	12	2	M	0.5	
1115	CH072	35.6920	79.4747	7.6	80	1.4	M	M	41800	M	M	650	4800	M	8300	140	M	M	M	M	M	M	
1116	CH073	35.6932	79.4989	7.6	62	1.2	-1	3	38600	14	41000	700	5900	7.5	3100	90	M	-1.0	8	2	M	0.2	
1117	CH074	35.7234	79.4995	7.5	78	1.4	2	6	36900	20	16700	330	9700	7.1	3600	50	M	-1.0	10	1	M	M	
1118	CH075	35.7127	79.5281	7.2	50	1.8	4	9	45300	18	48200	1020	8100	8.6	M	110	M	-1.9	10	2	M	-0.4	
1119	CH076	35.7467	79.5459	7.3	60	2.3	-1	18	47300	26	30400	790	9100	7.2	4400	70	M	M	13	3	M	0.6	0.196
1120	CH077	35.7964	79.5253	6.8	61	2.0	M	M	49100	M	M	670	9600	M	4100	80	M	M	M	M	M	M	
1121	CH078	35.7977	79.4963	7.1	85	1.6	-1	3	73800	29	53000	1670	15600	10.7	8600	180	M	-1.0	16	3	M	0.2	
1122	CH079	35.8223	79.5128	7.2	88	2.0	3	16	46200	45	41300	1540	8500	13.3	13800	130	M	-1.0	12	3	M	0.4	
1123	CH080	35.8205	79.4859	7.4	80	2.1	-1	14	41700	26	32000	1660	10800	6.4	9900	120	M	M	13	2	5.9	0.3	0.055
1124	CH081	35.8140	79.4555	7.4	60	2.2	3	16	36600	-20	21600	940	7500	6.7	5200	50	1.7	-2.0	10	2	2.2	M	
1125	CH082	35.7676	79.4774	7.4	80	1.9	M	M	46200	M	M	1060	6500	7.5	5500	80	M	M	M	M	M	M	
1126	CH083	35.7386	79.4370	7.3	120	1.5	3	7	48300	61	58900	1110	15800	10.9	5600	140	M	1.5	14	3	3.4	0.2	
1127	CH084	35.8213	79.4329	6.7	62	3.3	-1	38	47800	11	13500	690	17200	5.4	6300	50	M	1.1	8	1	2.4	-0.3	
1128	CH085	35.7976	79.4206	7.1	110	1.9	-1	16	35300	-20	26600	660	13200	10.1	M	70	M	1.8	6	1	M	0.4	
1129	CH086	35.7633	79.4294	7.1	80	1.8	-2	4	56800	37	60300	1190	13200	12.5	7300	120	M	M	15	2	2.0	0.8	
1130	CH087	35.6976	79.4043	7.2	92	0.8	-4	M	65100	26	65300	2460	7300	31.1	7700	300	M	M	12	3	M	-0.7	
1131	CH088	35.6910	79.3742	7.4	85	1.1	4	4	68300	61	71700	2080	4100	26.8	5600	250	6.5	-1.0	16	4	M	0.3	
1132	CH089	35.7280	79.1827	7.8	125	0.8	4	3	48600	-23	46700	1500	8800	18.1	5800	210	3.6	M	9	3	M	0.4	
1133	CH090	35.7227	79.2069	7.7	70	0.7	-1	2	34800	-20	28900	580	9400	10.0	3800	80	2.1	-1.0	8	3	M	0.4	0.025
1134	CH091	35.7073	79.2428	7.6	60	2.4	5	8	69700	32	40400	740	1500	9.0	8100	160	M	-1.0	9	1	1.3	0.3	
1135	CH092	35.6913	79.2674	7.6	62	0.7	-1	6	39600	-20	17200	330	13200	8.1	3600	70	M	-1.0	7	M	M	M	

CHAPEL HILL 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
1136	CH093	35.6881	79.3176	7.6	50	1.0	-3	4	52400	60	61200	2640	11400	15.0	9600	210	M	M	14	3	M	0.4	
1137	CH094	35.7173	79.3357	7.7	65	1.0	M	3	56700	58	63100	2170	4600	21.6	6000	200	M	-1.0	12	4	M	0.7	
1138	CH095	35.7451	79.3610	7.5	80	1.5	3	6	53700	49	63500	1430	4400	14.7	7500	170	M	-1.0	12	3	M	0.1	
1139	CH096	35.7252	79.3171	7.5	110	1.0	-2	2	53900	23	50900	2190	5900	19.3	M	220	M	-1.0	11	3	2.3	0.3	
1140	CH097	35.7327	79.2971	7.4	100	1.0	-2	3	56900	-20	73600	2800	7000	19.4	4500	180	M	2.5	11	4	4.2	0.2	
1141	CH098	35.7413	79.2740	7.7	85	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
1142	CH099	35.7676	79.2058	7.6	50	1.5	4	M	43500	52	44800	2190	5600	13.1	4900	80	M	-1.0	16	3	M	0.2	
1143	CH100	35.7675	79.1788	7.5	70	1.1	M	1	42400	-35	46500	3160	7800	12.2	8100	150	M	M	15	M	2.3	-0.2	
1144	CH101	35.8104	79.1055	6.6	61	3.4	4	28	M	26	9000	M	14000	3.0	M	30	M	-1.0	12	2	4.5	0.5	
1145	CH102	35.8338	79.1457	6.7	45	5.5	9	89	50500	25	30300	1990	14600	5.8	11300	70	M	M	13	2	8.1	1.3	
1146	CH103	35.8035	79.1542	6.7	47	3.9	5	72	35100	11	16600	2630	16800	3.6	13200	40	M	-1.0	9	2	6.7	0.9	
1147	CH104	35.8281	79.1866	6.9	80	4.2	15	46	45500	54	54900	3360	11400	9.0	22100	120	M	1.6	16	3	1.8	0.6	
1148	CH105	35.8455	79.1829	6.9	81	3.4	M	52	33500	M	M	2730	7100	6.0	23200	200	M	M	M	M	M	M	
1149	CH106	35.8513	79.1921	7.1	85	2.3	4	12	51900	42	54800	2430	16800	7.8	13500	220	M	-1.0	14	3	M	0.3	
1150	CH107	35.8531	79.2325	7.2	69	2.2	2	13	36700	21	26400	1330	11500	4.8	7200	70	M	M	10	2	2.2	0.3	
1151	CH108	35.8149	79.2416	7.1	70	2.1	M	22	41500	M	M	680	15900	4.8	4300	80	M	M	M	M	M	M	
1152	CH109	35.7952	79.2418	7.0	90	2.2	3	5	60400	38	56600	M	8700	14.9	M	120	M	M	20	4	M	0.3	
1153	CH110	35.7887	79.2799	6.9	58	1.9	4	11	42800	28	21000	M	21800	8.7	M	90	M	-1.0	10	2	2.0	0.2	
1154	CH111	35.7641	79.3208	7.2	82	2.2	-2	11	45500	-20	41500	1500	10100	9.1	8100	110	M	M	14	4	M	0.2	
1155	CH112	35.7909	79.3393	7.4	65	1.5	3	12	36300	-20	24000	710	8100	11.8	4000	60	M	1.5	11	2	M	0.2	
1156	CH113	35.7921	79.3655	7.2	145	1.3	2	M	61800	53	54000	1160	8800	16.7	4500	120	M	M	14	3	2.6	0.2	
1157	CH114	35.8189	79.3416	7.3	120	1.4	-1	4	42700	25	29200	620	8700	8.2	4100	80	7.4	-1.0	11	2	1.9	0.2	
1158	CH115	35.8405	79.3249	7.5	80	1.4	-2	M	47000	-20	19100	370	14300	8.0	2500	70	M	-1.7	10	2	M	0.2	
1159	CH116	35.8329	79.3824	7.3	85	2.8	4	9	41400	26	25300	410	7400	7.6	3900	60	M	1.8	11	3	M	0.3	
1160	CH117	35.7718	79.3822	7.3	70	2.4	-3	5	58800	49	67500	2460	6300	17.5	6900	210	M	M	16	3	M	-0.4	
2526	GU001	35.9201	79.7959	6.8	135	1.0	8	15	35000	-26	48700	1360	M	7.2	8900	250	35.8	2.6	M	M	M	M	
2527	GU002	35.9664	79.8133	7.3	118	1.4	-4	42	15800	27	29700	970	1400	3.4	9200	120	1.5	1.6	M	M	M	M	
2528	GU003	35.9700	79.8651	7.3	175	0.8	-7	23	44700	36	32400	400	M	8.4	M	M	M	1.5	M	M	M	M	
2529	GU004	35.9600	79.9073	7.3	275	2.2	-4	28	42400	58	55900	960	M	10.4	11000	290	M	0.7	M	M	M	M	
2530	GU005	35.9531	79.8872	7.5	165	0.9	-6	5	42600	59	31900	600	M	6.3	14000	270	M	-1.0	M	M	M	M	
2531	GU006	35.9216	79.8554	7.4	120	1.1	5	53	38600	-20	48700	1350	14300	8.9	26800	270	1.3	0.7	M	M	M	M	
2532	GU007	35.9180	79.8667	7.3	169	0.6	8	25	37800	-26	22300	370	M	4.8	2700	270	M	1.6	M	M	M	M	
2533	GU008	35.9408	79.9033	7.1	780	0.9	-4	10	38200	28	24500	370	12700	6.8	M	240	1.2	-1.0	M	M	M	M	
2534	GU009	35.9914	79.8498	7.2	185	2.0	11	60	38600	-26	58200	1100	M	12.5	7300	290	M	1.6	M	M	M	M	
2535	GU010	35.9839	79.8933	7.3	191	1.0	-4	9	37600	-20	49800	930	16300	7.6	10700	330	M	1.2	M	M	M	M	
2536	GU011	35.9430	79.9766	7.4	235	3.8	-6	66	36400	49	55800	1010	M	9.3	9100	330	1.3	3.1	M	M	M	M	

CHAPEL HILL 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	Au
					um/cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
2537	GU012	35.9775	79.9536	7.5	150	1.2	-3	12	53000	45	44800	1010	M	11.9	6700	160	1.9	1.2	12	M	M	M	
2539	GU014	35.9953	79.9768	7.6	195	0.8	5	5	50600	-20	26600	540	M	9.2	6400	110	M	-1.0	8	M	M	-0.2	
2559	GU034	35.9826	79.6570	7.4	125	0.6	-2	3	56200	-20	21500	470	M	8.3	4300	110	M	-1.3	11	M	M	M	
2560	GU035	35.9679	79.5812	7.8	105	1.3	-2	19	40300	-20	29600	830	15900	9.7	7600	110	1.7	4.0	10	4	M	M	
2561	GU036	35.9547	79.5862	7.3	93	2.0	11	62	34800	166	25600	570	14700	6.8	5200	60	3.1	-1.0	81	12	3.9	0.6	
2562	GU037	35.9514	79.5575	7.3	100	1.3	9	66	39300	55	6500	430	14100	8.0	1900	80	2.8	-1.0	32	6	M	0.5	
2563	GU038	35.9303	79.5616	7.4	102	1.8	21	29	51800	167	42500	1050	13900	14.2	2900	100	3.3	2.4	99	16	5.1	-0.2	0.062
2564	GU039	35.9093	79.5537	7.2	82	1.4	-2	21	48600	28	57500	1910	10400	16.9	14100	170	3.1	1.1	11	5	M	0.6	
2565	GU040	35.9216	79.6184	7.2	86	1.7	15	53	25800	118	19900	470	14200	6.7	3400	30	3.0	-1.0	77	12	2.7	M	
2566	GU041	35.9399	79.6065	7.4	70	1.1	15	20	26900	95	9500	460	11700	5.6	3400	40	2.8	-1.0	43	8	2.6	-0.2	
2567	GU042	35.9388	79.6672	7.3	92	1.6	6	22	29200	44	23100	980	10100	10.4	6400	60	1.4	1.7	17	3	3.2	0.5	
2568	GU043	35.9574	79.7140	7.3	160	0.6	-2	7	39200	-20	26600	1230	10700	16.4	5100	100	1.6	3.5	9	2	M	-0.2	
3454	LE001	35.5940	79.0902	M	M	1.9	M	M	16400	M	M	130	2200	M	6800	30	2.1	M	M	M	M	M	
3455	LE002	35.5817	79.0655	M	M	1.5	-2	8	16200	-41	7700	220	3100	1.8	4000	30	2.8	M	12	3	M	-0.2	
3456	LE003	35.5670	79.0872	M	M	1.2	2	9	26700	48	18000	340	6500	5.0	3200	50	M	M	7	2	M	0.3	
3457	LE004	35.5542	79.0909	M	M	2.3	10	15	35800	-20	17700	700	10500	7.4	10400	80	3.5	2.3	13	5	M	0.5	
3458	LE005	35.5742	79.1236	6.9	80	2.5	10	14	24900	53	17800	180	1800	7.5	9500	40	6.0	-1.0	14	4	4.3	0.6	
3459	LE006	35.5576	79.1508	7.3	280	2.0	5	16	27200	-20	21700	250	5000	4.5	6400	40	5.6	-1.0	14	3	3.1	0.3	
3460	LE007	35.5561	79.1878	6.9	220	2.0	11	6	60300	71	29600	310	3700	10.9	4700	80	6.3	-1.1	24	3	M	0.9	
3461	LE008	35.5418	79.2286	7.0	210	3.1	9	30	17500	35	12600	210	4500	5.1	9900	30	4.3	2.2	18	4	2.6	0.6	
3462	LE009	35.5318	79.1722	7.1	340	7.1	32	46	17700	145	7900	140	4200	5.0	8100	30	6.1	M	64	9	3.9	0.6	
3463	LE010	35.5145	79.1219	M	M	1.7	-3	9	28600	-20	26100	300	6100	6.3	7300	50	4.7	-1.0	17	3	M	0.3	
3464	LE011	35.5228	79.0918	7.2	70	1.6	2	11	35000	60	21900	1030	9300	9.5	3900	70	M	1.7	13	3	3.2	0.4	
3465	LE012	35.5495	79.0504	6.6	110	1.3	-1	6	43700	-20	24600	1240	20900	13.3	6500	130	7.3	-1.0	9	2	M	0.4	
3466	LE013	35.5450	79.0306	7.0	35	2.2	6	7	53900	56	33700	460	6200	12.3	4600	80	6.3	1.0	22	3	3.5	0.7	
3467	LE014	35.5284	79.0472	M	M	1.1	-1	5	40900	-20	26500	680	13800	9.0	4100	90	4.8	-1.0	10	3	M	0.2	
3475	LE022	35.5116	79.2023	6.9	110	1.9	6	14	26200	41	21500	310	4300	6.0	4900	40	4.1	-1.0	15	3	1.7	0.3	
3476	LE023	35.5230	79.2493	M	M	2.2	7	8	26200	10	15300	180	6100	4.6	M	30	3.9	1.2	15	2	2.4	0.2	
3479	LE026	35.5054	79.2899	M	M	2.5	8	18	16400	45	13400	160	3300	4.5	4700	20	5.9	M	19	4	2.4	0.5	
3480	LE027	35.5149	79.3190	6.9	80	2.3	7	15	32400	34	20000	220	8100	4.4	7100	50	7.3	-1.0	16	3	1.8	0.7	
3498	LE045	35.5688	79.1894	7.3	141	1.3	-4	6	36600	-34	32200	520	6700	11.8	6400	90	M	M	14	2	M	-0.2	
3949	MG014	35.5105	79.7940	6.7	51	4.7	6	14	38900	-20	19500	670	12300	11.5	5000	60	M	-1.0	9	3	M	0.3	
3963	MG028	35.5020	79.9341	6.7	60	1.7	10	14	31400	37	25200	620	6400	20.8	3200	90	4.2	-1.0	10	3	8.9	0.6	
4106	MO081	35.5016	79.5375	6.4	139	1.2	3	3	63700	32	42100	740	19000	9.9	4500	130	M	1.5	11	3	M	0.5	
4107	MO082	35.5006	79.5719	6.8	100	1.1	4	4	56500	-20	38600	740	13900	10.1	4100	120	M	2.6	8	2	M	0.1	
4493	OR045	35.9629	79.0316	M	M	3.3	M	17	41600	M	M	490	7000	7.0	4500	70	M	M	M	4	M	M	

CHAPEL HILL 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
4494	OR046	35.9448	79.0796	7.2	75	3.4	2	21	33500	46	23100	1100	5600	6.1	11600	90	M	-1.0	8	1	M	0.3	
4495	OR047	35.9719	79.1723	M	M	1.6	-1	4	30900	-20	18300	290	3900	5.1	5100	60	3.2	-1.0	11	3	M	M	
4496	OR048	35.9644	79.1310	7.3	80	2.5	3	14	37400	-20	54400	850	5600	8.7	9800	140	M	1.9	13	2	M	0.3	
4497	OR049	35.9250	79.1095	7.6	110	1.8	-2	8	47700	-20	29600	920	13300	9.1	5700	100	M	-1.0	9	M	M	M	
4498	OR050	35.9069	79.1100	7.9	165	2.0	-1	9	38400	-20	20900	920	12400	4.7	8000	60	M	-1.3	5	1	M	0.2	
4499	OR051	35.8921	79.1289	7.2	105	1.7	3	5	40900	-49	36500	1180	13100	8.4	10800	80	M	-1.4	8	2	M	-0.3	
4500	OR052	35.8739	79.1109	7.4	68	4.0	12	54	42900	45	23200	2010	12900	5.3	11500	50	3.6	-1.1	18	3	6.0	0.8	
4501	OR053	35.8761	79.0911	7.4	70	3.3	12	26	46400	35	25700	1900	11300	4.1	6500	40	M	-1.0	20	3	M	0.5	
4502	OR054	35.9398	79.0184	7.3	135	2.4	4	16	40600	42	23400	870	11500	3.1	7000	70	M	M	11	1	6.2	-0.3	
4503	OR055	35.8960	79.2339	6.9	70	2.3	2	14	41000	-23	31800	1330	15500	6.3	8400	60	M	-1.0	8	1	4.2	0.5	
4504	OR056	35.9256	79.1947	6.9	70	2.5	5	18	31500	-21	14000	920	9400	4.9	7300	40	M	-1.9	7	M	M	-0.2	
4505	OR057	35.9350	79.2594	7.2	120	4.0	7	23	42300	32	35100	1180	9000	7.2	8400	70	M	-1.0	14	4	4.1	0.3	
4506	OR058	35.9927	79.2459	7.1	75	1.4	-3	4	39600	-25	25700	960	10500	8.4	5100	80	5.3	M	9	3	3.5	0.3	
4509	OR061	35.9920	79.2118	7.0	40	1.8	-2	6	43500	-20	34400	1170	6700	11.7	8700	120	M	M	9	3	M	-0.2	
4838	RA001	35.5681	79.5539	7.2	81	1.3	3	7	43600	-20	44600	670	15500	14.5	2500	80	1.9	5.0	12	4	3.7	M	
4839	RA002	35.5557	79.5719	7.1	82	1.6	5	8	44900	-20	29100	960	14800	12.2	2700	60	1.7	1.8	11	2	M	-0.2	
4840	RA003	35.5644	79.6090	7.3	85	1.4	6	3	44300	-20	27200	520	21700	9.7	2500	40	2.5	-1.0	14	3	2.2	0.4	
4841	RA004	35.5913	79.6273	7.6	70	1.4	-3	3	35300	-20	44500	510	11200	14.0	2200	60	M	-1.0	12	M	M	-0.2	
4842	RA005	35.5424	79.6433	7.5	95	1.3	4	6	46900	44	35400	710	19300	13.0	3600	60	2.2	3.1	17	6	2.1	-0.2	
4843	RA006	35.5233	79.6499	7.6	70	1.1	-3	5	43500	30	11300	460	14600	10.2	3000	70	2.0	-1.0	8	1	1.4	-0.2	
4844	RA007	35.5295	79.6806	7.6	75	1.6	4	13	49400	68	23300	690	17500	12.3	2700	70	3.1	-1.0	13	5	3.6	0.3	
4845	RA008	35.5337	79.7402	7.5	61	1.4	-1	8	44800	-20	21600	440	4700	14.2	2700	90	M	-1.0	10	M	3.6	-0.2	
4846	RA009	35.5622	79.7004	7.6	60	1.3	-2	5	31000	36	17000	650	8700	9.2	6400	50	M	1.3	11	3	1.8	0.2	
4847	RA010	35.5693	79.6856	7.7	65	1.2	-3	5	31500	-20	6000	550	8300	9.6	3100	40	1.0	-1.0	8	M	2.5	0.2	0.065
4848	RA011	35.5971	79.7038	7.8	50	1.9	6	22	35800	-20	23500	930	10500	12.5	4600	70	2.5	-1.0	18	5	2.8	0.6	
4849	RA012	35.6014	79.6846	7.4	60	1.1	-3	4	45700	-20	16200	520	13900	14.9	3700	50	M	-1.0	9	M	M	-0.2	0.076
4850	RA013	35.6219	79.6546	7.5	49	1.6	6	8	40500	47	28000	760	6900	10.9	3500	70	1.6	-1.0	14	4	1.9	0.5	
4851	RA014	35.6506	79.6292	7.7	60	1.8	-3	23	37400	-20	16900	690	9500	8.0	4400	70	2.4	-1.0	11	2	4.0	-0.2	
4852	RA015	35.6760	79.6449	7.8	51	2.3	8	25	44200	62	45400	690	4800	10.3	4700	100	1.5	2.0	14	5	4.6	0.8	
4853	RA016	35.6736	79.6114	7.7	75	2.3	5	17	48800	-20	24300	890	7800	14.5	3700	100	2.9	5.3	12	M	2.5	0.6	
4854	RA017	35.6537	79.6035	7.5	100	1.2	M	2	35000	-20	48800	730	5600	18.6	2700	80	2.3	-1.0	13	4	M	0.3	
4855	RA018	35.6331	79.5560	7.6	60	1.3	-3	3	42700	-20	36200	660	14900	19.1	2100	100	3.8	2.2	12	M	1.6	-0.2	
4856	RA019	35.6001	79.5637	7.7	110	1.2	-2	5	41900	26	42200	700	13200	17.5	2000	100	1.9	2.8	14	5	2.2	-0.2	0.067
4857	RA020	35.5242	79.7606	7.0	290	1.9	6	14	37800	-20	16500	340	5400	10.6	4500	60	1.5	-1.0	8	1	M	-0.2	
4858	RA021	35.5099	79.7906	7.3	50	1.6	7	5	32400	48	62100	420	11600	13.0	2400	50	M	-1.7	12	4	M	0.3	
4859	RA022	35.5368	79.8299	7.0	41	1.2	-3	10	35000	-20	24200	320	4400	8.2	2600	40	M	-1.0	9	M	M	-0.2	

CHAPEL HILL 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	Au
					um/cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
4860	RA023	35.5564	79.8029	6.8	49	1.5	7	9	31600	24	18000	530	7600	6.5	2700	30	1.5	-1.2	11	4	?.8	0.3	
4861	RA024	35.5570	79.8345	6.8	45	1.3	-2	14	29500	55	11200	500	6500	6.4	2500	40	2.7	-1.0	10	3	3.5	-0.2	
4862	RA025	35.6211	79.8352	6.4	45	0.9	M	8	19400	15	13200	410	5100	4.8	1800	40	1.4	-1.0	6	2	5.1	0.3	
4863	RA026	35.6439	79.8438	7.0	80	1.0	M	5	30300	-20	18400	640	7400	9.6	2500	50	1.5	-1.0	9	M	M	M	
4864	RA027	35.6133	79.8649	6.7	44	1.3	-2	7	44300	20	38300	1190	9600	15.1	4300	120	M	-1.0	12	4	4.0	0.3	
4865	RA028	35.5493	79.9034	6.9	50	1.4	-3	15	29000	-20	11300	750	7400	11.1	3800	50	1.5	2.0	12	2	1.7	-0.2	
4866	RA029	35.5358	79.8859	6.6	45	1.6	7	3	29100	83	57800	1470	2500	28.3	6900	120	2.8	1.7	23	7	3.5	0.8	0.076
4867	RA030	35.5210	79.8575	7.0	45	1.3	-3	8	30800	32	21400	260	2900	11.0	3600	40	M	-1.0	10	1	3.1	0.3	
4868	RA031	35.5097	79.9031	6.9	39	2.3	12	23	26300	86	22900	320	3400	8.5	1400	50	2.1	-1.0	23	5	4.2	0.7	
4869	RA032	35.5109	79.9393	7.0	44	1.5	5	3	40100	31	36200	430	1900	19.1	2500	80	1.2	-1.0	9	1	4.1	0.4	
4870	RA033	35.5647	79.9293	7.4	40	2.1	8	11	46500	31	39000	790	1900	11.4	3700	50	M	3.5	13	4	3.2	0.5	
4871	RA034	35.5804	79.9256	7.3	45	1.3	-3	5	40000	46	19900	920	6200	10.1	5400	80	M	-1.0	12	3	3.5	0.3	
4872	RA035	35.5887	79.9577	7.0	51	1.4	4	6	46000	47	71900	4280	5000	18.1	31300	120	1.2	-1.0	14	4	2.0	0.4	
4873	RA036	35.6676	79.8799	7.3	74	1.2	-3	5	32700	35	31000	620	8800	21.1	1800	80	1.8	2.6	13	M	2.2	-0.2	
4874	RA037	35.6425	79.8972	7.6	40	1.0	-2	4	49000	36	39200	1170	7300	21.5	4100	150	1.8	-1.0	13	5	3.2	0.4	0.041
4875	RA038	35.6389	79.9134	7.6	50	0.9	-2	4	47700	55	24900	1000	4900	21.8	2800	150	M	-1.0	10	M	M	M	
4876	RA039	35.6393	79.9422	7.5	50	1.8	-2	2	27900	118	77100	910	2800	19.9	4700	60	2.3	2.8	27	9	4.8	-0.2	
4877	RA040	35.6118	79.9859	7.7	62	1.9	7	3	12400	-20	79500	1440	1100	40.1	9900	60	M	4.0	13	3	3.6	-0.2	
4878	RA041	35.5647	79.9830	7.6	51	2.3	-2	5	26800	75	69200	980	1300	21.9	3100	70	2.8	4.4	31	8	4.4	0.6	
4879	RA042	35.5326	79.9695	7.6	36	1.2	-2	5	31600	-20	12600	730	3300	10.2	2300	50	M	-1.0	8	1	M	-0.2	
4887	RA050	35.6443	79.9882	7.6	64	1.8	5	4	26500	55	74700	2580	1300	14.3	15600	70	6.5	1.8	23	4	1.8	0.4	
4888	RA051	35.6707	79.9918	7.6	60	1.3	-2	3	28200	77	87500	2290	2600	25.2	15700	120	2.8	-1.0	18	6	2.2	0.5	
4891	RA054	35.7291	79.9845	7.7	79	1.4	-3	2	27500	-20	59800	1710	2000	34.4	11700	100	4.7	1.5	17	M	M	-0.2	
4895	RA058	35.8474	79.9977	7.9	68	1.3	6	12	23500	-20	59600	650	8800	24.9	3200	80	M	1.8	15	4	2.0	-0.2	
4899	RA062	35.9010	79.9109	7.7	83	0.8	-3	19	49900	-20	30800	940	9600	12.4	3400	80	M	4.2	9	3	M	-0.2	
4900	RA063	35.8857	79.9143	7.4	100	0.8	-2	22	43500	-20	22700	810	11200	11.5	6600	90	M	-1.0	5	4	3.3	-0.2	
4901	RA064	35.8585	79.8957	7.5	88	1.0	-3	35	39200	-20	58700	2760	11300	14.4	25400	140	3.8	-1.0	9	2	2.3	0.4	
4902	RA065	35.7976	79.8943	7.8	90	2.5	5	20	110800	58	96700	3560	11100	51.7	15300	270	0.9	-1.1	24	9	M	M	
4903	RA066	35.6779	79.8965	7.9	65	1.2	-3	3	51100	-20	44500	2020	4000	24.5	10700	120	2.6	-1.0	15	M	M	-0.2	
4904	RA067	35.6657	79.9248	6.8	79	3.0	-1	11	126000	64	143800	11350	18100	51.4	47200	520	0.6	-1.2	36	10	8.9	1.2	0.101
4905	RA068	35.7145	79.9298	8.0	60	1.3	5	6	49900	-20	74400	7960	5000	20.7	62200	180	4.6	-1.0	12	3	5.8	M	0.071
4906	RA069	35.7038	79.8941	7.9	61	1.5	8	M	45300	74	57900	930	3800	18.8	5600	100	3.3	-1.0	41	10	4.4	0.8	
4907	RA070	35.7263	79.8731	7.8	59	1.5	6	2	37100	-20	65000	2670	5300	17.3	16800	70	3.7	1.8	17	M	4.0	M	
4908	RA071	35.7460	79.9298	7.8	61	1.0	-2	5	45200	44	46300	1820	6200	14.6	9700	120	5.5	-1.0	18	6	2.6	0.5	0.079
4909	RA072	35.7730	79.9520	7.8	55	1.5	6	4	45300	32	54400	2030	2800	20.1	9800	120	2.4	-1.0	13	3	M	-0.2	
4910	RA073	35.7733	79.9863	7.8	70	4.7	15	7	164300	-28	154200	7690	7900	42.0	27500	270	M	-1.6	36	10	M	0.7	

CHAPEL HILL 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
4911	RA074	35.8060	79.9559	7.9	68	1.0	-3	M	36600	50	52200	1750	3800	18.9	8300	120	3.2	-1.0	12	3	M	1.0	
4912	RA075	35.8050	79.9971	7.8	66	1.2	-2	16	45900	64	65200	1630	12900	22.7	11000	140	2.5	M	27	6	3.3	0.7	
4913	RA076	35.8322	79.9288	7.7	79	2.4	8	15	105300	77	109600	4600	20200	24.6	25600	390	M	-1.3	31	9	6.3	M	
4914	RA077	35.8501	79.9506	7.7	69	0.6	-2	14	46400	-20	37700	960	15100	13.3	4600	100	3.2	2.0	8	3	3.4	0.6	
4915	RA078	35.8673	79.9623	7.8	75	0.5	-3	7	47400	-20	28800	900	19000	12.2	4300	100	M	1.7	7	1	2.2	-0.2	
4916	RA079	35.7952	79.9304	7.7	80	0.7	-2	2	33100	30	38600	1360	2800	20.3	9000	130	2.3	-1.0	12	5	3.1	0.2	
4917	RA080	35.8124	79.8983	7.8	70	0.9	5	8	48200	-20	38100	1850	8900	17.0	10000	160	6.6	-1.0	10	4	1.8	0.5	
4918	RA081	35.8526	79.8565	7.7	80	2.1	7	33	87800	70	91300	5250	19800	23.2	41100	350	1.2	1.9	13	7	M	0.7	
4919	RA082	35.8919	79.8405	7.9	78	0.7	-3	8	64600	28	43400	3100	59400	17.1	12000	170	3.0	3.5	13	2	M	-0.2	
4920	RA083	35.8842	79.8337	7.7	70	1.0	-2	9	47700	71	51100	2090	20800	18.0	11100	150	3.4	-1.0	18	7	2.3	0.7	
4921	RA084	35.8286	79.8269	7.6	95	1.1	-3	2	35300	-20	66500	980	6000	35.3	3400	110	M	2.4	14	M	5.1	0.5	
4922	RA085	35.7864	79.8465	7.7	65	1.2	4	2	55500	35	55700	3340	9900	23.6	20300	170	5.0	-1.0	15	5	M	0.6	
4923	RA086	35.7718	79.8414	7.8	60	3.9	13	18	157400	-30	119000	5770	10000	34.0	30400	340	M	-2.0	35	10	9.6	0.8	
4924	RA087	35.7654	79.8710	7.7	58	4.7	-2	25	129400	69	91500	2850	3900	49.7	19200	180	1.1	-2.0	21	6	M	-0.2	
4925	RA088	35.7790	79.7830	7.8	50	2.9	-1	11	190500	105	165800	3450	14400	43.9	12700	300	M	-1.0	38	10	6.3	0.9	
4926	RA089	35.8101	79.7734	7.7	59	3.5	-1	19	57000	-20	56700	1720	11700	39.2	6000	160	1.3	9.4	16	6	4.4	M	
4927	RA090	35.8323	79.8055	7.8	65	3.4	13	16	143700	32	121900	6480	21000	31.9	12200	290	M	-1.0	32	9	M	0.9	
4928	RA091	35.8540	79.8071	7.8	48	3.7	16	14	99500	-22	170900	10780	11100	35.8	76700	330	M	-1.0	21	11	M	M	
4929	RA092	35.8936	79.7852	7.7	59	4.7	17	116	101600	117	171400	9070	21200	29.1	52900	380	M	-1.7	50	14	8.6	1.7	
4930	RA093	35.8917	79.7300	7.9	70	2.9	8	18	153600	61	167300	6230	17000	62.9	27500	770	2.2	-1.8	33	11	7.6	1.4	
4931	RA094	35.8823	79.7177	7.9	50	4.4	9	58	94400	-20	59000	2120	38800	10.4	8200	120	1.3	-1.0	M	M	32.5	-0.2	
4932	RA095	35.8521	79.7794	7.7	52	3.3	9	11	187600	65	93900	980	10300	65.6	5900	190	1.9	-1.0	33	10	5.2	0.7	
4933	RA096	35.8348	79.7637	7.8	36	2.3	-1	14	92700	35	66500	2160	20500	31.4	8800	220	0.6	-1.0	17	6	M	0.4	
4934	RA097	35.8138	79.7029	7.4	50	2.4	-3	22	75400	M	54800	1570	19200	16.9	4600	160	13.6	10.6	17	6	M	-0.2	
4935	RA098	35.6063	79.5871	7.6	135	4.2	19	23	138400	-20	80800	2390	55300	20.8	6900	170	M	M	44	9	M	0.9	
4936	RA099	35.6315	79.6877	7.7	40	4.1	M	16	138400	56	66800	2220	14700	38.9	M	190	M	-1.0	22	7	7.1	M	
4937	RA100	35.6270	79.7277	7.7	45	3.8	18	16	90300	64	57200	1430	23100	13.6	13800	120	0.6	-1.1	24	19	M	M	
4938	RA101	35.5692	79.7568	7.6	42	5.9	13	34	129500	-69	-6400	2010	33200	38.1	13400	170	M	-1.1	M	M	M	-0.2	
4939	RA102	35.6023	79.7507	7.7	45	4.9	24	30	98100	-32	33900	3020	29800	17.9	6000	70	M	-1.0	24	5	M	1.0	7.496
4940	RA103	35.6088	79.7860	7.6	38	4.1	12	10	146800	-48	88100	1160	10600	19.1	10500	160	M	-1.0	M	8	M	M	
4941	RA104	35.6290	79.8075	7.7	45	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
4942	RA105	35.6533	79.7884	7.5	60	23.5	9	21	160900	151	97700	2040	28100	59.2	6800	420	0.7	-1.7	46	10	M	1.1	
4943	RA106	35.6606	79.7507	7.5	55	5.1	8	30	121000	31	57800	2100	24600	36.6	13500	230	0.4	-1.0	25	5	M	0.4	
4944	RA107	35.6577	79.7218	7.4	50	5.5	8	28	154500	-20	81900	2860	42300	46.0	19900	380	M	-1.0	22	7	M	1.0	
4945	RA108	35.6784	79.7500	7.7	60	3.2	12	15	122400	99	78800	2010	29200	31.7	11100	470	0.6	4.7	31	9	M	0.8	
4946	RA109	35.6864	79.6792	7.6	50	6.6	-1	49	123700	82	72500	1860	21300	51.6	18200	370	1.4	-1.2	21	7	M	0.7	

CHAPEL HILL 100K QUADRANGLE - STREAM SEDIMENT

Lab #	County ID	Lat	Long	pH	Cond us/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
4947	RA110	35.7044	79.6845	7.6	49	3.9	7	27	96900	-20	58500	1450	25100	24.4	9500	200	M	-1.4	12	6	M	0.6	
4948	RA111	35.7254	79.6904	7.5	69	5.7	10	22	144100	81	96900	3550	29900	46.5	6400	230	M	-1.0	32	7	M	M	
4949	RA112	35.6930	79.7200	7.9	59	4.0	16	35	85100	-89	-5000	1060	13700	18.9	11700	190	M	-1.0	M	M	M	-0.2	
4950	RA113	35.7044	79.7298	7.7	55	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
4951	RA114	35.7170	79.7579	7.8	67	3.0	16	3	173700	140	186300	3780	21500	60.9	9100	630	1.8	-1.6	32	11	M	0.6	
4952	RA115	35.7377	79.7637	7.7	60	2.8	-2	15	174100	-26	113100	3040	16000	97.7	M	810	1.5	4.0	26	11	M	1.0	
4953	RA116	35.7882	79.7650	7.6	70	3.2	19	23	125600	-27	127300	2010	13600	30.5	8800	300	M	7.5	34	7	M	1.1	
4954	RA117	35.7936	79.7273	7.6	62	9.5	18	15	138300	93	126000	3220	22600	68.2	9000	440	0.8	-1.0	34	10	M	1.3	
4955	RA118	35.7814	79.7245	7.6	62	2.0	-2	28	97600	-32	63000	2260	26800	38.4	9300	320	M	-1.0	M	M	M	M	
4956	RA119	35.7664	79.6779	7.8	80	3.5	5	9	96700	43	71700	1200	13800	40.9	8100	220	M	-1.0	20	6	M	0.5	
4957	RA120	35.7533	79.6406	7.8	68	5.0	10	29	104800	91	81500	990	28300	26.4	7900	160	1.6	-1.0	20	3	M	0.8	
4958	RA121	35.7258	79.6715	7.6	51	4.6	8	14	155500	56	99500	2160	30400	43.7	16200	280	1.2	-1.0	42	7	5.7	0.6	
4959	RA122	35.7053	79.5989	7.5	82	5.3	9	73	111500	52	43300	1960	36400	10.5	10900	190	16.5	-1.4	31	8	6.2	1.1	
4960	RA123	35.7018	79.5528	7.7	67	5.4	7	23	133600	73	101400	3920	27400	26.5	M	310	0.9	2.2	40	7	M	0.8	
4961	RA124	35.6838	79.5594	7.7	72	2.7	25	9	180700	127	160300	3940	25400	43.8	9500	560	M	-1.3	29	8	9.7	M	
4962	RA125	35.7203	79.5981	7.9	65	8.3	14	108	111400	50	46500	2080	27000	31.2	14100	150	M	-1.0	30	7	M	1.2	
4963	RA126	35.7310	79.6076	7.7	50	8.5	15	98	132500	65	51200	2700	40200	20.4	M	200	M	-1.4	35	M	M	0.8	
4964	RA127	35.7560	79.5553	7.6	52	6.5	10	85	100800	-25	56300	1430	24400	26.8	10600	200	1.0	-1.0	20	6	10.9	1.1	
4965	RA128	35.7827	79.5673	7.6	55	5.8	21	69	104600	-20	55800	1490	20900	11.3	9900	170	7.5	-1.0	23	M	M	0.8	
4966	RA129	35.8189	79.5558	7.6	74	3.9	M	57	21600	M	M	660	900	M	11700	60	1.9	M	M	2	M	M	
4967	RA130	35.8628	79.5430	7.5	139	5.3	15	108	83500	114	49600	1960	36400	5.1	16600	110	M	-1.0	37	M	10.9	2.4	
4968	RA131	35.8952	79.5557	7.9	78	3.9	-1	49	156000	72	113200	2750	29800	66.9	21200	560	M	-1.0	28	9	7.6	0.7	
4969	RA132	35.8778	79.5973	7.9	75	3.5	18	46	113500	153	78900	2900	27300	30.3	24800	290	1.9	M	95	10	M	1.1	
4970	RA133	35.8634	79.6165	7.8	70	3.6	20	32	147700	142	110000	4410	42400	42.8	20800	420	M	-1.0	72	10	M	M	
4971	RA134	35.8822	79.6383	7.7	85	4.3	38	45	173200	315	92600	2970	47000	26.4	13500	340	0.6	-1.0	151	23	M	M	
4972	RA135	35.8856	79.6636	7.5	68	4.7	M	M	133900	M	M	3020	34300	M	15400	390	M	M	M	M	M	M	
4973	RA136	35.8673	79.6665	7.9	55	2.9	17	31	99000	114	29800	1200	36600	21.7	6400	150	7.9	-1.0	75	10	7.4	0.5	
4974	RA137	35.8605	79.7252	7.4	85	3.3	M	36	89900	38	42500	1460	33900	16.0	M	180	M	-1.0	19	3	M	0.3	
4975	RA138	35.8303	79.6831	7.8	60	3.1	17	26	102800	62	49400	1200	32900	15.6	6600	210	M	-1.2	41	4	M	0.8	
4976	RA139	35.8017	79.6697	7.6	60	3.4	28	23	91500	-100	75600	1370	21200	28.1	8500	190	M	M	30	8	M	-0.2	
4977	RA140	35.8385	79.6551	7.8	80	2.8	9	21	113200	52	52200	1090	42300	16.5	8000	170	M	-1.0	24	4	M	0.9	
4978	RA141	35.8109	79.6417	7.7	67	5.7	14	19	130200	163	206200	2680	13400	55.8	16300	380	1.8	-1.4	40	10	5.1	M	
4979	RA142	35.8306	79.6333	7.5	71	5.1	12	68	115900	134	88600	4990	46000	29.7	36800	430	M	-1.7	55	11	8.4	1.6	
4980	RA143	35.8112	79.5894	7.6	89	6.1	10	58	133200	-20	182900	2380	18100	37.8	23600	480	M	-1.0	25	M	16.0	0.8	
4981	RA144	35.7884	79.6326	7.9	74	2.0	-2	13	57300	-20	30500	1130	23500	8.6	7200	90	M	7.6	17	3	M	M	
4982	RA145	35.7676	79.6012	7.7	62	6.3	10	97	72000	-20	56400	1190	26400	19.4	7900	150	M	-1.0	20	4	M	1.6	

CHAPEL HILL 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	Au
					um/cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
4983	RA146	35.7513	79.6094	8.0	81	5.2	-1	35	117100	44	46300	1590	28100	19.6	10600	270	N	-1.0	25	7	N	0.7	

CHAPEL HILL 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
142	AL027	35.9929	79.5195	0.7	0.2	1	37	1.0	400	27	6	16	1000	-5	2200	-2	50	12	900	10	-1	-5	.	-2	-5	27
143	AL028	35.9633	79.5097	1.4	0.2	2	25	1.0	700	-5	10	4	3000	-5	950	3	-5	5	700	-10	1	-5	.	-2	10	12
144	AL029	35.9473	79.5371	0.7	0.2	1	15	1.0	200	-5	8	5	2000	5	2350	-2	5	5	700	10	1	-5	.	-2	5	17
145	AL030	35.8554	79.5290	0.6	-0.1	4	12	0.5	100	-5	5	3	1000	-5	400	-2	-5	-5	700	-10	-1	-5	.	2	-5	12
146	AL031	35.8563	79.4950	.	.		22	1.2	.	.	15	.	6000	6	1450	-2	10	.	500	.	-1	-5	.	-2	-5	.
147	AL032	35.8895	79.4832	0.7	0.2	3	27	1.0	200	12	14	17	3000	7	2700	2	10	5	900	12	-1	10	.	-2	5	27
148	AL033	35.9245	79.4459	0.5	0.3	0	30	1.0	100	5	5	12	5000	-5	3050	-2	-5	-5	700	10	-1	-5	.	-2	-5	20
149	AL034	35.9379	79.4686	1.6	0.2		30	1.0	200	7	6	11	2000	5	2650	-2	5	7	1000	12	-1	-5	.	-2	-5	17
150	AL035	35.9671	79.4674	1.4	0.2	0	30	0.5	300	-5	-5	3	2000	-5	1550	-2	5	-5	800	-10	-1	-5	.	-2	-5	7
152	AL037	35.9671	79.4149	1.2	0.2	2	7	0.5	200	7	5	4	3000	5	1800	-2	-5	5	800	10	-1	-5	.	-2	5	7
153	AL038	35.8823	79.4478	1.4	0.1	2	15	0.5	500	7	5	14	4000	7	1800	-2	-5	-5	1100	12	-1	-5	.	-2	15	35
154	AL039	35.8596	79.4339	1.4	0.2	2	25	1.0	300	-5	7	6	8000	13	3700	-2	5	-5	1000	15	-1	5	.	2	-5	22
155	AL040	35.8701	79.4025	1.4	0.2	1	67	1.0	400	-5	5	3	9000	5	2400	-2	-5	5	800	10	-1	-5	.	-2	-5	7
156	AL041	35.9010	79.3925	0.7	0.1	2	22	1.0	200	15	6	10	3000	7	2250	2	10	5	900	17	-1	-5	.	-2	-5	22
157	AL042	35.8615	79.3695	1.6	0.1	5	22	1.0	200	-5	7	6	8000	9	1650	-2	5	-5	1100	17	-1	-5	.	-2	-5	20
158	AL043	35.8743	79.3453	0.6	0.2	3	25	1.0	200	-5	10	5	5000	6	1500	-2	5	-5	1000	12	-1	-5	.	-2	-5	22
159	AL044	35.8663	79.3247	1.2	0.2	2	17	1.0	300	5	16	10	3000	7	1900	2	5	5	900	12	-1	-5	.	-2	-5	27
160	AL045	35.8464	79.2688	0.6	0.1	2	15	0.5	200	-5	5	2	7000	-5	1000	-2	5	-5	600	-10	-1	-5	.	-2	-5	5
161	AL046	35.8678	79.2561	1.4	0.1		25	1.0	200	5	20	4	8000	-5	2400	-2	5	-5	700	-10	-1	-5	.	4	-5	12
167	AL052	35.9824	79.3867	0.6	0.1	1	10	0.5	100	-5	5	4	2000	-5	2050	-2	10	-5	1100	-10	-1	-5	.	-2	-5	15
168	AL053	35.9814	79.3620	1.6	0.1	3	37	1.0	400	5	5	6	6000	7	1550	-2	5	5	900	20	-1	-5	.	-2	5	35
169	AL054	35.9546	79.3652	1.4	0.1	5	10	1.0	400	7	6	9	4000	9	1450	2	5	-5	1000	30	-1	-5	.	-2	-5	52
170	AL055	35.9305	79.3511	0.6	0.1	2	15	1.0	100	-5	8	5	3000	5	1250	-2	5	-5	700	-10	-1	-5	.	-2	5	10
171	AL056	35.9191	79.3292	0.6	0.1	2	17	1.5	100	-5	8	7	4000	-5	1100	-2	35	-5	800	-10	-1	10	.	-2	-5	7
172	AL057	35.9482	79.3158	0.7	-0.1	2	57	1.5	300	20	14	24	3000	6	1500	2	5	-5	1000	17	-1	10	.	2	-5	30
174	AL059	35.9951	79.3140	0.7	0.3	5	80	1.5	200	10	10	17	3000	9	2150	-2	20	-5	800	17	-1	-5	.	-2	-5	25
175	AL060	35.9671	79.3048	0.7	-0.1	2	67	1.5	200	7	17	13	3000	7	2250	-2	15	-5	900	17	-1	-5	.	-2	-5	17
654	CH004	35.5973	79.0095	-0.1	0.1	3	52	1.5	300	15	-5	5	10000	15	2200	5	-5	5	700	10	3	-5	.	-2	5	22
655	CH005	35.6210	79.0036	-0.1	0.2		40	1.5	500	32	7	12	7000	11	5450	-2	-5	70	700	-10	-1	-5	.	-2	5	25
656	CH006	35.6538	79.0223	-0.1	0.2	2	12	1.0	100	7	-5	3	6000	10	1200	-2	5	-5	700	-10	-1	-5	.	-2	15	12
657	CH007	35.6384	79.0387	-0.1	0.2		10	0.5	100	5	-5	2	4000	8	1300	-2	5	-5	700	-10	-1	5	.	-2	35	7
658	CH008	35.6447	79.1524	-0.1	0.3	2	82	1.0	200	5	-5	5	4000	9	800	-2	-5	5	700	10	-1	10	.	-2	-5	15
659	CH009	35.6441	79.1799	-0.1	0.5	0	97	1.5	3700	20	5	16	7000	11	1250	-2	-5	12	800	12	-1	-5	.	-2	-5	45
660	CH010	35.5775	79.2168	-0.1	0.3	2	5	1.0	200	12	8	7	4000	11	1400	2	5	5	700	-10	-1	-5	.	-2	10	10
661	CH011	35.5961	79.2447	-0.1	0.3	2	22	1.5	300	20	7	7	6000	14	3200	-2	-5	7	600	-10	-1	-5	.	-2	5	25
662	CH012	35.6601	79.2342	-0.1	0.4	3	25	1.0	400	30	-5	12	4000	12	4300	2	-5	-5	900	32	-1	-5	.	-2	-5	80

CHAPEL HILL 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
663	CH013	35.6511	79.2164	-0.1	0.2	2	40	1.5	200	27	-5	9	5000	9	1100	-2	-5	-5	700	-10	-1	-5	.	-2	5	20
664	CH014	35.6968	79.1791	-0.1	0.3	5	40	1.5	400	32	6	11	4000	9	1250	-2	-5	7	900	10	-1	-5	.	-2	-5	32
665	CH015	35.6717	79.1513	-0.1	0.3	8	120	1.5	300	25	5	9	5000	16	950	-2	-5	5	800	12	-1	-5	.	-2	5	25
666	CH016	35.6835	79.1013	-0.1	0.3	1	147	1.0	900	30	-5	9	4000	17	2550	-2	-5	5	900	-10	1	-5	.	-2	-5	27
667	CH017	35.7027	79.0930	-0.1	0.5	2	92	1.5	600	37	-5	17	5000	10	1200	-2	-5	7	900	12	-1	-5	.	-2	-5	65
668	CH018	35.7207	79.0549	-0.1	0.3	3	47	1.5	700	30	-5	8	5000	14	1350	-2	-5	5	800	12	-1	-5	.	2	10	35
669	CH019	35.7354	79.04o9	-0.1	0.3	4	60	1.5	400	55	-5	13	6000	19	3150	-2	-5	7	900	12	-1	-5	.	-2	5	55
670	CH020	35.6987	79.0531	-0.1	0.2	2	17	1.5	200	7	-5	3	12000	11	1050	-2	-5	-5	400	-10	-1	-5	.	2	-5	10
671	CH021	35.6932	79.0213	-0.1	0.2	1	12	1.0	100	12	-5	3	9000	11	1100	-2	-5	-5	400	-10	-1	5	.	-2	5	12
673	CH023	35.6846	79.0467	-0.1	0.2	1	20	1.0	100	7	-5	3	4000	13	900	2	-5	-5	500	-10	-1	10	.	-2	5	7
675	CH025	35.7495	79.0090	-0.1	0.3		125	2.5	800	10	5	6	21000	16	2700	2	-5	5	600	-10	-1	-5	.	-2	5	27
682	CH032	35.7878	79.0104	-0.1	0.2	2	105	2.5	800	15	-5	6	16000	8	1600	-2	-5	5	800	-10	2	-5	.	2	10	20
683	CH033	35.8592	79.0330	0.7	0.2	1	47	1.5	200	10	-5	2	19000	8	1400	-2	-5	-5	800	-10	1	-5	.	-2	-5	15
684	CH034	35.8181	79.0287	1.4	0.1	0	75	2.0	100	7	10	2	16000	7	2000	-2	-5	-5	600	-10	1	-5	.	-2	-5	7
685	CH035	35.8160	79.0423	0.7	0.2	1	72	2.0	200	5	-5	3	21000	8	1850	-2	5	-5	600	-10	-1	-5	.	-2	-5	15
686	CH036	35.7966	79.0273	-0.1	0.1	1	47	1.5	300	12	6	6	7000	10	2050	-2	-5	12	800	-10	-1	-5	.	-2	-5	22
687	CH037	35.7639	79.0423	0.8	0.3	4	22	1.5	300	40	8	7	8000	14	2550	2	-5	10	800	-10	1	-5	.	2	-5	30
688	CH038	35.7623	79.0910	-0.1	0.3	1	17	1.5	500	20	-5	5	5000	9	3500	-2	5	-5	1000	-10	2	-5	.	2	-5	17
689	CH039	35.7772	79.0947	-0.1	0.3	1	15	1.0	100	7	6	2	13000	6	700	-2	5	-5	700	-10	1	-5	.	2	5	7
690	CH040	35.7880	79.1154	-0.1	0.2	1	22	1.5	100	5	-5	-2	20000	8	1900	-2	5	-5	700	-10	1	-5	.	2	-5	7
691	CH041	35.7346	79.0985	-0.1	0.2	4	32	1.0	100	35	5	2	4000	9	1900	-2	-5	-5	900	17	1	10	.	-2	-5	27
692	CH042	35.5657	79.2846	0.8	0.2	5	45	1.0	300	17	-5	6	5000	11	750	-2	-5	5	800	-10	1	-5	.	2	10	57
693	CH043	35.5518	79.3200	-0.1	0.2	4	22	1.0	500	22	5	6	6000	12	2250	-2	5	7	1000	-10	2	10	.	2	-5	22
694	CH044	35.5704	79.3466	-0.1	0.3	3	47	1.5	500	20	-5	8	5000	12	2750	-2	-5	15	700	-10	1	10	.	2	-5	32
695	CH045	35.5809	79.3666	-0.1	0.4	4	332	1.5	400	30	-5	10	4000	8	1850	-2	-5	7	800	-10	-1	-5	.	-2	5	40
696	CH046	35.5634	79.3803	-0.1	0.2	7	292	1.5	400	27	-5	8	6000	8	1600	-2	-5	7	900	10	-1	-5	.	-2	5	47
697	CH047	35.5463	79.3979	-0.1	0.2	8	182	1.5	300	30	-5	9	8000	12	2900	-2	-5	7	900	-10	-1	-5	.	-2	15	52
698	CH048	35.5509	79.4347	-0.1	0.2	4	55	1.0	400	22	-5	11	6000	10	650	-2	-5	-5	600	-10	1	-5	.	2	-5	35
699	CH049	35.5756	79.4324	-0.1	0.3	3	67	1.5	200	22	5	5	5000	8	550	-2	-5	5	800	-10	1	-5	.	2	10	45
700	CH050	35.5399	79.4593	-0.1	0.4	4	60	1.0	200	25	5	9	4000	12	1800	-2	5	-5	900	10	1	-5	.	-2	-5	27
701	CH051	35.5234	79.4562	-0.1	0.4	4	42	1.5	300	35	-5	15	5000	15	3350	-2	-5	-5	700	-10	1	-5	.	-2	-5	42
702	CH052	35.5541	79.5012	-0.1	0.5	25	67	2.0	300	32	-5	10	10000	14	2350	-2	-5	7	600	20	-1	-5	.	-2	5	77
703	CH053	35.5519	79.5130	0.8	0.4	8	67	1.0	200	32	-5	9	9000	15	1050	2	-5	-5	700	17	1	-5	.	-2	-5	42
704	CH054	35.5492	79.5395	-0.1	0.2	4	85	1.0	200	10	10	4	5000	8	550	-2	-5	-5	800	-10	1	-5	.	-2	-5	22
705	CH055	35.5724	79.5439	-0.1	0.2	8	22	1.0	100	7	8	-2	4000	7	350	-2	-5	7	800	-10	1	-5	.	-2	-5	17
706	CH056	35.5854	79.5468	-0.1	0.3	22	62	1.5	200	15	-5	3	6000	8	600	-2	-5	-5	700	-10	1	-5	.	-2	-5	30

CHAPEL HILL 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
707	CH057	35.5967	79.2865	-0.1	0.1	30	20	1.0	200	11	7	3	6000	10	1400	-2	5	.	700	-10	-1	-5	.	-2	-5	17
708	CH058	35.6199	79.3813	-0.1	0.3	35	20	1.0	200	7	5	4	6000	8	1200	-2	-5	-5	700	-10	-1	-5	.	-2	-5	17
709	CH059	35.6099	79.4374	-0.1	0.4	15	90	1.0	200	25	5	6	7000	7	1750	-2	5	5	900	10	-1	-5	.	-2	-5	30
710	CH060	35.6056	79.4708	-0.1	0.3	15	40	1.0	300	20	-5	6	4000	9	1400	-2	-5	-5	900	12	2	-5	.	-2	10	32
711	CH061	35.6189	79.5201	-0.1	0.3	10	30	1.0	200	15	6	8	6000	7	1400	-2	5	5	700	-10	-1	5	.	-2	10	32
712	CH062	35.6723	79.5461	-0.1	0.4	5	25	1.0	300	27	5	9	4000	8	1800	-2	5	7	900	-10	2	-5	.	-2	-5	35
713	CH063	35.6368	79.5226	-0.1	0.3	0	40	1.0	200	17	-5	7	5000	7	2150	-2	-5	-5	800	-10	-1	-5	.	-2	-5	20
714	CH064	35.6426	79.4771	-0.1	0.3	9	85	1.0	200	25	5	9	10000	9	1850	-2	-5	-5	700	10	1	-5	.	-2	-5	22
715	CH065	35.6572	79.4507	-0.1	0.4	5	257	1.0	600	27	-5	13	2000	6	850	-2	5	5	700	-10	-1	-5	.	-2	10	27
716	CH066	35.6713	79.4214	-0.1	0.3	7	280	0.5	300	35	5	8	2000	5	700	-2	5	7	900	-10	-1	5	.	-2	-5	25
717	CH067	35.6365	79.3550	-0.1	0.2	4	40	1.0	100	15	6	4	5000	11	1200	-2	-5	5	800	-10	2	-5	.	-2	-5	17
718	CH068	35.6627	79.3219	-0.1	0.3	4	15	1.0	500	15	-5	5	3000	7	2600	-2	-5	-5	700	-10	-1	-5	.	-2	-5	20
719	CH069	35.6316	79.3105	-0.1	0.3	9	197	1.0	600	47	-5	10	4000	7	2350	-2	-5	7	900	-10	-1	-5	.	-2	15	65
720	CH070	35.6403	79.2923	-0.1	0.3	7	52	1.0	200	20	-5	6	5000	9	1650	-2	-5	5	600	-10	1	-5	.	-2	-5	17
721	CH071	35.6208	79.2658	-0.1	0.4		70	1.0	600	37	-5	15	6000	7	1200	-2	5	12	700	10	1	-5	.	-2	-5	42
722	CH072	35.6920	79.4747	-0.1	0.3	2	50	1.0	200	25	6	10	2000	8	2000	-2	5	5	900	-10	-1	-5	.	-2	-5	15
723	CH073	35.6932	79.4989	-0.1	0.3	4	32	1.5	100	35	7	11	3000	7	2300	-2	5	5	1000	-10	-1	-5	.	-2	5	37
724	CH074	35.7234	79.4995	-0.1	0.2	2	22	1.0	100	17	5	4	2000	8	550	-2	-5	-5	700	-10	-1	-5	.	-2	15	10
725	CH075	35.7127	79.5281	-0.1	0.4	5	62	1.5	200	35	8	9	4000	8	1000	2	-5	5	500	15	-1	-5	.	-2	5	45
726	CH076	35.7467	79.5459	-0.1	0.3	1	47	1.0	200	22	8	9	6000	7	2250	-2	-5	5	700	12	-1	10	.	-2	20	37
727	CH077	35.7964	79.5253	-0.1	0.3	4	85	1.5	100	22	5	7	5000	7	2100	-2	-5	-5	400	10	1	-5	.	-2	15	20
728	CH078	35.7977	79.4963	-0.1	0.3	3	117	1.5	200	35	7	13	4000	9	2150	-2	5	5	900	-10	1	20	.	-2	-5	37
729	CH079	35.8223	79.5128	-0.1	0.4	1	47	1.5	300	20	8	7	4000	7	2500	-2	15	-5	1000	15	-1	20	.	-2	10	47
730	CH080	35.8205	79.4859	-0.1	0.3	1	62	1.0	200	20	10	7	3000	8	1900	-2	-5	-5	700	15	-1	25	.	-2	-5	27
731	CH081	35.8140	79.4555	-0.1	0.2	4	45	1.0	200	15	8	4	4000	8	2000	-2	-5	-5	500	-10	1	20	.	-2	-5	22
732	CH082	35.7676	79.4774	-0.1	0.3	4	75	1.0	200	25	12	8	4000	8	700	-2	5	7	500	10	-1	5	.	-2	5	50
733	CH083	35.7386	79.4370	-0.1	0.3	5	70	1.5	200	35	19	14	2000	5	2200	-2	5	-5	800	10	-1	10	.	-2	-5	52
734	CH084	35.8213	79.4329	-0.1	0.1	0	80	1.5	200	12	-5	2	5000	5	1400	-2	-5	-5	800	-10	-1	-5	.	-2	5	12
735	CH085	35.7976	79.4206	-0.1	0.2		27	1.0	200	22	-5	6	2000	7	650	2	-5	-5	1000	-10	-1	5	.	-2	10	15
736	CH086	35.7633	79.4294	-0.1	0.4	2	97	1.0	200	35	8	14	4000	7	2050	-2	-5	-5	800	-10	-1	5	.	-2	-5	45
737	CH087	35.6976	79.4043	-0.1	0.2		105	1.0	300	30	7	11	1000	7	850	-2	-5	-5	800	-10	-1	-5	.	-2	-5	22
738	CH088	35.6910	79.3742	-0.1	0.4	0	80	1.0	400	42	5	13	1000	6	500	-2	5	-5	600	10	-1	-5	.	-2	10	20
739	CH089	35.7280	79.1827	-0.1	0.3		35	0.5	200	37	9	13	1000	7	2100	-2	5	-5	900	-10	-1	-5	.	-2	10	30
740	CH090	35.7227	79.2069	-0.1	0.3	1	17	1.0	200	22	8	7	1000	7	550	-2	5	-5	600	-10	-1	-5	.	-2	-5	25
741	CH091	35.7073	79.2428	-0.1	0.4	2	12	1.0	100	32	7	9	1000	22	950	-2	-5	-5	800	-10	-1	-5	.	-2	10	17
742	CH092	35.6913	79.2674	-0.1	0.2	1	22	1.0	200	15	6	5	1000	6	300	-2	-5	-5	500	-10	-1	-5	.	-2	-5	7

CHAPEL HILL 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
743	CH093	35.6881	79.3176	-0.1	0.5	5	55	1.5	300	40	13	12	2000	8	2200	-2	5	5	900	-10	-1	-5	.	-2	-5	32
744	CH094	35.7173	79.3357	-0.1	0.3	1	75	1.0	300	40	10	12	1000	8	300	7	-5	-5	800	10	-1	5	.	-2	5	25
745	CH095	35.7451	79.3610	-0.1	0.3	1	92	1.0	200	30	12	9	1000	8	600	-2	5	-5	600	-10	-1	15	.	-2	-5	25
746	CH096	35.7252	79.3171	-0.1	0.2	1	60	1.0	200	37	7	8	1000	7	300	-2	5	-5	700	-10	-1	-5	.	-2	10	20
747	CH097	35.7327	79.2971	-0.1	0.4	2	92	1.5	300	42	14	10	1000	5	2100	-2	5	5	800	12	-1	-5	.	2	10	30
748	CH098	35.7413	79.2740	-0.1	0.3		47	1.5	200	22	11	6	1000	6	2000	-2	-5	-5	700	-10	-1	-5	.	-2	-5	17
749	CH099	35.7676	79.2058	-0.1	0.3	2	22	1.5	300	32	8	7	2000	8	1950	-2	5	-5	500	12	-1	5	.	-2	-5	35
750	CH100	35.7675	79.1788	-0.1	0.3	5	40	1.0	200	42	9	9	1000	10	1900	-2	-5	5	700	-10	-1	15	.	-2	-5	32
751	CH101	35.8104	79.1055	.	.		.	.	.	.	.	.	.	.	.	.	.	.	.	.		.	.	.	.	.
752	CH102	35.8338	79.1457	-0.1	0.2		137	2.0	200	15	7	8	15000	7	650	-2	5	-5	800	12	-1	-5	.	-2	5	27
753	CH103	35.8035	79.1542	-0.1	0.2	1	165	1.5	100	12	6	3	14000	7	200	-2	-5	-5	600	-10	-1	-5	.	.	-5	22
754	CH104	35.8281	79.1866	-0.1	0.2		115	1.0	200	25	9	9	12000	5	800	-2	5	5	800	-10	-1	-5	.	-2	-5	22
755	CH105	35.8455	79.1829	-0.1	0.3		57	1.0	400	22	15	8	10000	6	1200	-2	15	5	800	-10	-1	-5	.	-2	15	20
756	CH106	35.8513	79.1921	-0.1	0.4	0	145	1.5	200	42	10	15	7000	6	750	2	-5	7	900	17	-1	-5	.	-2	5	32
757	CH107	35.8531	79.2325	-0.1	0.2		30	1.0	200	15	8	7	4000	7	1900	-2	-5	-5	900	-10	-1	5	.	-2	-5	17
758	CH108	35.8149	79.2416	-0.1	0.2		210	1.0	200	12	10	5	5000	6	350	-2	-5	-5	700	-10	-1	-5	.	-2	5	12
759	CH109	35.7952	79.2418	-0.1	0.3	7	57	1.5	300	27	15	5	3000	7	350	-2	-5	5	700	10	-1	-5	.	-2	-5	22
760	CH110	35.7887	79.2799	-0.1	0.2	1	50	1.0	200	15	36	6	3000	6	300	-2	-5	-5	700	-10	-1	-5	.	2	-5	17
761	CH111	35.7641	79.3208	-0.1	0.3	1	60	1.5	200	30	20	10	2000	7	450	-2	-5	-5	800	10	-1	5	.	-2	-5	22
762	CH112	35.7909	79.3393	0.7	0.1	3	42	1.0	100	-5	8	5	2000	7	1750	-2	-5	-5	700	-10	1	20	.	-2	5	12
763	CH113	35.7921	79.3655	0.6	0.3	2	105	0.5	200	10	5	7	1000	-5	300	-2	5	5	700	10	1	-5	.	-2	-5	27
764	CH114	35.8189	79.3416	0.5	0.1	1	12	0.5	200	10	9	11	1000	6	600	-2	5	5	700	-10	-1	-5	.	-2	-5	15
765	CH115	35.8405	79.3249	0.4	-0.1	1	52	0.5	200	5	7	6	2000	5	1800	-2	5	-5	700	-10	1	10	.	-2	-5	12
766	CH116	35.8329	79.3824	0.6	0.1	2	20	0.5	200	10	8	7	3000	5	700	4	5	-5	900	10	-1	5	.	-2	-5	20
767	CH117	35.7718	79.3822	0.4	0.4	2	40	1.0	100	65	9	33	2000	6	2750	3	10	10	900	22	1	15	.	-2	-5	90
1723	GU001	35.9201	79.7959	0.5	0.4	1	25	1.0	400	17	15	23	4000	-5	1500	-2	-5	7	300	20	1	-5	.	-2	15	105
1724	GU002	35.9664	79.8133	.	0.4	1	32	1.0	-100	10	10	6	6000	6	2250	-2	-5	-5	400	-10	1	5	.	-2	-5	15
1725	GU003	35.9700	79.8651	.	0.3		92	2.0	-100	7	15	7	4000	-5	2050	-2	5	5	300	-10	-1	-5	.	-2	-5	30
1726	GU004	35.9600	79.9073	.	0.3	1	57	1.0	100	12	10	18	6000	-5	1350	-2	5	10	400	-10	-1	5	.	-2	5	55
1727	GU005	35.9531	79.8872	.	0.3	1	37	1.5	-100	7	15	17	3000	-5	2700	-2	5	7	200	-10	-1	5	.	-2	15	30
1728	GU006	35.9216	79.8554	.	0.3	1	27	1.0	-100	12	20	11	4000	-5	3450	-2	5	10	300	120	-1	10	.	-2	-5	30
1729	GU007	35.9180	79.8667	.	0.3	1	50	1.5	-100	7	10	5	5000	-5	950	-2	5	5	400	-10	-1	-5	.	-2	-5	25
1730	GU008	35.9408	79.9033	.	0.5	1	50	1.0	100	7	10	11	5000	-5	2500	-2	5	20	200	15	-1	-5	.	-2	-5	55
1731	GU009	35.9914	79.8498	.	0.2	1	35	1.0	1000	10	25	9	6000	-5	3900	-2	5	7	300	20	-1	-5	.	-2	5	32
1732	GU010	35.9839	79.8933	0.5	0.3		25	1.5	400	10	15	34	4000	-5	8600	-2	5	7	300	-10	-1	-5	.	-2	-5	35
1733	GU011	35.9430	79.9766	.	0.4	1	32	1.5	600	15	15	23	5000	-5	3350	-2	10	12	400	95	-1	5	.	-2	-5	95

CHAPEL HILL 100K QUADRANGLE - SUPPLEMENTAL STREAM SEDIMENT

Lab #	County ID	Lat	Long	Ux ppm	Ag ppm	As ppm	Ba ppm	Be ppm	Ce 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
1734	GU012	35.9775	79.9536	0.6	0.3	1	25	1.0	-100	12	15	11	4000	-5	5050	-2	15	10	300	17	-1	-5	.	-2	-5	42
1736	GU014	35.9953	79.9768	0.6	0.2		30	1.5	-100	7	10	9	4000	-5	4100	-2	15	7	300	47	-1	-5	.	-2	-5	57
1756	GU034	35.9826	79.6570	0.5	0.3		30	2.0	100	12	5	12	5000	-5	2350	-2	15	10	100	12	-1	-5	.	-2	-5	32
1757	GU035	35.9679	79.5812	50.4	0.2	1	27	1.5	-100	12	5	9	4000	-5	2600	-2	15	7	200	-10	-1	-5	.	-2	-5	27
1758	GU036	35.9547	79.5862	0.4	0.2		63	3.9	200	6	26	7	13000	-5	3290	-2	14	6	100	-10	-1	107	.	-2	9	26
1759	GU037	35.9514	79.5575	0.4	0.2	1	25	1.5	-100	5	15	6	3000	-5	1500	-2	5	7	100	-10	-1	-5	.	-2	-5	22
1760	GU038	35.9303	79.5616	.	.	1	.	.	.	4	.	.	.	.	.	-2	14	.	.	.	-1	45	.	-2	9	.
1761	GU039	35.9093	79.5537	1.7	0.2	1	17	1.5	-100	25	15	13	4000	6	4550	-2	20	7	200	-10	-1	-5	.	-2	-5	30
1762	GU040	35.9216	79.6184	.	0.1	2	12	2.0	-100	5	10	3	4000	-5	800	-2	5	-5	100	-10	-1	5	.	-2	-5	12
1763	GU041	35.9399	79.6065	.	0.3	10	35	1.5	200	-5	10	3	8000	-5	1100	-2	-5	-5	300	-10	2	-5	.	-2	-5	17
1764	GU042	35.9388	79.6672	.	0.4	1	30	1.5	400	-5	10	6	9000	-5	2050	-2	20	-5	-20	-10	1	5	.	-2	-5	20
1765	GU043	35.9574	79.7140	0.5	0.3		32	1.0	500	-5	15	8	3000	-5	2350	-2	5	-5	300	-10	-1	-5	.	-2	-5	27
2277	LE001	35.5940	79.0902	-0.1	0.3	2	40	0.5	100	7	7	3	2000	11	900	-2	10	-5	700	-10	-1	-5	.	-2	-5	7
2278	LE002	35.5817	79.0655	-0.1	0.1	2	17	-0.5	200	5	7	2	1000	7	1600	2	5	-5	700	-10	-1	-5	.	-2	-5	5
2279	LE003	35.5670	79.0872	-0.1	0.2	1	7	1.0	200	7	13	3	2000	8	2300	-2	5	-5	700	-10	-1	-5	.	-2	5	7
2280	LE004	35.5542	79.0909	-0.1	0.2	2	25	1.0	200	5	7	4	3000	7	2400	-2	10	-5	700	-10	-1	-5	.	-2	10	17
2281	LE005	35.5742	79.1236	-0.1	0.2	2	22	0.5	100	10	7	37	5000	13	1200	3	15	-5	900	-10	-1	5	.	-2	5	25
2282	LE006	35.5576	79.1508	-0.1	0.3	4	17	1.0	200	7	10	6	6000	14	3600	8	5	5	800	-10	-1	-5	.	-2	5	20
2283	LE007	35.5561	79.1878	-0.1	0.4	4	80	1.5	400	20	7	15	10000	26	1800	-2	15	5	800	32	-1	10	.	-2	5	80
2284	LE008	35.5418	79.2286	-0.1	0.2	1	30	0.5	200	7	-5	4	3000	9	2450	-2	15	5	800	10	-1	-5	.	-2	-5	20
2285	LE009	35.5318	79.1722	0.6	0.3	2	25	0.5	200	5	5	6	3000	9	2300	-2	20	-5	900	12	-1	10	.	-2	5	27
2286	LE010	35.5145	79.1219	-0.1	0.4	3	30	1.0	100	12	7	5	4000	12	2900	-2	5	-5	900	10	-1	-5	.	-2	15	17
2287	LE011	35.5228	79.0918	-0.1	0.4	1	42	1.5	200	22	10	5	3000	6	2250	-2	-5	-5	700	10	-1	-5	.	-2	-5	17
2288	LE012	35.5495	79.0504	-0.1	0.2	2	50	1.0	400	17	-5	4	4000	5	2250	-2	-5	-5	600	-10	-1	-5	.	-2	-5	15
2289	LE013	35.5450	79.0306	-0.1	0.4	2	45	1.5	300	27	6	10	6000	16	2750	-2	-5	5	700	10	-1	-5	.	-2	-5	27
2290	LE014	35.5284	79.0472	-0.1	0.4	2	45	1.0	500	22	-5	6	2000	8	2450	4	5	5	700	-10	-1	-5	.	-2	5	25
2298	LE022	35.5116	79.2023	-0.1	0.3	4	7	1.0	300	15	-5	7	5000	16	4250	-2	10	5	700	12	-1	-5	.	-2	-5	25
2299	LE023	35.5230	79.2493	.	.		.	.	.	.	.	.	.	.	.	.	.	.	.	.		.	.	.	.	.
2302	LE026	35.5054	79.2899	-0.1	0.2	3	12	0.5	100	10	6	3	4000	10	2350	-2	5	-5	500	-10	1	-5	.	-2	-5	10
2303	LE027	35.5149	79.3190	-0.1	0.2	2	22	1.0	100	10	6	5	6000	13	3250	-2	-5	-5	500	-10	1	-5	.	-2	5	15
2321	LE045	35.5688	79.1894	-0.1	0.3	4	20	1.5	200	20	5	5	5000	18	3000	2	-5	7	900	-10	-1	15	.	-2	5	20
2535	MG014	35.5105	79.7940	0.4	0.2	2	17	0.5	100	12	8	4	3000	13	600	-2	5	-5	700	-10	1	-5	.	2	-5	7
2549	MG028	35.5020	79.9341	0.3	0.1		-5	1.0	100	10	-5	2	1000	8	2050	-2	10	-5	700	10	-1	-5	.	-2	10	10
2692	MO081	35.5016	79.5375	.	.		.	.	.	.	.	.	.	.	.	.	.	.	.	.		.	.	.	.	.
2693	MO082	35.5006	79.5719	-0.1	0.5	3	100	1.0	500	40	7	18	6000	16	950	10	10	10	800	15	1	10	.	-2	5	57
2973	OR045	35.9629	79.0316	1.9	0.3	7	15	1.5	400	10	-5	18	11000	10	3350	-2	5	7	1000	27	-1	5	.	-2	-5	35

CHAPEL HILL 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
2974	OR046	35.9448	79.0796	0.7	0.2	19	17	1.5	200	-5	-5	8	11000	8	2900	2	15	7	1000	-10	-1	-5	.	-2	-5	20
2975	OR047	35.9719	79.1723	0.8	0.4	9	7	1.0	300	-5	5	9	4000	10	2850	-2	-5	-5	1100	10	2	5	.	-2	-5	30
2976	OR048	35.9644	79.1310	0.3	0.2	8	12	1.5	100	5	6	10	7000	9	3250	-2	15	5	1000	10	2	10	.	-2	-5	22
2977	OR049	35.9250	79.1095	0.8	0.2	26	32	1.5	500	10	5	17	12000	9	3600	-2	10	7	1000	10	-1	10	.	-2	-5	37
2978	OR050	35.9069	79.1100	0.7	0.2	16	25	1.0	400	5	-5	9	13000	8	2650	2	10	5	900	-10	1	5	.	-2	-5	20
2979	OR051	35.8921	79.1289	0.4	0.3	7	27	1.5	400	7	5	9	8000	7	3900	-2	15	-5	1100	15	3	-5	.	-2	5	37
2980	OR052	35.8739	79.1109	0.7	-0.1	1	97	2.0	100	-5	-5	-2	19000	8	400	-2	40	5	800	-10	-1	-5	.	-2	-5	42
2981	OR053	35.8761	79.0911	0.7	0.1		30	2.5	200	-5	-5	2	23000	10	2500	-2	40	-5	1000	15	-1	-5	.	-2	5	20
2982	OR054	35.9398	79.0184	0.8	0.2	0	10	2.0	300	5	5	4	15000	9	3150	-2	10	-5	900	-10	3	5	.	-2	-5	12
2983	OR055	35.8960	79.2339	0.5	0.2		12	1.7	500	7	-5	6	4000	9	2900	-2	15	12	1000	17	1	-5	.	-2	10	27
2984	OR056	35.9256	79.1947	1.0	0.2		7	1.0	400	-5	5	6	6000	9	1400	-2	10	-5	900	10	-1	-5	.	-2	-5	12
2985	OR057	35.9350	79.2594	0.8	0.3	0	15	1.0	300	5	5	13	12000	8	2150	-2	10	5	1100	10	2	10	.	-2	-5	30
2986	OR058	35.9927	79.2459	0.7	0.2	1	16	1.9	700	5	7	8	4000	7	3000	-2	-5	5	900	-10	-1	5	.	-2	-5	17
2989	OR061	35.9920	79.2118	0.3	0.2	3	25	1.5	400	5	7	10	5000	8	3450	-2	15	-5	1000	10	-1	-5	.	-2	-5	20
3065	RA001	35.5681	79.5539	0.8	0.3	3	42	1.0	300	20	-5	8	3000	10	2400	-2	10	10	700	22	-1	-5	.	-2	5	37
3066	RA002	35.5557	79.5719	0.6	0.2	2	47	0.5	200	20	-5	7	4000	13	2100	-2	10	5	700	20	-1	5	.	-2	-5	35
3067	RA003	35.5644	79.6090	0.8	0.2	2	37	1.0	200	10	-5	3	4000	9	1350	-2	10	-5	800	15	-1	5	.	-2	10	37
3068	RA004	35.5913	79.6273	0.6	0.3	1	42	0.5	200	15	-5	12	4000	8	2600	-2	10	-5	1000	22	-1	5	.	-2	-5	47
3069	RA005	35.5424	79.6433	0.3	0.1	2	40	0.5	200	12	-5	4	2000	10	1200	2	10	-5	1000	15	-1	-5	.	2	-5	25
3070	RA006	35.5233	79.6499	0.3	0.1	4	12	-0.5	100	12	-5	3	1000	8	900	-2	10	-5	800	10	-1	-5	.	-2	-5	15
3071	RA007	35.5295	79.6806	0.8	0.2	2	22	0.5	100	7	-5	5	4000	9	1550	-2	10	-5	900	12	1	5	.	-2	-5	17
3072	RA008	35.5337	79.7402	0.5	0.2	1	12	0.5	-100	15	-5	7	2000	11	2800	-2	10	5	900	-10	-1	-5	.	-2	5	12
3073	RA009	35.5622	79.7004	0.5	0.2	1	7	0.5	-100	7	10	4	1000	9	1950	2	20	-5	500	-10	-1	-5	.	-2	5	12
3074	RA010	35.5693	79.6856	1.1	0.1		7	-0.5	-100	5	-5	3	1000	8	1000	2	10	-5	500	-10	-1	-5	.	2	-5	12
3075	RA011	35.5971	79.7038	1.1	0.1	1	12	0.5	100	5	7	4	2000	8	900	-2	15	-5	700	15	-1	-5	.	-2	-5	12
3076	RA012	35.6014	79.6846	0.5	0.1	2	10	-0.5	100	10	-5	5	2000	9	1100	-2	20	-5	700	-10	-1	-5	.	2	-5	12
3077	RA013	35.6219	79.6546	0.5	0.2	1	7	0.5	100	12	-5	5	2000	11	1550	-2	10	-5	900	12	-1	5	.	-2	-5	17
3078	RA014	35.6506	79.6292	0.2	0.1	1	12	-0.5	200	17	6	5	2000	7	1150	2	15	-5	800	-10	-1	-5	.	-2	5	12
3079	RA015	35.6760	79.6449	0.6	0.3	1	20	0.5	100	12	-5	12	4000	7	1200	-2	20	-5	900	12	-1	-5	.	-2	-5	15
3080	RA016	35.6736	79.6114	0.5	0.2	2	105	0.5	200	12	10	11	6000	6	1950	3	10	-5	900	15	-1	-5	.	-2	10	17
3081	RA017	35.6537	79.6035	0.6	0.3	4	30	0.5	600	12	7	14	2000	10	1850	3	10	5	600	20	-1	5	.	-2	-5	30
3082	RA018	35.6331	79.5560	0.6	0.2	2	32	0.5	200	15	6	8	3000	7	1000	2	15	-5	900	15	-1	-5	.	-2	-5	32
3083	RA019	35.6001	79.5637	0.3	0.3	1	27	0.5	300	22	7	10	3000	5	950	2	10	5	900	15	-1	5	.	-2	10	32
3084	RA020	35.5242	79.7606	0.8	0.2	2	12	-0.5	-100	5	5	9	7000	10	2050	-2	10	-5	1000	37	-1	20	.	-2	5	72
3085	RA021	35.5099	79.7906	0.3	0.3		27	0.5	400	10	-5	10	6000	10	2100	3	10	5	900	12	1	-5	.	-2	10	20
3086	RA022	35.5368	79.8299	0.5	0.1	1	7	0.5	-100	7	13	5	2000	12	1300	-2	10	-5	900	10	-1	-5	.	-2	10	12

CHAPEL HILL 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	U ppm	Y ppm	Zn ppm
3087	RA023	35.5564	79.8029	1.1	0.1	1	5	-0.5	100	5	-5	3	1000	9	950	-2	10	-5	700	12	-1	-5	.	-2	5	7
3088	RA024	35.5570	79.8345	0.8	0.1	1	7	0.5	-100	10	-5	2	-1000	8	800	-2	10	-5	700	10	-1	-5	.	-2	-5	15
3089	RA025	35.6211	79.8352	0.6	0.1	2	7	-0.5	-100	10	-5	3	-1000	6	1250	-2	10	-5	800	-10	-1	-5	.	-2	5	17
3090	RA026	35.6439	79.8438	0.5	0.1	8	5	-0.5	100	12	-5	6	1000	9	2150	2	10	-5	800	12	-1	-5	.	-2	5	25
3091	RA027	35.6133	79.8649	0.6	0.2	4	20	0.5	200	15	-5	6	1000	10	1900	-2	15	-5	900	10	-1	-5	.	-2	10	7
3092	RA028	35.5493	79.9034	1.1	0.1	30	10	0.5	200	5	5	2	-1000	5	700	-2	5	-5	700	-10	-1	-5	.	-2	-5	7
3093	RA029	35.5358	79.8859	0.2	0.2	8	22	1.5	200	20	5	18	2000	8	3600	-2	40	10	900	17	2	-5	.	-2	-5	30
3094	RA030	35.5210	79.8575	0.6	0.1	0	5	1.0	-100	10	-5	9	-1000	10	1550	-2	10	-5	800	12	-1	-5	.	-2	5	15
3095	RA031	35.5097	79.9031	0.6	0.1	1	-5	1.0	100	5	-5	3	1000	6	2600	-2	15	-5	700	10	-1	-5	.	-2	-5	15
3096	RA032	35.5109	79.9393	0.9	0.2	2	15	1.0	100	17	5	21	3000	13	3300	2	10	7	700	15	-1	-5	.	-2	-5	27
3097	RA033	35.5647	79.9293	0.6	0.3		12	1.5	-100	12	-5	7	1000	10	1950	-2	10	5	700	15	1	-5	.	2	-5	22
3098	RA034	35.5804	79.9256	0.3	0.1		5	1.0	100	5	-5	5	2000	9	2500	-2	10	5	600	-10	1	-5	.	-2	5	10
3099	RA035	35.5887	79.9577	0.3	0.1	0	10	1.5	-100	10	7	11	2000	13	4550	-2	15	10	700	12	-1	-5	.	-2	5	25
3100	RA036	35.6676	79.8799	0.3	0.1		55	1.5	300	22	6	16	7000	8	1850	-2	10	5	700	12	2	-5	.	-2	10	35
3101	RA037	35.6425	79.8972	0.3	0.3	1	37	1.0	300	17	5	15	1000	6	2550	2	10	7	900	12	1	-5	.	-2	-5	35
3102	RA038	35.6389	79.9134	0.3	0.2	0	22	1.0	100	22	-5	10	-1000	5	2750	-2	10	5	800	-10	1	-5	.	-2	-5	12
3103	RA039	35.6393	79.9422	0.6	0.4	1	55	2.0	300	32	-5	23	5000	16	1500	2	15	15	1000	20	-1	10	.	-2	5	62
3104	RA040	35.6118	79.9859	0.6	0.3	1	35	1.5	400	22	5	15	2000	10	5950	3	20	12	800	17	2	-5	.	-2	10	30
3105	RA041	35.5647	79.9830	1.0	0.4	2	40	2.0	400	22	-5	22	6000	19	3350	2	15	12	1000	27	-1	5	.	-2	10	47
3106	RA042	35.5326	79.9695	0.6	0.2		27	1.0	100	17	-5	8	2000	11	2100	-2	5	5	1100	12	-1	-5	.	-2	-5	20
3114	RA050	35.6443	79.9[illegible]2	1.3	0.3	2	15	2.0	-100	22	-5	18	4000	20	3950	-2	30	10	900	17	-1	-5	.	2	15	32
3115	RA051	35.6707	79.9918	0.6	0.1	4	17	1.0	300	20	5	14	1000	8	5950	2	.	7	800	12	-1	5	.	-2	-5	25
3118	RA054	35.7291	79.9845	1.0	0.2	40	32	1.5	100	27	-5	22	4000	12	4050	3	.	10	800	12	-1	-5	.	-2	5	37
3125																										
3126	RA062	35.9010	79.9109	0.3	0.1	0	12	1.0	200	12	5	5	-1000	-5	2000	2	10	5	900	-10	-1	-5	.	-2	-5	20
3127	RA063	35.8857	79.9143	0.6	0.2		17	1.0	400	10	-5	5	-1000	-5	1350	3	20	5	1000	-10	-1	5	.	-2	5	15
3128	RA064	35.8585	79.8957	0.3	0.1	0	7	1.0	300	7	-5	5	-1000	-5	4450	2	15	-5	1000	-10	-1	-5	.	-2	-5	12
3129	RA065	35.7976	79.8943	0.3	0.1	1	-5	1.0	200	22	13	12	-1000	7	4950	2	15	5	1000	12	-1	-5	.	-2	-5	25
3130	RA066	35.6779	79.8965	0.6	0.3	2	15	1.0	300	12	6	14	1000	11	1450	3	15	5	900	20	-1	-5	.	-2	-5	35
3131	RA067	35.6657	79.9248	0.3	0.3	2	15	1.0	300	17	5	9	1000	10	2000	-2	-5	-5	800	10	1	-5	.	-2	5	25
3132	RA068	35.7145	79.9298	0.9	0.2	0	10	0.5	100	17	10	9	1000	9	3800	-2	5	5	1000	15	-1	-5	.	-2	5	22
3133	RA069	35.7038	79.8941	0.6	0.3	1	5	1.5	200	20	6	18	5000	20	5950	-2	-5	10	1000	15	-1	-5	.	-2	5	35
3134	RA070	35.7263	79.8731	0.6	0.4		22	2.0	100	20	7	16	3000	10	2000	-2	20	7	1000	32	-1	-5	.	2	20	222
3135	RA071	35.7460	79.9298	0.3	0.3	1	10	1.0	300	20	6	11	1000	6	2550	-2	15	5	900	12	-1	-5	.	-2	-5	22
3136	RA072	35.7730	79.9520	1.0	0.2	1	15	1.0	100	17	9	14	3000	11	3750	-2	15	7	1000	15	-1	-5	.	-2	10	25
3137	RA073	35.7733	79.9863	0.7	0.6	3	87	2.0	400	45	5	31	4000	17	2850	2	200	22	1100	25	-1	5	.	2	5	67

CHAPEL HILL 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
3138	RA074	35.8060	79.9559	1.0	0.2	3	27	1.0	200	32	5	13	-1000	6	2050	4	10	10	800	15	-1	10	.	-2	-5	22
3139	RA075	35.8050	79.9971	1.0	0.3	2	122	1.0	400	20	12	11	-1000	-5	1550	-2	-5	7	900	10	-1	10	.	-2	5	22
3140	RA076	35.8322	79.9288	0.3	0.2	0	10	1.0	100	15	5	11	-1000	5	2300	2	5	5	800	-10	-1	-5	.	-2	5	17
3141	RA077	35.8501	79.9506	0.3	0.3	0	12	1.0	300	7	6	5	-1000	-5	1900	3	15	-5	500	-10	-1	-5	.	-2	5	10
3142	RA078	35.8673	79.9623	0.3	0.2	1	12	1.0	200	15	-5	7	-1000	-5	1500	-2	15	7	500	-10	2	5	.	-2	5	15
3143	RA079	35.7952	79.9304	0.3	0.2	2	5	0.5	-100	15	8	7	-1000	7	1100	-2	10	-5	600	-10	-1	-5	.	-2	-5	5
3144	RA080	35.8124	79.8983	0.6	0.1	1	7	1.0	200	20	7	11	-1000	8	2550	-2	20	5	800	10	1	-5	.	-2	5	17
3145	RA081	35.8526	79.8565	0.3	0.1	1	5	1.0	100	10	5	7	-1000	7	2300	3	10	5	700	-10	-1	15	.	-2	25	12
3146	RA082	35.8919	79.8405	0.3	0.3	7	17	1.0	200	10	5	9	-1000	-5	2850	-2	50	5	700	-10	-1	-5	.	-2	5	17
3147	RA083	35.8842	79.8337	0.3	0.2	5	5	1.0	400	15	-5	6	-1000	5	2050	-2	55	-5	700	-10	-1	-5	.	-2	5	12
3148	RA084	35.8286	79.8269	0.6	0.5		107	1.0	400	37	5	26	1000	5	1500	2	5	20	1000	12	-1	-5	.	-2	10	50
3149	RA085	35.7864	79.8465	0.7	0.1	2	20	1.0	200	5	-5	8	3000	8	4150	2	10	5	900	10	-1	-5	.	-2	-5	20
3150	RA086	35.7718	79.8414	0.3	0.3	2	87	1.5	300	15	-5	19	5000	18	3300	-2	5	10	1000	15	1	-5	.	-2	5	50
3151	RA087	35.7654	79.8710	0.3	0.2		57	2.0	200	10	-5	16	4000	11	4950	-2	10	12	900	15	-1	-5	.	-2	-5	67
3152	RA088	35.7790	79.7830	0.6	0.3	2	127	2.0	200	17	-5	27	5000	10	7450	-2	5	5	1000	22	1	-5	.	-2	-5	57
3153	RA089	35.8101	79.7734	1.0	0.2		7	1.0	100	10	-5	15	2000	12	4050	-2	40	-5	1000	12	-1	-5	.	-2	5	25
3154	RA090	35.8323	79.8055	0.7	0.1		45	1.5	200	12	-5	13	3000	10	2950	-2	.	-5	900	12		10	.	-2	15	30
3155	RA091	35.8540	79.8071	0.7	0.1	3	15	1.5	100	12	-5	10	1000	9	4850	-2	200	5	900	15		-5	.	-2	5	25
3156	RA092	35.8936	79.7852	0.7	0.5	2	15	1.5	100	7	-5	7	1000	8	1950	-2	5	-5	900	-10	-1	-5	.	-2	5	20
3157	RA093	35.8917	79.7300	0.4	0.2	1	12	1.5	100	20	-5	16	-1000	9	2700	-2	10	-5	900	12	-1	-5	.	-2	20	25
3158	RA094	35.8823	79.7177	0.3	0.1	1	10	1.5	100	-5	-5	4	2000	8	3350	-2	5	-5	900	-10	-1	-5	.	-2	-5	15
3159	RA095	35.8521	79.7794	0.4	0.3	1	72	2.0	500	5	-5	21	2000	18	1250	-2	-5	7	1000	12	-1	-5	.	-2	-5	40
3160	RA096	35.8348	79.7637	0.3	-0.1	1	15	1.5	200	5	-5	7	3000	7	1600	-2	5	-5	1000	12	-1	-5	.	-2	10	25
3161	RA097	35.8138	79.7029	0.3	-0.1	2	-5	1.0	100	-5	-5	6	2000	8	1100	-2	10	-5	700	-10	-1	-5	.	-2	10	12
3162	RA098	35.6063	79.5871	0.3	0.2	2	32	1.5	400	7	-5	14	4000	9	1700	-2	10	-5	900	12	-1	-5	.	-2	-5	22
3163	RA099	35.6315	79.6877	0.7	0.1	2	30	1.5	200	12	-5	9	1000	11	1000	-2	10	-5	900	12	1	-5	.	-2	-5	27
3164	RA100	35.6270	79.7277	0.3	-0.1	2	-5	1.0	-100	7	-5	5	2000	15	1000	-2	5	-5	900	10	-1	-5	.	-2	5	12
3165	RA101	35.5692	79.7568	0.4	-0.1	3	35	1.5	100	5	-5	5	7000	13	850	-2	10	-5	800	12	-1	-5	.	-2	-5	22
3166	RA102	35.6023	79.7507	0.4	0.1	1	10	1.0	200	5	-5	4	3000	12	500	-2	5	-5	700	10	-1	-5	.	-2	5	20
3167	RA103	35.6088	79.7860	0.4	0.1		10	1.5	-100	-5	-5	13	2000	25	1250	-2	5	-5	800	17	-1	-5	.	-2	5	25
3168	RA104	35.6290	79.8075	0.3	0.1	1	10	1.0	100	-5	-5	5	2000	13	900	-2	5	-5	700	-10	1	-5	.	-2	-5	10
3169	RA105	35.6533	79.7884	0.3	0.2	3	50	2.0	600	20	5	23	4000	12	1700	-2	10	15	1000	20	1	10	.	-2	5	62
3170	RA106	35.6606	79.7507	0.6	0.1	3	7	1.5	100	-5	5	6	1000	14	1550	-2	5	-5	900	-10	-1	-5	.	-2	-5	15
3171	RA107	35.6577	79.7218	0.3	0.1	1	25	1.5	200	-5	-5	5	2000	9	1150	-2	15	-5	900	10	2	-5	.	-2	-5	20
3172	RA108	35.6784	79.7500	0.3	0.1	1	15	1.5	500	10	-5	9	1000	15	3550	-2	15	-5	900	10	2	-5	.	-2	-5	15
3173	RA109	35.6864	79.6792	0.6	-0.1	1	15	1.0	200	5	5	6	3000	9	1500	-2	15	-5	700	-10	2	5	.	-2	-5	15

CHAPEL HILL 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
3174	RA110	35.7044	79.6845	1.3	0.1	1	10	1.5	900	12	-5	6	3000	10	1150	2	13	-5	700	15	2	-5	.	-2	-5	15
3175	RA111	35.7254	79.6904	0.6	0.2	2	40	1.5	300	12	-5	18	6000	10	1400	-2	15	-5	1000	17	2	-5	.	-2	-5	37
3176	RA112	35.6930	79.7200	0.3	-0.1	5	12	1.0	200	5	-5	8	2000	11	1050	-2	10	-5	1000	-10	3	-5	.	-2	-5	12
3177	RA113	35.7044	79.7298	0.3	0.1	1	10	1.5	300	7	-5	7	1000	12	1600	-2	20	-5	800	-10	2	5	.	-2	-5	12
3178	RA114	35.7170	79.7579	0.4	0.3	3	47	1.5	400	27	-5	20	1000	7	4000	-2	15	20	1000	40	2	10	.	-2	10	40
3179	RA115	35.7377	79.7637	0.3	0.3		17	1.5	1800	15	6	15	-1000	7	2250	-2	175	7	1000	12	2	-5	.	-2	-5	22
3180	RA116	35.7882	79.7650	0.4	0.4	1	15	2.0	300	20	-5	20	2000	19	2050	-2	40	7	1000	20	2	-5	.	-2	-5	47
3181	RA117	35.7936	79.7273	1.1	0.3	2	35	1.5	900	17	-5	14	-1000	9	1400	2	45	7	700	12	2	5	.	-2	-5	27
3182	RA118	35.7814	79.7245	0.7	0.1	1	10	1.5	300	12	-5	8	2000	9	1750	3	100	-5	700	-10	-1	-5	.	-2	-5	15
3183	RA119	35.7664	79.6779	0.7	0.1	2	15	1.5	100	7	-5	10	2000	8	950	-2	100	-5	800	10	2	-5	.	-2	5	15
3184	RA120	35.7533	79.6406	1.0	0.1	1	40	2.0	100	10	-5	8	4000	11	1250	-2	10	-5	800	10	2	-5	.	-2	-5	17
3185	RA121	35.7258	79.6715	1.3	0.3	2	42	2.5	100	12	-5	15	5000	16	950	2	40	-5	1000	17	-1	-5	.	-2	-5	35
3186	RA122	35.7053	79.5989	0.9	0.3	10	32	1.5	300	-5	-5	5	5000	7	650	-2	50	-5	700	-10	2	5	.	-2	5	10
3187	RA123	35.7018	79.5528	1.1	0.2	7	42	2.0	100	7	-5	8	4000	12	1500	-2	200	5	900	12	2	-5	.	-2	5	30
3188	RA124	35.6838	79.5594	0.7	0.2	5	27	1.0	1200	7	-5	8	1000	10	1300	-2	200	-5	900	12	2	-5	.	-2	-5	15
3189	RA125	35.7203	79.5981	0.3	0.1	2	27	0.5	300	-5	-5	4	11000	-5	200	-2	10	-5	500	10	1	-5	.	-2	-5	10
3190	RA126	35.7310	79.6076	1.1	0.2		45	0.5	400	10	-5	7	8000	-5	350	-2	15	5	500	10	-1	-5	.	-2	15	17
3191	RA127	35.7560	79.5553	0.3	0.2	2	25	0.5	200	-5	-5	8	4000	5	800	-2	10	-5	600	-10	-1	-5	.	-2	5	12
3192	RA128	35.7827	79.5673	0.4	0.2	1	12	1.0	100	7	-5	6	5000	7	450	-2	10	5	800	-10	1	-5	.	-2	5	12
3193	RA129	35.8189	79.5558	0.4	0.1	1	7	-0.5	-100	-5	5	5	-1000	5	600	-2	10	-5	700	-10	1	-5	.	-2	-5	20
3194	RA130	35.8628	79.5430	0.3	0.3	1	25	1.0	-100	-5	-5	6	5000	5	450	-2	15	5	1000	-10	-1	-5	.	-2	10	25
3195	RA131	35.8952	79.5557	0.4	0.1		17	0.5	100	12	-5	8	1000	-5	800	-2	25	5	900	-10	-1	-5	.	-2	10	12
3196	RA132	35.8778	79.5973	0.3	0.1	1	10	0.5	500	12	-5	7	1000	-5	2500	-2	5	7	700	-10	2	-5	.	-2	10	12
3197	RA133	35.8634	79.6165	0.3	0.1	0	32	1.0	100	17	-5	10	1000	6	2250	-2	15	5	900	10	1	-5	.	-2	5	27
3198	RA134	35.8822	79.6383	0.6	0.1	1	47	1.0	200	10	-5	8	2000	5	2600	-2	10	5	700	-10	-1	-5	.	-2	-5	20
3199	RA135	35.8856	79.6636	0.8	0.2		27	0.5	400	20	6	16	1000	-5	950	-2	5	5	1000	-10	2	-5	.	-2	5	27
3200	RA136	35.8673	79.6665	0.3	-0.1		7	0.5	100	5	-5	4	1000	-5	500	-2	40	-5	700	-10	-1	-5	.	-2	-5	7
3201	RA137	35.8605	79.7252	0.3	0.1	0	5	-0.5	600	-5	-5	4	2000	6	550	-2	5	-5	700	-10	1	-5	.	2	-5	10
3202	RA138	35.8303	79.6831	0.3	0.1		10	0.5	500	5	-5	6	3000	-5	1500	-2	15	5	700	-10	-1	-5	.	-2	20	10
3203	RA139	35.8017	79.6697	0.3	0.1	2	17	0.5	300	12	5	7	1000	5	750	-2	10	-5	800	-10	2	-5	.	-2	-5	15
3204	RA140	35.8385	79.6551	0.6	0.1	0	15	0.5	200	12	-5	8	1000	-5	1000	-2	10	5	700	-10	4	-5	.	-2	-5	15
3205	RA141	35.8109	79.6417	0.4	0.2	1	42	1.0	300	17	-5	10	3000	9	1150	-2	15	5	1100	12	-1	-5	.	-2	10	35
3206	RA142	35.8306	79.6533	0.3	0.2	3	27	0.5	400	12	-5	7	2000	-5	1400	-2	20	-5	800	-10	-1	-5	.	-2	5	15
3207	RA143	35.8112	79.5894	0.4	0.2	0	15	1.0	-100	12	5	17	2000	11	1950	-2	30	5	1000	12	-1	5	.	-2	10	15
3208	RA144	35.7884	79.6326	0.3	-0.1	2	5	-0.5	200	-5	-5	5	2000	9	800	-2	25	-5	800	-10	1	-5	.	-2	-5	10
3209	RA145	35.7676	79.6012	0.3	0.1	0	22	0.5	400	7	-5	9	2000	6	650	-2	10	-5	1000	-10	1	-5	.	-2	5	15

CHAPEL HILL 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
55	AL503	35.9623	79.5314	6.6	360	0.074	.	10400	.	12230	86	22280	0.3	0.2	18	-0.001
56	AL504	35.9174	79.5273	7.8	220	0.043	67	5400	.	5720	17	8530	-0.1	0.2	14	-0.001
57	AL505	35.8795	79.5275	6.0	220	0.043	.	16700	.	.	32	19440	-0.1	0.2	555	-0.001
58	AL506	35.8634	79.4633	6.0	140	0.019	72	8700	.	3690	.	3870	-0.1	0.1	42	-0.001
59	AL507	35.8714	79.4061	6.6	700	0.201	517	68100	.	12660	979	12020	-0.1	0.2	50	-0.001
60	AL508	35.8708	79.3687	5.4	180	0.018	53	19300	.	3350	.	13340	-0.1	0.1	36	-0.001
61	AL509	35.8791	79.3023	5.4	140	0.010	116	14700	.	1710	25	10680	-0.1	0.0	26	-0.001
62	AL510	35.9191	79.3011	5.8	70	0.020	46	6500	.	410	3	4980	-0.1	0.2	63	-0.001
63	AL511	35.9138	79.3550	6.1	65	0.010	37	4800	88	1560	14	4050	0.4	0.1	24	-0.001
64	AL512	35.9106	79.4072	6.2	700	0.046	624	87800	.	15900	.	22300	-0.1	0.0	.	-0.001
65	AL513	35.9123	79.4752	6.3	20	0.008	.	11500	.	.	30	5150	0.3	0.4	14	-0.001
66	AL514	35.9557	79.4719	5.6	260	0.021	.	31700	.	.	59	23530	-0.1	0.0	15	-0.001
67	AL515	35.9628	79.4121	6.2	200	0.007	136	15200	.	4110	29	15810	0.7	0.0	61	-0.001
68	AL516	35.9637	79.3609	6.2	140	0.098	97	10200	.	.	26	M	-0.1	0.7	93	-0.001
69	AL517	35.9635	79.2980	6.0	75	0.013	66	7700	.	.	13	3140	0.1	0.1	30	-0.001
983	CH501	35.7401	79.1976	7.9	240	0.042	.	11800	107	.	249	21360	-0.1	0.1	63	-0.001
984	CH502	35.7382	79.2435	8.0	240	0.011	80	10600	192	.	.	18620	-0.1	0.0	86	-0.001
985	CH503	35.7333	79.2977	6.7	200	-0.002	33	40100	.	.	215	17410	0.6	0.0	107	-0.001
986	CH504	35.7269	79.3557	7.1	62	-0.002	.	8800	40	.	194	13080	6.9	0.0	90	-0.001
987	CH505	35.7385	79.4133	7.1	458	0.063	.	50100	119	.	930	20970	-0.1	0.1	75	-0.001
988	CH506	35.7389	79.4657	7.4	118	0.004	.	30200	24	.	211	21520	1.6	0.0	170	-0.001
989	CH507	35.7385	79.5325	7.3	291	0.044	.	33500	175	.	240	18980	-0.1	0.1	85	0.210
990	CH508	35.7779	79.5211	7.2	140	-0.002	.	23000	104	.	195	18560	2.6	0.0	89	-0.001
991	CH509	35.7772	79.4708	6.6	300	0.025	10	28900	181	.	255	26510	1.0	0.0	70	0.230
992	CH510	35.8242	79.5270	5.8	130	-0.002	.	18100	61	.	214	16000	-0.1	0.0	100	-0.001
993	CH511	35.8189	79.4660	6.4	355	0.030	536	55500	.	.	226	30030	-0.1	0.0	29	-0.001
994	CH512	35.8195	79.4134	5.9	80	0.007	465	25000	57	.	181	18780	0.6	0.0	123	-0.001
995	CH513	35.7818	79.4157	5.9	111	0.005	.	19700	.	.	179	20470	0.6	0.0	123	-0.001
996	CH514	35.7757	79.3601	6.0	230	0.011	.	55100	.	.	282	25540	-0.1	0.0	104	-0.001
997	CH515	35.8209	79.3605	6.5	192	-0.002	.	19200	50	.	272	16440	-0.1	0.0	90	-0.001
998	CH516	35.8255	79.3007	6.3	95	-0.002	542	28600	.	.	210	20170	0.4	0.0	113	0.220
999	CH517	35.7744	79.2973	6.5	470	0.043	30	74300	.	47480	.	24070	0.9	0.0	75	-0.001
1000	CH518	35.7747	79.2415	6.5	357	0.082	35	38300	96	.	309	26320	0.8	0.2	93	0.100
1001	CH519	35.8179	79.2382	7.2	370	0.330	292	43200	105	.	239	23850	0.6	0.8	47	-0.001
1002	CH520	35.8652	79.2374	6.7	280	0.076	938	19700	290	.	429	19350	-0.1	0.2	100	-0.001
1003	CH521	35.8239	79.1815	5.9	250	0.018	.	30000	67	.	190	24620	0.5	0.0	85	-0.001

CHAPEL HILL 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
1004	CH522	35.8120	79.1178	6.3	160	0.010	.	20500	242	.	206	22040	1.1	0.0	101	-0.001
1005	CH523	35.7831	79.1246	6.8	201	-0.002	604	15300	259	.	259	18000	7.9	0.0	84	-0.001
1006	CH524	35.7671	79.1825	7.3	181	0.033	31	10500	98	.	204	14690	2.2	0.1	91	-0.001
1007	CH525	35.7705	79.0942	6.4	135	0.009	.	26100	45	.	197	17570	0.4	0.0	88	-0.001
1008	CH526	35.8104	79.0743	6.1	100	-0.002	.	16500	155	.	184	21300	0.4	0.0	88	-0.001
1009	CH527	35.8185	79.0184	6.6	600	1.149	1454	115500	.	.	589	53420	1.0	1.9	269	-0.001
1010	CH528	35.7765	79.0108	6.9	80	0.163	82	17000	107	.	187	18400	0.7	2.0	618	0.340
1014	CH532	35.7262	79.0044	6.7	155	0.371	33	21500	86	.	236	31760	-0.1	2.3	77	-0.001
1015	CH533	35.6764	79.0339	7.0	180	-0.002	17	19500	49	.	429	11780	-0.1	0.0	95	-0.001
1016	CH534	35.6353	79.0195	6.9	1005	17.000	1933	533000	.	.	848	371000	13.2	16.9	162	-0.001
1017	CH535	35.5878	79.0275	7.5	354	0.029	96	25100	54	.	204	23030	-0.1	0.0	99	-0.001
1018	CH536	35.5511	79.0218	6.1	100	0.054	.	23300	64	.	206	19200	1.2	0.5	305	0.080
1021	CH539	35.7060	79.0769	7.5	320	-0.002	.	13600	.	11820	.	8610	1.8	0.0	21	-0.001
1022	CH540	35.7314	79.0830	7.2	100	-0.002	14	5200	34	.	36	5170	0.5	0.0	36	-0.001
1023	CH541	35.6870	79.4723	6.9	122	-0.002	12	10800	.	.	37	5190	0.5	0.0	115	-0.001
1024	CH542	35.6901	79.5249	7.7	280	0.102	.	6700	41	.	109	6390	-0.1	0.3	43	-0.001
1025	CH543	35.6403	79.5247	6.4	49	-0.002	.	3900	.	.	29	3460	0.2	0.0	35	-0.001
1026	CH544	35.6015	79.5222	6.9	1150	1.279	.	M	.	.	169	90300	-0.1	1.1	96	-0.001
1027	CH545	35.5498	79.5261	7.0	1390	4.711	395	373300	.	.	2420	57300	-0.1	3.3	.	-0.001
1028	CH546	35.5500	79.4712	7.3	600	0.025	.	135200	.	.	.	19380	-0.1	0.0	27	-0.001
1029	CH547	35.5946	79.4710	7.7	600	0.075	.	79600	.	.	187	31060	-0.1	0.1	47	-0.001
1030	CH548	35.6380	79.4684	6.5	140	-0.002	.	25800	.	.	41	9500	-0.1	0.0	19	-0.001
1031	CH549	35.6803	79.4164	6.4	340	-0.002	.	40700	.	12470	.	9300	-0.1	0.0	8	-0.001
1032	CH550	35.6447	79.4159	6.9	800	1.031	.	60500	.	.	434	24660	-0.1	1.2	33	-0.001
1033	CH551	35.5969	79.4140	7.6	340	0.023	28	33700	.	.	142	13340	-0.1	0.0	30	-0.001
1034	CH552	35.5550	79.4140	6.6	140	-0.002	19	6700	25	.	45	6280	0.8	0.0	31	-0.001
1035	CH553	35.5485	79.3732	7.0	450	0.307	.	44600	.	.	.	15900	-0.1	0.6	23	-0.001
1036	CH554	35.5976	79.3597	7.4	620	0.739	.	76200	.	.	105	26720	0.5	1.1	63	-0.001
1037	CH555	35.6467	79.3501	5.7	71	-0.002	.	7900	.	.	50	3660	0.2	0.0	31	-0.001
1038	CH556	35.6375	79.3073	6.5	140	-0.002	41	9000	.	.	35	4030	1.2	0.0	24	-0.001
1039	CH557	35.6802	79.3569	6.7	180	-0.002	.	5200	28	.	34	5240	0.5	0.0	25	-0.001
1040	CH558	35.6884	79.3022	6.5	132	-0.002	.	6100	34	.	33	4820	1.2	0.0	27	-0.001
1041	CH559	35.6896	79.2417	7.0	251	-0.002	.	4800	20	.	26	2880	-0.1	0.0	34	-0.001
1042	CH560	35.6818	79.1791	6.5	64	-0.002	.	7100	.	.	42	5300	0.4	0.0	29	-0.001
1043	CH561	35.7281	79.1322	6.4	179	-0.002	13	7000	.	.	.	5040	0.3	0.0	35	-0.001
1044	CH562	35.6862	79.1511	6.4	250	-0.002	.	21400	.	.	44	7500	1.4	0.0	30	-0.001

CHAPEL HILL 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
1045	CH563	35.6382	79.0814	6.2	102	0.013	.	5800	.	.	24	4180	0.5	0.1	32	-0.001
1046	CH564	35.6480	79.1333	6.4	195	-0.002	25	7100	16	.	36	4420	0.4	0.0	29	-0.001
1047	CH565	35.6330	79.1930	7.2	465	0.072	.	20200	.	.	39	5910	-0.1	0.1	33	-0.001
1048	CH566	35.6061	79.1889	6.8	150	-0.002	.	11000	.	.	23	4490	0.2	0.0	36	-0.001
1049	CH567	35.5940	79.2440	7.2	620	0.066	216	98900	.	.	143	17850	-0.1	0.1	50	-0.001
1050	CH568	35.6399	79.2422	7.2	482	0.042	.	35500	.	.	.	11480	-0.1	0.0	27	-0.001
1051	CH569	35.6008	79.2981	6.5	1300	0.099	.	401200	.	.	.	57050	-0.1	0.0	112	-0.001
2314	GU538	35.9920	79.8460	6.6	202	0.021	53	15700	.	6740	48	17080	7.0	0.1	32	0.160
2315	GU539	35.9956	79.7924	6.5	87	0.030	21	5600	.	3830	.	5060	7.4	0.3	35	-0.001
2321	GU545	35.9990	79.5637	6.8	92	0.017	76	9600	.	3300	.	3290	1.6	0.1	140	-0.001
2322	GU546	35.9508	79.5668	6.6	63	0.015	66	8900	.	1720	15	6940	0.6	0.2	82	-0.001
2323	GU547	35.9035	79.5669	6.6	72	0.040	59	9400	.	5170	.	5060	0.5	0.5	46	-0.001
2324	GU548	35.9029	79.6227	5.9	55	0.022	.	9500	.	.	9	6100	-0.1	0.4	89	-0.001
2325	GU549	35.9499	79.6229	5.7	22	0.010	53	7900	.	.	66	1520	-0.1	0.4	32	-0.001
2326	GU550	35.9939	79.6230	6.0	41	0.017	88	6600	.	.	10	2580	0.3	0.4	28	-0.001
2327	GU551	35.9974	79.6773	6.7	189	0.201	100	12100	88	8420	.	9130	0.8	1.0	40	-0.001
2328	GU552	35.9527	79.6879	7.2	232	0.127	90	12000	.	12160	24	11820	1.0	0.5	29	-0.001
2329	GU553	35.9950	79.7365	6.6	76	0.013	.	6500	42	.	19	4660	5.6	0.1	50	-0.001
2330	GU554	35.9467	79.7395	7.6	239	0.563	87	7500	16	7950	275	8130	-0.1	2.3	32	-0.001
2331	GU555	35.9486	79.7954	6.6	85	0.017	77	7900	29	3580	.	4680	5.5	0.2	46	-0.001
2332	GU556	35.9520	79.8508	6.3	143	0.022	.	20300	.	.	27	20760	1.5	0.1	53	-0.001
2333	GU557	35.9454	79.9145	6.6	232	0.029	15	27100	.	8360	39	23620	1.6	0.1	53	-0.001
2334	GU558	35.9378	79.9581	6.2	150	0.022	89	16300	.	5070	60	10660	1.8	0.1	46	-0.001
2335	GU559	35.9994	79.9101	6.7	108	0.008	55	8200	.	4620	45	4770	0.6	0.0	26	-0.001
2989	LE504	35.5438	79.2991	7.7	182	0.717	58	M	.	M	.	M	-0.1	3.9	.	-0.001
2990	LE505	35.5023	79.2918	7.5	550	0.070	34	14300	261	8010	330	41080	-0.1	0.1	28	-0.001
2991	LE506	35.5026	79.2297	7.6	462	0.511	171	23200	.	4610	52	17430	-0.1	1.1	23	-0.001
2992	LE507	35.5479	79.2404	8.7	172	16.580	.	13500	.	5470	.	8410	6.4	96.4	3	-0.001
2993	LE508	35.5088	79.1781	7.0	237	0.101	.	17300	.	2310	.	9990	1.0	0.4	278	-0.001
2994	LE509	35.5595	79.1751	6.6	172	1.146	12	6000	13	6050	62	10700	3.2	6.6	15	-0.001
2995	LE510	35.5503	79.1278	6.7	103	0.060	.	13400	.	.	61	12050	0.4	0.5	16	-0.001
2996	LE511	35.5918	79.1286	7.7	271	0.200	20	9100	.	1660	4	7840	2.6	0.7	17	-0.001
2997	LE512	35.5981	79.0795	6.4	48	0.166	32	6000	117	6040	.	10270	0.4	3.4	16	-0.001
2998	LE513	35.5092	79.1180	6.7	408	0.048	29	5900	.	.	17	M	-0.1	0.1	14	0.040
2999	LE514	35.5377	79.0644	7.5	1800	0.311	.	M	.	44680	.	M	-0.1	0.1	.	-0.001
3364	MG540	35.5013	79.9618	7.5	75	0.014	.	20400	.	1610	11	9140	0.7	0.1	22	-0.001

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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
3385	MO509	35.5080	79.7327	6.3	88	0.031	.	7300	.	2480	.	5470	-0.1	0.3	12	-0.001
3386	MO510	35.5116	79.6763	6.7	1590	1.395	442	92000	.	20580	.	12980	-0.1	0.8	.	-0.001
3388	MO512	35.5086	79.6211	7.4	1010	1.510	834	138900	.	12050	474	21870	-0.1	1.5	.	-0.001
3389	MO513	35.5029	79.5675	6.9	172	0.055	.	19400	.	2670	12	6270	0.5	0.3	10	-0.001
3390	MO514	35.5064	79.5085	6.8	452	0.056	92	M	.	M	40	M	-0.1	0.1	.	-0.001
3391	MO515	35.5039	79.4635	6.2	161	0.031	73	M	.	M	34	M	-0.1	0.1	60	-0.001
3392	MO516	35.5096	79.3873	6.9	2020	5.464	191	M	.	M	.	M	-0.1	2.7	.	-0.001
3831	OR526	35.9566	79.0194	7.2	400	0.113	.	M	.	5400	362	M	-0.1	0.2	.	-0.001
3832	OR527	35.8996	79.0320	7.4	150	0.180	21	6000	.	4270	169	9950	1.8	1.2	77	-0.001
3840	OR535	35.9690	79.2471	6.0	370	0.008	.	36500	.	14850	.	11190	-0.1	0.0	30	-0.001
3841	OR536	35.9572	79.0790	5.4	20	0.033	13	4100	.	510	17	1480	-0.1	1.6	26	-0.001
3842	OR537	35.9231	79.0866	7.3	310	0.068	91	16600	.	11730	282	8340	-0.1	0.2	12	-0.001
3843	OR538	35.9216	79.1368	7.1	340	0.114	153	19900	.	17210	38	12130	0.4	0.3	12	-0.001
3844	OR539	35.8756	79.1220	6.2	60	0.024	.	5200	72	950	.	6240	0.5	0.4	17	-0.001
3845	OR540	35.9621	79.1373	7.6	250	0.024	19	5000	37	2100	51	5720	-0.1	0.1	11	-0.001
3846	OR541	35.9645	79.1942	5.7	40	0.023	5	4400	.	.	7	M	-0.1	0.5	81	-0.001
3847	OR542	35.9156	79.2390	6.4	60	0.011	.	4300	58	1690	.	4750	0.5	0.1	17	-0.001
3848	OR543	35.9169	79.1866	5.7	40	0.007	20	4000	.	660	10	4050	0.2	0.1	22	-0.001
3849	OR544	35.8779	79.2000	6.8	1600	0.368	1575	M	.	76400	.	32980	-0.1	0.2	24	-0.001
3850	OR545	35.8723	79.0778	5.9	80	0.026	36	6900	.	940	.	7390	0.1	0.3	14	-0.001
3851	OR546	35.8797	79.0434	6.2	110	0.031	35	5500	25	2200	.	7560	0.2	0.2	18	-0.001
4235	RA501	35.7233	79.7384	6.5	92	0.022	129	14000	27	4380	.	5520	0.7	0.2	37	-0.001
4236	RA502	35.7273	79.6871	6.7	90	0.025	.	M	.	M	23	M	-0.1	0.2	65	-0.001
4237	RA503	35.7273	79.6269	6.3	44	0.037	152	14900	.	570	24	4040	0.3	0.8	298	-0.001
4238	RA504	35.7233	79.5707	6.2	478	0.021	575	M	.	M	108	M	-0.1	0.0	14	-0.001
4239	RA505	35.7716	79.5684	6.3	38	0.032	248	14700	.	.	19	3240	0.3	0.8	64	-0.001
4240	RA506	35.8149	79.5744	6.3	63	0.022	182	10400	35	1540	30	5920	0.2	0.3	27	-0.001
4241	RA507	35.8747	79.5727	6.5	78	0.026	167	16600	.	3010	.	5940	1.0	0.3	41	-0.001
4242	RA508	35.8690	79.6212	6.6	120	0.019	135	27100	.	1610	.	16150	0.3	0.1	33	-0.001
4243	RA509	35.9024	79.6752	7.0	92	0.044	163	14200	.	3670	26	5180	0.6	0.4	23	-0.001
4244	RA510	35.8618	79.6956	6.6	55	0.028	146	11500	.	.	57	M	-0.1	0.5	26	-0.001
4245	RA511	35.8240	79.6844	7.0	106	0.002	107	16400	.	4650	219	5830	-0.1	0.0	18	-0.001
4246	RA512	35.8245	79.6264	6.7	152	0.128	84	13200	141	1360	322	6060	-0.1	0.8	27	-0.001
4247	RA513	35.7732	79.6273	6.6	101	0.023	128	15800	.	1390	16	8980	0.5	0.2	45	-0.001
4248	RA514	35.7636	79.6798	6.5	82	0.040	181	14700	.	2370	145	5950	-0.1	0.4	25	-0.001
4249	RA515	35.7757	79.7424	6.4	48	0.026	57	13000	.	760	.	5010	-0.1	0.5	99	0.090

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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
4250	RA516	35.6796	79.7389	7.5	287	0.032	182	26500	.	6820	199	M	-0.1	0.1	19	0.070
4251	RA517	35.6765	79.6814	6.9	38	0.031	72	11900	.	1520	37	1730	-0.1	0.8	27	-0.001
4252	RA518	35.6691	79.6269	6.4	48	0.022	.	14900	.	.	14	5210	0.3	0.4	26	-0.001
4253	RA519	35.6863	79.5864	7.1	700	0.127	998	M	.	M	469	M	-0.1	0.1	44	-0.001
4254	RA520	35.6402	79.5773	7.2	130	0.070	139	17200	.	2440	157	5820	-0.1	0.5	47	-0.001
4255	RA521	35.5888	79.5721	6.9	1160	0.264	.	M	.	M	605	M	-0.1	0.2	.	-0.001
4256	RA522	35.5495	79.5679	7.3	32	0.027	111	M	.	M	20	M	-0.1	0.8	52	-0.001
4257	RA523	35.5424	79.6280	6.3	78	0.026	.	13700	.	1310	.	3480	-0.1	0.3	210	-0.001
4258	RA524	35.5900	79.6280	7.4	311	0.445	.	26400	.	6550	431	M	-0.1	1.4	32	-0.001
4259	RA525	35.6336	79.6246	6.7	211	0.092	206	39800	.	12100	.	13190	-0.1	0.4	33	-0.001
4260	RA526	35.6299	79.6825	6.7	90	0.017	.	15900	.	2710	19	8580	0.6	0.1	29	-0.001
4261	RA527	35.5896	79.6839	6.7	70	0.051	111	13200	.	850	6	7280	0.6	0.7	29	-0.001
4262	RA528	35.5415	79.6784	6.4	210	0.034	.	25100	.	8290	.	16610	-0.1	0.1	54	-0.001
4263	RA529	35.5398	79.7444	6.4	47	0.047	86	10900	39	1130	12	3550	0.3	1.0	32	-0.001
4264	RA530	35.5971	79.7232	6.6	55	0.033	145	14400	.	2070	43	7190	0.6	0.6	42	-0.001
4265	RA531	35.6362	79.7392	6.6	82	0.043	101	17100	.	.	12	M	0.2	0.5	25	-0.001
4266	RA532	35.6821	79.7934	6.7	87	0.022	90	6100	74	3790	.	8120	1.0	0.2	20	-0.001
4267	RA533	35.6347	79.8505	7.1	72	0.017	134	11200	.	5240	.	3690	0.8	0.2	44	-0.001
4268	RA534	35.5945	79.8578	6.4	82	0.034	121	16100	.	3620	.	10180	0.5	0.4	30	-0.001
4269	RA535	35.5422	79.9051	6.1	132	0.026	147	23800	.	6220	.	7670	-0.1	0.2	26	-0.001
4270	RA536	35.5431	79.8489	6.5	42	0.038	53	10600	.	540	8	3010	0.2	0.9	26	-0.001
4271	RA537	35.5406	79.7917	6.5	65	0.036	93	6500	46	3390	.	6530	0.5	0.5	46	0.030
4272	RA538	35.5897	79.7969	6.6	51	0.034	94	10400	.	1220	13	5640	0.8	0.6	26	-0.001
4273	RA539	35.6308	79.8003	6.0	51	0.038	113	13600	.	880	13	5260	-0.1	0.7	36	-0.001
4274	RA540	35.7260	79.7957	6.5	69	0.038	46	9800	46	2820	20	7020	1.2	0.5	25	-0.001
4275	RA541	35.7289	79.9573	6.8	63	0.038	81	11200	.	3780	.	4510	0.2	0.6	29	-0.001
4281	RA547	35.8921	79.9359	6.8	400	0.088	285	47500	.	16530	.	37670	0.5	0.2	.	-0.001
4282	RA548	35.8616	79.9046	6.8	70	0.018	93	11000	.	1600	.	4770	10.4	0.2	40	-0.001
4283	RA549	35.8690	79.9626	7.5	190	0.170	88	7500	.	16740	42	9250	0.2	0.8	31	-0.001
4284	RA550	35.8129	79.9589	6.0	90	0.033	39	M	.	M	36	M	-0.1	0.3	25	0.150
4285	RA551	35.7233	79.9110	7.1	80	0.040	92	9100	70	2810	.	7100	0.7	0.5	33	-0.001
4286	RA552	35.7719	79.9608	7.1	80	0.031	102	13100	57	3780	.	6240	3.2	0.3	11	-0.001
4287	RA553	35.7721	79.9064	6.9	160	0.045	.	25100	.	.	103	M	-0.1	0.2	17	-0.001
4288	RA554	35.8158	79.9076	6.8	290	0.039	140	22100	.	32950	.	15070	0.9	0.1	23	-0.001
4289	RA555	35.8159	79.8457	6.5	30	0.022	120	13300	.	1270	11	1360	-0.1	0.7	39	-0.001
4290	RA556	35.8686	79.8498	6.7	130	0.031	.	20900	.	7810	.	8590	8.0	0.2	15	-0.001

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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
4291	RA557	35.9049	79.8553	7.4	230	0.626	.	16100	.	.	98	M	-0.1	2.7	12	0.070
4292	RA558	35.9064	79.9023	7.0	90	0.038	85	10200	.	1400	18	7630	0.4	0.4	26	-0.001
4293	RA559	35.9081	79.8047	6.8	90	0.024	.	17400	.	.	32	8410	1.6	0.2	18	-0.001
4294	RA560	35.8567	79.7950	7.1	60	0.100	120	11600	.	1660	8	3060	0.4	1.6	24	-0.001
4295	RA561	35.9048	79.7391	6.8	60	0.022	115	6800	53	3680	.	6710	0.7	0.3	23	-0.001
4296	RA562	35.8590	79.7416	6.7	60	0.015	.	19800	.	.	26	M	-0.1	0.2	12	-0.001
4297	RA563	35.8150	79.7360	6.3	90	0.029	145	32000	.	.	4	18560	-0.1	0.3	27	0.130
4298	RA564	35.8216	79.7857	6.8	60	0.039	65	14700	.	.	.	9070	-0.1	0.6	948	0.500
4299	RA565	35.7769	79.8049	6.9	90	0.022	106	12100	.	7940	56	7470	2.1	0.2	18	-0.001
4300	RA566	35.7703	79.8482	6.4	260	0.052	.	50400	.	24120	17	7100	1.6	0.2	.	-0.001
4301	RA567	35.7269	79.8581	7.1	150	0.165	179	22300	.	7660	.	10520	0.6	1.1	18	-0.001
4302	RA568	35.6729	79.9028	6.8	60	0.041	114	15200	.	1410	143	3040	-0.1	0.6	16	-0.001
4303	RA569	35.6810	79.9580	7.1	85	0.042	109	14300	33	2400	.	5960	1.3	0.4	16	-0.001
4305	RA571	35.6346	79.9083	7.4	150	0.033	158	24400	.	11980	44	9280	-0.1	0.2	31	-0.001
4306	RA572	35.6436	79.9489	7.3	80	0.074	126	13200	.	3280	.	7330	1.8	0.9	20	-0.001
4310	RA576	35.5618	79.9632	7.1	85	0.096	87	M	.	M	27	M	-0.1	1.1	14	-0.001
4311	RA577	35.5933	79.9580	7.4	50	0.042	116	12200	.	1890	12	4670	0.7	0.8	16	0.080
4312	RA578	35.5874	79.8905	5.8	20	0.040	127	13300	.	.	22	1740	-0.1	2.0	25	-0.001
4313	RA579	35.6810	79.8492	6.4	45	0.029	95	M	.	M	3	M	-0.1	0.6	14	0.070