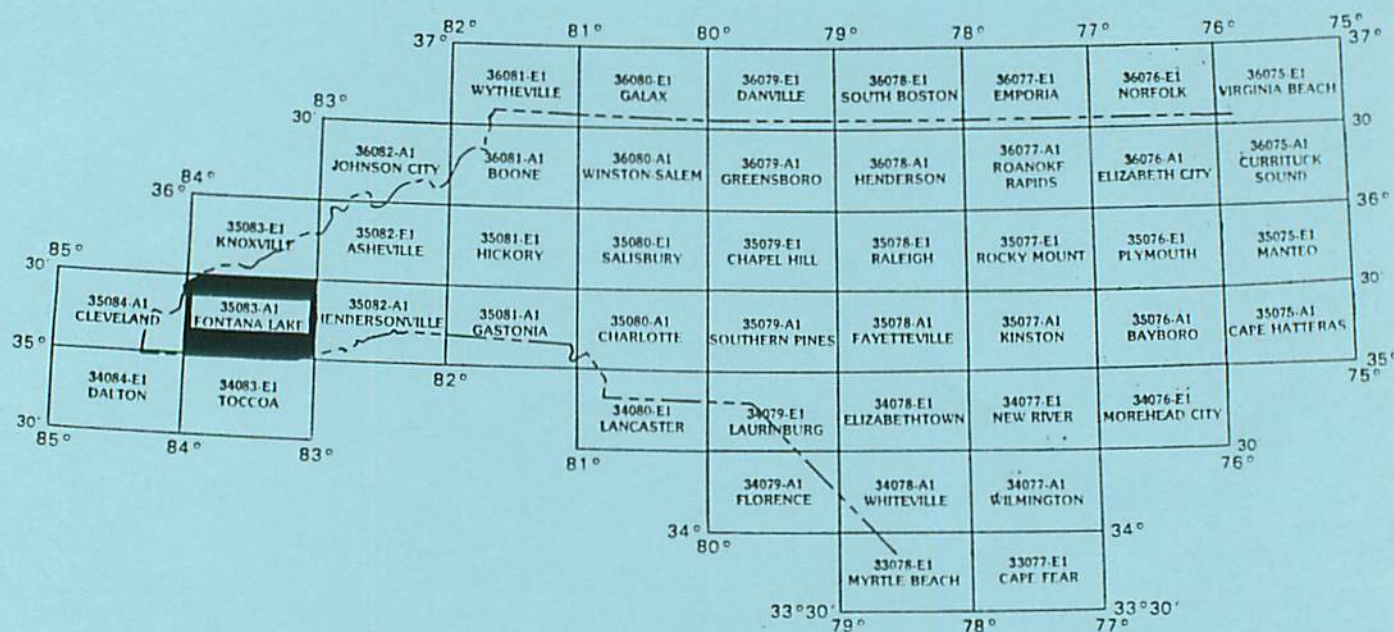


**Listing of Concentrations of Variables
of
Stream Sediment, Stream Water, and Groundwater
for the
Fontana Lake and Toccoa 30 x 60 - Minute Quadrangles
-NURE Database**

by
Robert H. Carpenter and Jeffrey C. Reid



**NORTH CAROLINA GEOLOGICAL SURVEY
OPEN-FILE REPORT 93-5**

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

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

July, 1993

GEOLOGICAL SURVEY SECTION

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

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

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

Jeffrey C. Reid
Chief Geologist

**Listing of Concentrations of Variables
of
Stream Sediment, Stream Water, and Groundwater
for the
Fontana Lake and Toccoa 30 x 60 - Minute Quadrangles
-NURE Database**

by
Robert H. Carpenter and Jeffrey C. Reid

INTRODUCTION

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

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

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

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

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

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

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

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

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

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

REFERENCES

- Reid, Jeffrey C., 1991 (revised 1993), A geochemical atlas of North Carolina: North Carolina Geological Survey, Bulletin 93, text plus 45 plates.
- Reid, Jeffrey C., 1993, A hydrogeochemical atlas of North Carolina: North Carolina Geological Survey, Bulletin 94, text plus 26 plates.

- Reid, Jeffrey C., and Carpenter, Robert H., 1993a, Listings of concentrations (stream sediments) of variables which equal or exceed the 90th percentile, and pH and conductivity below the 10th percentile in the North Carolina portion of the NURE database: North Carolina Geological Survey, Open-File Report 93-1, introductory text plus 178 pages of data.
- Reid, Jeffrey C., and Carpenter, Robert H., 1993b, Listing of concentrations (groundwater and stream water) of variables which equal or exceed the 90th percentile, and pH and conductivity below the 10th percentile in the North Carolina portion of the NURE data base: North Carolina Geological Survey, Open-File Report 93-2, introductory text plus 162 pages of data.
- Sargent, K.A., Cook, J.R., and Fay, W.M., 1982, Data report: North and South Carolina, National Uranium Resource Evaluation Program, Hydrochemical and stream sediment reconnaissance: E.I. du Pont de Nemours & Co., Savannah River Laboratory, Aiken, S.C., under contract to the U.S. Dept of Energy, contract DE-AC09-76SR000001 (DPST-81-146-22; GBJX-102), 45 p. plus microfiche.

CONTENTS

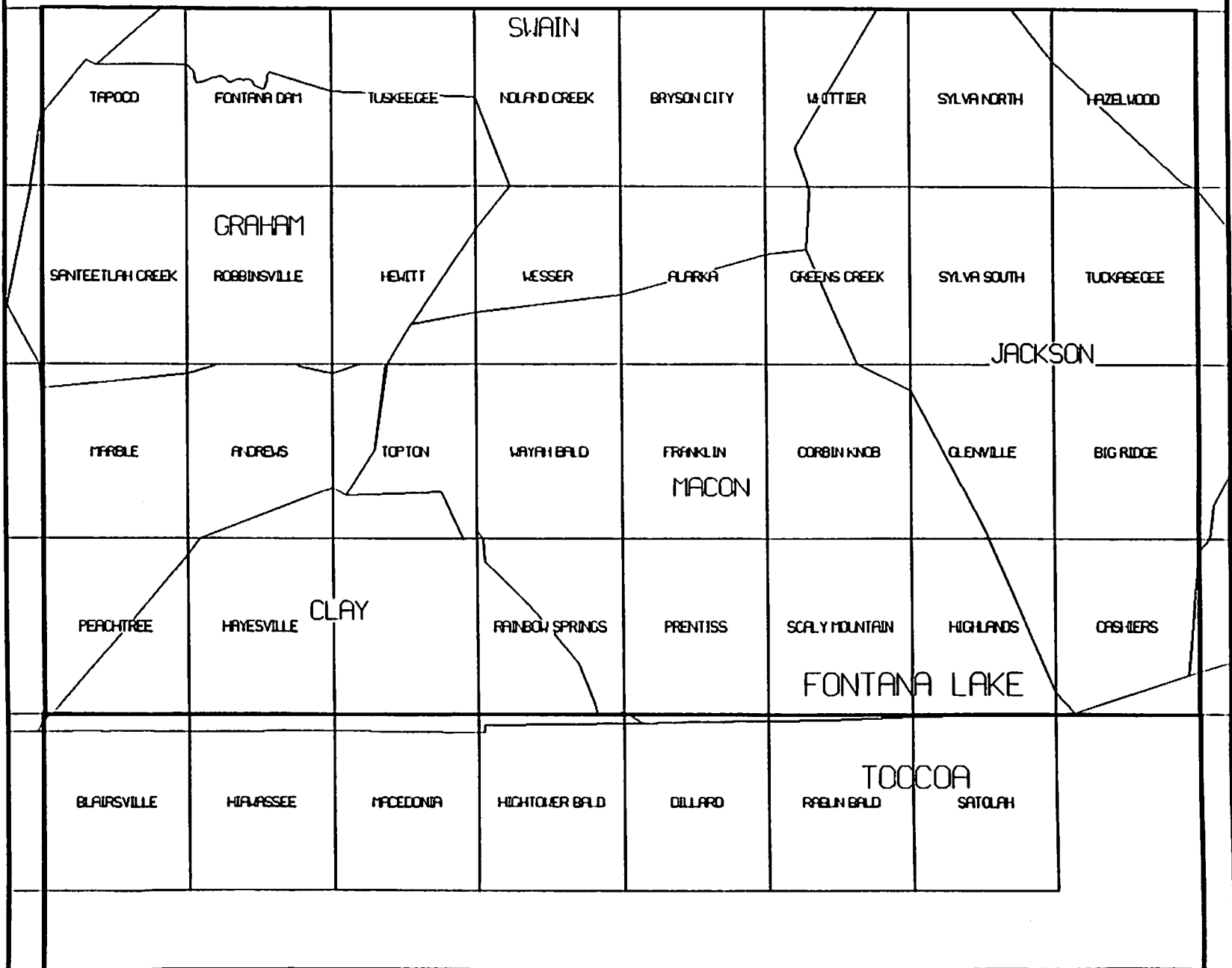
	<u>page</u>
Figure 1. Map showing outlines of Fontana Lake and Toccoa 30 x 60 - minute quadrangles.....	1
Figure 2. Stream sediment sites - Fontana Lake and Toccoa 30 x 60 - minute quadrangles.....	2
Figure 3. Groundwater sites - Fontana Lake and Toccoa 30 x 60 - minute quadrangles.....	3
Listing of Sediment Analyses - Fontana Lake 30 x 60 - minute quadrangle	4
Listing of Sediment Analyses - Toccoa 30 x 60 - minute quadrangle.....	15
Listing of Supplemental Sediment Analysis - Toccoa 30 x 60 - minute quadrangle.....	16
Listing of Groundwater Analyses - Fontana Lake 30 x 60 - minute quadrangle.....	17
Listing of Groundwater Analyses - Toccoa 30 x 60 - minute quadrangle.....	22

Note: There are no supplemental analyses for the Fontana Lake 30 x 60 minute quadrangle.]

COUNTY CODES

<u>Code</u>	<u>County</u>
CE	Cherokee
CY	Clay
GR	Graham
HY	Haywood
JA	Jackson
MA	Macon
SW	Swain
TR	Transylvania

Figure 1. Map Showing Outlines of Fontana Lake and Toccoa 30 x 60 Minute Quadrangles and Contained 7 - 1/2 Minute Quadrangles.



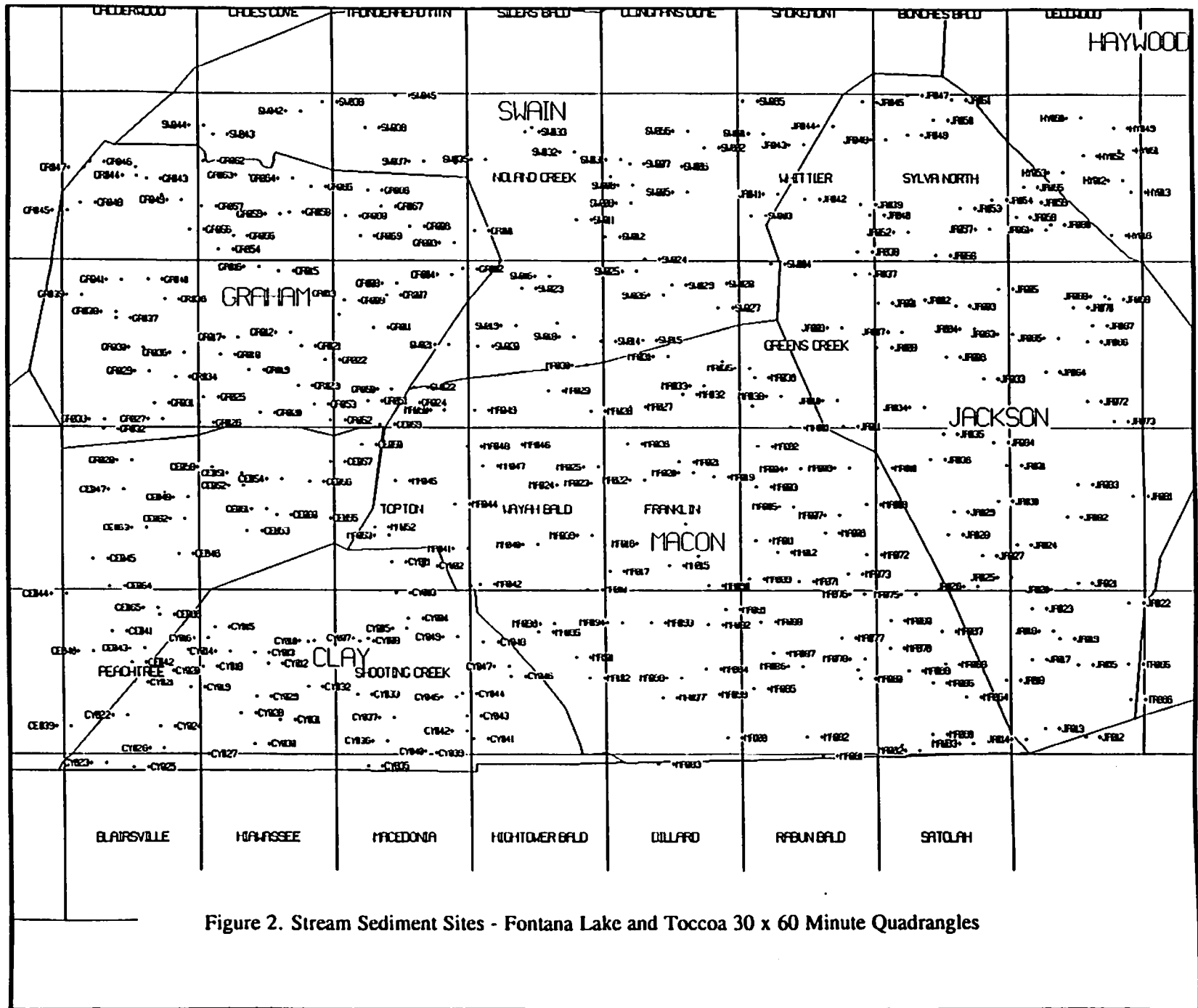


Figure 2. Stream Sediment Sites - Fontana Lake and Toccoa 30 x 60 Minute Quadrangles

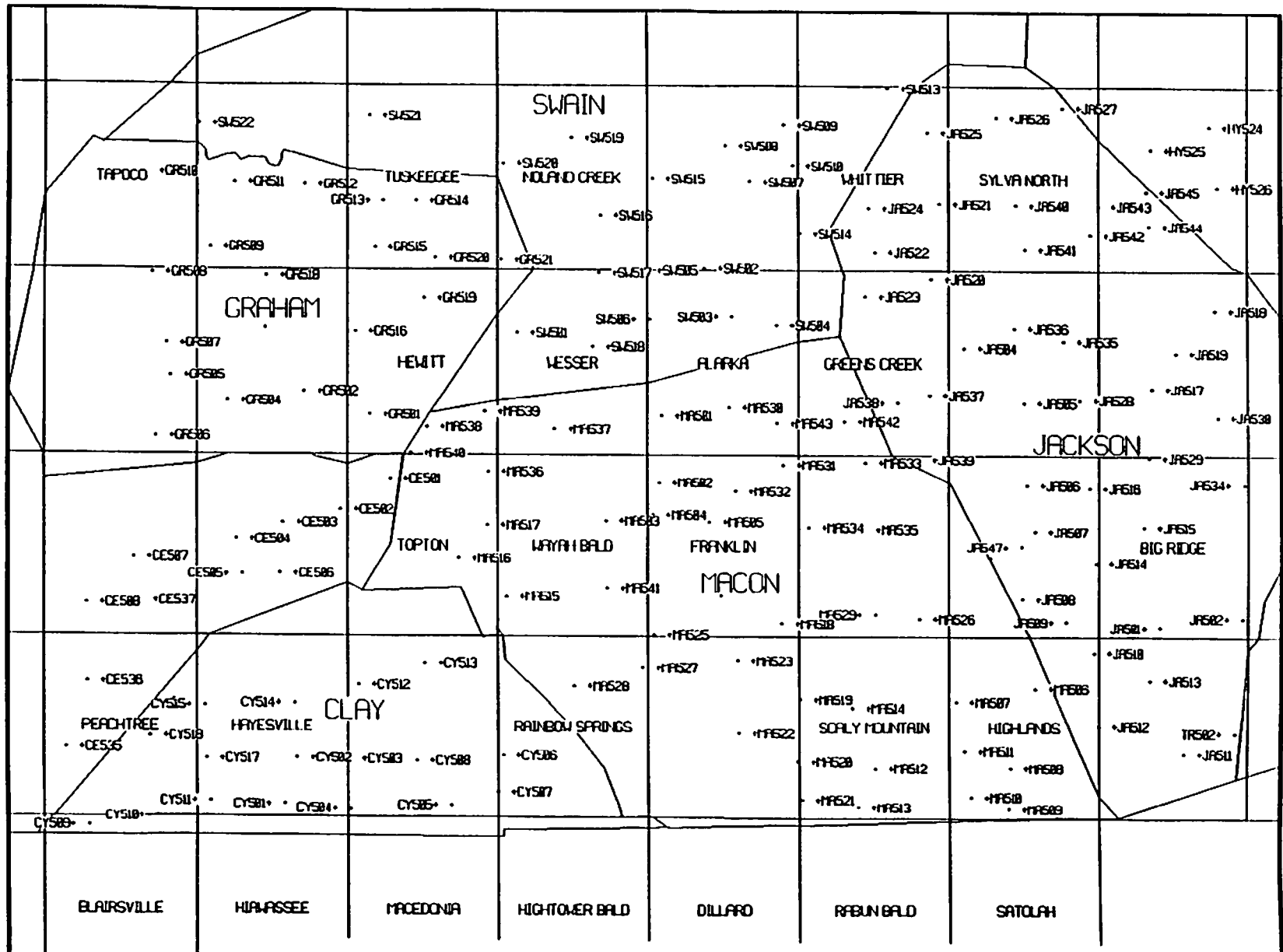


Figure 3. Groundwater Sites - Fontana Lake and Toccoa 30 x 60 Minute Quadrangles

FONTANA LAKE 100K SHEET - STREAM SEDIMENT

County	Lat	Long	pH	Cond	U	Th	Hf	Al	Ce	Fe	Mn	Na	Sc	Ti	V	Dy	Eu	La	Sm	Yb	Lu	Au
ID				um/cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
1000	CE039	35.0208	83.9934	7.3	18	3.0	-2	30	23100	37	41900	980	2600	5.8	34800	80	M -1.0	35	M	M	0.8	
1001	CE040	35.0783	83.9728	7.4	31	2.8	7	27	24200	34	29200	650	2300	5.4	19400	40	1.6 1.5	16	M	3.2	-0.3	
1002	CE041	35.0934	83.9556	7.2	50	3.9	7	57	22700	-20	48100	1440	2500	6.8	38000	60	4.6 4.6	22	M	3.9	1.0	
1003	CE042	35.0698	83.9377	7.6	20	2.0	13	7	41400	56	76500	990	3400	6.6	17600	190	2.9 -1.0	25	9	M	0.4	
1004	CE043	35.0804	83.9260	6.9	83	2.9	9	34	22500	-20	31000	410	1800	2.8	17600	30	4.4 -1.0	48	M	M	-0.3	
1005	CE044	35.1220	83.9971	7.5	40	2.7	3	4	53300	68	20300	540	17600	4.7	7500	60	3.7 4.0	21	M	4.6	-0.3	
1006	CE045	35.1487	83.9725	7.1	10	3.0	11	18	33900	48	19500	260	2600	4.5	7100	30	3.6 -1.0	24	4	2.3	0.4	0.016
1007	CE046	35.1527	83.8937	7.0	11	2.3	8	17	36900	60	37800	790	2700	8.5	8900	60	6.1 -1.3	30	4	M	0.4	
1008	CE047	35.2019	83.9449	6.8	10	3.1	9	16	40000	84	41700	460	3000	7.1	7400	50	8.3 M	45	7	M	0.3	
1009	CE048	35.1997	83.9067	6.7	10	4.5	15	28	39400	109	28100	480	3000	5.7	13800	40	8.6 -1.5	49	11	M	0.5	
1010	CE049	35.1961	83.8847	6.6	16	3.1	8	20	45200	63	25000	440	4600	6.0	6500	40	6.2 -1.0	29	4	M	0.5	
1011	CE050	35.2370	83.7241	6.9	11	2.8	19	35	51500	157	74100	950	5400	17.9	12900	60	8.6 4.5	57	11	12.8	1.2	
1012	CE051	35.2146	83.8349	6.6	15	3.0	8	17	45000	27	20100	390	3800	7.1	8200	50	M -1.9	14	3	M	0.4	
1013	CE052	35.2050	83.8336	6.8	78	4.1	17	14	38500	163	42700	700	1600	10.7	19100	90	12.5 M	67	23	M	0.8	
1014	CE053	35.1704	83.8299	6.7	20	3.0	14	43	69300	157	102600	1270	7900	24.7	13700	110	8.4 3.1	76	10	9.6	1.5	
1015	CE054	35.2103	83.7987	6.7	18	3.2	6	32	36900	-34	42300	920	4200	7.6	15500	40	7.2 M	27	5	7.8	-0.3	
1016	CE055	35.1806	83.7668	7.0	18	2.7	6	23	36200	19	19500	340	1300	6.4	4800	30	M -1.0	10	2	M	-0.2	
1017	CE056	35.2082	83.7727	6.9	36	3.4	7	31	40900	35	33800	770	5600	6.6	9800	40	5.2 -1.0	23	7	M	0.6	
1018	CE057	35.2238	83.7532	6.8	33	2.3	16	17	34000	95	49400	540	4000	11.9	5700	30	3.6 -1.0	35	5	5.1	1.1	
1019	CE058	35.2192	83.8622	6.6	10	2.4	5	15	42200	25	16200	350	3900	5.5	9200	40	5.9 -1.0	17	5	M	-0.3	
1020	CE059	35.2522	83.7072	6.8	12	3.1	6	27	39400	-20	42900	1010	4900	8.1	12600	40	3.3 M	14	6	M	0.7	
1021	CE060	35.1829	83.8033	6.6	11	1.5	-1	16	22300	-20	56800	1390	400	9.3	43800	30	M -1.4	12	2	M	-0.2	
1022	CE061	35.1872	83.8127	6.7	18	3.6	7	29	48900	73	48100	1240	5500	8.1	15900	60	6.7 -1.0	34	7	7.5	0.6	
1023	CE062	35.1796	83.8877	7.1	21	1.9	6	9	37700	98	84300	750	2900	18.7	17000	60	1.7 M	43	7	M	0.8	
1024	CE063	35.1726	83.9240	7.1	32	2.7	5	31	35300	57	33100	520	3500	7.3	10600	50	4.3 M	37	4	8.8	-0.5	
1025	CE064	35.1280	83.9577	6.8	12	1.9	7	13	25600	36	51500	830	3100	6.7	14700	80	4.4 -1.2	16	3	M	0.3	
1026	CE065	35.1113	83.9138	6.8	30	4.9	11	137	28400	80	83700	870	1700	13.3	27000	40	9.0 -2.0	51	11	14.4	1.8	
1027	CE066	35.1062	83.9116	7.1	15	4.4	8	60	31600	35	27500	490	1600	6.0	13000	40	4.9 -1.0	25	5	4.5	1.0	
1032	CE071	35.0314	83.9623	7.3	28	2.6	4	23	24200	52	55000	840	17000	7.9	25700	50	1.4 -1.0	55	3	M	-0.3	
1623	CY001	35.1469	83.6972	6.7	18	5.0	13	40	39800	103	34500	1040	6000	7.2	13100	50	11.4 M	65	11	9.3	1.1	
1624	CY002	35.1438	83.6683	7.3	12	5.9	13	35	35800	99	23700	700	2400	5.9	5500	50	11.3 3.5	50	9	7.8	1.3	
1625	CY003	35.1235	83.6936	6.9	17	3.1	8	17	46000	71	28300	500	4200	8.0	6500	50	5.5 3.2	35	8	3.3	0.5	
1626	CY004	35.1038	83.6823	7.0	18	5.2	14	29	M	109	34200	M	2500	7.5	4000	M	M -1.3	52	6	5.7	0.9	
1627	CY005	35.0960	83.6837	7.2	32	4.4	20	30	M	113	41300	850	5800	13.1	M	M	M 0.9	63	5	4.5	1.0	

FONTANA LAKE 100K SHEET - STREAM SEDIMENT

County	Lat	Long	pH	Cond	U	Th	Hf	Al	Ce	Fe	Mn	Na	Sc	Ti	V	Dy	Eu	La	Sm	Yb	Lu	Au	
ID				um/cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
1628	CY006	35.0890	83.7034	7.0	23	4.5	17	40	38100	136	46500	M	4600	12.7	8200	50	M	4.1	128	9	7.1	0.8	
1629	CY007	35.0886	83.7199	7.4	18	4.7	30	53	54600	251	95800	940	4900	19.7	9100	60	12.8	M	140	18	15.9	2.3	
1630	CY008	35.0866	83.7277	7.0	16	2.9	11	22	43800	45	32900	690	4700	8.1	8200	50	6.4	-1.0	34	6	M	0.6	
1631	CY009	35.0787	83.7408	6.8	26	8.4	35	66	24000	224	20700	590	1800	5.2	6100	30	M	2.6	147	14	7.9	1.0	
1632	CY010	35.0863	83.7699	6.6	16	3.9	16	24	M	92	34200	640	2900	7.6	M	40	M	0.9	41	5	3.0	0.8	
1633	CY011	35.0856	83.7749	6.8	16	3.5	24	42	43900	148	75900	620	2000	16.6	12400	40	M	4.4	70	7	11.0	1.2	
1634	CY012	35.0693	83.8118	7.0	23	5.6	14	46	M	90	22400	390	1400	4.9	M	20	M	1.8	69	5	6.1	0.9	
1635	CY013	35.0772	83.8240	7.3	18	3.1	8	19	40600	46	32200	M	1600	6.3	9700	30	M	-1.2	22	23	4.4	-0.2	
1636	CY014	35.0782	83.8467	7.0	25	3.3	10	19	39100	58	31600	510	1400	6.2	12300	40	9.3	1.0	29	4	M	0.5	
1637	CY015	35.0968	83.8606	6.7	19	4.3	18	19	46400	108	45300	450	3100	9.3	26800	60	5.2	3.1	61	15	M	-0.3	
1638	CY016	35.0881	83.8666	6.9	17	4.0	15	12	53000	91	48600	410	3700	8.2	26800	60	7.4	6.6	64	7	3.2	M	
1639	CY017	35.0795	83.8856	6.8	20	3.9	15	26	45200	47	26200	500	3200	9.9	16200	50	4.6	1.8	48	8	5.9	0.6	
1640	CY018	35.0667	83.8716	7.4	20	2.2	-2	17	36300	48	31800	640	2900	8.1	10300	50	3.1	-1.0	19	4	2.9	0.5	
1641	CY019	35.0507	83.8835	7.4	29	3.9	-3	41	35200	54	33700	990	3100	8.9	19100	50	5.7	-1.0	33	4	3.8	-0.2	
1642	CY020	35.0634	83.9124	6.6	22	2.8	7	18	27200	56	35500	540	2400	5.0	22500	40	3.7	-1.0	26	39	M	0.8	
1643	CY021	35.0544	83.9361	6.9	25	3.6	18	21	25100	29	28600	580	2100	6.5	27200	40	4.9	5.3	49	7	7.7	0.3	
1644	CY022	35.0293	83.9420	6.9	43	2.4	-4	20	28600	-20	23300	470	1700	4.1	11400	30	4.3	-1.0	M	3	3.4	0.8	
1646	CY024	35.0208	83.9117	6.9	26	3.9	9	14	53600	103	26200	670	4200	8.1	9700	60	5.7	6.4	60	10	10.0	-0.3	
1648	CY026	35.0042	83.9085	7.1	30	4.5	11	59	32500	-20	21900	510	2600	7.7	7800	30	4.8	-1.0	21	4	5.1	0.6	0.130
1649	CY027	35.0000	83.8802	7.0	32	11.7	M	102	28500	M	M	660	2300	7.2	9100	50	21.6	M	M	M	M	M	
1650	CY028	35.0310	83.8371	6.9	32	9.4	12	113	22300	71	21000	460	1400	5.5	5500	30	15.7	-1.2	36	7	16.0	2.0	
1651	CY029	35.0436	83.8228	6.6	38	6.5	6	69	19200	50	22100	410	1600	5.0	5900	30	10.6	M	30	7	6.1	1.8	
1652	CY030	35.0078	83.8251	7.0	30	7.6	20	38	30400	183	7700	340	2600	5.1	5100	20	13.2	2.2	90	18	5.1	M	
1653	CY031	35.0261	83.8013	7.2	31	30.4	133	248	21600	839	30600	740	2600	7.6	18300	40	60.9	7.5	462	81	19.3	3.7	
1654	CY032	35.0514	83.7751	7.0	39	6.2	21	38	37300	167	16400	450	2700	7.6	7200	30	10.1	-1.0	65	11	14.1	1.3	
1655	CY033	35.0458	83.7300	7.2	33	5.2	12	41	52000	141	56000	1420	4000	18.0	14900	140	8.9	-1.6	68	12	M	-0.3	
1656	CY034	35.0128	83.7302	7.0	28	4.4	11	20	26800	181	31000	350	2600	7.4	20600	50	6.3	2.0	59	12	3.8	0.4	
1658	CY036	35.0103	83.7030	7.0	25	5.9	17	27	22600	162	21500	450	3600	7.7	20100	50	5.0	-1.0	85	13	4.0	-0.3	
1659	CY037	35.0281	83.6965	7.3	18	3.1	-2	9	28200	41	24700	810	4700	8.6	13500	60	6.1	-1.0	29	7	M	0.6	
1660	CY038	35.0445	83.6622	7.3	22	3.0	13	13	41600	86	40500	880	6300	12.9	9900	100	M	2.1	42	4	3.8	0.5	
1661	CY039	35.0010	83.6706	7.1	23	8.1	40	82	40300	186	34700	1970	14700	9.9	44300	230	39.1	1.6	90	13	9.9	1.1	
1662	CY040	35.0022	83.6539	7.3	26	8.0	43	80	61500	254	67900	1050	8200	19.2	16100	150	7.3	5.0	125	17	11.0	1.4	
1663	CY041	35.0118	83.6228	7.2	30	5.0	18	38	85100	184	56000	1600	11600	19.7	14100	160	16.0	3.2	68	16	4.0	1.0	
1664	CY042	35.0179	83.6291	7.4	28	8.1	56	47	213200	414	83600	6910	32900	29.1	M	550	M	1.6	164	22	11.4	1.6	

FONTANA LAKE 100K SHEET - STREAM SEDIMENT

County	Lat	Long	pH	Cond	U	Th	Hf	Al	Ce	Fe	Mn	Na	Sc	Ti	V	Dy	Eu	La	Sm	Yb	Lu	Au	
ID				um/cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
1665	CY043	35.0293	83.6291	7.2	28	8.4	45	55	75300	353	72400	1260	7800	20.3	17100	170	77.2	2.1	166	24	12.0	1.6	
1666	CY044	35.0461	83.6328	7.3	43	4.2	21	30	85700	171	94000	1670	9800	35.7	18900	380	20.4	3.1	70	14	M	0.7	
1667	CY045	35.0435	83.6381	7.2	29	10.3	100	169	61100	767	265400	4340	10000	47.6	69400	870	39.5	7.3	333	48	17.3	2.8	
1668	CY046	35.0599	83.5881	7.3	15	6.1	38	43	61900	221	63300	840	11600	13.6	9100	120	23.7	2.6	110	11	11.0	1.9	0.043
1669	CY047	35.0673	83.5900	7.5	20	5.5	25	63	81400	229	120600	2450	8200	34.2	25900	430	25.8	-1.1	80	13	9.4	1.4	
1670	CY048	35.0857	83.6129	7.3	22	3.2	15	24	222600	122	63100	3600	23900	23.2	25700	430	40.9	2.4	59	9	8.4	0.8	
1671	CY049	35.0896	83.6367	7.0	16	7.8	39	15	59100	276	69700	1100	8900	21.1	18700	150	11.3	2.1	121	19	4.3	0.8	
2423	GR001	35.3972	83.6188	7.3	45	3.8	6	35	37700	49	23900	970	18000	6.9	10000	30	2.5	-1.0	M	6	2.6	M	
2424	GR002	35.3690	83.6296	7.3	18	6.1	11	65	46700	40	59700	1550	6500	9.8	16300	60	M	M	31	6	4.4	1.2	
2425	GR003	35.3882	83.6376	7.0	39	2.8	6	27	36800	36	26100	640	7200	5.8	5800	40	M	-1.0	20	5	3.3	0.5	
2426	GR004	35.3648	83.6395	7.3	20	5.8	11	71	41700	31	47100	1330	5900	7.1	13500	60	8.0	3.1	24	4	5.9	1.1	
2427	GR005	35.3888	83.6532	7.1	18	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
2428	GR006	35.4005	83.6784	7.4	29	3.6	8	40	38100	44	52200	780	2000	9.8	9100	50	3.8	-1.3	22	4	M	0.6	
2429	GR007	35.3496	83.7005	7.1	20	3.0	3	32	34600	18	28400	800	3300	5.3	9300	40	6.6	M	14	3	M	0.6	
2430	GR008	35.3585	83.6908	7.2	21	4.1	11	91	38400	84	88800	1030	5900	13.1	9800	50	5.4	5.3	47	10	8.3	1.7	
2431	GR009	35.3455	83.7399	7.3	20	3.9	9	79	45600	131	93000	820	2400	16.3	8700	60	7.2	3.4	55	11	9.7	1.3	
2432	GR010	35.3347	83.7447	7.3	24	10.3	8	166	90200	198	110200	1820	11300	5.1	26500	100	M	4.9	80	15	13.8	2.1	
2433	GR011	35.3256	83.7126	7.3	18	13.5	35	138	107800	131	132000	M	24400	10.8	14100	140	M	M	79	11	18.2	2.6	
2434	GR012	35.3216	83.7896	7.5	28	3.6	9	42	38000	52	324400	420	3100	57.1	9300	30	M	22.0	37	4	4.8	0.4	
2435	GR013	35.3507	83.7845	7.4	19	3.2	83	42	33800	75	M	410	2800	8.3	9400	20	M	M	14	16	M	0.5	
2436	GR014	35.3519	83.8279	6.6	30	7.8	15	84	118600	82	64500	1180	13000	23.2	19000	90	M	-1.5	41	7	M	1.5	
2437	GR015	35.3675	83.8004	7.1	28	13.0	15	206	M	146	93300	1590	16000	35.2	8700	140	M	2.8	71	14	19.7	3.2	
2438	GR016	35.3705	83.8185	7.1	20	10.5	14	95	120100	108	78500	M	17100	19.0	17400	100	M	-1.0	46	11	11.7	1.6	
2439	GR017	35.3178	83.8377	7.0	25	2.7	2	30	39100	56	24500	600	2600	6.2	9000	40	4.7	-1.1	17	3	2.5	0.3	
2440	GR018	35.3048	83.8542	7.1	18	8.4	16	68	156500	191	143800	1730	10700	5.0	24700	200	16.2	7.3	117	25	21.0	1.4	
2441	GR019	35.2935	83.8277	7.1	20	10.4	21	79	105000	226	100400	1770	9700	23.4	28500	140	M	4.3	106	18	12.4	2.2	
2442	GR020	35.2610	83.8178	7.1	12	3.5	7	19	51500	60	27800	450	6000	6.9	6900	50	10.2	2.0	28	5	4.0	0.6	
2443	GR021	35.3116	83.7798	7.1	15	4.2	7	47	32100	72	25300	500	3100	5.8	9800	30	4.6	M	43	6	3.2	0.5	
2444	GR022	35.3012	83.7578	7.1	21	3.7	4	51	30100	44	38000	760	5100	6.1	9500	40	5.8	2.3	22	5	3.6	0.9	
2445	GR023	35.2815	83.7830	6.8	17	3.2	7	30	35000	52	32200	750	3600	6.7	9900	50	7.2	M	23	4	3.9	0.6	
2446	GR024	35.2688	83.6839	7.2	32	2.6	8	20	36000	28	29100	740	6800	5.9	8400	40	6.0	-1.4	17	3	3.1	0.5	
2447	GR025	35.2728	83.8698	8.2	15	2.7	-2	35	35000	-49	34100	750	2900	6.4	8000	60	3.8	-1.3	M	9	M	-0.6	
2448	GR026	35.2533	83.8739	7.4	11	2.5	-14	22	30300	M	26300	590	4200	5.7	9200	30	3.3	M	M	M	M	-3.9	
2449	GR027	35.2560	83.9083	7.0	11	2.3	6	18	40500	74	41000	600	3000	8.3	10500	70	M	M	M	5	M	-1.6	

FONTANA LAKE 100K SHEET - STREAM SEDIMENT

County	Lat	Long	pH	Cond	U	Th	Hf	Al	Ce	Fe	Mn	Na	Sc	Ti	V	Dy	Eu	La	Sm	Yb	Lu	Au
ID				um/cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
2450	GR028	35.2241	83.9367	7.0	18	3.2	9	40	30000	84	85300	850	5400	12.5	10300	60	5.1	M	M	M	M	1.5
2451	GR029	35.2923	83.9205	7.3	10	2.6	7	24	51200	-44	24700	610	10000	8.7	4900	50	M	M	M	M	M	-0.6
2452	GR030	35.3101	83.9262	6.8	10	2.5	7	28	47800	26	27300	470	7300	7.3	4500	40	8.1	-1.2	M	7	M	-0.3
2453	GR031	35.2682	83.9157	7.0	9	10.9	28	115	M	82	91200	M	29200	27.0	5500	100	M	10.0	57	9	6.0	2.0
2454	GR032	35.2482	83.9627	6.5	5	9.0	10	81	123800	88	88300	M	37400	21.5	27700	140	M	4.0	45	4	11.3	1.7
2455	GR033	35.2557	83.9620	6.6	9	12.5	21	263	M	56	93600	M	26600	2.3	30500	M	M	M	54	9	17.9	3.3
2456	GR034	35.2880	83.8959	6.9	9	11.3	21	158	124800	107	88400	M	28400	22.7	M	70	M	1.8	54	9	8.8	1.5
2457	GR035	35.3062	83.8877	6.6	18	10.5	13	131	M	95	76500	M	9800	27.0	M	140	M	-1.4	55	11	11.9	2.0
2458	GR036	35.3461	83.9060	6.8	10	11.6	26	110	113700	164	120200	3170	39700	25.1	24600	130	19.8	3.5	73	15	17.4	3.0
2459	GR037	35.3315	83.9510	7.0	9	31.5	26	113	144300	162	87300	2780	36100	19.0	23500	130	M	4.5	57	9	12.4	2.2
2460	GR038	35.3365	83.9512	6.7	10	15.8	30	239	M	180	146700	3850	43200	30.3	28700	110	17.4	16.1	96	20	24.0	4.1
2461	GR039	35.3493	83.9823	6.6	8	13.0	16	157	161400	-51	66300	2710	73600	13.0	31500	110	14.7	-1.0	45	9	13.7	1.8
2462	GR040	35.3609	83.9214	7.1	9	3.0	19	71	39300	71	41500	780	12400	10.2	6600	30	3.8	-1.0	28	6	9.4	1.0
2463	GR041	35.3603	83.9461	6.9	9	3.5	8	37	33100	-20	16000	670	14400	3.8	5500	20	M	-1.4	11	2	7.6	0.5
2464	GR042	35.4197	83.9108	6.5	18	4.6	10	56	44000	41	23500	860	16400	6.4	8000	20	6.7	M	22	5	2.4	0.7
2465	GR043	35.4361	83.9230	6.7	14	4.6	5	56	35900	-75	15100	580	8800	5.5	6700	20	7.9	M	23	3	M	0.8
2466	GR044	35.4381	83.9319	6.9	14	5.8	8	60	39700	37	23500	650	7900	5.6	6400	30	7.6	-1.4	24	5	5.8	0.9
2467	GR045	35.4117	83.9956	7.3	1	5.2	12	44	57400	61	26400	1500	20000	5.5	10100	40	18.6	M	32	6	6.2	1.2
2468	GR046	35.4480	83.9750	6.8	7	3.8	19	53	54400	165	64400	790	12400	14.5	7000	40	M	-1.0	77	12	13.8	1.4
2469	GR047	35.4439	83.9808	6.4	1	6.8	15	52	50300	151	27500	800	8600	8.7	10500	40	10.3	2.0	72	10	9.8	1.4
2470	GR048	35.4176	83.9833	6.5	1	23.5	50	252	M	249	93800	3540	21100	18.2	M	80	11.8	2.7	128	21	29.6	4.6
2471	GR049	35.4201	83.8900	7.7	2	9.4	16	62	130600	101	85900	8000	14900	20.4	17100	M	M	-1.2	58	11	15.4	1.5
2472	GR050	35.2789	83.6961	6.4	18	4.2	16	27	83100	85	38700	810	4400	8.8	10800	70	8.1	1.5	47	6	11.3	0.4
2473	GR051	35.2703	83.7185	6.9	11	2.7	M	18	M	M	M	1030	200	M	8800	M	9.8	M	M	8	M	M
2474	GR052	35.2554	83.7531	6.9	10	2.5	-4	21	41400	55	27300	520	7800	6.5	4200	40	M	-1.3	M	4	M	-1.5
2475	GR053	35.2676	83.7681	6.7	12	3.1	16	20	48900	90	70600	650	3300	16.8	6100	50	4.3	-1.2	M	8	M	-0.3
2476	GR054	35.3834	83.8556	6.9	18	4.2	20	56	M	73	29100	M	100	10.2	M	M	M	-1.9	221	128	M	-0.2
2477	GR055	35.3932	83.8423	7.2	15	4.0	6	46	27700	-61	15300	580	3800	4.0	6300	30	3.0	-1.0	M	M	M	-0.9
2478	GR056	35.3978	83.8824	7.4	22	4.8	-3	62	45500	43	29100	610	500	6.6	M	30	M	-2.0	M	M	M	1.1
2479	GR057	35.4155	83.8712	7.1	11	5.3	8	67	33100	48	8700	570	5900	3.5	5700	20	13.7	-1.8	M	M	M	1.4
2480	GR058	35.4114	83.7907	7.2	14	2.9	5	16	54100	-54	32300	610	3300	8.8	5800	50	5.9	-1.6	M	5	M	-0.9
2481	GR059	35.4099	83.7995	7.3	13	2.6	6	45	40500	48	41200	M	M	13.7	M	30	M	M	M	9	M	-0.2
2482	GR060	35.4239	83.9092	7.1	13	3.1	11	28	42200	96	27800	560	9000	8.6	4900	30	M	-1.8	M	55	M	0.8
2483	GR061	35.4442	83.9329	7.2	36	4.5	9	45	39300	35	30600	710	4200	7.4	6500	40	6.8	-1.0	M	38	7.2	0.6

0.365

FONTANA LAKE 100K SHEET - STREAM SEDIMENT

County	Lat	Long	pH	Cond	U	Th	Hf	Al	Ce	Fe	Mn	Na	Sc	Ti	V	Dy	Eu	La	Sm	Yb	Lu	Au
ID				um/cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
2484	GR062	35.4497	83.8698	7.4	27	3.6	-5	M	45600	-41	30700	670	3500	7.7	5000	40	4.2	M	M	M	M	-0.8
2485	GR063	35.4391	83.8267	7.6	38	2.9	6	25	41200	30	21600	710	5100	5.6	5600	40	6.1	-1.9	22	5	M	0.5
2486	GR064	35.4369	83.7876	7.5	14	4.0	21	36	55100	101	51100	810	9800	11.9	7300	50	7.1	M	M	M	M	-1.0
2487	GR065	35.4302	83.7701	7.2	11	2.6	11	23	42100	34	53400	570	3600	15.7	5600	40	4.5	1.9	M	M	M	-0.5
2488	GR066	35.4277	83.7174	7.2	30	5.2	5	74	44200	-20	23100	510	2800	8.7	4700	50	6.9	2.7	M	M	M	1.0
2489	GR067	35.4159	83.7050	7.3	19	3.6	7	38	40700	-57	25000	520	2100	8.1	5900	40	2.0	M	M	24	M	-1.2
2490	GR068	35.4085	83.7383	7.3	12	3.2	4	31	49600	42	25000	540	3800	10.7	5400	50	6.1	-1.2	M	M	M	-0.3
2491	GR069	35.3932	83.7247	7.5	14	3.7	4	43	37200	32	20900	620	3400	5.7	6900	40	M	M	M	M	M	-1.2
2981	HY012	35.4361	83.0169	7.1	5	4.7	21	27	59600	139	35700	840	9500	9.9	8400	60	M	2.5	70	11	1.9	0.7
2982	HY013	35.4272	83.0097	7.0	6	7.1	47	55	83600	350	63100	2050	9900	22.8	16100	110	12.6	3.0	162	25	10.7	1.7
2985	HY016	35.3945	83.0279	6.5	3	7.1	48	80	59200	274	56400	1660	7200	14.0	26000	110	25.6	3.1	145	21	6.9	1.1
3018	HY049	35.4753	83.0251	6.8	50	8.0	42	86	45500	251	47100	880	2800	17.4	14000	80	9.1	-1.1	173	26	M	1.1
3019	HY050	35.4828	83.0561	6.9	20	2.3	-4	21	65800	190	30400	M	600	15.5	M	M	M	4.5	M	M	M	1.3
3020	HY051	35.4586	83.0201	6.9	29	2.6	12	23	56500	80	35200	770	6800	14.3	6400	80	3.8	-2.0	M	7	M	-1.5
3021	HY052	35.4543	83.0538	7.2	28	3.3	18	33	54600	96	39700	390	6500	13.4	M	60	M	M	44	6	4.4	0.4
3022	HY053	35.4418	83.0733	7.1	18	4.4	21	43	70500	170	46100	390	10000	16.8	M	70	M	5.7	103	12	M	-0.6
3192	JA001	35.3438	83.2468	7.0	20	12.5	78	84	48400	508	49900	2890	13800	13.6	59500	280	40.5	M	212	35	6.2	0.8
3193	JA002	35.3462	83.2166	6.7	44	3.2	19	31	29100	114	23000	370	1000	5.5	10000	50	3.6	-1.0	53	15	2.6	0.3
3194	JA003	35.3418	83.1746	7.2	25	3.8	44	69	53100	271	83300	2090	13300	28.5	31700	270	18.8	4.4	138	16	5.2	0.8
3195	JA004	35.3250	83.1575	7.1	22	5.0	23	50	51800	133	40100	720	4500	10.5	14200	80	M	-1.1	72	9	5.9	0.6
3196	JA005	35.3546	83.1350	7.0	12	10.3	48	54	43600	337	50500	1810	8000	10.2	74500	220	58.3	-1.0	147	17	8.3	0.9
3197	JA006	35.3038	83.1839	6.7	23	5.4	29	47	62400	234	64300	1060	3900	17.0	18200	120	9.5	2.2	102	18	4.2	1.1
3198	JA007	35.3225	83.2247	6.7	33	41.5	401	309	54700	2490	90200	4050	7300	20.2	M	440	95.7	8.1	1088	195	5.8	1.7
3199	JA008	35.3110	83.2480	6.9	24	11.6	77	81	50400	496	58500	1360	6200	16.0	31700	120	16.0	M	223	29	3.8	0.9
3200	JA009	35.3255	83.2800	6.8	18	7.0	36	32	55600	262	33100	1880	10600	9.7	24300	200	26.3	2.6	107	17	M	0.7
3201	JA010	35.2705	83.2852	7.2	20	10.8	172	207	62500	1038	132500	1390	4900	40.2	30900	150	15.4	5.2	483	71	15.5	2.8
3202	JA011	35.2510	83.2793	7.2	19	4.1	30	34	53800	176	53600	880	7100	15.8	16300	110	9.6	2.7	81	9	4.5	0.8
3203	JA012	35.0134	83.0549	6.9	10	5.5	19	75	35300	161	67900	640	5200	14.8	7100	70	15.6	2.9	64	10	25.8	2.2
3204	JA013	35.0196	83.0928	6.6	10	7.3	26	47	54200	150	40600	650	10200	9.7	7100	80	19.7	-1.0	174	16	12.0	1.6
3205	JA014	35.0115	83.1113	6.4	10	5.3	15	32	52300	94	18000	400	11700	5.0	3300	40	13.5	2.5	47	28	7.5	1.0
3206	JA015	35.0688	83.0612	6.2	10	3.5	8	14	65000	68	17300	580	23700	5.6	7000	40	7.9	12.2	63	5	M	0.7
3207	JA016	35.0943	83.0851	6.0	17	15.3	127	62	86000	595	6800	200	34300	5.1	2000	20	25.6	6.8	294	78	6.3	1.2
3208	JA017	35.0727	83.1050	6.6	8	5.9	35	51	74600	178	33300	320	17600	23.9	6300	30	M	3.0	79	7	M	0.8
3209	JA018	35.0567	83.1296	6.4	10	1.9	12	11	84800	56	13600	160	41800	6.0	1200	20	M	-1.0	127	3	M	-0.2

FONTANA LAKE 100K SHEET - STREAM SEDIMENT

County	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	
3210	JA019	35.0882	83.0785	6.4	14	5.1	64	27	73400	247	22500	260	28800	10.7	3100	30	9.0	2.7	111	7	M	0.8	
3211	JA020	35.1261	83.0734	6.6	14	2.2	13	13	87700	28	13600	200	35600	5.4	1900	20	M	1.8	138	4	M	-0.5	
3212	JA021	35.1309	83.0618	7.3	11	3.2	6	14	76900	60	-6800	240	30700	3.7	2700	10	M	M	22	7	M	-0.6	0.208
3213	JA022	35.1156	83.0145	7.3	8	5.1	8	38	57100	73	34000	400	3000	9.2	4700	50	8.3	-1.0	144	10	8.0	1.2	
3214	JA023	35.1112	83.1048	6.3	18	8.1	79	18	71800	508	25700	260	26900	8.6	3300	20	14.9	5.9	222	34	8.8	1.5	
3215	JA024	35.1599	83.1195	6.4	7	8.3	57	17	52200	311	21800	420	19800	8.6	3000	40	17.1	7.8	603	25	M	1.2	
3216	JA025	35.1355	83.1242	6.3	11	4.8	37	M	69900	164	16900	440	34100	5.0	3000	30	13.6	M	291	24	M	-0.7	
3217	JA026	35.1286	83.1554	6.4	13	11.7	87	37	58800	430	23400	750	10900	10.1	7400	50	12.9	3.9	173	48	8.9	1.0	
3218	JA027	35.1519	83.1514	6.2	12	9.4	44	21	57600	271	17500	560	17700	5.7	4800	50	20.4	5.6	154	11	M	0.6	
3219	JA028	35.1679	83.1826	6.3	13	5.1	8	15	92700	68	24300	540	14800	6.5	4300	60	6.8	-1.0	33	8	M	-0.2	
3220	JA029	35.1855	83.1776	6.2	16	8.7	28	44	58200	183	22000	590	10200	7.6	6900	50	24.8	2.7	84	20	11.1	1.1	
3221	JA030	35.1937	83.1364	6.3	22	9.3	57	26	58700	326	18900	580	17900	5.2	4000	30	24.3	1.8	149	20	7.8	1.1	
3222	JA031	35.2209	83.1282	6.6	14	7.1	20	36	72100	149	17500	610	21900	6.7	5900	50	11.9	1.8	46	27	9.7	0.9	
3223	JA032	35.2650	83.1272	6.3	14	4.5	13	18	72900	93	22000	450	20200	6.7	3900	40	4.7	-1.0	70	50	8.4	0.3	
3224	JA033	35.2873	83.1488	6.3	22	2.8	18	18	56400	161	97200	890	7600	24.7	10300	100	M	5.1	95	19	M	1.6	
3225	JA034	35.2655	83.2046	6.6	25	9.5	59	81	76800	390	64200	1400	6300	20.7	22700	130	15.6	M	688	42	M	1.3	
3226	JA035	35.2455	83.1872	6.7	19	2.8	19	40	61500	154	104400	930	9800	28.3	12700	130	15.1	4.4	71	11	7.4	1.1	
3227	JA036	35.2254	83.1992	6.6	17	2.5	7	15	74100	69	39600	880	12100	10.8	11300	130	4.2	1.5	24	4	2.4	0.3	
3228	JA037	35.3658	83.2677	6.4	23	3.9	13	39	57500	138	32100	650	6700	14.2	7800	90	8.2	2.6	74	14	5.6	0.3	
3229	JA038	35.3822	83.2653	6.1	18	43.0	289	123	M	1943	82500	1560	4500	17.2	M	90	M	15.8	988	135	26.9	4.7	
3230	JA039	35.4174	83.2620	6.3	15	22.5	94	159	126800	662	99900	4190	21900	31.0	M	130	M	8.1	336	43	18.8	2.8	
3231	JA040	35.4095	83.2540	6.6	12	14.4	76	57	52000	501	41800	1470	7300	11.2	13700	60	28.1	3.0	253	34	8.9	1.3	
3232	JA041	35.4252	83.3386	7.3	49	10.3	23	650	55500	738	63000	800	3200	58.3	9900	80	16.3	16.4	338	52	21.4	3.2	
3233	JA042	35.4217	83.3133	7.1	28	5.4	19	43	37600	166	17700	540	1800	9.7	6300	40	9.2	2.5	84	25	4.9	0.6	2.960
3234	JA043	35.4619	83.3147	7.1	21	10.2	26	97	56200	276	32700	1140	6400	17.7	8000	50	24.6	4.8	130	18	8.6	1.2	
3235	JA044	35.4764	83.2876	7.1	19	4.1	10	32	44600	96	29600	500	3400	8.2	4400	40	3.0	3.3	50	13	7.1	0.7	
3236	JA045	35.4943	83.2601	7.0	20	4.3	33	38	45700	239	46000	510	4800	14.9	4600	40	8.0	4.1	115	19	3.3	0.9	
3238	JA047	35.4999	83.2184	7.0	15	4.3	10	27	44600	81	23300	500	3600	7.1	4700	40	7.9	1.5	44	7	2.2	0.5	
3239	JA048	35.4660	83.2391	7.3	15	2.6	16	20	71500	116	33600	830	10200	13.6	4400	50	M	4.9	58	10	M	0.9	
3240	JA049	35.4700	83.2191	7.2	13	6.3	42	67	66500	273	77100	1490	8600	21.1	6100	50	17.4	5.7	142	19	17.6	1.9	
3241	JA050	35.4814	83.1943	7.0	20	16.3	67	77	67400	447	44200	2400	11500	17.0	9600	50	27.6	4.9	225	21	19.0	2.3	
3242	JA051	35.4964	83.1772	7.1	30	5.0	19	32	62100	128	24900	710	5300	11.0	6200	60	6.9	1.4	65	14	M	0.5	
3243	JA052	35.3966	83.2186	7.5	19	3.3	19	40	67700	190	48700	690	5400	19.2	7500	100	11.0	2.3	84	18	M	0.8	
3244	JA053	35.4152	83.1695	7.5	18	3.7	33	61	59900	305	72700	780	7800	28.4	7500	80	9.5	7.8	145	18	10.2	0.7	

FONTANA LAKE 100K SHEET - STREAM SEDIMENT

County	Lat	Long	pH	Cond	U	Th	Hf	Al	Ce	Fe	Mn	Na	Sc	Ti	V	Dy	Eu	La	Sm	Yb	Lu	Au
ID				um/cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
3245	JA054	35.4213	83.1399	7.4	16	9.6	46	58	50100	287	29800	710	6500	8.3	11700	50	19.8	4.2	147	40	3.1	0.8
3246	JA055	35.4308	83.1106	7.3	20	7.3	25	68	64200	212	45100	1040	8300	25.3	12400	110	9.6	3.8	98	14	6.1	0.8
3247	JA056	35.3794	83.1929	7.3	39	14.0	97	99	62000	645	48200	900	3400	15.0	21400	110	14.5	9.0	320	72	9.2	0.8
3248	JA057	35.3992	83.1423	7.2	23	4.0	26	90	57200	210	116100	1370	5600	43.9	23000	140	5.3	3.0	105	15	14.3	1.4
3249	JA058	35.4081	83.1177	7.2	28	4.8	16	60	47900	78	37200	900	4300	14.9	16800	100	6.3	1.3	40	6	6.6	0.8
3250	JA059	35.4195	83.1071	7.3	20	5.0	25	78	53200	138	48700	1520	6300	20.3	19500	120	10.1	3.0	58	9	3.7	0.8
3251	JA060	35.4026	83.0849	7.2	21	9.0	34	120	51700	275	58600	1690	7600	18.9	23100	100	20.3	4.9	119	19	17.6	2.1
3252	JA061	35.3988	83.0898	7.2	10	3.7	20	44	45600	110	40700	1370	7700	12.4	19000	80	M	0.9	50	6	4.0	0.8
3254	JA063	35.3213	83.1225	6.5	20	7.9	37	88	47500	250	53800	1150	5200	13.6	25700	120	12.2	2.8	110	15	3.8	0.9
3255	JA064	35.2923	83.0907	6.7	29	7.0	21	70	63600	110	55700	1280	10800	19.1	15000	120	13.5	2.9	66	10	7.8	1.2
3256	JA065	35.3181	83.0788	6.9	35	5.8	35	67	69200	242	59800	1250	13000	19.6	15900	160	14.0	4.4	105	20	7.3	1.0
3257	JA066	35.3151	83.0518	6.9	11	4.5	35	79	71100	195	84100	980	11600	28.3	10400	70	83.8	5.1	96	13	8.7	1.8
3258	JA067	35.3271	83.0464	6.9	12	7.4	31	83	62100	168	51100	1850	10900	14.7	16400	70	11.8	-1.5	85	12	7.8	1.7
3259	JA068	35.3492	83.0351	6.9	19	4.0	18	34	77700	153	44000	1210	9100	14.6	12400	110	7.2	2.4	66	9	3.9	0.9
3260	JA069	35.3468	83.0312	6.9	17	4.9	23	35	77200	155	41500	1170	11800	13.9	13000	90	17.2	2.2	75	10	7.2	0.8
3261	JA070	35.3407	83.0644	6.7	11	14.1	113	146	63200	821	44200	930	4300	11.7	M	120	28.9	4.1	356	47	7.9	1.3
3262	JA071	35.3477	83.0574	6.7	14	5.6	27	83	63600	190	60900	1330	6900	17.4	21700	100	10.6	4.0	87	11	6.3	0.9
3263	JA072	35.2701	83.0515	6.5	20	7.9	21	105	50100	102	69900	1200	10600	9.0	15200	110	11.3	-1.0	44	7	12.2	2.4
3264	JA073	35.2551	83.0267	6.7	12	12.0	19	168	49600	168	59800	1520	12900	10.5	21100	110	33.5	-1.2	68	11	21.8	3.2
3272	JA081	35.1977	83.0101	6.5	9	4.8	13	22	64100	73	29400	700	17600	6.7	5700	60	7.1	1.8	28	3	8.9	1.1
3273	JA082	35.1815	83.0720	6.0	13	5.3	11	25	70200	64	44200	1100	18600	13.6	10800	160	M	-1.0	24	5	7.3	1.0
3274	JA083	35.2065	83.0614	7.0	18	5.7	28	39	56200	163	38300	1040	18700	6.9	17300	80	20.9	4.0	86	17	9.4	1.1
3275	JA084	35.2390	83.1401	6.4	11	4.7	6	24	70300	37	21900	550	21100	7.7	3600	60	M	-1.0	19	3	2.3	0.8
3596	MA001	35.2501	83.3285	7.5	15	9.7	54	50	65200	431	41100	880	8300	13.7	9200	90	14.7	M	185	29	M	0.7
3597	MA002	35.2359	83.3586	7.4	28	11.6	169	135	34700	951	62300	500	2500	17.2	16700	70	M	3.8	492	55	13.5	1.5
3598	MA003	35.2047	83.3602	7.2	31	20.2	129	151	60200	836	80100	1490	2200	19.8	M	210	21.4	4.4	436	51	8.0	1.1
3599	MA004	35.2184	83.3191	7.3	31	14.2	108	114	55300	744	67600	1010	6800	19.7	M	170	M	M	361	46	7.8	1.2
3600	MA005	35.1897	83.3258	7.2	20	5.8	29	51	M	197	45600	M	2000	12.2	M	M	M	M	88	13	5.3	0.6
3601	MA006	35.1690	83.2966	7.1	20	3.1	12	44	M	123	146000	1410	4300	16.8	M	370	M	2.3	44	5	4.4	0.9
3602	MA007	35.1830	83.2835	7.3	21	2.7	10	24	M	74	63300	1100	5700	16.3	M	M	M	-1.0	29	5	4.4	0.6
3603	MA008	35.1913	83.2585	7.4	12	2.6	10	24	50800	91	53500	790	7600	11.6	M	90	M	1.4	38	7	2.3	0.4
3604	MA009	35.2191	83.2741	7.2	20	11.7	100	84	M	685	52900	1110	8200	16.7	M	M	15.1	4.8	379	46	4.3	1.0
3605	MA010	35.2190	83.2482	7.5	30	6.4	28	37	M	197	41500	750	7000	11.8	M	M	10.4	5.8	103	14	3.8	0.6
3606	MA011	35.1633	83.3611	7.1	15	4.1	15	21	M	115	35700	M	12900	9.4	M	M	M	1.7	58	8	5.7	0.4

FONTANA LAKE 100K SHEET - STREAM SEDIMENT

County	Lat	Long	pH	Cond	U	Th	Hf	Al	Ce	Fe	Mn	Na	Sc	Ti	V	Dy	Eu	La	Sm	Yb	Lu	Au
ID				um/cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
3607	MA012	35.1543	83.3412	7.1	21	3.3	11	72	M	138	110700	1280	5000	17.9	M	M	M	-1.0	44	8	5.9	1.0
3608	MA013	35.1760	83.4257	7.1	18	28.1	226	154	61100	1386	72100	860	7900	15.2	49000	210	M	3.7	725	84	M	0.9
3609	MA014	35.1514	83.4137	7.1	28	3.8	20	29	M	181	57300	M	8800	18.9	M	150	M	M	76	14	4.2	0.7
3610	MA015	35.1444	83.4408	7.2	22	13.9	128	83	180600	920	280400	M	17500	35.4	58700	820	5.3	10.6	390	59	13.8	2.7
3611	MA016	35.1608	83.4572	7.1	28	9.2	73	53	76000	459	65700	840	11400	20.4	25100	190	M	4.2	274	31	4.6	0.7
3612	MA017	35.1396	83.4960	7.1	23	12.0	104	119	M	641	74700	730	6200	18.9	M	M	M	8.8	339	30	8.0	1.3
3613	MA018	35.1260	83.5167	7.4	23	5.7	38	52	M	282	79400	1110	6100	23.9	M	M	M	M	189	19	9.0	1.0
3614	MA019	35.2120	83.3991	7.1	19	15.6	127	87	64600	831	42800	780	3600	13.8	26300	160	21.3	4.7	704	78	M	0.5
3615	MA020	35.2153	83.4181	7.0	25	46.2	407	362	52700	2612	74500	1550	1800	18.2	90500	330	56.5	6.2	M	126	M	2.1
3616	MA021	35.2235	83.4308	7.1	30	54.2	752	508	57900	4740	93400	900	3800	28.3	44200	170	63.8	25.4	M	322	M	3.6
3617	MA022	35.2099	83.4629	7.0	21	12.2	83	64	70600	512	41800	720	6600	12.4	24700	150	29.0	3.7	220	73	M	0.5
3618	MA023	35.2075	83.4988	7.2	20	6.6	52	37	77500	339	62000	840	8900	20.8	13100	140	14.3	6.0	130	19	M	0.4
3619	MA024	35.2060	83.5311	7.1	13	10.6	50	50	57300	333	41900	1080	7700	12.7	9500	80	17.9	1.5	168	55	M	0.9
3620	MA025	35.2198	83.5056	7.0	23	23.2	145	93	73600	951	72300	1160	6800	19.0	50300	260	46.9	4.3	967	136	13.2	1.3
3621	MA026	35.2375	83.4783	7.1	19	11.5	67	46	55700	474	35300	680	4100	11.4	10600	80	19.5	3.8	359	24	4.0	1.1
3622	MA027	35.2659	83.4753	7.2	18	44.8	276	239	46900	1748	69700	2020	3600	19.7	58700	200	78.1	9.4	1424	260	8.9	2.3
3623	MA028	35.2625	83.5123	6.9	15	8.7	34	56	26400	253	16900	550	2200	4.0	4800	20	15.1	1.3	166	15	M	0.8
3624	MA029	35.2780	83.5516	6.7	16	7.7	51	56	46500	492	42300	2170	7700	14.0	7000	40	14.1	7.5	251	38	17.8	2.0
3625	MA030	35.2972	83.5162	7.1	20	5.7	25	25	40400	188	22000	1020	7500	5.8	5800	20	8.7	1.9	68	8	M	1.0
3626	MA031	35.3036	83.4406	7.0	18	4.7	16	39	32500	147	22500	380	3600	9.5	3400	30	9.0	3.4	115	11	M	0.6
3627	MA032	35.2752	83.4273	6.9	20	23.7	113	99	31200	720	28700	590	1300	7.8	15300	70	34.0	3.8	828	111	M	0.9
3628	MA033	35.2816	83.4075	6.9	23	19.0	101	84	27400	754	21200	390	1500	6.0	4900	30	28.4	5.5	464	45	11.7	1.3
3629	MA034	35.3003	83.3910	7.0	18	7.5	24	35	28900	166	13800	380	2200	4.7	3300	30	10.7	1.7	133	6	8.3	0.5
3630	MA035	35.2952	83.3655	7.1	16	13.9	61	92	39100	529	19400	450	2800	8.2	4000	40	19.4	4.3	266	65	M	0.5
3631	MA036	35.2880	83.3614	7.0	12	10.9	118	73	87000	845	94000	800	4800	29.4	10100	100	20.4	9.9	325	59	11.4	1.9
3632	MA037	35.2664	83.3634	7.0	18	20.3	109	60	76400	712	30200	450	5500	9.5	21700	130	24.0	3.6	625	22	M	0.7
3633	MA038	35.2740	83.3373	7.2	25	16.5	103	65	64500	760	47100	970	5900	17.6	18600	130	29.8	7.2	321	75	M	-0.3
3634	MA039	35.1672	83.5123	7.4	18	7.9	43	35	85700	311	53900	1260	15500	19.0	21500	180	15.5	1.9	352	49	M	1.0
3635	MA040	35.1600	83.5628	7.6	20	7.0	76	62	78600	455	100400	1000	13000	31.1	10300	110	15.7	5.6	225	33	13.5	1.4
3636	MA041	35.1568	83.6264	7.1	10	11.1	78	56	50400	465	50200	1290	6800	15.6	16300	110	22.9	4.0	233	31	6.8	0.7
3637	MA042	35.1299	83.6159	7.1	12	12.0	76	61	74300	514	51500	1960	12300	17.8	16800	100	36.7	4.5	260	39	8.4	1.2
3639	MA044	35.1913	83.6379	6.8	8	5.3	20	25	M	165	19600	910	6600	6.5	M	M	M	3.6	70	11	4.3	0.7
3640	MA045	35.2089	83.6930	6.9	15	2.6	6	25	M	48	30300	M	2000	6.5	M	M	M	1.5	20	4	2.9	0.5
3641	MA046	35.2369	83.5892	6.7	10	7.9	33	59	24500	198	34200	1180	5400	6.2	4700	50	M	M	102	11	6.5	0.8

FONTANA LAKE 100K SHEET - STREAM SEDIMENT

County	Lat	Long	pH	Cond	U	Th	Hf	Al	Ce	Fe	Mn	Na	Sc	Ti	V	Dy	Eu	La	Sm	Yb	Lu	Au	
ID				un/cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
3642	MA047	35.2204	83.6122	6.9	15	5.4	25	31	M	194	27300	740	5600	7.0	M	M	2.3	85	14	2.5	0.8		
3643	MA048	35.2359	83.6265	7.1	18	2.6	6	19	33800	68	94900	M	1500	7.4	18400	130	M	3.6	22	3	3.3	0.6	
3644	MA049	35.2632	83.6198	7.1	20	7.8	29	40	34200	214	41700	M	3300	8.4	11900	30	M	M	108	15	6.0	0.8	
3645	MA050	35.2631	83.6471	7.1	22	3.3	4	36	26700	31	22000	440	2000	6.4	7800	20	M	-1.0	15	3	2.1	0.4	0.020
3646	MA051	35.2611	83.6636	7.3	20	3.3	8	28	37000	57	27000	800	5900	6.2	11700	40	M	-1.0	26	4	2.8	0.4	
3647	MA052	35.1735	83.7130	6.8	10	3.0	12	27	42900	115	60000	1760	8100	10.5	M	50	M	2.5	42	6	6.8	1.0	
3648	MA053	35.1669	83.6993	6.7	19	6.3	13	91	36200	107	82300	920	2000	14.9	21500	20	M	-1.6	51	10	9.0	2.0	
3649	MA060	35.0154	83.1981	6.9	14	4.6	41	15	M	201	35500	M	14100	11.1	M	50	M	M	112	12	M	0.7	
3650	MA061	35.0071	83.2270	6.2	10	24.2	178	82	25500	1185	54100	1270	5600	10.0	12200	80	55.5	11.9	558	79	24.0	4.0	
3651	MA062	35.0031	83.2107	6.5	14	17.9	146	33	M	839	53000	1270	11100	12.5	12200	140	29.6	7.2	449	36	12.0	1.8	
3652	MA063	35.0082	83.1601	6.3	12	9.6	32	20	M	166	24300	M	7400	10.5	M	40	M	3.8	86	10	2.5	0.5	
3653	MA064	35.0440	83.1664	6.5	15	37.6	237	M	58200	1429	38300	M	M	9.1	M	110	M	14.0	691	73	19.9	3.2	
3654	MA065	35.0543	83.1980	6.0	28	8.2	64	M	M	335	20700	470	22500	7.6	2500	50	15.5	2.7	168	20	9.2	1.2	
3655	MA066	35.0689	83.1863	6.2	15	21.8	185	M	M	1012	18200	530	18500	7.4	3800	60	35.0	12.0	527	54	14.2	2.0	
3656	MA067	35.0940	83.1895	6.4	10	33.2	527	M	M	2782	28600	700	14200	16.0	M	50	44.4	30.7	M	134	24.3	3.1	
3657	MA068	35.1020	83.2369	5.8	14	5.5	25	14	M	143	27600	560	16600	9.0	3500	50	M	3.6	77	7	5.2	0.9	
3658	MA069	35.0642	83.2204	6.1	19	5.3	39	M	M	217	33100	820	17400	9.4	M	70	M	3.4	118	11	3.2	0.5	
3659	MA070	35.0814	83.2374	6.3	11	14.8	83	23	M	483	18500	460	16000	5.8	M	10	M	M	246	29	8.0	1.2	
3660	MA071	35.1323	83.3213	6.8	19	5.8	20	78	50500	150	160900	1950	4500	19.3	44000	420	12.5	3.3	72	13	8.3	1.1	16.528
3661	MA072	35.1525	83.2583	6.8	23	6.5	17	32	64300	127	26800	2230	40800	8.0	20400	190	30.3	1.7	44	9	5.6	1.1	
3662	MA073	35.1379	83.2755	6.9	21	11.1	35	41	60300	299	38800	900	13500	7.9	9600	90	19.8	4.0	130	19	9.2	1.4	
3663	MA074	35.1223	83.2904	6.9	12	8.4	40	73	60600	284	104800	3960	13700	20.4	78400	680	43.7	4.5	113	18	7.4	1.4	
3664	MA075	35.1224	83.2132	6.7	9	14.6	66	44	58600	440	23900	820	17200	8.5	7900	70	30.3	4.4	197	27	10.4	1.6	
3665	MA076	35.1228	83.2606	6.8	17	7.4	39	61	229400	237	52300	1830	44400	20.1	16800	140	M	3.3	109	16	9.9	1.8	
3666	MA077	35.0889	83.2819	6.7	10	5.2	45	24	87300	216	28200	640	18300	8.2	3300	50	10.3	1.7	105	8	2.5	0.8	
3667	MA078	35.0733	83.2606	6.5	9	117.5	982	199	40100	5326	83100	7100	32200	15.3	83300	830	264.8	51.7	M	819	80.0	9.5	
3668	MA079	35.0648	83.2672	6.5	9	51.6	490	139	56000	2798	66200	1680	11600	11.8	25700	240	178.9	26.3	1470	405	35.9	5.5	
3669	MA080	35.0577	83.2643	6.4	10	11.8	66	15	55800	382	17200	580	18600	6.2	4800	60	25.3	2.2	192	21	7.9	1.2	
3671	MA082	35.0133	83.3151	6.5	17	12.8	88	59	69400	574	40100	850	10500	11.2	9900	110	45.3	7.8	245	41	11.3	2.1	
3673	MA084	35.0652	83.4077	6.7	19	2.7	8	44	188800	95	93900	2960	10400	20.3	55000	670	22.8	3.3	32	8	1.7	0.9	
3674	MA085	35.0502	83.3640	6.7	17	3.4	23	14	80600	132	19700	400	18100	5.5	3300	50	6.0	1.5	62	8	M	0.3	
3675	MA086	35.0676	83.3187	6.7	12	7.6	119	57	67100	700	55400	1480	30600	13.8	16300	190	49.4	7.2	319	37	15.1	1.8	
3676	MA087	35.0772	83.3456	6.8	18	8.3	26	70	53800	190	89600	1400	6800	15.3	31700	230	20.1	3.2	78	12	7.5	1.4	
3677	MA088	35.1013	83.3571	6.7	14	4.9	7	71	28900	-20	201200	1870	3100	17.7	57000	640	11.0	2.0	31	6	7.9	1.0	

FONTANA LAKE 100K SHEET - STREAM SEDIMENT

County	Lat	Long	pH	Cond	U	Th	Hf	Al	Ce	Fe	Mn	Na	Sc	Ti	V	Dy	Eu	La	Sm	Yb	Lu	Au	
ID				um/cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
3678	MA089	35.1339	83.3672	6.9	29	4.1	20	78	144500	121	75100	3510	11800	18.5	58600	520	M	2.4	48	9	4.8	0.9	
3679	MA090	35.1288	83.4049	7.0	22	28.0	207	199	64000	1408	113000	2070	5800	25.8	66300	410	41.6	7.3	562	102	12.2	1.8	
3680	MA091	35.1104	83.3895	7.1	29	9.0	60	127	50900	450	177200	1450	1700	20.6	60600	730	15.0	3.9	177	37	4.7	1.1	
3681	MA092	35.0988	83.4051	7.0	21	2.8	22	50	58000	122	98100	3270	7700	19.6	78700	820	M	1.6	46	8	3.1	0.6	
3682	MA093	35.1005	83.4576	7.1	19	2.3	10	19	78300	87	51600	1030	7600	18.4	11000	160	7.5	1.3	41	8	8.4	0.4	
3683	MA094	35.1007	83.4851	7.1	21	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
3684	MA095	35.0932	83.5624	7.1	14	12.3	75	81	173000	511	219600	M	29600	41.1	28200	630	M	4.1	247	26	19.5	2.6	
3685	MA096	35.0998	83.5476	7.0	15	7.0	47	62	M	336	70200	930	2700	14.9	M	M	M	-1.5	252	20	2.6	0.6	
3686	MA097	35.0434	83.4477	6.8	11	3.6	17	111	57600	171	235200	820	5100	37.6	21900	210	M	3.4	39	7	M	1.8	
3687	MA098	35.0585	83.4306	6.7	16	6.5	25	90	M	243	302000	2440	15400	8.0	M	430	M	7.8	142	27	14.8	1.9	
3688	MA099	35.0457	83.4086	6.5	18	9.1	17	59	184600	94	89000	M	32100	98.3	M	240	M	6.7	42	15	17.8	2.2	0.062
3689	MA100	35.0128	83.3886	6.4	15	9.4	24	161	24300	-37	283000	2820	2400	25.5	72100	800	M	M	46	6	12.0	1.7	
3690	MA101	35.0743	83.5279	6.7	11	3.6	25	59	45600	155	60800	1050	4300	16.7	16300	150	M	M	70	11	6.0	0.8	
3691	MA102	35.0585	83.5150	6.8	11	3.3	41	73	58900	286	131700	1140	7000	34.7	18300	200	M	4.8	128	18	7.6	1.5	
5761	SW001	35.4706	83.3520	6.7	15	4.3	9	49	37100	56	19900	400	2600	5.8	3900	30	5.7	-1.2	M	M	M	0.6	
5762	SW002	35.4598	83.4059	6.6	19	3.4	8	47	28700	29	13800	330	1300	5.3	3500	20	5.3	-1.0	19	4	5.1	0.6	
5763	SW003	35.4090	83.3631	6.8	15	5.2	13	56	46800	139	20700	540	6100	11.5	4000	40	10.1	M	80	15	6.2	1.0	
5764	SW004	35.3733	83.3456	6.7	10	2.8	7	20	47800	75	17200	440	5500	9.2	2900	30	4.5	-1.8	45	14	5.5	1.1	
5765	SW005	35.4265	83.4216	6.6	18	4.7	13	39	46300	84	21000	540	4900	6.5	M	40	M	1.2	47	6	3.9	0.7	
5766	SW006	35.4458	83.4399	6.5	11	5.9	28	159	M	270	52600	M	5400	17.6	M	M	M	5.6	136	16	10.1	2.0	
5767	SW007	35.4474	83.4750	6.4	15	4.5	21	19	48300	132	30100	570	4800	9.5	M	50	11.7	1.3	73	6	6.1	0.5	
5768	SW008	35.4314	83.4727	6.7	47	18.3	76	285	174500	505	75400	1080	12900	26.1	M	70	M	5.0	244	30	12.0	2.6	
5769	SW009	35.4184	83.4743	6.6	28	27.2	79	241	176600	481	53800	1570	14800	17.1	20000	80	44.7	8.5	255	47	18.5	2.9	
5770	SW010	35.4379	83.4924	6.7	20	29.4	107	72	224000	943	86500	2890	15200	27.2	43000	200	130.9	13.8	471	65	33.7	4.0	
5771	SW011	35.4055	83.5243	6.9	25	7.7	26	44	40600	229	39400	800	2300	8.0	14200	40	20.9	3.0	106	16	8.4	1.2	
5772	SW012	35.3931	83.4977	6.9	22	5.9	38	63	41300	314	52700	490	2600	14.3	5600	40	10.8	3.8	151	20	8.9	1.8	
5773	SW013	35.3650	83.4982	6.7	17	5.7	17	29	36500	151	20400	400	3100	5.3	M	M	M	3.2	75	10	2.2	0.7	
5774	SW014	35.3155	83.5025	6.7	18	6.7	19	33	M	131	14500	510	3400	4.0	M	M	6.1	2.0	63	9	3.9	0.5	
5775	SW015	35.3161	83.4642	6.7	17	7.9	25	72	30800	172	19900	580	2400	6.7	5000	30	8.0	3.4	82	14	4.4	0.9	
5776	SW016	35.3638	83.5500	6.6	20	4.6	30	48	44400	173	55100	630	2400	15.1	7500	40	9.3	M	98	13	7.0	0.9	
5777	SW017	35.3288	83.5433	6.5	13	4.3	11	37	25500	110	23900	340	2900	7.9	3600	20	8.1	-1.6	57	9	9.9	0.9	
5778	SW018	35.3187	83.5278	6.5	19	7.0	16	43	24700	103	14400	370	1200	3.4	5200	30	8.8	1.3	64	18	2.3	0.7	
5779	SW019	35.3266	83.5816	6.7	23	4.4	15	20	60100	136	31300	990	7400	8.4	6000	50	M	-1.0	49	7	4.9	0.7	
5780	SW020	35.3114	83.6161	6.7	19	3.9	10	25	58500	110	34500	920	8300	8.4	11100	60	M	1.8	35	6	5.2	0.6	

FONTANA LAKE 100K SHEET - STREAM SEDIMENT

County	Lat	Long	pH	Cond	U	Th	Hf	Al	Ce	Fe	Mn	Na	Sc	Ti	V	Dy	Eu	La	Sm	Yb	Lu	Au
ID				um/cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
5781	SW021	35.3125	83.6424	7.1	33	1.1	9	10	4900	23	17500	460	500	2.1	1700	10	M -1.6	18	2	M	0.2	
5782	SW022	35.2805	83.6755	7.0	11	2.9	7	24	50700	60	34000	770	7700	8.6	7300	50	M 1.7	26	2	4.2	0.5	
5783	SW023	35.3545	83.5761	6.7	23	2.3	4	15	31400	16	18200	420	3000	4.2	5300	30	3.9 2.9	15	7	M	0.4	
5784	SW024	35.3762	83.4612	6.9	19	3.5	12	21	40200	52	16400	460	2800	7.4	3200	30	7.3 -1.0	30	5	2.0	0.6	
5785	SW025	35.3673	83.4690	6.9	13	5.9	17	39	38200	117	18500	580	5200	8.4	4300	30	8.4 1.9	57	16	4.2	0.7	
5786	SW026	35.3495	83.4443	6.9	21	8.1	18	62	38500	200	19500	620	4800	6.9	4900	30	16.0 -1.0	85	11	4.9	1.1	
5787	SW027	35.3400	83.3943	6.8	9	4.4	14	41	35200	110	20300	400	5000	6.7	M	20	1.8 1.7	49	6	4.0	0.7	
5788	SW028	35.3583	83.3996	6.8	11	4.7	17	44	159100	130	28900	2150	23000	11.0	12400	180	37.1 1.7	63	9	5.3	0.7	
5789	SW029	35.3571	83.4367	6.8	15	3.0	9	25	41500	89	18800	480	5800	7.7	2800	30	6.4 3.3	34	9	2.2	0.4	
5791	SW031	35.4508	83.4832	6.8	20	8.5	66	57	48100	531	51500	810	3800	15.8	7700	40	16.4 6.2	241	30	16.1	2.0	
5792	SW032	35.4565	83.5264	6.7	12	8.1	9	155	38200	58	34500	1090	5600	9.4	13000	40	7.7 1.5	30	2	6.3	1.3	
5793	SW033	35.4716	83.5720	6.6	12	4.0	7	49	26700	21	19000	590	2000	4.8	7300	30	5.7 -1.0	10	2	3.2	0.5	
5794	SW034	35.4747	83.5661	6.5	11	4.4	10	68	37200	33	26800	780	6100	6.9	9100	40	4.7 0.5	17	3	4.8	1.0	
5795	SW035	35.4509	83.6082	6.9	13	8.0	19	121	31300	23	23800	940	1800	6.2	14100	30	6.7 -1.0	11	2	4.5	0.9	
5796	SW036	35.4484	83.6358	7.1	19	4.0	5	48	35000	17	20300	640	2000	6.1	7900	40	3.8 -1.0	15	5	3.9	0.4	
5797	SW037	35.4493	83.6652	7.1	19	6.0	13	157	43200	46	60700	980	2400	17.1	11000	40	7.7 4.6	35	5	11.9	1.5	
5798	SW038	35.4748	83.7198	7.0	10	10.8	12	205	33500	61	34800	5370	22700	8.4	45100	100	26.8 1.5	27	2	7.1	2.0	
5799	SW039	35.4941	83.7592	6.7	18	5.7	15	84	32400	64	30700	1510	4700	6.3	16400	30	M 1.3	24	4	5.1	0.9	
5802	SW042	35.4872	83.7798	6.7	15	5.8	11	78	48700	53	32000	940	6600	7.0	9700	40	7.5 0.8	24	4	3.9	0.8	
5803	SW043	35.4700	83.8606	6.7	11	11.8	14	191	44000	22	24500	690	11400	5.5	7400	30	M -1.0	17	3	8.0	1.6	
5804	SW044	35.4762	83.8691	6.6	12	6.1	8	78	57400	33	22600	720	11600	5.9	6500	50	M 0.6	17	3	6.5	0.9	
5805	SW045	35.4989	83.6918	7.0	13	3.5	6	94	31300	71	49700	780	7300	10.5	8200	30	4.9 1.2	41	8	11.0	1.4	
5816	SW056	35.4725	83.4211	7.2	M	3.8	4	36	28900	27	12900	420	2700	6.1	4000	30	7.6 -1.0	15	4	5.5	0.6	
5822	SW065	35.4945	83.3702	6.5	10	3.2	6	40	34800	36	18200	430	2200	4.6	4000	30	5.5 0.6	15	5	3.0	0.5	
5900	TR065	35.0691	83.0145	7.3	11	3.4	4	19	49400	33	22700	510	10800	5.5	5300	50	M M	25	4	5.6	0.8	
5901	TR066	35.0420	83.0124	6.8	14	5.9	12	74	37000	110	30800	490	3900	13.0	4800	40	8.8 9.5	58	9	6.2	1.0	

TOCCOA 100K SHEET - STREAM SEDIMENT

	County	Lat	Long	pH	Cond	U	Th	Hf	Al	Ce	Fe	Mn	Na	Sc	Ti	V	Dy	Eu	La	Sm	Yb	Lu	Au
	ID				um/cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
1645	CY023	34.9931	83.9617	6.9	22	3.9	8	38	24400	50	25400	710	2200	3.9	12800	40	5.6	-1.4	14	4	2.3	0.4	
1647	CY025	34.9897	83.9367	7.1	22	5.8	M	55	21700	M	M	450	2200	5.9	5300	30	7.0	M	M	M	M	M	
1657	CY035	34.9911	83.7208	6.9	24	9.7	39	23	32400	255	44000	460	3500	9.9	25200	80	7.3	3.7	160	26	2.8	-0.2	
3670	MA081	34.9987	83.3004	6.4	10	14.8	131	55	154100	708	43200	2230	11200	11.1	35600	390	113.1	9.3	381	81	8.9	1.2	
3672	MA083	34.9922	83.4518	6.6	13	5.1	7	76	61800	85	78800	1380	9200	32.9	20000	240	6.5	2.6	32	6	6.7	1.3	

TOCCOA 100K SHEET - SUPPLEMENTAL STREAM SEDIMENT

County	Lat	Long	Ux	Ag	As	Ba	Be	Ca	Co	Cr	Cu	K	Li	Mg	Mo	Nb	Ni	P	Pb	Se	Sn	Sr	W	Y	Zn
ID			ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
CY023S1	34.9931	83.9617	.	-0.5	.	.	0.5	.	5	-5	2	7000	9	1350	-5	40	-5	1000	-10	.	20	-50	-2	25	25
CY025S1	34.9897	83.9367	.	-0.5	.	.	0.5	.	10	-5	3	7000	7	1450	-5	10	-5	1300	-10	.	10	-50	-2	15	33
CY035S1	34.9911	83.7208	.	-0.5	.	.	1.0	.	22	-5	10	7000	10	1950	-5	10	8	1300	-10	.	-5	-50	-2	30	63
MA081S1	34.9987	83.3004	.	0.5	.	.	0.5	.	20	-5	12	8000	8	1500	-5	5	9	1600	-10	.	30	-50	-2	30	58
MA083S1	34.9922	83.4518	.	-0.5	.	.	1.0	.	25	10	6	5000	-5	1950	-5	5	13	900	-10	.	5	-50	-2	20	58

FONTANA LAKE 100K SHEET - GROUNDWATER

Lab #	County	Lat	Long	pH	Cond	U	Br	Cl	F	Mg	Mn	Na	V U/cond	Al	Dy
ID					um/cm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb x 1000	ppb	ppb
946	CE501	35.2336	83.7144	6.6	39	0.037	17	3800	.	1070	.	1260	-0.1 0.9	12	0.050
947	CE502	35.2121	83.7562	6.2	13	0.028	.	3300	.	.	2	720	-0.1 2.1	10	0.130
948	CE503	35.2028	83.8033	6.3	73	0.037	16	3900	22	1280	100	1170	-0.1 0.5	12	-0.001
949	CE504	35.1915	83.8418	6.6	83	0.019	14	3400	30	1150	.	1100	-0.1 0.2	8	0.020
950	CE505	35.1669	83.8369	6.2	18	0.038	16	3400	.	.	5	440	-0.1 2.1	10	0.030
951	CE506	35.1676	83.8061	6.4	69	0.041	13	3900	.	2750	4	1010	-0.1 0.5	8	-0.001
952	CE507	35.1788	83.9269	7.0	49	0.026	9	3400	.	270	2	920	0.2 0.5	16	-0.001
953	CE508	35.1470	83.9659	6.4	15	0.020	11	3500	.	490	.	740	-0.1 1.3	17	-0.001
980	CE535	35.0477	83.9825	6.7	20	-0.002	19	7400	34	.	45	2560	-0.1 0.0	189	-0.001
981	CE536	35.0928	83.9650	6.4	100	-0.002	59	14900	.	.	51	9660	-0.1 0.0	203	-0.001
982	CE537	35.1486	83.9216	6.8	18	0.040	.	7600	22	.	40	2730	-0.1 2.2	136	-0.001
1591	CY501	35.0087	83.8021	7.8	32	0.036	.	6000	37	.	40	5940	2.7 1.1	330	-0.001
1592	CY502	35.0406	83.7920	7.7	65	-0.002	.	7200	.	.	55	3020	-0.1 0.0	116	-0.001
1593	CY503	35.0400	83.7497	7.7	28	-0.002	.	6700	.	.	47	2760	0.6 0.0	471	-0.001
1594	CY504	35.0061	83.7479	7.5	55	-0.002	.	8400	.	8400	.	1040	-0.1 0.0	123	-0.001
1595	CY505	35.0085	83.6640	6.3	31	-0.002	.	13600	14	.	40	3150	0.3 0.0	166	0.210
1596	CY506	35.0427	83.6208	7.0	12	-0.002	.	7300	.	620	.	1410	-0.1 -0.1	158	-0.001
1597	CY507	35.0174	83.6251	6.7	82	0.024	.	8800	37	.	30	1700	-0.1 0.2	186	-0.001
1598	CY508	35.0390	83.6926	6.4	20	-0.002	.	6300	14	.	21	980	-0.1 0.0	80	-0.001
1600	CY510	35.0007	83.9074	6.4	19	-0.002	21	7800	.	.	76	3300	-0.1 -0.1	89	-0.001
1601	CY511	35.0109	83.8638	6.4	19	-0.002	.	7900	29	.	73	4310	0.5 -0.1	180	0.050
1602	CY512	35.0912	83.7415	6.2	9	-0.002	.	7200	23	.	69	3020	-0.1 -0.2	92	-0.001
1603	CY513	35.1058	83.6855	6.8	8	-0.002	.	8000	41	.	70	2490	0.5 -0.2	223	-0.001
1604	CY514	35.0783	83.7941	6.4	9	-0.002	22	7800	37	.	74	3020	0.4 -0.2	112	-0.001
1605	CY515	35.0766	83.8684	6.8	12	-0.002	.	7300	21	.	87	2730	-0.1 -0.1	192	-0.001
1606	CY516	35.0804	83.8939	6.6	12	-0.002	.	7400	16	.	73	3580	-0.1 -0.1	118	-0.001
1607	CY517	35.0401	83.8668	6.9	12	0.017	17	7200	.	.	67	3530	-0.1 1.4	119	-0.001
1608	CY518	35.0557	83.9134	6.8	10	0.035	.	7500	.	.	76	2990	-0.1 3.5	153	-0.001
2209	GR501	35.2773	83.7312	7.0	19	-0.002	.	6700	37	.	42	3130	0.5 -0.1	296	-0.001
2210	GR502	35.2928	83.7862	6.7	13	-0.002	.	7200	53	.	54	2700	0.4 -0.1	305	-0.001
2211	GR503	35.3358	83.8177	6.6	8	-0.002	.	7800	29	.	40	1610	-0.1 -0.2	137	-0.001
2212	GR504	35.2865	83.8490	7.1	5	-0.002	31	6400	.	.	46	1850	0.7 -0.3	371	-0.001
2213	GR505	35.3036	83.8964	6.6	8	-0.002	.	7100	30	.	64	2350	0.7 -0.2	276	-0.001
2214	GR506	35.2622	83.9085	7.3	10	0.032	.	8100	42	.	58	3360	-0.1 3.2	199	-0.001

FONTANA LAKE 100K SHEET - GROUNDWATER

Lab #	County	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V U/cond ppb x 1000	Al ppb	Dy ppb
2215	GR507	35.3251	83.9000	6.7	9	-0.002	.	7000	33	.	63	2780	0.5 -0.2	539	-0.001
2216	GR508	35.3728	83.9117	7.0	12	-0.002	.	7100	15	.	62	2870	-0.1 -0.1	241	-0.001
2217	GR509	35.3901	83.8639	7.0	6	-0.002	.	7100	14	.	58	2440	0.4 -0.3	538	-0.001
2218	GR510	35.4407	83.9170	7.0	20	0.015	.	7600	65	.	68	4090	1.2 0.7	995	-0.001
2219	GR511	35.4341	83.8433	8.0	31	-0.002	.	7800	31	.	55	2780	0.4 0.0	394	-0.001
2220	GR512	35.4325	83.7859	7.1	10	-0.002	24	7200	.	.	57	2320	0.9 -0.1	431	-0.001
2221	GR513	35.4217	83.7201	7.5	12	0.002	.	11200	30	.	63	4330	-0.1 0.1	150	-0.001
2222	GR514	35.4216	83.6922	6.9	8	0.044	8	6600	40	.	60	2650	-0.1 5.5	142	-0.001
2223	GR515	35.3901	83.7272	7.4	35	-0.002	.	6700	97	.	68	3660	0.6 0.0	528	-0.001
2224	GR516	35.3336	83.7436	7.0	10	-0.002	.	7000	30	.	55	2920	-0.1 -0.1	209	-0.001
2225	GR517	35.3532	83.8362	6.9	11	-0.002	.	8700	15	.	61	2660	-0.1 -0.1	174	-0.001
2226	GR518	35.3708	83.8170	7.0	15	0.005	.	7900	25	.	59	3140	-0.1 0.3	219	-0.001
2227	GR519	35.3560	83.6860	6.6	30	-0.002	.	7800	17	.	92	2940	-0.1 0.0	171	0.140
2228	GR520	35.3828	83.6764	7.0	18	-0.002	.	6800	53	.	57	3110	-0.1 -0.1	308	-0.001
2229	GR521	35.3816	83.6219	6.9	10	-0.002	.	7200	47	.	62	2940	-0.1 -0.1	112	-0.001
2745	HY524	35.4737	83.0314	7.2	120	-0.002	.	9700	166	.	64	5380	-0.1 0.0	70	-0.001
2746	HY525	35.4576	83.0804	7.0	20	0.014	.	9000	.	.	35	1480	0.2 0.7	52	-0.001
2747	HY526	35.4323	83.0242	6.5	25	-0.002	64	7300	21	.	31	1860	-0.1 0.0	40	-0.001
2821	JAS01	35.1313	83.0729	6.3	23	0.153	17	8100	44	.	49	4690	0.3 6.6	66	-0.001
2822	JAS02	35.1379	83.0043	6.1	12	0.020	37	8500	52	.	260	1810	-0.1 1.6	130	-0.001
2824	JAS04	35.3231	83.2374	7.7	78	0.161	.	6800	166	.	35	6450	-0.1 2.0	34	-0.001
2825	JAS05	35.2863	83.1874	7.2	21	0.047	8	3200	.	.	11	1050	-0.1 2.2	14	-0.001
2826	JAS06	35.2299	83.1849	6.7	13	0.045	11	7900	11	.	.	1970	0.5 3.4	34	-0.001
2827	JAS07	35.1976	83.1786	6.8	11	0.081	.	4700	.	.	3	760	-0.1 7.3	17	-0.001
2828	JAS08	35.1511	83.1887	5.5	22	0.050	.	10900	15	.	.	2220	-0.1 2.2	47	-0.001
2829	JAS09	35.1350	83.1519	6.0	40	0.034	.	8200	.	.	10	2420	-0.1 0.8	11	-0.001
2830	JAS10	35.1139	83.1291	6.6	81	0.201	14	7300	.	.	14	1440	-0.1 2.4	31	-0.001
2831	JAS11	35.0445	83.0526	6.5	18	0.023	.	3900	.	.	15	520	-0.1 1.2	18	0.040
2832	JAS12	35.0637	83.1250	7.6	98	21.130	962	7800	86	1310	.	9070	0.4 215.6	29	-0.001
2833	JAS13	35.0949	83.0817	6.2	28	0.210	.	4400	.	.	2	1560	0.2 7.5	12	-0.001
2834	JAS14	35.1760	83.1274	6.2	15	0.032	.	7800	14	.	.	2360	-0.1 2.1	27	-0.001
2835	JAS15	35.2007	83.0868	5.8	20	0.045	.	4000	.	.	3	570	-0.1 2.2	13	-0.001
2836	JAS16	35.2279	83.1326	5.9	12	0.045	.	7400	.	.	3	1530	-0.1 3.7	28	-0.001
2837	JAS17	35.2958	83.0797	6.2	31	0.012	.	3900	.	640	.	1830	-0.1 0.3	78	-0.001

FONTANA LAKE 100K SHEET - GROUNDWATER

Lab #	County	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V U/cond ppb x 1000		Al ppb	Dy ppb
2838	JA518	35.3487	83.0264	6.0	18	0.030	.	7800	38	470	.	1700	-0.1	1.6	30	-0.001
2839	JA519	35.3199	83.0594	6.7	67	0.019	.	3300	32	.	5	2050	-0.1	0.2	15	-0.001
2840	JA520	35.3695	83.2646	6.7	58	0.058	14	7800	22	2690	.	3090	1.2	1.0	23	-0.001
2841	JA521	35.4203	83.2580	8.3	80	0.029	.	3300	93	.	31	2020	-0.1	0.3	13	-0.001
2842	JA522	35.3876	83.3115	6.5	36	0.029	.	7300	71	1190	.	2780	0.7	0.8	23	-0.001
2843	JA523	35.3579	83.3192	6.4	22	0.035	.	3500	.	.	14	600	-0.1	1.5	12	-0.001
2844	JA524	35.4174	83.3162	6.2	19	0.032	24	7500	44	740	.	1660	-0.1	1.6	18	-0.001
2845	JA525	35.4687	83.2677	7.2	31	0.015	.	3300	560	.	2	1390	-0.1	0.4	52	-0.001
2846	JA526	35.4792	83.2107	6.9	43	0.041	.	7600	91	.	8	5350	0.9	0.9	57	-0.001
2847	JA527	35.4862	83.1547	6.4	12	-0.002	.	3700	.	.	1	560	-0.1	-0.1	10	-0.001
2848	JA528	35.2883	83.1406	6.3	50	0.064	10	2900	45	1380	.	1990	0.1	1.2	61	-0.001
2849	JA529	35.2487	83.0826	6.8	27	0.055	.	3200	.	370	1	1080	-0.1	2.0	15	-0.001
2850	JA530	35.2766	83.0248	6.4	28	0.080	.	3000	.	390	.	1040	-0.1	2.8	10	0.020
2854	JA534	35.2306	83.0030	6.2	18	0.077	15	3000	21	.	1	1110	-0.1	4.2	40	-0.001
2855	JA535	35.3280	83.1543	6.0	57	0.045	11	M	.	M	15	M	-0.1	0.7	17	-0.001
2856	JA536	35.3366	83.1955	6.9	71	0.064	6	M	.	M	43	M	-0.1	0.9	17	-0.001
2857	JA537	35.2912	83.2663	6.2	13	0.029	11	3000	.	350	.	920	-0.1	2.2	7	-0.001
2858	JA538	35.2861	83.2923	6.6	20	0.031	10	2700	.	650	.	970	-0.1	1.5	11	-0.001
2859	JA539	35.2472	83.2749	6.3	19	0.029	9	3100	29	670	.	870	-0.1	1.5	14	-0.001
2860	JA540	35.4198	83.1938	6.0	18	0.042	13	M	.	M	1	M	-0.1	2.3	12	-0.001
2861	JA541	35.3898	83.1865	5.9	29	0.046	12	3500	.	.	7	770	-0.1	1.5	11	-0.001
2862	JA542	35.3994	83.1318	6.2	56	0.029	.	3500	50	1150	9	2700	0.5	0.5	21	-0.001
2863	JA543	35.4195	83.1254	6.2	20	0.043	14	3200	.	370	.	970	0.1	2.1	9	-0.001
2864	JA544	35.4056	83.0820	6.5	18	0.027	.	2900	.	320	.	790	-0.1	1.5	14	-0.001
2865	JA545	35.4292	83.0848	6.0	24	0.054	10	3000	14	270	6	800	-0.1	2.2	13	0.040
2866	JA546	35.2662	83.1214	7.0	122	10.560	.	10900	234	7290	.	12050	0.6	86.5	113	-0.001
2867	JA547	35.1871	83.1899	6.1	23	0.088	84	9200	35	.	43	3380	-0.1	3.8	85	-0.001
2868	JA548	35.1792	83.2155	6.9	37	0.017	79	7600	77	.	40	3850	0.4	0.4	70	-0.001
3097	MA501	35.2769	83.4886	6.7	12	-0.002	9	6700	24	230	.	1180	-0.1	-0.1	62	-0.001
3098	MA502	35.2312	83.4908	6.4	14	0.002	.	3200	.	.	.	490	-0.1	0.1	27	0.020
3099	MA503	35.2048	83.5351	6.2	13	-0.002	10	7600	.	570	.	1330	-0.1	-0.1	63	-0.001
3100	MA504	35.2089	83.4961	6.7	23	-0.002	.	3300	.	320	.	840	0.2	0.0	22	-0.001
3101	MA505	35.2041	83.4490	6.8	19	0.030	.	6700	53	.	30	1810	0.3	1.5	59	0.220
3102	MA506	35.0895	83.1781	6.2	43	0.014	.	15600	23	.	79	5350	-0.1	0.3	42	-0.001

FONTANA LAKE 100K SHEET - GROUNDWATER

Lab #	County	Lat	Long	pH	Cond	U	Br	Cl	F	Mg	Mn	Na	V U/cond	Al	Dy
ID					um/cm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb x 1000	ppb	ppb
3103	MA507	35.0803	83.2445	6.7	17	-0.002	.	6700	17	.	25	2180	-0.1 -0.1	47	-0.001
3104	MA508	35.0345	83.1996	6.4	20	-0.002	.	8800	.	.	45	2150	-0.1 0.0	45	-0.001
3105	MA509	35.0062	83.2009	5.9	11	-0.002	.	6000	.	.	31	1630	-0.1 -0.1	41	-0.001
3106	MA510	35.0144	83.2326	6.7	11	0.029	.	M	.	.	.	49450	-0.1 2.6	.	-0.001
3107	MA511	35.0462	83.2375	6.4	13	-0.002	15	6900	.	.	27	2110	-0.1 -0.1	51	-0.001
3108	MA512	35.0343	83.3119	6.1	27	0.022	.	9900	20	.	.	1970	0.5 0.8	52	-0.001
3109	MA513	35.0075	83.3263	6.1	38	0.015	.	8900	.	.	42	2960	-0.1 0.3	48	0.100
3110	MA514	35.0756	83.3306	6.0	27	-0.002	.	7300	30	.	34	2870	-0.1 0.0	52	-0.001
3111	MA515	35.1521	83.6173	7.4	11	0.025	.	6300	18	.	31	1900	-0.1 2.2	60	-0.001
3112	MA516	35.1786	83.6572	5.9	21	0.003	11	8000	.	.	57	2400	0.4 0.1	47	-0.001
3113	MA517	35.2016	83.6335	6.3	11	-0.002	.	7000	26	.	33	1630	-0.1 -0.1	47	-0.001
3114	MA518	35.1338	83.3890	7.4	40	-0.002	25	10200	46	.	60	4630	0.6 0.0	101	0.090
3115	MA519	35.0817	83.3742	7.7	8	-0.002	15	7600	20	.	34	1660	0.5 -0.2	91	-0.001
3116	MA520	35.0389	83.3762	7.2	29	0.015	.	7300	83	.	43	2920	0.5 0.5	319	0.050
3117	MA521	35.0125	83.3728	7.4	10	0.034	.	6900	.	.	37	1600	0.5 3.4	354	-0.001
3118	MA522	35.0584	83.4249	7.7	65	0.065	.	7300	222	.	43	7900	-0.1 1.0	137	-0.001
3119	MA523	35.1081	83.4262	7.3	12	-0.002	13	7600	20	.	43	1840	-0.1 -0.1	90	-0.001
3120	MA524	35.1530	83.4399	7.2	12	0.041	.	7900	22	.	42	1410	0.4 3.4	171	-0.001
3121	MA525	35.1260	83.4954	6.6	29	-0.002	.	6700	20	.	60	1750	0.8 0.0	180	-0.001
3122	MA526	35.1373	83.2746	6.5	29	0.029	.	7000	19	.	44	3170	-0.1 1.0	176	-0.001
3123	MA527	35.1032	83.5047	7.4	58	-0.002	.	8100	38	.	50	2890	0.6 0.0	303	-0.001
3124	MA528	35.0906	83.5621	7.4	30	0.013	.	8800	.	.	53	3570	0.5 0.4	199	-0.001
3125	MA529	35.1402	83.3112	6.7	13	-0.002	.	8000	.	.	10	3370	0.5 -0.1	232	-0.001
3126	MA530	35.2827	83.4329	6.6	2	-0.002	24	6800	19	.	13	2070	0.2 -0.9	61	-0.001
3127	MA531	35.2435	83.3876	6.7	9	-0.002	25	7100	16	.	18	2890	-0.1 -0.2	40	-0.001
3128	MA532	35.2252	83.4276	7.7	90	-0.002	11	6700	137	.	63	7760	0.4 0.0	108	-0.001
3129	MA533	35.2451	83.3192	7.0	215	0.006	.	54800	.	9700	.	14270	-0.1 0.0	51	-0.001
3130	MA534	35.2005	83.3667	7.4	50	-0.002	.	12700	.	.	36	6780	-0.1 0.0	103	-0.001
3131	MA535	35.1990	83.3217	7.7	12	0.003	.	6800	50	.	38	3140	-0.1 0.2	107	0.130
3132	MA536	35.2385	83.6326	6.2	17	-0.002	7	6400	24	.	32	2880	-0.1 -0.1	38	-0.001
3133	MA537	35.2676	83.5773	5.8	22	-0.002	.	6000	43	.	61	3040	-0.1 0.0	60	-0.001
3134	MA538	35.2692	83.6837	6.5	43	-0.002	.	7300	73	.	93	4860	-0.1 0.0	20	-0.001
3135	MA539	35.2794	83.6358	6.3	17	-0.002	6	6800	21	.	44	3140	-0.1 -0.1	25	-0.001
3136	MA540	35.2510	83.6967	6.7	18	-0.002	.	6000	19	.	38	3690	-0.1 -0.1	48	-0.001

FONTANA LAKE 100K SHEET - GROUNDWATER

Lab #	County	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V U/cond ppb x 1000	Al ppb	Dy ppb
3137	MA541	35.1579	83.5339	6.9	19	-0.002	48	6700	26	.	48	3130	0.3 -0.1	62	-0.001
3138	MA542	35.2733	83.3368	7.2	32	-0.002	38	6800	48	.	42	3920	0.6 0.0	89	-0.001
3139	MA543	35.2720	83.3928	6.7	18	-0.002	11	7200	50	.	39	3270	-0.1 -0.1	45	-0.001
5092	SW501	35.3327	83.6087	8.8	102	0.021	.	9900	309	.	77	11260	-0.1 0.2	64	-0.001
5093	SW502	35.3765	83.4529	6.7	24	-0.002	.	7900	51	.	66	4210	-0.1 0.0	59	-0.001
5094	SW503	35.3439	83.4302	7.0	21	-0.002	.	7000	40	.	60	2660	-0.1 0.0	70	-0.001
5095	SW504	35.3383	83.3932	6.9	21	-0.002	17	7500	70	.	60	4070	0.3 0.0	60	-0.001
5096	SW505	35.3750	83.5032	7.5	29	-0.002	.	7300	61	.	75	3320	-0.1 0.0	197	-0.001
5097	SW506	35.3420	83.4984	7.0	48	0.021	.	7900	67	.	74	4200	-0.1 0.4	51	-0.001
5098	SW507	35.4349	83.4154	7.0	29	-0.002	.	7700	13	.	92	2810	-0.1 0.0	38	-0.001
5099	SW508	35.4595	83.4359	6.7	29	-0.002	.	6500	320	.	22	3770	1.3 0.0	47	-0.001
5100	SW509	35.4736	83.3868	6.4	25	0.032	.	7500	57	.	57	2960	-0.1 1.2	127	-0.001
5101	SW510	35.4460	83.3797	6.4	108	-0.002	60	18700	.	4180	.	7730	-0.1 0.0	57	0.180
5104	SW513	35.4988	83.3006	6.5	17	-0.002	.	1800	.	.	.	370	-0.1 -0.1	12	-0.001
5105	SW514	35.4001	83.3737	6.3	23	0.011	.	7900	74	.	7	1920	-0.1 0.4	28	-0.001
5106	SW515	35.4368	83.4959	7.2	22	-0.002	.	3300	.	350	.	790	-0.1 0.0	13	-0.001
5107	SW516	35.4121	83.5394	6.9	19	0.025	.	7100	49	.	7	1650	0.2 1.3	36	1.490
5108	SW517	35.3732	83.5405	5.8	18	-0.002	.	2700	15	.	.	420	-0.1 -0.1	10	-0.001
5109	SW518	35.3235	83.5460	6.4	13	0.004	.	7400	31	.	.	1370	-0.1 0.3	19	-0.001
5110	SW519	35.4646	83.5636	6.8	38	-0.002	.	3200	31	.	.	1540	-0.1 0.0	29	-0.001
5111	SW520	35.4470	83.6196	7.2	26	-0.002	14	6800	58	.	4	2570	-0.1 0.0	56	-0.001
5112	SW521	35.4792	83.7319	6.5	17	-0.002	.	2600	.	.	.	570	-0.1 -0.1	14	-0.001
5113	SW522	35.4739	83.8731	6.5	22	0.012	14	6600	99	.	5	2240	-0.1 0.5	24	-0.001
5120	TR502	35.0588	83.0103	5.6	20	0.019	.	3900	.	.	.	M	-0.1 0.9	24	0.060

TOCCOA 100K SHEET - GROUNDWATER

Lab #	County	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V U/cond ppb x 1000	Al ppb	Dy ppb
1599	CY509	34.9942	83.9637	6.4	18	-0.002	288	6800	29	.	16	1250	0.6 -0.1	150	-0.001